

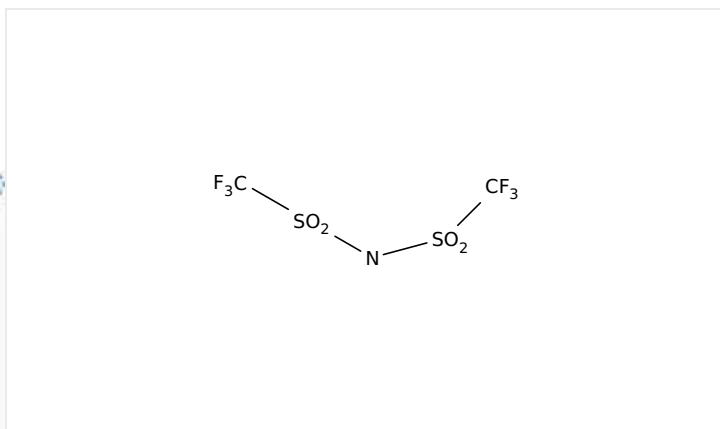
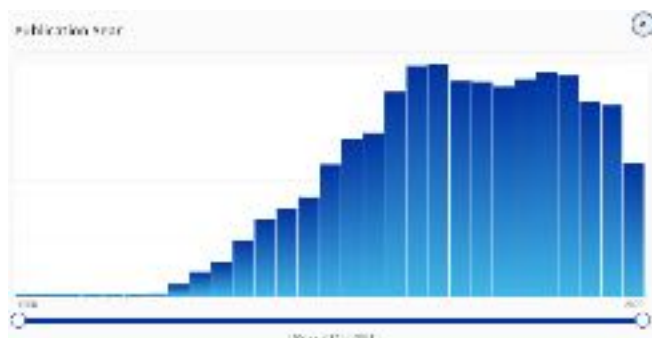
Initiating Search

September 19, 2023, 10:55AM

Substances:

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Number of Components: 2



Structure Match: As Drawn

Search Tasks

Task	Search Type	View
Returned Substance Results + Filters (12,146)	Substances	View Results
Exported: Retrieved Related Reference Results + Filters (20,143)	References	View Results
Filtered By:		
Search Within Results:	Ionic liquids	



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[First 500 Hits](#)[View in SciFinderⁿ](#)

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Machine learning-guided discovery of **ionic** polymer electrolytes for lithium metal batteriesBy: Li, Kai; Wang, Jifeng; Song, Yuanyuan; Wang, Ying 

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2

Thermal transport properties of porous silicon filled by **ionic liquid** nanocomposite system

By: Lishchuk, Pavlo; Vashchuk, Alina; Rogalsky, Sergiy; Chepela, Lesia; Borovyi, Mykola; Lacroix, David; Isaiev, Mykola

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3

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By: Murakami, Koki; Isano, Yuji; Asada, Juri; Usami, Natsuka; Isoda, Yutaka; Takano, Tamami; Matsuda, Ryosuke; Ueno, Kazuhide; Fuchiwaki, Ohmi; Ota, Hiroki

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Solid state **ionics** enabled ultra-sensitive detection of thermal trace with 0.001K resolution in deep seaBy: Zhang, Yucheng ; Ye, Dekai ; Li, Mengxue; Zhang, Xi ; Di, Chong-an ; Wang, Chao 

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By: Li, Xinghao; Wang, Yong-Lei; Wen, Jin ; Zheng, Linlin; Qian, Cheng ; Cheng, Zhonghua; Zuo, Hongyu; Yu, Mingqing; Yuan, Jiayin ; Li, Rong; et al

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By: Esmaeili, Ali; Hekmatmehr, Hesamedin; Atashrouz, Saeid; Madani, Seyed Ali; Pourmahdi, Maryam; Nedeljkovic, Dragutin; Hemmati-Sarapardeh, Abdolhossein; Mohaddespour, Ahmad

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Investigating the operation mechanism of light-emitting electrochemical cells through operando observations of spin states

By: Katsumata, Junya; Osawa, Fumiya; Sato, Go; Sato, Atsushi; Miwa, Kazumoto; Ono, Shimpei ; Marumoto, Kazuhiro 

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By: Tereshatov, Evgeny E. ; Burns, Jonathan D. ; Vonder Haar, Amy L.; Schultz, Steven J. ; McIntosh, Lauren A. ; Tabacaru, Gabriel C.; McCann, Laura A.; Avila, Geoffrey; Hannaman, Andrew ; Hood, Ashley ; et al
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By: Frias, Renan M.; Follegatti-Romero, Luz M.; Follegatti-Romero, Luis A.
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By: Kim, Seungjun; Yeo, Jiyeong; Kim, Su Jung; Park, Soeun; Cho, Kyung Gook; Paeng, Keewook ; Lee, Keun Hyung ; Kim, Myungwoong

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Journal of Colloid and Interface Science (2023), 650(Part_A), 648-658 | Language: English, Database: CAplus and MEDLINE

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By: Chen, Xi; Lv, Jiayan; Fan, Chaonan; Ge, Shaocheng; Deng, Cunbao; Gao, Jiahui 

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By: Dai, Fengna; Xu, Ke; Ke, Zhao; Wang, Mengxia; Chen, Chunhai; Qian, Guangtao; Yu, Youhai

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By: Xu, Minrui ; Dartiguelongue, Cyril; Magna, Lionel; Dalmazzone, Christine

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By: Nabais, Ana R.; Ortiz-Albo, Paloma ; Zhou, Jin-Xiu ; Huang, Mu-Hua; Mecerreyes, David; Crespo, Joao G.; Tome, Liliana C.; Neves, Luisa A. 

Journal of Membrane Science (2023), 685, 121938 | Language: English, Database: CAplus

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In the quest for **ionic liquid** entrainers for the recovery of R-32 and R-125 by extractive distillation under rate-based considerations

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By: Shekh, Mehdihasan I.; Lu, Tao; Kumar, Amit; Sharma, Gaurav; Zhu, Guangming; Stadler, Florian J.; Du, Bing 

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By: Hauk, Daniel Benestante; Torres, Ricardo Belchior; Dangelo, Jose Vicente Hallak
Journal of Chemical Thermodynamics (2023), 185, 107122 | Language: English, Database: CAplus

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Enhanced performance of MAPbI_{2.85}Br_{0.15} perovskite solar cells via ionic liquid-induced surface passivation of perovskite films

By: Du, Jiuyao; Yuan, Jifeng; Xi, Jiahao; Huang, Fei; Tian, Jianjun 
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In-situ crosslinking of polysiloxane electrolyte within Al₂O₃@SiNWs for quasi-solid-state micro-supercapacitors

By: Deschanel, Mathieu ; Dietrich, Marc; Gentile, Pascal ; Alloin, Fannie ; Iojoiu, Cristina; Sadki, Said
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By: Cwynar, Krzysztof ; Dziadosz, Justyna ; Scheller, Lukasz ; Zorebski, Edward; Jedrysiak, Rafal; Kolanowska, Anna ; Blacha, Anna; Boncel, Slawomir ; Dzida, Marzena 

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By: Yazdani, Mohsen; Salehi, Ehsan; Zilabi, Sanaz; Nikraves, Golar

Journal of Chemical Thermodynamics (2023), 184, 107092 | Language: English, Database: CAplus

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Tunable all-solid-state wire-shaped high power device based on carbon nanotubes yarn

By: Serrapede, Mara ; Seller, Francesco ; Zaccagnini, Pietro ; Castellino, Micaela; Roppolo, Ignazio ; Catania, Felice; Tata, Jennifer ; Serra, Tiziano; Bianco, Stefano; Lamberti, Andrea

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Solvent-free Ternary Polymer Electrolytes with High Ionic Conductivity for Stable Sodium-based Batteries at Room Temperature

By: Roscher, Daniel; Kim, Yongil; Stepien, Dominik; Zarrabeitia, Maider ; Passerini, Stefano 

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By: Patrushev, Yuri V. ; Shashkov, Mikhail V.; Sidelnikov, Vladimir N.
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By: Gomez, Moises; Grimes, Sue ; Fowler, Geoff
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By: Chacon R, Gustavo J.; Rodembusch, Fabiano S. ; Albuquerque, Brunno L.; Goncalves, Wellington D. G.; Morais, Jonder; Baptista, Daniel L.; de Moraes Lisboa, Allan; Feil, Adriano; Eberhardt, Dario; Espeso, Jose ; et al
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By: Sun, Shijie; Wu, Min; Chen, Yuquan; Liu, Jin; Yue, Qilin; Wei, Yong 
 Polymer (2023), 283, 126226 | Language: English, Database: CAplus

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By: Gandolfo, Matteo; Versaci, Daniele; Francia, Carlotta; Bodoardo, Silvia; Amici, Julia 
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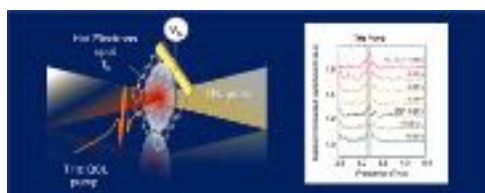
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Electrically Tunable Nonlinearity at 3.2 Terahertz in Single-Layer Graphene

By: Di Gaspare, Alessandra; Balci, Osman ; Zhang, Jincan; Meersha, Adil; Shinde, Sachin M.; Li, Lianhe ; Davies, A. Giles; Linfield, Edmund H.; Ferrari, Andrea C. ; Vitiello, Miriam S. 
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By: Sun, Zhaoxi ; Liu, Xiao; Zheng, Lei ; Cheng, Tong; Kalhor, Payam; Huai, Zhe; He, Qiaole; Li, Yang
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By: Luo, Tianwen; Shariyati, Reza
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Synthesis, NMR, IR, Raman spectra and DFT calculations of 1-octyl-1,4-diazabicyclo [2.2.2] octan-1-ium bis(trifluoromethylsulfonyl)imide

By: Haddad, Boumediene; Brandan, Silvia Antonia; Fetouhi, Bekhaled; Paolone, Annalisa; Boumediene, Mostefa; Villemin, Didier; Rahmouni, Mustapha; Bresson, Serge

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By: Arduc, Kursat; Karakaya, Mustafa

Journal of Molecular Liquids (2023), 386, 122489 | Language: English, Database: CAplus

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The mechanism of the azeotropy eliminating in dimethyl carbonate-ethanol system by extractive distillation applying **ionic liquid** [BMIM][Tf₂N] as entrainer: A combination of FTIR and DFT study

By: Zheng, Yan-Zhen; Zhao, Rui; Zhang, Yu-Cang; Zhou, Yu

Journal of Molecular Liquids (2023), 386, 122576 | Language: English, Database: CAplus

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Hydrogen-bond acidic organic compound-sensitized **ionic** gel for dimethyl methylphosphonate detection

By: Wu, Qiang; Yuan, Yubin; Jiao, Menglong; Wang, Xuming; Liu, Weihua; Bu, Xiangrui; Han, Chuanyu; Li, Xin; Wang, Xiaoli

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By: Lee, Dawoon ; Park, Gaeun; Kim, Youngoh; Choi, Joonmyung ; Hyeok Choi, U.; Kim, Jaekyun 

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N-doped graphene leaves on carbon nanotubes and NiMn₂O₄-graphene hybrid nanocomposites with ionogel film for flexible symmetric and asymmetric supercapacitors

By: Mangishetti, Sandya Rani; Jang, Daehee; Choi, Junil; Rajeshkhanna, Gaddam; Pittala, Suresh ; Kang, Song Kyu; Ji, Junhyuk ; Kim, Minho ; Jung, Seung Gyu; Ha, Jungseub ; et al

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By: Zeger, Victoria R. ; Bell, David S. ; Anderson, Jared L. 

Journal of Chromatography A (2023), 1706, 464222 | Language: English, Database: CAlplus and MEDLINE

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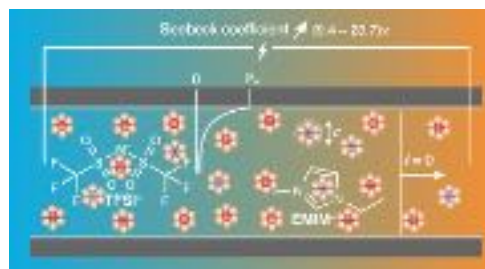
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Ion Steric Effect Induces Giant Enhancement of Thermoelectric Conversion in Electrolyte-Filled Nanochannels

By: Zhang, Wenyao ; Liu, Xinx; Jiao, Kai; Wang, Qiuwang; Yang, Chun ; Zhao, Cunlu 

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Selective Chirality Transfer to the Bis(trifluoromethylsulfonyl)imide Anion of an **Ionic Liquid**

By: Blasius, Jan ; Kirchner, Barbara 

Chemistry - A European Journal (2023), 29(51), e202301239 | Language: English, Database: CAlplus and MEDLINE

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Intrinsically Healable Fabrics

By: Hsu, Hsun-Hao; Lo, Tse-Yu; Tseng, Yu-Hsuan; Lee, Lin-Ruei; Chen, Si-Rou; Chang, Kai-Jie; Kao, Tzu-Hsun; Lin, Zong-Hong; Chou, Ho-Hsiu; Chen, Jiun-Tai

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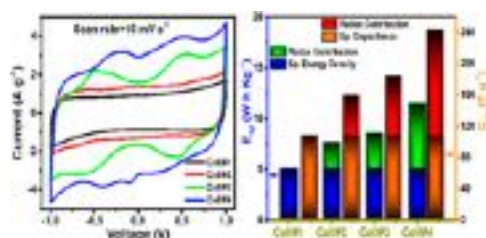
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Enhancement of Specific Capacitance in Carbon Supercapacitors Using Dual Redox Additive-Based Gel Polymer Electrolytes

By: Patla, Subir Kumar; Pal, Pulak; Ghosh, Aswini 

ACS Applied Energy Materials (2023), 6(17), 8989-9000 | Language: English, Database: CPlus



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By: Baca, Kalin R. ; Harders, Abby N. ; Starvaggi, Nicholas ; Yancey, Andrew D. ; Wang, Yifei ; Pentzer, Emily ; Shiflett, Mark B. 

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Structure and dynamics of ILs-based gel polymer electrolytes and its enhanced conductive properties with the incorporation of Al₂O₃ nanofibers

By: Garaga, Mounesha N. ; Bhattacharyya, Sahana; Paterno, Domenec; Suarez, Sophia; Greenbaum, Steven
Electrochimica Acta (2023), 462, 142765 | Language: English, Database: CAplus

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A novel gel polymer electrolyte with multi-functional additive for superior ionic conductivity, stability against Li, and redox activity of lithium-air batteries

By: Yoon, Yeowon; Shin, Moo Whan
Electrochimica Acta (2023), 462, 142763 | Language: English, Database: CAplus

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Electrically Detachable Ionic Conductive Epoxy Adhesives with High Bonding Strength

By: Wei, Yong ; Wu, Min; Sun, Shijie; Liu, Jin; Yue, Qilin; Chen, Yuquan
ACS Applied Polymer Materials (2023), 5(9), 7328-7339 | Language: English, Database: CAplus

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Influence of particle size on electrorheological effect of poly(ionic liquid) microsphere suspensions

By: Yuan, Jinhua; Wang, Yudong; Lei, Qi; Zhao, Xiaopeng; Yin, Jianbo 
Colloids and Surfaces, A: Physicochemical and Engineering Aspects (2023), 672, 131745 | Language: English, Database: CAplus

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Solubility and diffusivity of CO₂ and C₂H₄ in the ionic liquids 1-alkyl-2,3-dimethylimidazolium bis(trifluoromethanesulfonyl)imide by tube-in-tube reactor method

By: Ai, Ning; Huang, Xiaoting; Zhou, Caijin; Lou, Fengyan; Wang, Qining; Zhang, Jisong; Ren, Jie 

Journal of Molecular Liquids (2023), 385, 122257 | Language: English, Database: CAplus

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Separation of CO₂/N₂ mixtures by new IL/Acrylic polymer microcapsules designed by a one-step suspension-based polymerization encapsulation process

By: Duczinski, Rafael ; Polesso, Barbara B. ; Duarte, Evandro ; Bernard, Franciele L.; Chaban, Vitaly V.; Einloft, Sandra 

Journal of Molecular Liquids (2023), 385, 122394 | Language: English, Database: CAplus

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Exploring structural and dynamical properties of polymer-ionic liquid ternary electrolytes for sodium ion batteries

By: Mota, Joao V. L.; Albuquerque, Marcelo; Brandell, Daniel; Costa, Luciano T.

Electrochimica Acta (2023), 461, 142635 | Language: English, Database: CAplus

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The interaction between imidazole-based ionic liquids and the mustard gas simulant CEES and its influence on its solubility

By: Li, Daxue; Wu, Weihui; Zhang, Hongpeng; Cheng, Cheng; Zhuang, Bo; Zhang, Bo; Wu, Hongyi; Xiao, Yanhua

Journal of Molecular Liquids (2023), 385, 122407 | Language: English, Database: CAplus

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A deep insight into the structure-solubility relationship and molecular interaction mechanism of diverse flavonoids in molecular solvents, ionic liquids, and molecular solvent/ionic liquid mixtures

By: Dong, Xinyan; Li, Xueqing; Ruan, Xiru; Kong, Liyun; Wang, Ningfeng; Gao, Wenyi; Wang, Ruichi; Sun, Yangyang; Jin, Micong

Journal of Molecular Liquids (2023), 385, 122359 | Language: English, Database: CAplus

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65

Exploring ionic liquids for formaldehyde separation via computational COSMO-RS screening

By: Khan, Huma Warsi; Elgharbawy, Amal AM; Shah, Mansoor UI Hasan; Negash, Berihun Mamo; Khan, Mohd Kaif; Khan, Kashif; Kamyab, Hesam ; Yusuf, Mohammad 

Chemical Engineering Research and Design (2023), 196, 588-598 | Language: English, Database: CAplus

 Substances (243) Reactions (0) Citing (0)

66

Dual-Supporter and Dual-Salt Strategy for Solid Polymer Electrolyte with High ionic Conductivity and Elastic Toughness

By: Lee, Hyo Chan; Kim, Min-Jae; Kim, Myeong-Hyeon; Yoon, Tae Woong; Kim, Myeong-Eun; Lee, Hwa Sung; Ham, Dong Seok; Lee, Dongki; Ha, Chaeyeon; Kim, Young-Jun; et al

Advanced Electronic Materials (2023), 9(8), 2300094 | Language: English, Database: CAplus

 Substances (3) Reactions (0) Citing (0)

67

Synthesis of poly(vinyl acetate)-based gel polymer electrolyte for application in electric double layer capacitors

By: Yap, Austin Yuhang; Phang, Sook Wai; Liew, Chiam-Wen

Ionics (2023), 29(8), 3317-3334 | Language: English, Database: CAplus

 Substances (5) Reaction (1) Citing (0)

68

Role of imidazolium cations on the interfacial structure of room-temperature ionic liquids in contact with Pt(111) electrodes

By: Ratschmeier, Bjorn ; Braunschweig, Bjorn 

Electrochemical Science Advances (2023), 3(4), e2100173 | Language: English, Database: CAplus

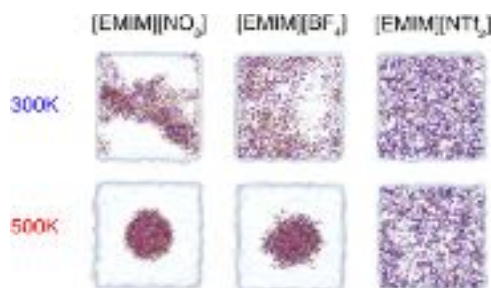
 Substances (4) Reactions (0) Citing (2)

69

Phase Separation and Ion Diffusion in **Ionic Liquid**, Organic Solvent, and Lithium Salt Electrolyte Mixtures

By: Gholivand, Hamed; Salehi-Khojin, Amin ; Khalili-Araghi, Fatemeh 

Journal of Physical Chemistry B (2023), 127(34), 7531-7541 | Language: English, Database: CAplus and MEDLINE



 Substances (17)

 Reactions (0)

 Citing (0)

70

Adsorption of ionomer and **ionic liquid** on model Pt catalysts for polymer electrolyte fuel cells

By: Kodama, Kensaku ; Motobayashi, Kenta 

Electrochemical Science Advances (2023), 3(4), e2100183 | Language: English, Database: CAplus

 Substances (3)

 Reactions (0)

 Citing (3)

71

High-Temperature Measurements on Viscosity and Surface Tension of the **Ionic Liquid** 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide ([EMIM][NTf₂]) up to 473 K

By: Zhai, Ziwen; Koller, Thomas M. 

International Journal of Thermophysics (2023), 44(8), 118 | Language: English, Database: CAplus

 Substance (1)

 Reactions (0)

 Citing (0)

72

Electric double layer transistor

By: Wakabayashi, Yuki; Krockenberger, Yoshiharu; Taniyasu, Yoshitaka; Yamamoto, Hideki; Kaneda, Shingo; Oya, Shinobu; Tanaka, Masaaki

Japan, JP2023121376 A 2023-08-31 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (3)

 Reactions (0)

 Citing (0)

73

Development of flame-retardant ion-gel electrolytes for safe and flexible supercapacitors

By: Wang, Zhe; Wang, Lin; Jiang, Wanyuan; Jian, Xigao; Hu, Fangyuan

Science China Materials (2023), 66(8), 3129-3138 | Language: English, Database: CAplus

 Substances (2)

 Reactions (0)

 Citing (0)

74

An efficient and stable magnetic nano-biocatalyst for biodiesel synthesis in recyclable ionic liquids

By: Xing, Xiu; Zhou, Zi-Wen; Wei, Yun-Jie; Liu, Yan-Hong; Li, Kun; Yu, Xiao-Qi; Wang, Na

Biomass Conversion and Biorefinery (2023), 13(13), 11947-11957 | Language: English, Database: CAplus

 Substances (12)

 Reactions (0)

 Citing (1)

75

Battery having positive and negative electrodes

By: Sako, Honami; Nakama, Yoshimasa; Sagara, Akihiko

World Intellectual Property Organization, WO2023162834 A1 2023-08-31 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (26)

 Reactions (0)

 Citing (0)

76

Investigations on the lithium-ion and sodium-ion insertion behavior of amorphous sodium iron carbonophosphate using N-propyl-N-methylpyrrolidinium bis(fluorosulfonyl)imide based ionic liquid electrolyte

By: Mitra, Arijit; Patra, Jagabandhu; Chang, Jeng-Kuei ; Majumder, Subhasish B. ; Das, Siddhartha

Journal of Power Sources (2023), 576, 233205 | Language: English, Database: CAplus

 Substances (2)

 Reactions (0)

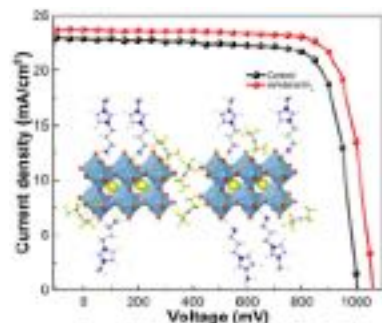
 Citing (0)

77

Effective defect passivation via molecular interactions based on amine-functionalized ionic liquid for perovskite solar cells

By: Chen, Zhaoyang; Wang, Liang ; Fang, Junhui; Saeed, Aamir; Wang, Kangjun; Miao, Qingqing 

ACS Applied Energy Materials (2023), 6(16), 8489-8494 | Language: English, Database: CAPlus



 Substances (12)

 Reactions (0)

 Citing (0)

78

Preparation method of UV optical adhesive for display devices, chip photoetching, nanoimprint molding, photonics and biomedicine

By: Zhou, Yuming; Liu, Tianci; Bu, Xiaohai; He, Man; Wu, Xinglei

China, CN116656301 A 2023-08-29 | Language: Chinese, Database: CAPlus

PatentPak available

 Substances (27)

 Reactions (0)

 Citing (0)

79

Magnesium battery electrolyte and preparation method, and magnesium battery

By: Zhang, Yuegang; Fan, Haiyan; Xiao, Jianhua; Zhang, Xinxin; Lin, Qiyuan

World Intellectual Property Organization, WO2023155553 A1 2023-08-24 | Language: Chinese, Database: CAPlus

PatentPak available

 Substances (34)

 Reactions (0)

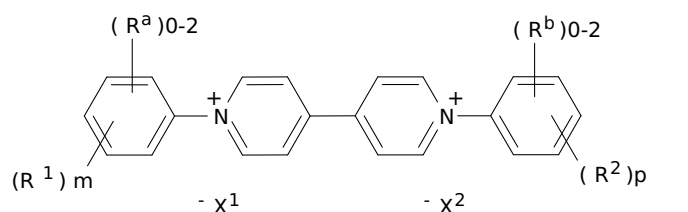
 Citing (0)

80

Dicationic ionic liquid electrolytes with high ionic conductivity

By: Bhowmik, Pradip; Han, Haesook; Chen, Si Lok

World Intellectual Property Organization, WO2023158782 A1 2023-08-24 | Language: English, Database: CAPLUS



PatentPak available

Substances (21)

Reactions (0)

Citing (0)

81

Zwitterionic Polymer Gel-Based Fully Self-Healable ionic Thermoelectric Generators with Pressure-Activated Electrodes

By: Ho, Dong Hae ; Kim, Yong Min; Kim, Ui Jin; Yu, Kyeong Su; Kwon, Jin Han; Moon, Hong Chul ; Cho, Jeong Ho

Advanced Energy Materials (2023), 13(32), 2301133 | Language: English, Database: CAPLUS

Substances (17)

Reactions (2)

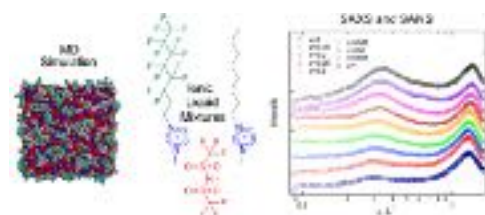
Citing (0)

82

Understanding the Liquid Structure in Mixtures of ionic Liquids with Semiperfluoroalkyl or Alkyl Chains

By: Elstone, Naomi S.; Shimizu, Karina ; Shaw, Emily V.; Lane, Paul D. ; DAndrea, Lucia; Deme, Bruno; Mahmoudi, Najet; Rogers, Sarah E.; Youngs, Sarah ; Costen, Matthew L. ; et al

Journal of Physical Chemistry B (2023), 127(33), 7394-7407 | Language: English, Database: CAPLUS and MEDLINE



Substances (7)

Reactions (0)

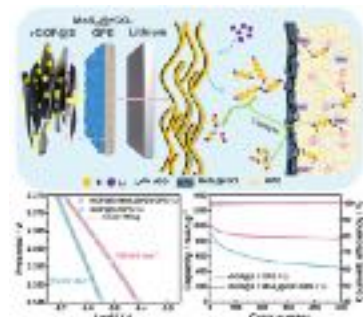
Citing (0)

83

A Heterostructured Gel Polymer Electrolyte Modified by MoS₂ for High-Performance Lithium-Sulfur Batteries

By: Chi, Ziyun; Ding, Jianlong; Ding, Chao; Cui, Bowen; Wang, Wenqiang; Wang, Gengchao 

ACS Applied Materials & Interfaces (2023), 15(33), 39342-39350 | Language: English, Database: CAPLUS and MEDLINE



 Substances (18)

 Reactions (0)

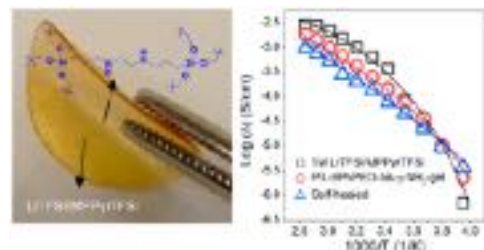
 Citing (0)

84

Catalyst-Free, Mechanically Robust, and Ion-Conductive Vitrimers for Self-Healing Ionogel Electrolytes

By: Zhou, Xiaozhuang; Li, Chenming; Bhandary, Rajesh; Katcharava, Zviadi; Du, Fanfan ; Androsch, Rene ; Marinow, Anja ; Binder, Wolfgang H. 

ACS Applied Engineering Materials (2023), 1(8), 1997-2003 | Language: English, Database: CAPLUS



 Substances (3)

 Reactions (0)

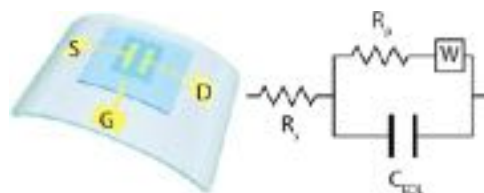
 Citing (0)

85

Mechanistic Insights into Synaptic Plasticity Behaviors of Electrolyte-Gated Flexible Transistor Devices

By: Gao, Xiangxiang; Zhu, Jian ; Yin, Jun 

ACS Applied Materials & Interfaces (2023), 15(33), 39530-39538 | Language: English, Database: CAPLUS and MEDLINE



 Substances (7)

 Reactions (0)

 Citing (0)

86

A composition and a composite material

By: Zheng, Yuanhuan; Tan, Ming Yan; Fam, Derrick

World Intellectual Property Organization, WO2023158381 A2 2023-08-24 | Language: English, Database: CPlus

PatentPak available

Substances (19)

Reactions (0)

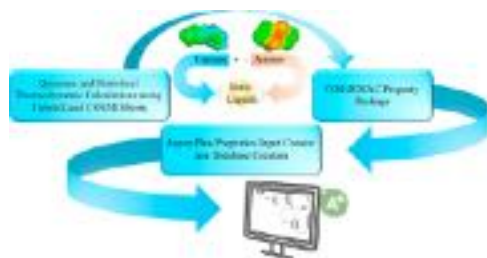
Citing (0)

87

Desulfurization of Diesel Using **Ionic Liquids**: Process Design and Optimization Using COSMO-Based Models and Aspen Plus

By: Ben Salah, Haifa; Nancarrow, Paul ; Al Othman, Amani

ACS Omega (2023), 8(33), 30001-30023 | Language: English, Database: CPlus and MEDLINE



Substances (43)

Reactions (0)

Citing (0)

88

Preparation method of light powder two-dimensional transition metal carbide MXenes and its application in electrochemical energy storage, electromagnetic interference shielding, pollutant adsorption and anti-static field

By: Li, Chun; Chen, Hongwu

China, CN116621172 A 2023-08-22 | Language: Chinese, Database: CPlus

PatentPak available

Substances (20)

Reactions (0)

Citing (0)

89

Method for preparing conductive adhesive using polyurethane modified epoxy resin for lithium-ion battery

By: Jiang, Yuhui; Liu, Cheng; Chen, Yin

China, CN116622308 A 2023-08-22 | Language: Chinese, Database: CPlus

PatentPak available

Substances (20)

Reactions (0)

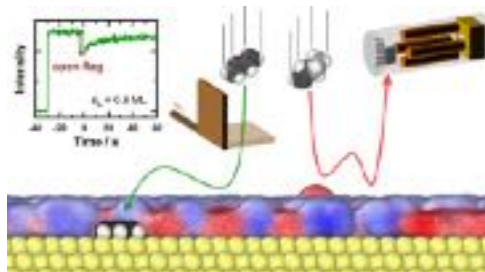
Citing (0)

90

Tailoring the Selectivity of 1,3-Butadiene versus 1-Butene Adsorption on Pt(111) by Ultrathin **Ionic Liquid** Films

By: Winter, Leonhard; Trzeciak, Simon; Fernandez, Cynthia C.; Massicot, Stephen ; Talwar, Timo; Maier, Florian ; Zahn, Dirk; Steinrueck, Hans-Peter

ACS Catalysis (2023), 13(16), 10866-10877 | Language: English, Database: CAplus



 Substances (5)

 Reactions (0)

 Citing (0)

91

On the symmetrical and unsymmetrical reference state for **ionic liquids** modeling: Electrolytes versus neutral compounds

By: Marques, Hugo ; Shimizu, Karina ; Marrucho, Isabel M.

Journal of Molecular Liquids (2023), 384, 122179 | Language: English, Database: CAplus

 Substances (14)

 Reactions (0)

 Citing (0)

92

Functionalized **ionic liquid** for solvating heavy aromatic compounds

By: Elomari, Saleh Ali; Luo, Huping; Singa, Timi Pravin

World Intellectual Property Organization, WO2023152607 A1 2023-08-17 | Language: English, Database: CAplus

PatentPak available

 Substances (14)

 Reactions (0)

 Citing (0)

93

Sodium-ion battery containing a high-capacity graphitic anode and manufacturing method

By: Jang, Bor Z.

United States, US20230261190 A1 2023-08-17 | Language: English, Database: CAplus



PatentPak available

Substances (120)

Reactions (0)

Citing (0)

94

Sodium-ion battery containing a high-capacity graphitic anode and manufacturing method

By: Jang, Bor Z.

World Intellectual Property Organization, WO2023154957 A1 2023-08-17 | Language: English, Database: CAplus

PatentPak available

Substances (120)

Reactions (0)

Citing (0)

95

Electrolyte for rechargeable magnesium battery, preparation method for electrolyte, and rechargeable magnesium battery

By: Zhang, Yuegang; Xiao, Jianhua; Fan, Haiyan; Zhang, Xinxin; Lin, Qiyuan

World Intellectual Property Organization, WO2023151362 A1 2023-08-17 | Language: Chinese, Database: CAplus

PatentPak available

Substances (30)

Reactions (0)

Citing (0)

96

Electrochemical cell comprising a metal sulfide and a polysulfide electrolyte

By: Amigues, Adrien Marie

United Kingdom, GB2615511 A 2023-08-16 | Language: English, Database: CAplus

PatentPak available

Substances (90)

Reactions (0)

Citing (0)

97

Chiral Pyrrolidinium **Ionic Liquids** with (-)-Borneol Fragment in the Cation - Synthesis, Physicochemical Properties and Application in Diels-Alder Reaction

By: Gano, Marcin ; Janus, Ewa ; Schilf, Wojciech

ChemPhysChem (2023), 24(16), e202300251 | Language: English, Database: CAPlus and MEDLINE

 Substances (31)

 Reactions (30)

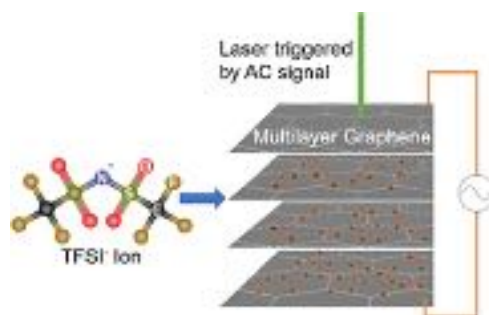
 Citing (0)

98

Dynamic Study of Intercalation/Deintercalation of **Ionic Liquids** in Multilayer Graphene Using an Alternating Current Raman Spectroscopy Technique

By: Cai, Zhi ; Weinstein, Haley; Aravind, Indu; Li, Ruoxi ; Weng, Sizhe; Zhang, Boxin; Habif, Jonathan L.; Cronin, Stephen B. 

Journal of Physical Chemistry Letters (2023), 14(32), 7223-7228 | Language: English, Database: CAPlus and MEDLINE



 Substances (6)

 Reactions (0)

 Citing (0)

99

UiO-66(Zr)-based porous **ionic liquids** for highly efficient extraction coupled catalytic oxidative desulfurization

By: Yin, Jie; Fu, Wendi; Zhang, Jinrui; Liu, Xinyu; Zhang, Xinmiao; Wang, Chao; He, Jing; Jiang, Wei; Li, Hongping ; Li, Huaming

Chemical Engineering Journal (Amsterdam, Netherlands) (2023), 470, 144290 | Language: English, Database: CAPlus

 Substances (7)

 Reactions (0)

 Citing (0)

100

"Tai Chi" philosophy driven dual-network ionogel membrane comprised of **ionic** guests in a multifunctional host for propylene/propane separation

By: Alaei Shahmirzadi, Mohammad Amin; Kargari, Ali ; Matsuura, Takeshi

Journal of Molecular Liquids (2023), 384, 122216 | Language: English, Database: CAPlus

 Substances (7)

 Reactions (0)

 Citing (0)

101

Electrically peelable pressure-sensitive adhesive composition, electrically peelable pressure-sensitive adhesive product, and use of same

By: Aoki, Takahiro; Tomoda, Takashi

World Intellectual Property Organization, WO2023152911 A1 2023-08-17 | Language: Japanese, Database: CPlus

PatentPak available

Substances (15)

Reactions (0)

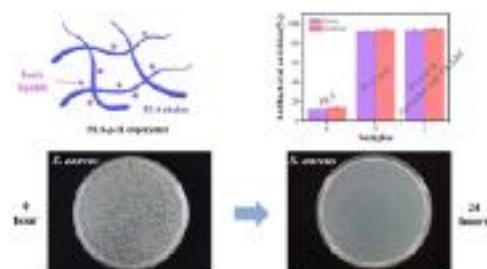
Citing (0)

102

Engineered and durable antimicrobial polymer via controllable immobilization of ionic liquids onto the poly(lactic acid) chains

By: Wu, Qingsong; Luo, Wentao; Du, Yanqiu; Yang, Yaru; Xiao, Yunchao; Cheng, Na ; Tang, Bolin ; Li, Haidong; Wang, Lei; Wang, Deshen; et al

Biomacromolecules (2023), 24(8), 3522-3531 | Language: English, Database: CPlus and MEDLINE



Substances (5)

Reactions (0)

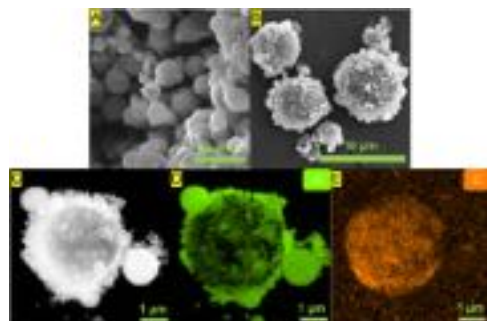
Citing (0)

103

Hollow Poly(ionic liquid)/ α - Al_2O_3 Composite Particles Prepared by Microwave-Assisted Pickering Emulsion Polymerization and Their Electrorheological Polishing Property

By: Sun, Han; Hu, Xufeng; Zhao, Xiaopeng ; Ngai, To ; Yin, Jianbo 

ACS Applied Polymer Materials (2023), 5(8), 6412-6420 | Language: English, Database: CPlus



Substances (9)

Reactions (0)

Citing (0)

104

Preparation method of pressure-sensitive adhesive coating agent that can be stripped on demand when electrified

By: Wei, Yong; Yue, Qilin; Gan, Siyu; Chen, Yuquan; Liu, Jin; Wu, Min; Sun, Shijie
China, CN116574453 A 2023-08-11 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (70)

 Reactions (7)

 Citing (0)

105

Ionic liquid-metal organic framework (IL-MOF) composite material, preparation method and application thereof in electrospun fiber membrane for air purification

By: Li, Guangqin; Xian, Jiahui
China, CN116571102 A 2023-08-11 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (8)

 Reactions (0)

 Citing (0)

106

Intrinsic flexible light detector materials based on polymer particles and methods for making the same and applications

By: Chen, Aihua; Han, Jianing
China, CN116575239 A 2023-08-11 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (12)

 Reactions (0)

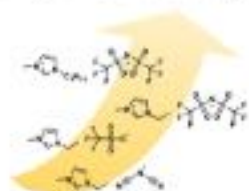
 Citing (0)

107

Solubility of Nitrogen in **Ionic Liquids** at 295-353 K and Pressures to 140 bar

By: Bentley, Caitlin L.  ; Song, Tangqiumei; Morales-Collazo, Oscar; Brennecke, Joan F. 
Journal of Chemical & Engineering Data (2023), 68(8), 2003-2013 | Language: English, Database: CAplus

Increasing size, increasing N₂ solubility



 Substances (23)

 Reactions (16)

 Citing (0)

108

Dissolution purification and recovery for polymer recycling

By: Allen, Robert David; Rorrer, Nicholas A.; Beckham, Gregg Tyler; Knauer, Katrina Marie; Lee, Minjung
United States, US20230250251 A1 2023-08-10 | Language: English, Database: CAplus

PatentPak available

Substances (65)

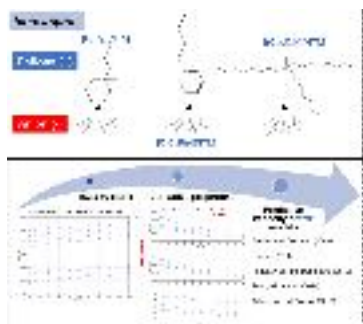
Reactions (0)

Citing (0)

109

Density of Three Bis(trifluoromethylsulfonyl) Imide Anion-Based **Ionic Liquids**. High-Pressure Measurement and Estimation Using Group Contribution Methods

By: de Medeiros, Lucas H. G.; Medeiros, Hugo A. D.; Alves, Alanderson A. A.; Feitosa, Filipe X. ; Silva, Lorena M. A. ; Daridon, Jean-Luc ; de Sant'Ana, Hosiberto B.
Journal of Chemical & Engineering Data (2023), 68(8), 1881-1891 | Language: English, Database: CAplus



Substances (3)

Reactions (0)

Citing (0)

110

Functionalized **ionic liquid** for solvating heavy aromatic compounds

By: Elomari, Saleh Ali; Luo, Huping; Singa, Timi Pravin
United States, US20230250061 A1 2023-08-10 | Language: English, Database: CAplus



PatentPak available

Substances (14)

Reactions (0)

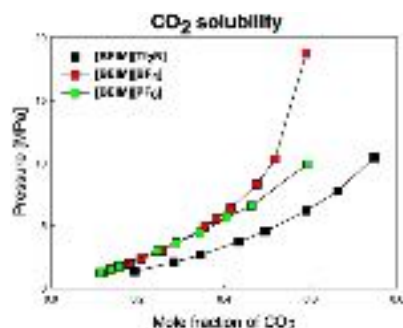
Citing (0)

111

CO₂-Capturing Capacity of [BEIM]-Cation-Based **Ionic Liquids** ([BEIM][Tf₂N], [BEIM][BF₄], and [BEIM][PF₆])

By: Yim, Joon-Hyuk; Seo, Won-Wook; Oh, Jai June; Lim, Jong Sung 

Journal of Chemical & Engineering Data (2023), 68(8), 1953-1962 | Language: English, Database: CAPLUS



 Substances (4)

 Reactions (0)

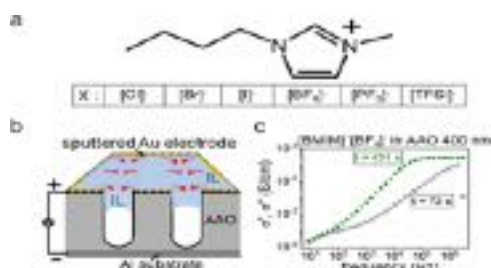
 Citing (0)

112

Conductivity of **Ionic Liquids** In the Bulk and during Infiltration in Nanopores

By: Dong, Yun; Steinhart, Martin ; Butt, Hans-Juergen ; Floudas, George 

Journal of Physical Chemistry B (2023), 127(31), 6958-6968 | Language: English, Database: CAPLUS and MEDLINE



 Substances (12)

 Reactions (0)

 Citing (0)

113

Elastomer-protected anode and lithium battery

By: Jang, Bor Z.

World Intellectual Property Organization, WO2023150691 A1 2023-08-10 | Language: English, Database: CAPLUS

PatentPak available

 Substances (194)

 Reactions (0)

 Citing (0)

114

Design and Performance of Di- and Tricationic Poly(ionic liquid) + Ionic Liquid Composite Membranes for CO₂ Separation

By: Ravula, Sudhir ; Wise, Kevin W. ; Shinde, Pravin S. ; Bara, Jason E. 

Macromolecules (Washington, DC, United States) (2023), 56(15), 6126-6141 | Language: English, Database: CAPlus



 Substances (51)

 Reactions (74)

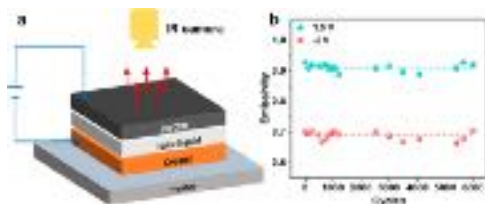
 Citing (0)

115

Long-Term Stable Thermal Emission Modulator Based on Single-Walled Carbon Nanotubes

By: Ji, Dezhuang; Li, Xuan; Rezeq, Moh'd ; Cantwell, Wesley; Zheng, Lianxi 

ACS Applied Materials & Interfaces (2023), 15(31), 37818-37827 | Language: English, Database: CAPlus and MEDLINE



 Substances (4)

 Reactions (0)

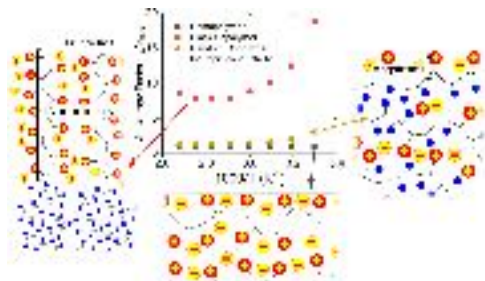
 Citing (0)

116

Interfacial Effects in Conductivity Measurements of Block Copolymer Electrolytes

By: Coote, Jonathan P.; Adotey, Samuel K. J. ; Sangoro, Joshua R. ; Stein, Gila E. 

ACS Polymers Au (2023), 3(4), 331-343 | Language: English, Database: CAPlus and MEDLINE



 Substances (14)

 Reactions (12)

 Citing (0)

117

Micro-Cup Architecture for Printing and Coating Asymmetric 2d-Material-Based Solid-State Supercapacitors

By: Zhang, Chuanfang ; Schneider, Rene ; Jafarpour, Mohammad ; Nueesch, Frank; Abdolhosseinzadeh, Sina ; Heier, Jakob 
Small (2023), 19(32), 2300357 | Language: English, Database: CAPlus and MEDLINE

 Substances (9)

 Reactions (0)

 Citing (0)

118

Preparation method of lignin-based ionic gel for lithium battery electrolyte

By: Chen, Jiajia; Zhang, Yeqiang
China, CN116554508 A 2023-08-08 | Language: Chinese, Database: CAPlus

PatentPak available

 Substances (17)

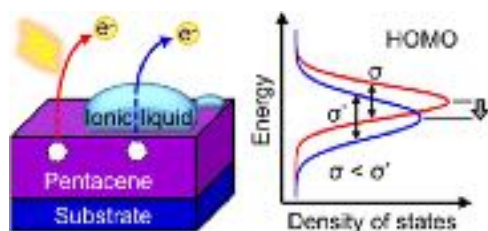
 Reactions (0)

 Citing (0)

119

Electronic States of Pentacene Thin Films at Interfaces with Ionic-Liquid Layers Probed by Photoelectron Yield Spectroscopy

By: Eguchi, Keitaro ; Murata, Hideyuki 
Journal of Physical Chemistry C (2023), 127(30), 14940-14948 | Language: English, Database: CAPlus


 Substances (2)

 Reactions (0)

 Citing (0)

120

Preparation method of ionic liquid-functionalized polydopamine nanoparticle as lubricating oil additive

By: Mou, Zihao; Peng, Jie; Yan, Ruixin; Xiao, Dan
China, CN116535643 A 2023-08-04 | Language: Chinese, Database: CAPlus

PatentPak available

 Substances (8)

 Reaction (1)

 Citing (0)

121

Cylindrical droplet of aqueous ionic liquids on smooth and pillared graphite surface: A molecular dynamics study

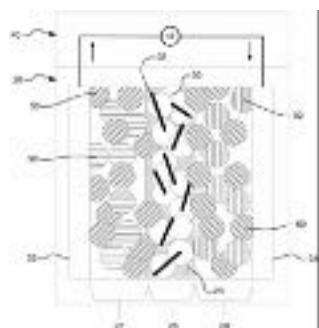
By: Chakraborty, Devargya; Bhattacharjee, Sanchari; Khan, Sandip
Chemical Engineering Science (2023), 277, 118812 | Language: English, Database: CAplus

[Substances \(4\)](#)[Reactions \(0\)](#)[Citing \(0\)](#)

122

Thin solid state electrolyte with high ionic conductivity for lithium ion batteries

By: Li, Zhi; Lu, Yong; Wu, Meiyuan; Liu, Haijing
Germany, DE102022118609 A1 2023-08-03 | Language: German, Database: CAplus

[PatentPak](#) available[Substances \(51\)](#)[Reactions \(0\)](#)[Citing \(0\)](#)

123

Predicting viscosity of ionic liquids - water mixtures by bridging UNIFAC modeling with interpretable machine learning

By: Huang, Min; Deng, Jiandong ; Jia, Guozhu
Journal of Molecular Liquids (2023), 383, 122095 | Language: English, Database: CAplus

[Substances \(40\)](#)[Reactions \(0\)](#)[Citing \(0\)](#)

124

Effects of hydrogen-bonding functional groups of ammonium based-ionic liquids with Tf₂N anion on the upper critical solution temperature in aqueous solutions

By: Matsuoka, Atsushi; Motoyama, Airi; Kamio, Eiji; Yoshioka, Tomohisa; Nakagawa, Keizo; Matsuyama, Hideto
Journal of Molecular Liquids (2023), 383, 122145 | Language: English, Database: CAplus

[Substances \(21\)](#)[Reactions \(0\)](#)[Citing \(0\)](#)

125

Highly Processable Ionogels with Mechanical Robustness

By: Ma, Chuao; Wei, Jun; Zhang, Yuqiang; Chen, Xingchao; Liu, Chan; Diao, Shen; Gao, Yuan; Matyjaszewski, Krzysztof ; Liu, Hongliang 

Advanced Functional Materials (2023), 33(31), 2211771 | Language: English, Database: CAplus

 Substances (19) Reactions (4) Citing (0)

126

Selective extraction of polyhydroxy compounds using hydrophobic ionic liquids

By: Yang, Jiming; Luo, Kai; Lu, Xingmei; He, Wei; Zhao, Shuangfei; Fang, Zheng; Feng, Yirong; Zhu, Ning; Guo, Kai
Separation and Purification Technology (2023), 318, 123973 | Language: English, Database: CAplus

 Substances (9) Reactions (0) Citing (1)

127

Influence of imidazolium based ionic liquids with different anions on liquid-liquid phase behavior for separation of azeotropic mixture isopropyl alcohol + diisopropyl ether

By: Cao, Le; Zhang, Tao; Xu, Dongmei; Zhang, Lianzheng; Ma, Yixin; Gao, Jun ; Wang, Yinglong
Journal of Molecular Liquids (2023), 383, 122131 | Language: English, Database: CAplus

 Substances (11) Reactions (7) Citing (0)

128

Potential applications of flexible self-healing polyionic liquids as electronic skin

By: Wang, ChunLei; Meng, He; Wang, YanDong; Ye, WenYan; Wang, CaiQi
Journal of Molecular Liquids (2023), 383, 121981 | Language: English, Database: CAplus

 Substances (4) Reactions (0) Citing (0)

129

Novel poly(ionic liquid)s reinforced with three-dimensional electrospun fiber network as electrolyte for all solid state lithium batteries

By: Bandyopadhyay, Sumana; Gupta, Amit; Srivastava, Rajiv; Nandan, Bhanu 
Journal of Electroanalytical Chemistry (2023), 942, 117574 | Language: English, Database: CAplus

 Substances (6) Reactions (0) Citing (0)

130

Polymer-Encapsulated **ionic liquids** as lubricant additives in non-polar oils

By: Yan, Jieming ; Mangolini, Filippo 

Journal of Molecular Liquids (2023), 383, 122089 | Language: English, Database: CAplus

 Substances (6) Reactions (2) Citing (0)

131

Power storage device comprising polymer electrolyte

By: Yoshida, Shuhei; Onodera, Hitoshi; Shimonishi, Yuta

Japan, JP2023105569 A 2023-07-31 | Language: Japanese, Database: CAplus

PatentPak available Substances (4) Reactions (0) Citing (0)

132

Insight into the **ionic liquid** tetraphenylphosphine salt on the processability improvement for PEEK

By: He, Huiwen ; Ding, Hanlin; Zeng, Xiaoqiang; Ma, Meng; Shi, Yanqin ; Shi, Haibing; Chen, Si; Wang, Xu

Polymer Engineering & Science (2023), 63(7), 1900-1911 | Language: English, Database: CAplus

 Substance (1) Reactions (0) Citing (0)

133

Influence of crucible material on the thermal stability analysis of **ionic liquid** 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide

By: Chen, Chan-Cheng ; Huang, Yi-Syuan

Journal of Thermal Analysis and Calorimetry (2023), 148(14), 6731-6745 | Language: English, Database: CAplus

 Substances (9) Reactions (0) Citing (0)

134

Functionalization of cotton fabrics by sol-gel method using **ionic liquids** with high-hydrophobic, excellent water repellent, oil/water separation, and self-cleaning properties

By: Bentis, Aziz; Boukhriss, Aicha; Zahouily, Mohamed; Manoun, Bouchaib; Gmouh, Said

Cellulose (Dordrecht, Netherlands) (2023), 30(10), 6719-6740 | Language: English, Database: CAplus

 Substances (19) Reactions (0) Citing (0)

135

Continuous lithium extraction method by synergistically coupled cation exchange membrane/solvent extraction/flow capacitive deionization (FCDI)

By: Wang, Lei; Gong, Feixiang; Wei, Yingmei; Yue, Xilin
China, CN116497232 A 2023-07-28 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (13)

 Reactions (0)

 Citing (0)

136

Method of manufacturing a porous electrode and a microbattery containing the electrode

By: Gaben, Fabien
World Intellectual Property Organization, WO2023139429 A1 2023-07-27 | Language: French, Database: CAplus

PatentPak available

 Substances (94)

 Reactions (0)

 Citing (0)

137

Power storage device comprising polymer electrolyte

By: Yoshida, Shuhei; Onodera, Hitoshi; Shimonishi, Yuta
World Intellectual Property Organization, WO2023140181 A1 2023-07-27 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (4)

 Reactions (0)

 Citing (0)

138

Ionic liquid and sodium lignosulfonate modified polyimide proton exchange composite membrane, and its preparation method and application of fuel cell

By: Wang, Yanming; Wang, Yao; Li, Ping
China, CN116505046 A 2023-07-28 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (11)

 Reactions (0)

 Citing (0)

139

Solid electrolyte for an all-solid-state battery

By: Godillot, Jerome; Navarro, Christophe; Tarris, Christine; Bonnet, Anthony
France, FR3132163 A1 2023-07-28 | Language: French, Database: CAplus

PatentPak available

 Substances (62)

 Reactions (0)

 Citing (0)

140

Solid electrolyte for an all-solid-state battery

By: Godillot, Gerome; Navarro, Christophe; Tarris, Christine; Bonnet, Anthony

World Intellectual Property Organization, WO2023139329 A1 2023-07-27 | Language: French, Database: CAplus

PatentPak available

Substances (63)

Reactions (0)

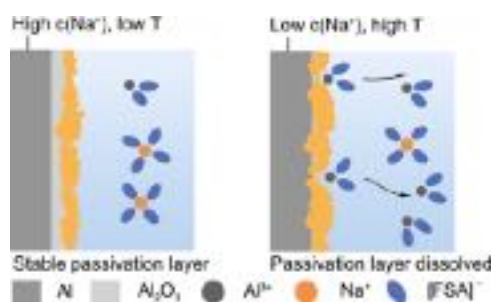
Citing (0)

141

Systematic Study of Aluminum Corrosion in Ionic Liquid Electrolytes for Sodium-Ion Batteries: Impact of Temperature and Concentration

By: Liu, Huazhen ; Hwang, Jinkwang ; Matsumoto, Kazuhiko ; Hagiwara, Rika 

ACS Applied Materials & Interfaces (2023), 15(29), 35062-35071 | Language: English, Database: CAplus and MEDLINE



Substances (9)

Reactions (0)

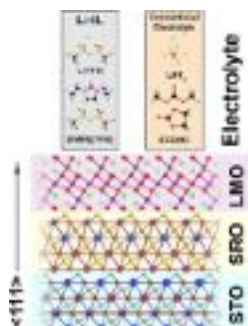
Citing (0)

142

Enhanced LiMn₂O₄ Thin-Film Electrode Stability in Ionic Liquid Electrolyte: A Pathway to Suppress Mn Dissolution

By: Torres-Castaneda, Carlos G. ; Evmenenko, Guennadi ; Luu, Norman S.; Das, Paul Masih; Hyun, Woo Jin; Park, Kyu-Young; Dravid, Vinayak P. ; Hersam, Mark C. ; Bedzyk, Michael J. 

ACS Applied Materials & Interfaces (2023), 15(29), 35664-35673 | Language: English, Database: CAplus and MEDLINE



Substances (10)

Reactions (0)

Citing (0)

143

Enhancement of photovoltaic performance of solvent-free dye-sensitized solar cells with doped poly(3-hexylthiophene)

By: Shin, Seokhun; Kim, Jina; Kwon, Sang-June; Ho Ryu, Keong; Choi, Baekseo; Soo Han, Yoon

Journal of Industrial and Engineering Chemistry (Amsterdam, Netherlands) (2023), 123, 428-435 | Language: English, Database: CPlus

 Substances (10)

 Reactions (0)

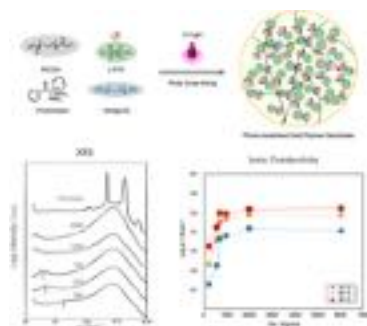
 Citing (0)

144

Effect of the Poly(ethylene glycol) Diacrylate (PEGDA) Molecular Weight on **Ionic** Conductivities in Solvent-Free Photo-Cross-Linked Solid Polymer Electrolytes

By: S Grewal, Manjit; Ishibashi, Kosuke; Hara, Mitsuo ; Ishizaki, Yuya; Nagano, Shusaku; Yabu, Hiroshi 

Langmuir (2023), 39(29), 10209-10215 | Language: English, Database: CPlus and MEDLINE



 Substances (4)

 Reactions (0)

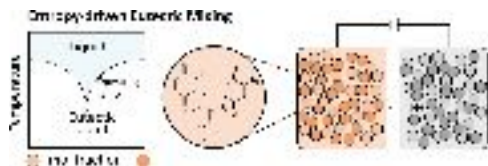
 Citing (0)

145

Exploring Eutectic Mixing of Quinones for Engineering High Energy Density Electrolytes

By: Penn, Emily ; Baclig, Antonio; Ganapathi, Devi ; Chueh, William C. 

Chemistry of Materials (2023), 35(14), 5255-5266 | Language: English, Database: CPlus



 Substances (12)

 Reactions (0)

 Citing (2)

146

Ionic conductive cholesteric **liquid** crystal elastomer, its preparation method and application in photoelectric dual-signal response sensor

By: Wang, Ling; Ma, Jiazhe; Zhang, Xuan; Yang, Yanzhao; Feng, Wei
China, CN116478700 A 2023-07-25 | Language: Chinese, Database: CAplus

PatentPak available Substances (18) Reactions (0) Citing (0)

147

Process for co-valorization by hydrocarbon and CO₂

By: Faucheux, Vincent; Beliaeva, Kristina; Hajiyev, Parviz; Silva Costa, Raphael
France, FR3131923 A1 2023-07-21 | Language: French, Database: CAplus

PatentPak available Substances (32) Reactions (0) Citing (0)

148

Polyurethane foam having good antistatic performance for cushioning material

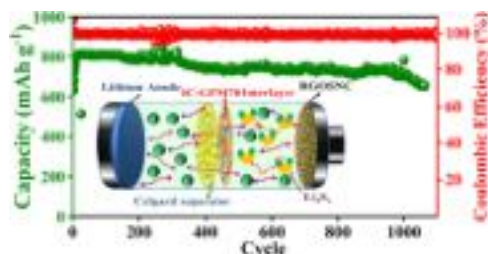
By: Okafuji, Akiyoshi
Japan, JP2023100568 A 2023-07-19 | Language: Japanese, Database: CAplus

PatentPak available Substances (12) Reactions (0) Citing (0)

149

Polysulfide rejection strategy in lithium-sulfur batteries using an ion-conducting gel-polymer interlayer membrane

By: Tiwari, Rupesh K.; Mishra, Raghvendra; Patel, Anupam; Tiwari, Anurag; Meghnani, Dipika; Singh, Rajendra K. 
ACS Applied Materials & Interfaces (2023), 15(28), 33957-33971 | Language: English, Database: CAplus and MEDLINE

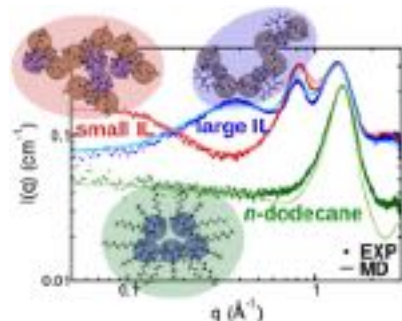
 Substances (7) Reactions (0) Citing (0)

150

Exploring the Aggregation Behavior of Extractant Molecules in **Ionic Liquids**: A Coupled Polarizable Molecular Dynamics and SAXS Study

By: Le Crom, Sebastien ; Dourdain, Sandrine; Pellet-Rostaing, Stephane; Duvail, Magali 

Journal of Physical Chemistry B (2023), 127(28), 6408-6420 | Language: English, Database: CAplus and MEDLINE



 Substances (4)

 Reactions (0)

 Citing (0)

151

Polyurethane foam with excellent antistatic performance and physical property for cushioning material

By: Okafuji, Akiyoshi

Japan, JP2023100504 A 2023-07-19 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (7)

 Reactions (0)

 Citing (0)

152

Ultra-high voltage solid-state Li metal batteries enabled by in-situ construction of cathode electrolyte interphase through synergistic dual-anion decomposition

By: Jiang, Haolong ; Han, Yu; Li, Cong; Sun, Weiwei; Zheng, Jiayi; Zhu, Yuhao; Zheng, Chunman; Li, Yunsong; Lin, Yuxiao; Guo, Qingpeng; et al

Electrochimica Acta (2023), 457, 142439 | Language: English, Database: CAplus

 Substances (7)

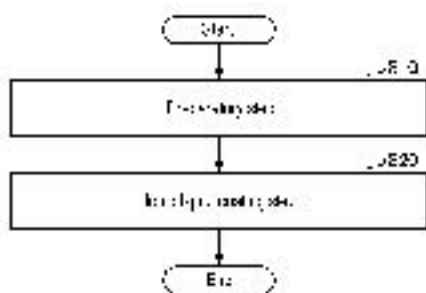
 Reactions (0)

 Citing (0)

153

Method and system processing substrate having metal film

By: Nakano, Takeo; Ueda, Hirokazu; Iwashita, Mitsuaki; Asako, Ryuichi; Umeshita, Naoki
United States, US20230230855 A1 2023-07-20 | Language: English, Database: CAplus



PatentPak available

Substances (11)

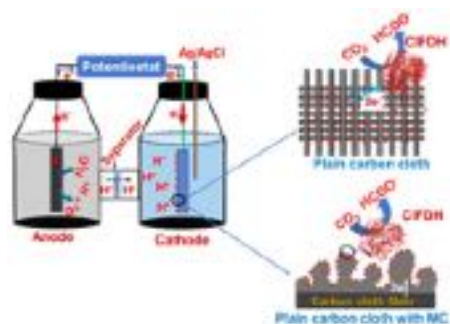
Reactions (0)

Citing (0)

154

Mesoporous carbon electrode-based electroenzyme carbon dioxide (CO₂) reduction system fixed with formate dehydrogenase (FDH)

By: Lee, Jeong Geol; Park, Jeong Tae; Kondaveeti, Sanath; Lestari, Rowina; Patel, Sanjay K. S.
Korea, Republic of, KR2023108803 A 2023-07-19 | Language: Korean, Database: CAplus



PatentPak available

Substances (15)

Reactions (0)

Citing (0)

155

Electrode for lithium-ion battery for electric vehicles

By: Gupta, Surabhi; Mekket, Rajesh; Kumari, Pooja
India, IN202241003635 A 2023-07-21 | Language: English, Database: CAplus

PatentPak available

Substances (17)

Reactions (0)

Citing (0)

156

PLA alloy foamed sheet and preparation method thereof

By: Wang, Qianqian; Liu, Xueting; Li, Baoyin; Qi, Xianrong; Li, Yiyu; Huang, Jian; Zhan, Zuomin
China, CN116462945 A 2023-07-21 | Language: Chinese, Database: CPlus

PatentPak available

 Substances (24) Reactions (3) Citing (0)

157

Ultra-stretched ionic gel for flexible sensor and preparation method thereof

By: Tian, Lei; Huang, Haiyu; Wu, Liuyishun; Zhu, Caizhen; Xu, Jian
China, CN116444739 A 2023-07-18 | Language: Chinese, Database: CPlus

PatentPak available

 Substances (30) Reactions (0) Citing (0)

158

Double Doping of Semiconducting Polymers Using Ion-Exchange with a Dianion

By: Yuan, Dafei ; Plunkett, Evan ; Nguyen, Phong H.; Rawlings, Dakota; Le, My Linh; Kroon, Rene; Mueller, Christian; Segalman, Rachel A. ; Chabinyk, Michael L. 
Advanced Functional Materials (2023), 33(29), 2300934 | Language: English, Database: CPlus

 Substances (10) Reaction (1) Citing (0)

159

Polydopamine-modified polysulfone/silica double-walled heat-resistant microcapsules efficiently improve the tribological properties of polyamides

By: Li, Xin; Li, Haiyan ; Li, Zhike; Shi, Nanqi; Luo, Hongxin; Li, Shuang; Yu, Changqing
Polymer (2023), 281, 126134 | Language: English, Database: CPlus

 Substances (14) Reaction (1) Citing (0)

160

Bionic conductive high-molecular enzyme-based sensing material and preparation method thereof

By: Zhu, Bo; Cheng, Lei
China, CN116444772 A 2023-07-18 | Language: Chinese, Database: CPlus

PatentPak available

 Substances (74) Reactions (18) Citing (0)

161

Molecular **liquids** versus **ionic liquids**: Thermodynamic insights into the interplay between inter-molecular and intra-molecular hydrogen bonding

By: Verevkin, Sergey P. ; Zaitsau, Dzmitry H. ; Zherikova, Kseniya V.
Journal of Molecular Liquids (2023), 382, 121938 | Language: English, Database: CAplus

 Substances (33) Reactions (0) Citing (0)

162

A semitransparent and tough wood-based adhesive gels with excellent adhesion both in air and underwater for emergency pipeline repair

By: Chang, Minmin; Wang, Jianlin; Liu, Xinxin; Lin, Qixuan; Wang, Xiaohui ; Peng, Feng; Ren, Junli 
Chemical Engineering Journal (Amsterdam, Netherlands) (2023), 468, 143601 | Language: English, Database: CAplus

 Substances (6) Reactions (3) Citing (0)

163

Extraction of lithium from magnesium-rich solution using a new **ionic liquid** extraction system

By: Zhou, Wanji; Li, Zheng; Zhang, Chao; Ma, Lei; Bi, Qiuyan; Xu, Shiai
Journal of Molecular Liquids (2023), 382, 121833 | Language: English, Database: CAplus

 Substances (8) Reactions (0) Citing (1)

164

Thermodynamics and molecular insights into anionic structural effects on toluene absorption with **ionic liquids**

By: Li, Zhiyong; Dai, Chengna; Zhu, Jiqin; Lei, Zhigang ; Zhang, Jie; Yu, Gangqiang 
Chemical Engineering Science (2023), 276, 118817 | Language: English, Database: CAplus

 Substances (10) Reactions (0) Citing (1)

165

Study on separation of long carbon chain aromatics/alkanes in diesel systems with DBU-based **ionic liquids**

By: Li, Xinyu; Wu, Xiaojia; Yu, Hui; Geng, Chuanqi; Wei, Haiguo; Zhou, Zhiyong ; Ren, Zhongqi
Chemical Engineering Science (2023), 276, 118741 | Language: English, Database: CAplus

 Substances (13) Reactions (3) Citing (0)

166

Conformation features and interaction of pyrrolidinium-based ionic liquids immobilized with silicon dioxide: Infrared spectroscopy

By: Ramenskaya, L. M.; Kudryakova, N. O.; Grishina, E. P.

Journal of Molecular Liquids (2023), 382, 122025 | Language: English, Database: CAPLUS

Substances (3)

Reactions (0)

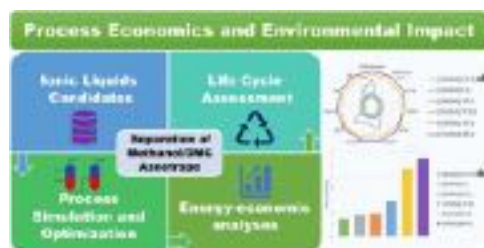
Citing (0)

167

Economic Analysis and Life Cycle Environmental Assessment of Imidazolium-Based Ionic Liquids for Separation of the Methanol/Dimethyl Carbonate Azeotrope

By: Guo, Chao ; Liu, Xiaoyan; Wang, Fuqiang; Cao, Yuqing ; Zheng, Size ; He, Ge

ACS Sustainable Chemistry & Engineering (2023), 11(28), 10482-10495 | Language: English, Database: CAPLUS



Substances (8)

Reactions (0)

Citing (0)

168

Thermal stability and flammability of several quaternary ammonium ionic liquids

By: Wang, Lanyun; Li, Lingshuang; Fan, Qinghui; Chu, Tingxiang; Wang, Yan; Xu, Yongliang

Journal of Molecular Liquids (2023), 382, 121920 | Language: English, Database: CAPLUS

Substances (15)

Reactions (0)

Citing (0)

169

Enhanced L-polylactic acid piezoelectric film for flexible pressure sensors and preparation method thereof

By: Yang, Jian; Zhu, Huiyu; He, Zifeng

China, CN116426102 A 2023-07-14 | Language: Chinese, Database: CAPLUS

PatentPak available

Substances (16)

Reactions (0)

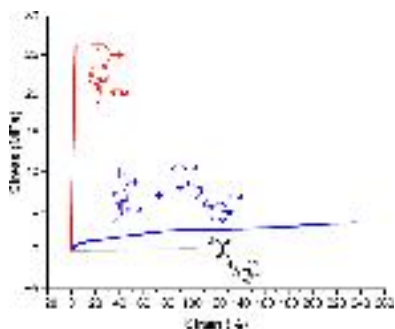
Citing (0)

170

Clay composites by in situ polymerization of ionic liquid-based dispersions

By: Salminen, Linda ; Karjalainen, Erno ; Aseyev, Vladimir O. ; Tenhu, Heikki 

ACS Applied Polymer Materials (2023), 5(7), 5130-5140 | Language: English, Database: CPlus



 Substances (18)

 Reactions (22)

 Citing (0)

171

Microencapsulated Diepoxy-Functionalized Ionic Liquids to the Design of Self-Healable Epoxy Networks

By: Shi, Ting ; Livi, Sebastien ; Duchet-Rumeau, Jannick; Gerard, Jean-Francois 

ACS Applied Polymer Materials (2023), 5(7), 5051-5061 | Language: English, Database: CPlus



 Substances (23)

 Reactions (14)

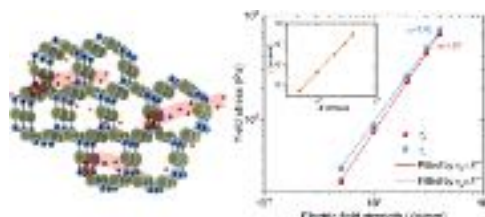
 Citing (0)

172

A Water-Free Ionic Covalent Organic Polymer with High Electrorheological Activity and Temperature Stability

By: Ma, Ruijing; Xue, Bingxiu; Zhao, Xiaopeng ; Yin, Jianbo 

ACS Applied Polymer Materials (2023), 5(7), 5772-5782 | Language: English, Database: CPlus



 Substances (4)

 Reaction (1)

 Citing (0)

173

Method for manufacturing all-solid-state supercapacitor using electrolyte

By: Yoo, Ji Yeong; Choi, Yeong Gyu; Han, Ju Yeon

Korea, Republic of, KR2023107105 A 2023-07-14 | Language: Korean, Database: CPlus



PatentPak available

Substances (5)

Reactions (0)

Citing (0)

174

High conductivity and high-strength PEDOT: PSS fiber and preparation method thereof

By: Wang, Dong; Li, Mufang; Chen, Huijun; Luo, Mengying; Zhong, Weibing; Wang, Wen; Qing, Xing; Lu, Ying

China, CN116427055 A 2023-07-14 | Language: Chinese, Database: CPlus

PatentPak available

Substances (6)

Reactions (0)

Citing (0)

175

Preparation of electrorheological polishing solution containing polyion solution/nano abrasive hollow composite particles

By: Yin, Jianbo; Sun, Han

China, CN116410669 A 2023-07-11 | Language: Chinese, Database: CPlus

PatentPak available

Substances (26)

Reaction (1)

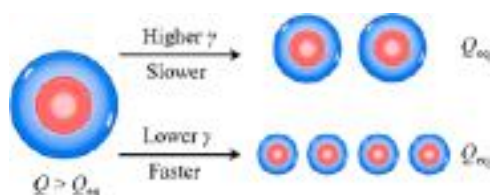
Citing (0)

176

Role of Distance from Equilibrium in the Fragmentation Kinetics of Block Copolymer Micelles

By: Gupta, Supriya ; Liberman, Lucy; Lodge, Timothy P.

Macromolecules (Washington, DC, United States) (2023), 56(13), 4874-4883 | Language: English, Database: CPlus



Substances (9)

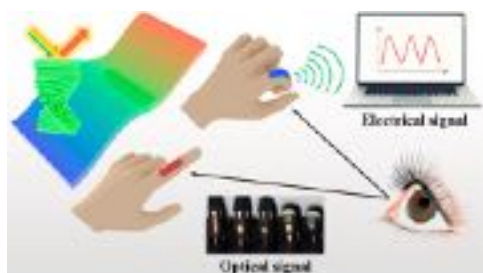
Reactions (0)

Citing (0)

177

Mechanochromic and Conductive Chiral Nematic Nanostructured Film for Bioinspired **Ionic** Skins

By: Li, Xiang ; Yang, Yanzhao; Valenzuela, Cristian; Zhang, Xuan; Xue, Pan; Liu, Yuan; Liu, Changjun ; Wang, Ling 
ACS Nano (2023), 17(13), 12829-12841 | Language: English, Database: CAPlus and MEDLINE


 Substances (7)

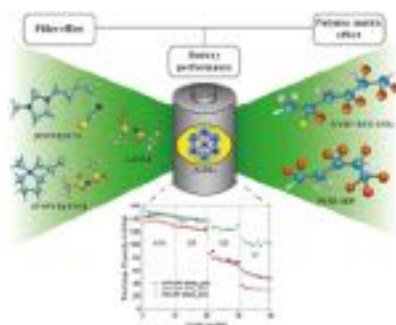
 Reactions (0)

 Citing (0)

178

High Performance Ternary Solid Polymer Electrolytes Based on High Dielectric Poly(vinylidene fluoride) Copolymers for Solid State Lithium-Ion Batteries

By: Barbosa, Joao C. ; Correia, Daniela M. ; Fidalgo-Marijuan, Arkaitz ; Goncalves, Renato; Ferdov, Stanislav ; de Zea Bermudez, Veronica ; Lanceros-Mendez, Senentxu ; Costa, Carlos M. 
ACS Applied Materials & Interfaces (2023), 15(27), 32301-32312 | Language: English, Database: CAPlus and MEDLINE


 Substances (9)

 Reactions (0)

 Citing (0)

179

A Highly Robust Amphibious Soft Robot with Imperceptibility Based on a Water-Stable and Self-Healing **Ionic** Conductor

By: Cheng, Zhe; Feng, Wenwen; Zhang, Yucheng; Sun, Lin; Liu, Yuncong; Chen, Lili; Wang, Chao 
Advanced Materials (Weinheim, Germany) (2023), 35(28), 2301005 | Language: English, Database: CAPlus and MEDLINE

 Substances (8)

 Reactions (2)

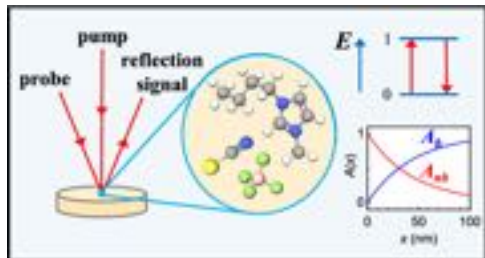
 Citing (0)

180

Long-Range Interface Effects in Room Temperature Ionic Liquids: Vibrational Lifetime Studies of Thin Films

By: Breen, John P.; Leibfried, Laura C.; Xing, Xiangyu; Fayer, Michael D. 

Journal of Physical Chemistry B (2023), 127(27), 6217-6226 | Language: English, Database: CAPLUS and MEDLINE



 Substances (5)

 Reactions (0)

 Citing (0)

181

Poly(diallylmethylammonium) proton conducting membranes with high ionic conductivity at intermediate temperatures

By: Gallastegui, Antonela; Foglia, Fabrizia ; McMillan, Paul F.; Casado, Nerea ; Gueguen, Aurelie ; Mecerreyes, David 

Polymer (2023), 280, 126064 | Language: English, Database: CAPLUS

 Substances (9)

 Reactions (0)

 Citing (0)

182

Crosslinkable group-containing ionic liquid-containing curable compositions and cured products

By: Tamai, Hitoshi; Tanaka, Hidenori

World Intellectual Property Organization, WO2023132214 A1 2023-07-13 | Language: Japanese, Database: CAPLUS

PatentPak available

 Substances (13)

 Reactions (2)

 Citing (0)

183

Thermodynamic characterization of interactions between environmental contaminants and room temperature ionic liquids using static headspace gas chromatography with vacuum ultraviolet detection

By: Varona-Torres, Emmanuel ; Schug, Kevin A. 

Analytica Chimica Acta (2023), 1264, 341236 | Language: English, Database: CAPLUS and MEDLINE

 Substances (15)

 Reactions (0)

 Citing (0)

184

Robust 3D Network binder for Stable and High-Performance Si-Based Lithium-Ion Battery Anodes

By: Zhao, Junkai; Li, Wenhao; Xie, Mingzhu; Yang, Kaimeng; Wei, Daina; Chen, Zhengjian; Zhang, Ce ; Wang, Zhaolong ; Yang, Xiaojing

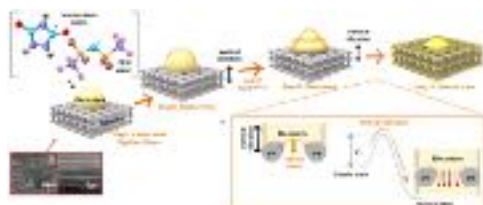
Advanced Materials Technologies (Weinheim, Germany) (2023), 8(13), 2201830 | Language: English, Database: CAplus

 Substances (8) Reactions (0) Citing (0)

185

Method for wetting ionic-liquid electrolyte into polyolefin separator by applying resonance frequency and its lithium-ion secondary battery

By: Sim, U Yeong; Jung, Gi Yeong; Jin, Dan A; Kang, Hyeon Su; Yang, Chung Mo; Park, Yun Cheol
Korea, Republic of, KR2023103373 A 2023-07-07 | Language: Korean, Database: CAplus

**PatentPak** available Substances (5) Reactions (0) Citing (0)

186

Self-healing stretchable ionogel and self-healing stretchable electrochemical device using the same

By: Lee, Geun Hyeong; Cho, Gyeong Guk; Cho, Dae Hyeon; Kim, Min Su
Korea, Republic of, KR2023102076 A 2023-07-07 | Language: Korean, Database: CAplus

**PatentPak** available Substances (40) Reactions (0) Citing (0)

187

Microwave Regeneration and Thermal and Oxidative Stability of Imidazolium Cyanopyrrolide Ionic Liquid for Direct Air Capture of Carbon Dioxide

By: Lee, Yun-Yang ; Cagli, Eda; Klemm, Aidan ; Park, Yensil; Dikki, Ruth; Kidder, Michelle K. ; Gurkan, Burcu 
ChemSusChem (2023), 16(13), e202300118 | Language: English, Database: CAplus and MEDLINE

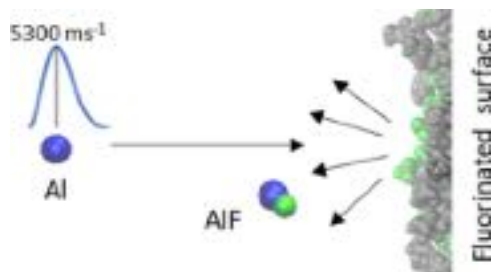
 Substances (13) Reactions (0) Citing (1)

188

Superthermal Al Atoms as a Reactive-Atom Probe of Fluorinated Surfaces

By: Lane, Paul D. ; Gstir, Thomas; Purcell, Simon M.; Swierczewski, Michal; Elstone, Naomi S.; Bruce, Duncan W. ; Slattery, John M. ; Costen, Matthew L. ; McKendrick, Kenneth G. 

Journal of Physical Chemistry A (2023), 127(26), 5580-5590 | Language: English, Database: CAPLUS and MEDLINE

 Substances (5) Reactions (0) Citing (0)

189

Production of thermosetting PAN-based intermediate film for electrochemical device with improved lithium ion conductivity and improved thermal stability

By: Zhu, Guannan; Li, Yang; Xu, Tao; Wang, Yifei

World Intellectual Property Organization, WO2023125462 A1 2023-07-06 | Language: Chinese, Database: CAPLUS

PatentPak available

 Substances (41) Reactions (0) Citing (0)

190

Supported ionic liquids for effective ruthenium olefin metathesis

By: Barteczko, Natalia; Brzeczek-Szafran, Alina; Wolny, Anna; Jurczyk, Sebastian; Jakobik-Kolon, Agata; Chrobok, Anna 

Applied Catalysis, A: General (2023), 661, 119226 | Language: English, Database: CAPLUS

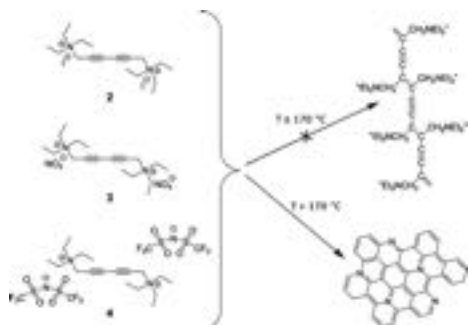
 Substances (19) Reaction (1) Citing (0)

191

Symmetrical Diacetylenes Outfitted with **Ionic Liquid**-like Groups: Structural, Polymerization, and Carbonization Studies

By: Fahsi, Karim; Dumail, Xavier; Viau, Lydie ; van der Lee, Arie ; Masquelez, Nathalie; Granier, Dominique; Vault, Cyril; Dutremez, Sylvain Georges 

Crystal Growth & Design (2023), 23(7), 4728-4747 | Language: English, Database: CAPLUS


 Substances (18)

 Reactions (6)

 Citing (0)

192

Polyion **liquid** based single network ion gel as electrolyte and preparation method thereof

By: Fang, Dawei; Wen, Jingyi; Liu, Na; Wang, Hongyu

China, CN116376205 A 2023-07-04 | Language: Chinese, Database: CAPLUS

PatentPak available

 Substances (17)

 Reactions (4)

 Citing (0)

193

Synergistic **Ionic Liquid** in Hole Transport Layers for Highly Stable and Efficient Perovskite Solar Cells

By: Cao, Fengxian; Zhu, Ziyao; Zhang, Chunhong; Chen, Pengxu; Wang, Shibo; Tong, Anling; He, Ruowei; Wang, Ying; Sun, Weihai; Li, Yunlong ; et al

Small (2023), 19(27), 2207784 | Language: English, Database: CAPLUS and MEDLINE

 Substances (12)

 Reactions (0)

 Citing (0)

194

Preparation of homogeneous extractant for separating aqueous phase platinum ion and extraction method thereof

By: Yang, Yanzhao; Wang, Yangyang

China, CN116375666 A 2023-07-04 | Language: Chinese, Database: CAPLUS

PatentPak available

 Substances (9)

 Reactions (3)

 Citing (0)

195

Sandwich-Structured Quasi-Solid Polymer Electrolyte Enables High-Capacity, Long-Cycling, and Dendrite-Free Lithium Metal Battery at Room Temperature

By: Liu, Qi; Dan, Yongjie; Kong, Miqiu; Niu, Yanhua ; Li, Guangxian

Small (2023), 19(27), 2300118 | Language: English, Database: CAplus and MEDLINE

 Substances (13) Reactions (0) Citing (0)

196

Based on ionic liquid electrolyte of nano aluminum preparing nano method.

By: Wu, Junshi; Xie, Peng; Mi, Yongli; Lv, Dong; Wu, Renzhao; Wen, Xiaodong

China, CN116377522 A 2023-07-04 | Language: Chinese, Database: CAplus

PatentPak available

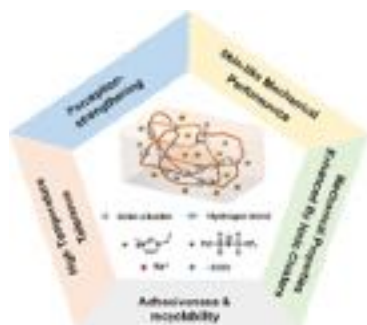
 Substances (15) Reactions (15) Citing (0)

197

Strain-Stiffening Ionogel with High-Temperature Tolerance via the Synergy of Ionic Clusters and Hydrogen Bonds

By: Lyu, Xiaolin ; Zhang, Haoqi; Yang, Shichu; Zhan, Weiqing; Wu, Mingmao; Yu, Yan ; Shen, Zhihao ; Zou, Zhigang 

ACS Applied Materials & Interfaces (2023), 15(26), 31888-31898 | Language: English, Database: CAplus and MEDLINE

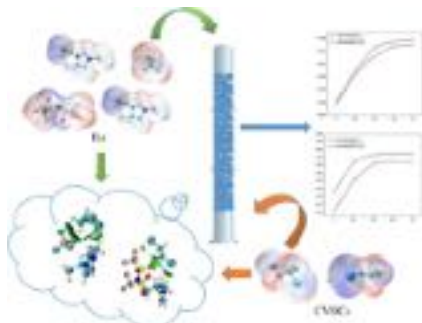
 Substances (4) Reactions (0) Citing (0)

198

Experimental and Simulation Studies on the Capture of Chlorinated Volatile Organic Compounds by Ionic Liquids

By: Song, Minghao; Gui, Chengmin; Lei, Zhigang 

Industrial & Engineering Chemistry Research (2023), 62(26), 10184-10194 | Language: English, Database: CPlus

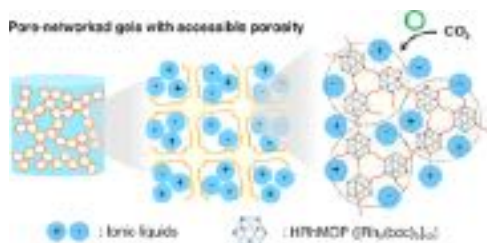
 Substances (4) Reactions (0) Citing (0)

199

Pore-Networked Gels: Permanently Porous Ionic Liquid Gels with Linked Metal-Organic Polyhedra Networks

By: Wang, Zaoming ; Ozcan, Aydin; Craig, Gavin A. ; Haase, Frederik ; Aoyama, Takuma; Poloneeva, Daria; Horio, Keiji; Higuchi, Masakazu; Yao, Ming-Shui ; Doherty, Cara M.; et al

Journal of the American Chemical Society (2023), 145(26), 14456-14465 | Language: English, Database: CPlus and MEDLINE

 Substances (7) Reactions (0) Citing (0)

200

Film and friction charging power generator

By: Tani, Hiroshi

Japan, JP2023092186 A 2023-07-03 | Language: Japanese, Database: CPlus

PatentPak available

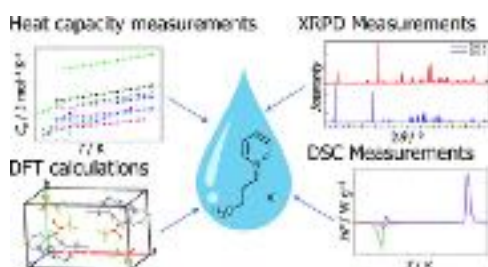
 Substances (5) Reactions (0) Citing (0)

201

Calorimetric and Crystallographic Phase-Behavior Study of Selected 1-Butylpyridinium **Ionic Liquids**

By: Kocian, Stefan; Stejfa, Vojtech; Rohlicek, Jan; Cervinka, Ctirad

Crystal Growth & Design (2023), 23(7), 5221-5235 | Language: English, Database: CAplus



Substances (8)

Reactions (0)

Citing (0)

202

Preparation method of ion gel with degradable and shape memory effect for flexible strain sensor

By: Xie, Hui; Wu, Shanshan; Huang, Jinhui; Zhou, Shaobing

China, CN116376069 A 2023-07-04 | Language: Chinese, Database: CAplus

PatentPak available

Substances (9)

Reactions (0)

Citing (0)

203

Defect Engineering in Bimetallic NiFe-BTC for Boosting Electrocatalytic Oxygen Evolution Reaction through Coordinated **Ionic Liquids**

By: Li, Ru; Qi, Haodong; Pan, Fenghongkang; Xie, Wei; Zhou, Lihui ; Liu, Honglai ; Hu, Jun

ChemElectroChem (2023), 10(13), e202300103 | Language: English, Database: CAplus

Substances (10)

Reactions (0)

Citing (0)

204

Room-temperature ionic liquids as candidate materials for produced water desalination: Experiments and molecular dynamic analysis

By: Choi, Oh. Kyung; Lim, Hae Chan; Cho, Yeongrae; Cho, Art E.; Al Abdulgader, Hasan; Lithoxoos, George P.; Aljama, Hassan A.; Choi, Seung-Hak; Choi, Young Chul; Lee, Jae Woo

Desalination (2023), 557, 116608 | Language: English, Database: CAplus

Substances (6)

Reactions (0)

Citing (0)

205

An overview process analysis of the aromatic-aliphatic separation by **liquid-liquid** extraction with **ionic liquids**

By: Navarro, Pablo ; Moreno, Daniel; Larriba, Marcos ; Garcia, Julian; Rodriguez, Francisco; Canales, Roberto I. ; Palomar, Jose 
Separation and Purification Technology (2023), 316, 123848 | Language: English, Database: CAplus

 Substances (12) Reactions (0) Citing (1)

206

On the key role of electrolyte-electrode van der Waals interactions in the simulation of **ionic liquids**-based supercapacitors

By: Bacon, Camille; Serva, Alessandra; Merlet, Celine; Simon, Patrice; Salanne, Mathieu 
Electrochimica Acta (2023), 455, 142380 | Language: English, Database: CAplus

 Substance (1) Reactions (0) Citing (0)

207

Triethyl sulfonium bis(trifluoromethylsulfonyl)imide **ionic liquids** with highly concentrated LiFSI as electrolytes for Li metal batteries

By: Sugizaki, Tomoko ; Takami, Norio; Hoshina, Keigo
Journal of Power Sources (2023), 571, 233024 | Language: English, Database: CAplus

 Substances (7) Reactions (0) Citing (1)

208

Three **ionic liquids** as "smart" stabilizers for diethyl azodicarboxylate (DEAD)

By: Yu, Qian; Yang, Li; Liu, Shang-Hao; Cao, Chen-Rui; Bin, Laiwang; Shu, Chi-Min
Journal of Molecular Liquids (2023), 381, 121784 | Language: English, Database: CAplus

 Substances (4) Reactions (0) Citing (0)

209

Predicting the ionicity of **ionic liquids** in binary mixtures based on solubility data: II

By: Velho, Pedro; Lopes, Catarina; Macedo, Eugenia A. 
Fluid Phase Equilibria (2023), 569, 113766 | Language: English, Database: CAplus

 Substances (21) Reactions (0) Citing (1)

210

Hydrophobic ionic gel and preparation method thereof and application in electrothermal deicing

By: He, Zhiyuan; Huang, Yan; Jia, Yuyu; Cheng, Rui
China, CN116364330 A 2023-06-30 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (31)

 Reactions (0)

 Citing (0)

211

A Flexible Solid Polymer Electrolyte based Polymerized Ionic Liquid for High Performance Solid-State Batteries

By: Liu, Yuxiang; Ma, Furui ; Li, Wenpeng; Gai, Ligang; Yang, Haohua; Zhang, Zengqi
Batteries & Supercaps (2023), 6(6), e202300056 | Language: English, Database: CAplus

 Substances (5)

 Reactions (0)

 Citing (0)

212

Ultrathin poly(cyclocarbonate-ether)-based composite electrolyte reinforced with high-strength functional skeleton

By: Zheng, Xiaojiao; Xu, Da; Fu, Ning; Yang, Zhenglong 
Journal of Energy Chemistry (2023), 81, 603-612 | Language: English, Database: CAplus

 Substances (10)

 Reactions (0)

 Citing (0)

213

Self-shutdown function and uniform Li-ion flux enabled by a double-layered polymer electrolyte for high-performance Li metal batteries

By: Zhang, Ruixin; Xie, Binxuan; Rong, Junfeng; Liu, Lili; Hou, Guolin; Chen, Shimou
Journal of Solid State Electrochemistry (2023), 27(6), 1399-1409 | Language: English, Database: CAplus

 Substances (10)

 Reactions (0)

 Citing (0)

214

Predicting thermal decomposition temperatures of imidazolium-based energetic ionic liquids using norm indexes

By: Ding, Li; Lu, Xiaowei; Duan, Weijia; Pan, Yong ; Zhang, Xin; Shu, Chi-Min
Journal of Thermal Analysis and Calorimetry (2023), 148(11), 4905-4912 | Language: English, Database: CAplus

 Substances (6)

 Reactions (0)

 Citing (2)

215

Method of manufacturing a porous electrode and a microbattery containing the electrode

By: Gaben, Fabien

France, FR3131450 A1 2023-06-30 | Language: French, Database: CAplus

PatentPak available

 Substances (83) Reactions (0) Citing (0)

216

Method of manufacturing a porous electrode and a microbattery containing the electrode

By: Gaben, Fabien

France, FR3131449 A1 2023-06-30 | Language: French, Database: CAplus

PatentPak available

 Substances (83) Reactions (0) Citing (0)

217

A Metal Organic Framework + **Ionic Liquid** Pseudophase System as a Gas Chromatography Stationary Phase

By: Patel, Arzoo; Aslani, Saba; Firooz, Sepideh Khaki; Armstrong, Daniel W.

Chromatographia (2023), 86(6), 415-424 | Language: English, Database: CAplus

 Substances (32) Reactions (0) Citing (0)

218

Effect of 1-Butyl-3-Methylimidazolium bis(trifluoromethylsulfonyl)imide on spontaneous combustion of bituminous coal

By: Xu, Rui-Jie; Liu, Shang-Hao; Wu, Ke-Fan; Yu, Chang-Fei

Journal of Thermal Analysis and Calorimetry (2023), 148(11), 4707-4715 | Language: English, Database: CAplus

 Substance (1) Reactions (0) Citing (2)

219

Designing **Ionic** Conductive Elastomers Using Hydrophobic Networks and Hydrophilic Salt Hydrates with Improved Stability in AirBy: Yiming, Burebi; Zhang, Zhaoxin; Ali, Nasir; Lu, Yuchen; Qu, Shaoxing ; Zhu, Shuze; Creton, Costantino; Jia, Zheng 

Advanced Electronic Materials (2023), 9(6), 2300069 | Language: English, Database: CAplus

 Substances (6) Reactions (0) Citing (0)

220

A robust solid electrolyte interphase enabled by solvate ionic liquid for high-performance sulfide-based all-solid-state lithium metal batteries

By: Yi, Jingguang; Yan, Chong; Zhou, Dan; Fan, Li-Zhen

Nano Research (2023), 16(6), 8411-8416 | Language: English, Database: CAplus

 Substances (6)

 Reactions (0)

 Citing (0)

221

Exploring the influence of the type of anion in imidazolium ionic liquids on its thermal stability

By: Zhang, Li-Yu; Liu, Shang-Hao; Wang, Yin

Journal of Thermal Analysis and Calorimetry (2023), 148(11), 4985-4995 | Language: English, Database: CAplus

 Substances (3)

 Reactions (0)

 Citing (4)

222

Effect of two imidazole ionic liquids on the thermal stability of cumene hydroperoxide

By: Wu, Ke-Fan; Liu, Shang-Hao

Journal of Thermal Analysis and Calorimetry (2023), 148(11), 5051-5062 | Language: English, Database: CAplus

 Substances (3)

 Reactions (0)

 Citing (2)

223

Density and viscosity of three ionic liquids with 2,2,2-trifluoroethanol

By: Yang, Fuxin; Wang, Bangju; Jiao, Yanhao; Tan, Houzhang; Wang, Xiaopo

Journal of Chemical Thermodynamics (2023), 181, 107038 | Language: English, Database: CAplus

 Substances (4)

 Reactions (0)

 Citing (0)

224

Zwitterionic poly(ionic liquids)-based polymer electrolytes for Lithium-ion batteries applications

By: Liu, Jie; Xu, Yao; Xu, Fei; Li, Jing; Chen, Yanbo; Qiao, Junjie; Han, Yuyang; Ren, Yurong; Lin, Bencai

Ionics (2023), 29(6), 2249-2259 | Language: English, Database: CAplus

 Substances (9)

 Reactions (0)

 Citing (0)

225

Oxygen reduction catalysts and its preparation method and application

By: Yin, Fengxiang; Gao, Qiuyue; Li, Guoru

China, CN116351478 A 2023-06-30 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (5) Reactions (0) Citing (0)

226

Physicochemical properties of the N-methyl-6-hydroxyquinolinium-based protic ionic liquids in the gas and solution media: M06-2X-GD3/6-311 + + G(d,p) study

By: Roohi, Hossein; Hosseini, Somayeh

Ionics (2023), 29(6), 2377-2392 | Language: English, Database: CAplus

 Substances (6) Reactions (0) Citing (0)

227

Investigation on absorption performance of R134a and R1234yf refrigerants using HMIM-based ionic liquids

By: Lee, Minjung ; Ham, Jeonggyun; Chinnasamy, Veerakumar ; Cho, Honghyun 

Journal of Environmental Chemical Engineering (2023), 11(3), 109726 | Language: English, Database: CAplus

 Substances (5) Reactions (0) Citing (0)

228

Ionothermally Synthesized Nanoporous $\text{Ti}_{0.95}\text{W}_{0.05}\text{Nb}_2\text{O}_7$: a Novel Anode Material for High-Performance Lithium-Ion Batteries

By: Tao, Runming ; Zhang, Tianyu ; Sun, Xiao-Guang ; Do-Thanh, Chi-Linh; Dai, Sheng 

Batteries & Supercaps (2023), 6(6), e202300101 | Language: English, Database: CAplus

 Substances (6) Reactions (0) Citing (1)

229

Polypeptide-based vapor-responsive porous poly(ionic liquid) actuators: From reversible to unexpectedly irreversible actuation

By: Wei, Shuhe; Xiao, Yan ; Jiang, Hanwen; Heraly, Frederic; Zhang, Liangshun; Huang, Wanyi; Yuan, Jiayin; Lang, Meidong

Materials Today Communications (2023), 35, 105878 | Language: English, Database: CAplus

 Substances (15) Reactions (19) Citing (0)

230

Dual Functions of Defect Passivation and Hole Transport Dopant Enabled by Piperidyl **Ionic Liquid** for Stable and Efficient Perovskite Solar Cells

By: Zhang, Zhen; Si, Shenglin; Luo, Wenqiang; Liang, Yunqi; Xian, Zihao; Wen, Haoxin; Huang, Xinxing; Yin, Tianzhou; Guo, Yixuan; Wu, Hualin; et al

Solar RRL (2023), 7(11), 2300107 | Language: English, Database: CAplus

[Substances \(11\)](#)[Reactions \(0\)](#)[Citing \(0\)](#)

231

Preparation of high-performance mixed-matrix gas separation membrane based on **ionic liquid** coordination

By: Zhang, Suojia; Gong, Lili; Luo, Shuangjiang; Shan, Linglong; Xie, Wei; Cai, Zhili; Bai, Ju
China, CN116351265 A 2023-06-30 | Language: Chinese, Database: CAplus

PatentPak available

[Substances \(11\)](#)[Reactions \(0\)](#)[Citing \(0\)](#)

232

Gold-Catalyzed Formal (3+2) Cycloaddition in an **Ionic Liquid**: Environmentally Friendly and Stereoselective Synthesis of Polysubstituted Indanes from Benzylic Alcohols and 1-Phenylpropenes

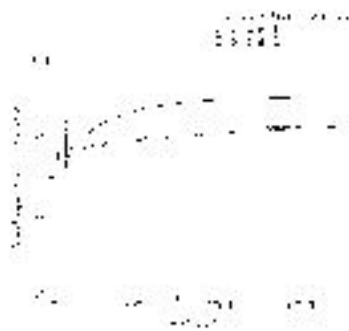
By: Morita, Nobuyoshi; Chiaki, Hitomi; Ikeda, Kanae; Tanaka, Kosaku; Hashimoto, Yoshimitsu; Tamura, Osamu
Synlett (2023), 34(9), 1068-1074 | Language: English, Database: CAplus

[Substances \(53\)](#)[Reactions \(0\)](#)[Citing \(0\)](#)

233

Method of preparing slurry with anti-dendritic lithium for coating dried on anode and battery so made

By: Chen, Wei-Chao; Lai, Hong-Zheng; Chang, Tseng-Lung
United States, US20230207773 A1 2023-06-29 | Language: English, Database: CAplus



PatentPak available

[Substances \(23\)](#)[Reactions \(0\)](#)[Citing \(0\)](#)

234

STRO reverse osmosis membrane and preparation method thereof

By: Shen, Juan; Wang, Wei; Zhao, Yuchen; Nan, Xiaodong
 China, CN116328551 A 2023-06-27 | Language: Chinese, Database: CAplus

PatentPak available

Substances (17)

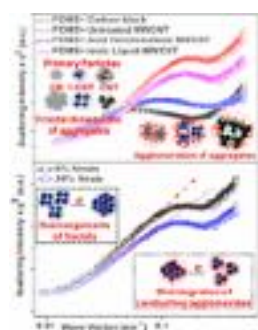
Reactions (0)

Citing (0)

235

In Situ Study of Structure Formation under Stress in Stretchable Conducting Nanocomposites

By: Roy, Debmalya ; B, Vaishnav ; Vayalil, Sarathlal Koyiloth ; Gupta, Ajay ; Prasad, N. Eswara; Sochor, Benedikt ;
 Schwartzkopf, Matthias ; Roth, Stephan V. ; Kraus, Tobias 
 Journal of Physical Chemistry Letters (2023), 14(25), 5834-5840 | Language: English, Database: CAplus and MEDLINE



Substances (4)

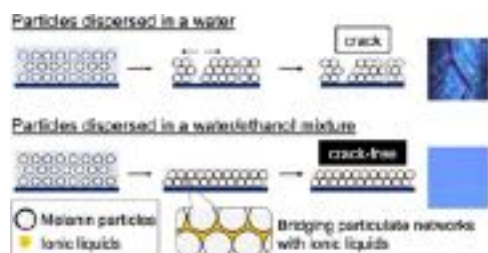
Reactions (0)

Citing (0)

236

Crack-Free Structural Color Materials Prepared without Disrupting the Particle Arrangement by Controlling the Internal Stress Relaxation and Interactions of the Melanin Particles

By: Urase, Mai; Maejima, Yui; Watanabe, Taku; Kishikawa, Keiki ; Fudouzi, Hiroshi ; Kohri, Michinari 
 Langmuir (2023), 39(25), 8725-8736 | Language: English, Database: CAplus and MEDLINE



Substances (7)

Reactions (0)

Citing (0)

237

Polycarbonate resin composition, molded product, and production method for polycarbonate resin composition

By: Fujita, Masashi; Matsuo, Yuichi

World Intellectual Property Organization, WO2023119645 A1 2023-06-29 | Language: Japanese, Database: CAplus

PatentPak available Substances (10) Reactions (0) Citing (0)

238

Preparation of an ionic gel for stretchable circuits and a stretchable circuit board

By: Zhuo, Yizhi; Wang, Zeqing; Gong, Yi; Ding, Xin; Tian, Xingyou

China, CN116333346 A 2023-06-27 | Language: Chinese, Database: CAplus

PatentPak available Substances (14) Reactions (0) Citing (0)

239

Membrane for separating methanol containing mixtures

By: Pulyalina, A. Yu.; Rostovtseva, V. A.; Faykov, I. I.; Polotskaya, G. A.

Russian Federation, RU2798832 C1 2023-06-28 | Language: Russian, Database: CAplus

PatentPak available Substances (9) Reactions (0) Citing (0)

240

Encapsulated catalytic composition

By: Dalmazzone, Christine; Dartiguelongue, Cyril; Forget, Severine; Magna, Lionel; Xu, Minrui

World Intellectual Property Organization, WO2023117554 A2 2023-06-29 | Language: French, Database: CAplus

PatentPak available Substances (33) Reactions (0) Citing (0)

241

Catalytic composition in the form of a Pickering emulsion

By: Burnichon, Corinne; Dalmazzone, Christine; Dartiguelongue, Cyril; Forget, Severine; Magna, Lionel

World Intellectual Property Organization, WO2023117553 A2 2023-06-29 | Language: French, Database: CAplus

PatentPak available Substances (30) Reactions (0) Citing (0)

242

Preparation of supramolecular adhesives resistant to ultra-low temperature and organic solvents

By: Liu, Kaiqiang; Guan, Wang; Jiang, Wenhe; Deng, Xinling; Fang, Yu
China, CN116285829 A 2023-06-23 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (51)

 Reactions (4)

 Citing (0)

243

Thermoelectric cement-matrix composite and preparation method thereof and application as thermoelectric materials

By: Wei, Ya; Cui, Yiwei; Wang, Yaqiong
China, CN116283137 A 2023-06-23 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (4)

 Reactions (0)

 Citing (0)

244

Preparation of polyvinylidene fluoride-hexafluoropropylene composite ionic gel polymer electrolyte of modified two-dimensional carbon material for lithium metal battery

By: Wang, Xianbao; Tang, Yifan; Lin, Liangyou; Mei, Tao; Qian, Jingwen; Yu, Li; Li, Jinhua; Wang, Jianying
China, CN116285167 A 2023-06-23 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (10)

 Reactions (0)

 Citing (0)

245

Preparation method of sulfide-polymer composite solid electrolyte membrane for lithium metal solid-state battery

By: Hu, Xiaobin; Zhang, Yuning
China, CN116284740 A 2023-06-23 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (27)

 Reactions (0)

 Citing (0)

246

Rapidly Cured Multifunctional Epoxy Resins with Switchable Curing Temperature and Exceptional Electrical Properties

By: Al-Qatatsheh, Ahmed; Vongsivut, Jitraporn; Juodkazis, Saulius; Salim, Nisa V.; Hameed, Nishar 
Advanced Materials Technologies (Weinheim, Germany) (2023), 8(12), 2202028 | Language: English, Database: CAplus

 Substances (7)

 Reaction (1)

 Citing (0)

247

Ion gel with both hydrophobicity and high resilience for flexible electronic skin or wearable and preparation method thereof

By: Guo, Chuanfei; Chen, Xingxing; Shi, Junli; Xie, Sai; Liao, Zelong
China, CN116284782 A 2023-06-23 | Language: Chinese, Database: CAplus

PatentPak available Substances (15) Reactions (2) Citing (0)

248

High-strength self-healing polyurethane gel containing ionic liquid for 3D printing and preparation method

By: You, Zhengwei; Yang, Lei; Sun, Lijie; Huang, Hongfei; Zhu, Wenfan; Wang, Yihan
China, CN116284676 A 2023-06-23 | Language: Chinese, Database: CAplus

PatentPak available Substances (18) Reaction (1) Citing (0)

249

Solid polymer electrolyte based on ketone group and preparation method thereof

By: Zhang, Liaoyun; Chen, Anqi; Zeng, Qinghui; Li, Zhenfeng; Liu, Yu; Guan, Jiazhu; Wang, Honghao; Jiang, Yuchen
China, CN116285298 A 2023-06-23 | Language: Chinese, Database: CAplus

PatentPak available Substances (93) Reactions (5) Citing (0)

250

Crosslinked solid electrolyte

By: Halttunen, Niki; Obadia, Mona Marie
France, FR3130803 A1 2023-06-23 | Language: French, Database: CAplus

PatentPak available Substances (30) Reactions (2) Citing (0)

251

Catalytic composition in the form of a Pickering emulsion

By: Burnichon, Corinne; Dalmazzone, Christine; Dartiguelongue, Cyril; Forget, Severine; Magna, Lionel
France, FR3130643 A1 2023-06-23 | Language: French, Database: CAplus

PatentPak available Substances (30) Reactions (0) Citing (0)

252

Encapsulated catalytic composition

By: Dalmazzone, Christine; Dartiguelongue, Cyril; Forget, Severine; Magna, Lionel; Xu, Minrui
France, FR3130644 A1 2023-06-23 | Language: French, Database: CAplus

PatentPak available

 Substances (32)

 Reactions (0)

 Citing (0)

253

Calcium salt electrolyte solution and electrolyte, preparation method therefor and application thereof

By: Tang, Yongbing; Yao, Wenjiao; Wu, Nanzhong; Lan, Yuanqi
World Intellectual Property Organization, WO2023108501 A1 2023-06-22 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (84)

 Reactions (0)

 Citing (0)

254

In-situ preparation and application of solid polymer electrolyte for battery

By: Tang, Yongbing; Wang, Zhiwei; Liu, Qirong
World Intellectual Property Organization, WO2023109659 A1 2023-06-22 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (131)

 Reactions (0)

 Citing (0)

255

Ionic liquid-impregnated inorganic material-coated catalyst particles containing silica, membrane electrode assembly, and fuel cell

By: Kurihara, Hitoshi
World Intellectual Property Organization, WO2023112958 A1 2023-06-22 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (13)

 Reactions (0)

 Citing (0)

256

Gas diffusion electrode for electrolytic synthesis of ammonia

By: Kondo, Shoichi; Maeda, Shinichi; Shiga, Norihito
World Intellectual Property Organization, WO2023113033 A1 2023-06-22 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (9)

 Reaction (1)

 Citing (0)

257

Inkjet printable **ionic** inks for **ionic** membranes and **ionic** tactile sensors

By: Ge, Ruiqing; Chang, Yu

World Intellectual Property Organization, WO2023109595 A1 2023-06-22 | Language: Chinese, Database: CAplus

PatentPak available Substances (14) Reactions (0) Citing (0)

258

Crosslinked solid electrolyte

By: Halttunen, Niki; Obadia, Mona Marie

World Intellectual Property Organization, WO2023110530 A1 2023-06-22 | Language: French, Database: CAplus

PatentPak available Substances (30) Reactions (2) Citing (0)

259

Supported **Ionic Liquid** Phase (SILP) Allylic Alkylation of Amines in Continuous Flow

By: Stagel, Kristof; Palvolgyi, Adam Mark; Delmas, Clemence; Schnuerch, Michael; Bica-Schroder, Katharina

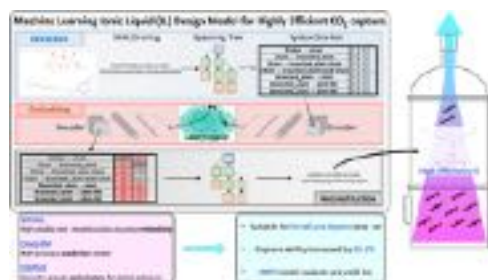
ChemCatChem (2023), 15(12), e202300381 | Language: English, Database: CAplus

 Substances (72) Reactions (94) Citing (0)

260

Machine Learning-Based Design of **Ionic Liquids** at the Atomic Scale for Highly Efficient CO₂ CaptureBy: Liu, Xiangyang; Chu, Jianchun; Huang, Shaoxuan; Li, An; Wang, Shuanlai; He, Maogang 

ACS Sustainable Chemistry & Engineering (2023), 11(24), 8978-8987 | Language: English, Database: CAplus

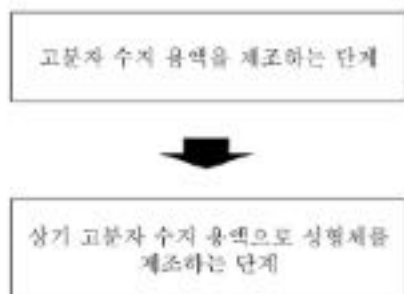
 Substances (40) Reactions (0) Citing (0)

261

Method for manufacturing piezoelectric body using polyvinylidene fluoride-trifluoroethylene and 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide

By: Bae, Jin U; Woo, In Seon

Korea, Republic of, KR2023087753 A 2023-06-19 | Language: Korean, Database: CPlus



PatentPak available

Substances (3)

Reactions (0)

Citing (0)

262

Covalent Organic Framework with Multi-Cationic Molecular Chains for Gate Mechanism Controlled Superionic Conduction in All-Solid-State Batteries

By: Gong, Wei; Ouyang, Yuan; Guo, Sijia; Xiao, Yingbo; Zeng, Qinghan; Li, Dixiong; Xie, Yufeng; Zhang, Qi ; Huang, Shaoming
Angewandte Chemie, International Edition (2023), 62(25), e202302505 | Language: English, Database: CPlus and MEDLINE

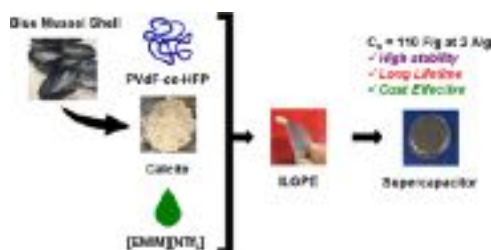
Substances (3)

Reactions (0)

Citing (0)

263

Biorenewable Calcite as an Inorganic Filler in **Ionic Liquid** Gel Polymer Electrolytes for Supercapacitors

By: Murphy, Jennifer N. ; Mendes, Tiago ; Kerton, Francesca M. ; MacFarlane, Douglas R.
ACS Omega (2023), 8(24), 21418-21424 | Language: English, Database: CPlus and MEDLINE

Substances (4)

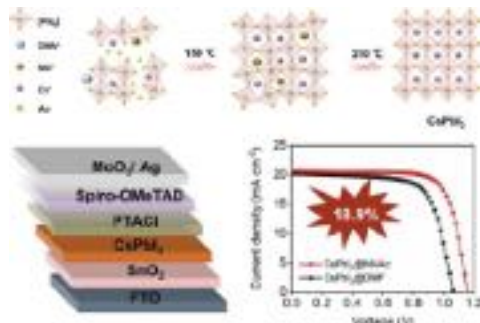
Reactions (0)

Citing (0)

264

Efficient and Stable β -CsPbI₃ Solar Cells through Solvent Engineering with Methylamine Acetate **Ionic Liquid**

By: Lv, Yifan ; Li, Yiqun; Zhou, Yan; Liu, Jin; Wang, Jinpei; Lin, Yuexin; Hu, Jianfei; Pan, Tengfei; Li, Yajing; Wang, Kaiyu; et al
ACS Applied Materials & Interfaces (2023), 15(24), 29236-29243 | Language: English, Database: CAPlus and MEDLINE


 Substances (12)

 Reactions (0)

 Citing (0)

265

Role of Hydrogen Bond Defects for Cluster Formation and Distribution in **Ionic Liquids** by Means of Neutron Diffraction and Molecular Dynamics Simulations

By: Busch, Johanna; Niemann, Thomas; Neumann, Jan; Stange, Peter ; Gartner, Sabrina; Youngs, Tristan ; Youngs, Sarah ; Paschek, Dietmar ; Ludwig, Ralf 
ChemPhysChem (2023), 24(12), e202300031 | Language: English, Database: CAPlus and MEDLINE

 Substances (22)

 Reactions (21)

 Citing (0)

266

Electrochemical cell comprising a metal sulfide and a polysulfide electrolyte

By: Amigues, Adrien Marie
World Intellectual Property Organization, WO2023105202 A1 2023-06-15 | Language: English, Database: CAPlus

PatentPak available

 Substances (89)

 Reactions (0)

 Citing (0)

267

Low-temperature preparation method of strontium boron oxychloride nanorod as nonlinear optical material

By: Tan, Deming; Li, Xiujun
China, CN116262984 A 2023-06-16 | Language: Chinese, Database: CAPlus

PatentPak available

 Substances (3)

 Reactions (0)

 Citing (0)

268

Method for synthesizing strontium boron oxybromide nanowire nonlinear optical material by low temperature ionothermal reaction

By: Tan, Deming; Li, Xiujun

China, CN116262621 A 2023-06-16 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (3) Reactions (0) Citing (0)

269

Study on the structural characteristics and interaction mechanisms of ionic liquid mixtures with a common imidazolium cation

By: Zhao, Rui; Xu, Xianzhen; Zhou, Yue; Wang, Zonghua; Zhou, Yu 

Journal of Molecular Liquids (2023), 380, 121743 | Language: English, Database: CAplus

 Substances (2) Reactions (0) Citing (1)

270

Ionic liquid as electrostatic shielding additive for dendrite-free lithium metal battery

By: Zhong, Jing; Wang, Zhixing; Wang, Siwu; Li, Xinhai; Guo, Huajun; Wang, Jiexi; Yan, Guochun

Applied Surface Science (2023), 622, 156968 | Language: English, Database: CAplus

 Substances (9) Reactions (0) Citing (0)

271

Vapor-liquid equilibrium for dimethyl ether and three imidazolium ionic liquids as working pairs in absorption-refrigeration cycle

By: Wang, Shuanlai; Hou, Kun; Zhang, Ziwen; Huang, Shaoxuan; Liu, Xiangyang ; He, Maogang

Journal of Molecular Liquids (2023), 380, 121742 | Language: English, Database: CAplus

 Substances (4) Reactions (0) Citing (1)

272

Electrochemical performance of supercapacitor electrodes based on carbon aerogel-reinforced spread tow carbon fiber fabrics

By: Asfaw, Habtom D. ; Kucernak, Anthony; Greenhalgh, Emile S. ; Shaffer, Milo S. P. 

Composites Science and Technology (2023), 238, 110042 | Language: English, Database: CAplus

 Substances (5) Reaction (1) Citing (3)

273

New **room temperature ionic liquids** prepared from an old phosphine: Using branching and diastereomeric mixtures to inherently benefit physical properties

By: Cena, Nicolas ; Blanski, Rusty L.; Quintana, Ashlee S.; Knoerzer, Kelsie G.; Boatz, Jerry A.; Redeker, Neil D.; Alabada, Cassandra D. ; Marcischak, Jacob C.; Ghiassi, Kamran B. 

Journal of Molecular Liquids (2023), 380, 121762 | Language: English, Database: CPlus

 Substances (11)

 Reactions (0)

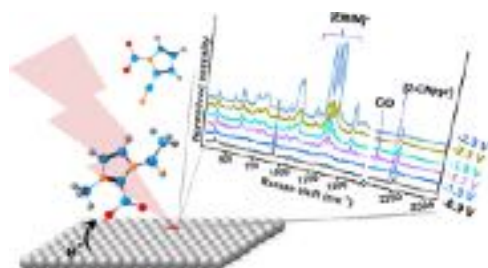
 Citing (0)

274

A Bifunctional **Ionic Liquid** for Capture and Electrochemical Conversion of CO₂ to CO over Silver

By: Dongare, Saudagar ; Coskun, Oguz Kagan ; Cagli, Eda; Lee, Kevin Y. C.; Rao, Guodong; Britt, R. David ; Berben, Louise A. ; Gurkan, Burcu 

ACS Catalysis (2023), 13(12), 7812-7821 | Language: English, Database: CPlus and MEDLINE


 Substances (13)

 Reactions (0)

 Citing (1)

275

High-performance hybrid fluoropolymer composite membranes

By: Abusleme, Julio A.; Battegazzore, Daniele; Bernagozzi, Giulia; Frache, Alberto; Russo, Antonio

World Intellectual Property Organization, WO2023104890 A1 2023-06-15 | Language: English, Database: CPlus

PatentPak available

 Substances (33)

 Reactions (0)

 Citing (0)

276

Method for preparing polymer solid electrolyte and polymer solid electrolyte prepared thereby

By: Lee, Jung Pil; Kim, Dong Kyu

World Intellectual Property Organization, WO2023106851 A1 2023-06-15 | Language: Korean, Database: CPlus

PatentPak available

 Substances (26)

 Reactions (0)

 Citing (0)

277

Preparation method of electrochemically synthesizing metal-organic framework membrane and its application in gas separation

By: Yang, Weishen; Song, Hongling; Peng, Yuan

China, CN116262207 A 2023-06-16 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (34) Reactions (0) Citing (0)

278

Dynamic Metal-Ligand Coordination-Assisted Ionogels for Deformable Alternating Current Electroluminescent Devices

By: Hong, Seong Hyuk; Kim, Yong Min; Moon, Hong Chul 

ACS Applied Materials & Interfaces (2023), 15(23), 28516-28523 | Language: English, Database: CAplus and MEDLINE

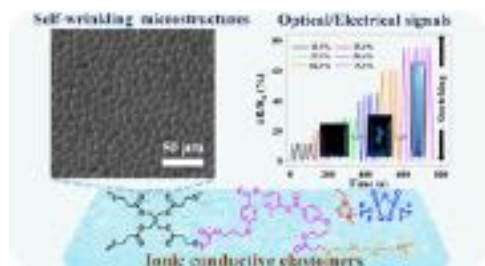
 Substances (7) Reactions (2) Citing (0)

279

Multifunctional **ionic** Conductive Anisotropic Elastomers with Self-Wrinkling Microstructures by In Situ Phase Separation

By: Liu, Zhiyang ; Jiang, Qi; Bisoyi, Hari Krishna ; Zhu, Guanqun; Nie, Zhen-Zhou; Jiang, Kun; Yang, Hong ; Li, Quan 

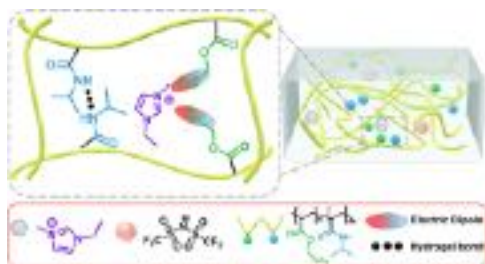
ACS Applied Materials & Interfaces (2023), 15(23), 28546-28554 | Language: English, Database: CAplus and MEDLINE

 Substances (6) Reactions (0) Citing (0)

280

Underwater Self-Healing and Recyclable Ionogel Sensor for Physiological Signal Monitoring

By: Zhao, Ye; Wang, Fangfang; Liu, Jingying; Gan, Dingli; Lei, Bing; Shao, Jinjun ; Wang, Wenjun; Wang, Qian ; Dong, Xiaochen 
ACS Applied Materials & Interfaces (2023), 15(23), 28664-28674 | Language: English, Database: CAPLUS and MEDLINE

 Substances (4) Reactions (0) Citing (0)

281

An Intrinsically Nonflammable Electrolyte for Prominent-Safety Lithium Metal Batteries with High Energy Density and Cycling Stability

By: Wang, Zhicheng; Han, Ran; Zhang, Haiyang; Huang, Dan; Zhang, Fengrui; Fu, Daosong; Liu, Yang; Wei, Yumeng; Song, Haiqi; Shen, Yanbin; et al
Advanced Functional Materials (2023), 33(24), 2215065 | Language: English, Database: CAPLUS

 Substances (9) Reactions (0) Citing (0)

282

Highly conductive polyacrylonitrile-based hybrid aqueous/**ionic liquid** solid polymer electrolytes with tunable passivation for Li-ion batteries

By: Ludwig, Kyle B.; Correll-Brown, Riordan; Freidlin, Max; Garaga, Mounesha N.; Bhattacharyya, Sahana; Gonzales, Patricia M.; Cresce, Arthur V.; Greenbaum, Steve; Wang, Chunsheng; Kofinas, Peter
Electrochimica Acta (2023), 453, 142349 | Language: English, Database: CAPLUS

 Substances (5) Reactions (0) Citing (1)

283

Preparation of humidity-hardened polymer materials

By: Zhu, Shiping; Ming, Xiaoqing; Yao, Le; Zhang, Qi
World Intellectual Property Organization, WO2023098376 A1 2023-06-08 | Language: Chinese, Database: CAPLUS

PatentPak available Substances (47) Reaction (1) Citing (0)

284

Preparation method of lubricating microcapsule comprising solid lubricant and **liquid** lubricant and having wide-temperature range lubricity , and self-lubricating composite material comprising the same

By: Chen, Hao; Zhang, Lin; Gao, Kai; Xie, Guoxin; Luo, Jianbin
China, CN116240065 A 2023-06-09 | Language: Chinese, Database: CAPlus

PatentPak available

Substances (44)

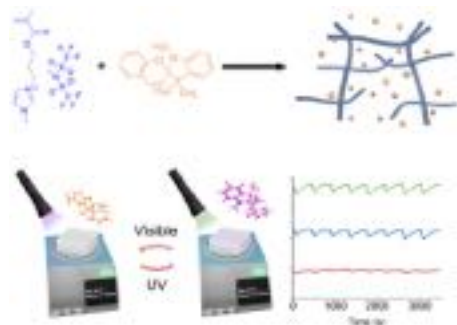
Reactions (0)

Citing (0)

285

Developing Stretchable and Photo-Responsive Conductive Films by Incorporation of Spiropyran into Poly(**ionic liquid**s)

By: Chang, Chia-Wei; Wu, Chia-Ti; Lin, Yu-Liang; Lee, Lin-Ruei; Lin, Huan-Wei; Gautam, Bhaskarchand; Tseng, Yu-Hsuan; Liao, Chih-Wei; Chang, Chun-Ting; Chen, Jiun-Tai 
ACS Applied Polymer Materials (2023), 5(6), 4210-4216 | Language: English, Database: CAPlus



Substances (10)

Reactions (14)

Citing (0)

286

A Non-Volatile, Thermo-Reversible, and Self-Protective Gel Electrolyte Providing Highly Precise and Reversible Thermal Protection for Lithium Batteries

By: Liu, Zezhao; Yu, Qian; Oli, Nischal; Gomez, Jose Fernando Florez; Qiu, Shen; Tian, Haoran; Qiu, Qian; Sun, Wei; Li, Kuihao; Liu, Zhishan; et al
Advanced Energy Materials (2023), 13(22), 2300143 | Language: English, Database: CAPlus

Substances (8)

Reactions (0)

Citing (0)

287

Preparation method of **ionic** conductor with high transparency and electrical conductivity, and application thereof in flexible stretchable electronic device

By: Cong, Zhenhua; Hu, Ankang; Cui, Zeyu; Huang, Chengyang; Huang, Zhuohang; Li, Jiahao
China, CN116246815 A 2023-06-09 | Language: Chinese, Database: CAPlus

PatentPak available

Substances (6)

Reactions (0)

Citing (0)

288

Ionic liquid/metal organic framework (MOF) nanoparticle composite adsorbent, its preparation method and application in gas adsorption separation

By: Yang, Weishen; Zhao, Meng; Ban, Yujie

China, CN116237019 A 2023-06-09 | Language: Chinese, Database: CAplus

PatentPak available

Substances (11)

Reactions (0)

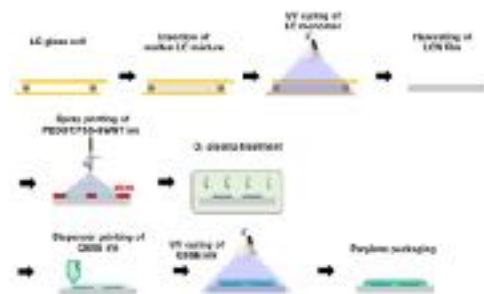
Citing (0)

289

Flexible supercapacitor capable of changing shape by light

By: Lee, Sang Yeong; Lee, Gwon Hyeong; Jeon, Ji Su; Wi, Jeong Jae

Korea, Republic of, KR2540854 B1 2023-06-08 | Language: Korean, Database: CAplus



PatentPak available

Substances (12)

Reactions (0)

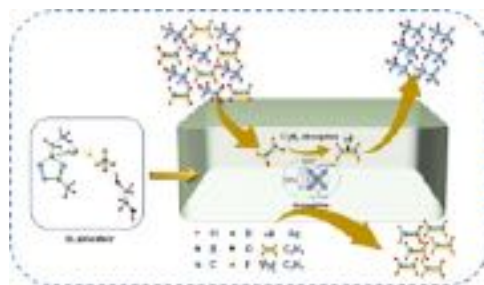
Citing (0)

290

Synergistic Effect of Silver-Based Ionic Liquid for Ethylene/Ethane Separation

By: Ren, Mengyu; Liu, Wei; Li, Dan; Wang, Bo; Dong, Haifeng ; Yang, Yelin; pan, Cuiqin; Zhang, Xiangping ; Qiu, Yongfu

Industrial & Engineering Chemistry Research (2023), 62(22), 8893-8901 | Language: English, Database: CAplus



Substances (13)

Reactions (0)

Citing (0)

291

Elastomer-protected anode and lithium-ion battery

By: Zhang, Xingxing; Jang, Bor Z.

World Intellectual Property Organization, WO2023102479 A1 2023-06-08 | Language: English, Database: CAplus

PatentPak available

 Substances (101)

 Reactions (0)

 Citing (0)

292

Comparison of olefin/paraffin separation by ionic liquid and polymeric ionic liquid stationary phases containing silver(I) ion using one-dimensional and multidimensional gas chromatography

By: Ryoo, Donghyun ; Eor, Philip; Bara, Jason E. ; Anderson, Jared L. 

Journal of Chromatography A (2023), 1698, 463996 | Language: English, Database: CAplus and MEDLINE

 Substances (18)

 Reactions (0)

 Citing (1)

293

Polymer electrolyte having polyethylene oxide matrix for zinc ion batteries

By: Zhi, Chunyi; Wang, Donghong

United States, US20230178800 A1 2023-06-08 | Language: English, Database: CAplus

PatentPak available

 Substances (44)

 Reactions (0)

 Citing (0)

294

Preparation of polymer ionic liquid cathode binder for negative electrode sheet material

By: Ci, Lijie; Zhang, Shengnan

China, CN116218426 A 2023-06-06 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (6)

 Reaction (1)

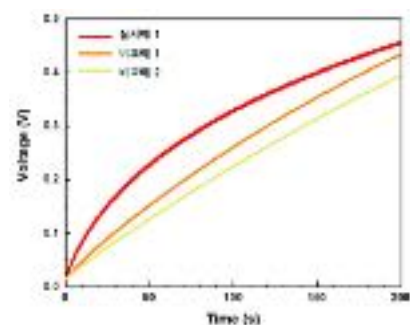
 Citing (0)

295

High-efficiency supercapacitor for kinetic power generation and energy storage

By: Lee, Sang Yeong; Lee, Gwon Hyeong; Kim, Min Gyun

Korea, Republic of, KR2023078578 A 2023-06-02 | Language: Korean, Database: CAplus



PatentPak available

Substances (4)

Reactions (0)

Citing (0)

296

Ion Bridging by Carbon Dioxide Facilitates Electrochemical Energy Storage at Charged Carbon-Ionic-Liquid Interfaces

By: Liu, Mingren; Wang, Yong-Lei; Schutjajew, Konstantin; Chai, Liyuan; Oschatz, Martin

Advanced Energy Materials (2023), 13(21), 2300401 | Language: English, Database: CAplus

Substances (10)

Reactions (0)

Citing (0)

297

Exploring the electrosorption and surface charge amplification at the ionic liquid/cavity interface: Influence of imidazolium alkyl chain length and the size of the spherical cavities of the porous electrode

By: Rabiei Jildani, Sediqeh; Keshavarzi, Ezat

Electrochimica Acta (2023), 452, 142314 | Language: English, Database: CAplus

Substances (3)

Reactions (0)

Citing (0)

298

Synthesis and physico-chemical characterization of binary mixtures of hydroxyl- and ester-functionalized ionic liquids

By: Marondedze, Edward Tatenda; Azim, Muhammad Mohsin; Martincigh, Bice S.; Stark, Annegret

Journal of Molecular Liquids (2023), 379, 121596 | Language: English, Database: CAplus

Substances (6)

Reactions (0)

Citing (0)

299

In-situ recovery of butanol from ABE fermentation solution by hydrophobic ionic liquid perstraction in tubular membranes assisted with vacuum

By: Merlet, G.; Becerra, J.; Zurob, E.; Plaza, A.; Romero, J.; Quijada-Maldonado, E.; Pino-Soto, L.; Cabezas, R.
Separation and Purification Technology (2023), 314, 123630 | Language: English, Database: CAplus

[Substances \(7\)](#)[Reactions \(0\)](#)[Citing \(1\)](#)

300

Comparing supercapacitors with graphene/graphyne electrodes and [Bmim][PF₆], [Emim][BF₄], [Ch][Gly] and [Pyr][Tfsi] ionic liquids using molecular dynamics

By: de Araujo Chagas, Henrique; Fileti, Eudes Eterno; Colherinhas, Guilherme 
Journal of Molecular Liquids (2023), 379, 121703 | Language: English, Database: CAplus

[Substances \(7\)](#)[Reactions \(0\)](#)[Citing \(1\)](#)

301

Self-doped TiO₂ nanotubes with surface modification by ionic liquids for enhanced photoreduction of CO₂ to acetic acid

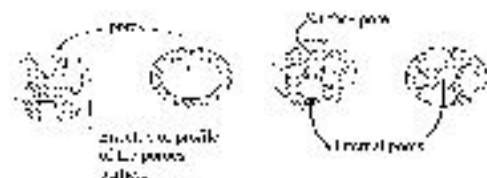
By: Lv, Ruibin; Zhang, Mi; Huang, Hao; Yuan, Shushan; Liu, Li; Li, Kunpeng; Yuan, Jiamin; Hu, Hui 
Applied Surface Science (2023), 621, 156897 | Language: English, Database: CAplus

[Substances \(6\)](#)[Reactions \(0\)](#)[Citing \(1\)](#)

302

Elastomer-protected anode and lithium-ion battery

By: Zhang, Xingxing; Jang, Bor Z.
United States, US20230170482 A1 2023-06-01 | Language: English, Database: CAplus

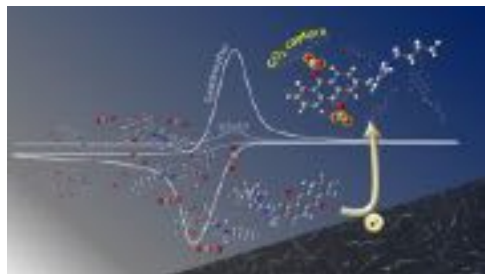
**PatentPak** available[Substances \(101\)](#)[Reactions \(10\)](#)[Citing \(0\)](#)

303

Imidazolium-Functionalized Anthraquinone for High-Capacity Electrochemical CO₂ Capture

By: Iida, Hiroki; Kondou, Shinji ; Tsuzuki, Seiji ; Tashiro, Mao; Shida, Naoki ; Motokura, Ken ; Dokko, Kaoru ; Watanabe, Masayoshi ; Ueno, Kazuhide 

Journal of Physical Chemistry C (2023), 127(21), 10077-10086 | Language: English, Database: CAplus

 Substances (13) Reactions (0) Citing (0)

304

An Analytical Predictive Model for the Heat Capacity of Imidazolium-Type **Ionic Liquids** Derived Directly from Artificial Neural Network Modeling

By: Valderrama, Jose O.; Cardona, Luis F.; Campusano, Richard A.; Rivas, Francklin
International Journal of Thermophysics (2023), 44(5), 68 | Language: English, Database: CAplus

 Substances (52) Reactions (0) Citing (0)

305

Method for producing divalent samarium compound by electrolysis reaction

By: Nishibayashi, Yoshiaki; Arashima, Kazuya; Kondo, Shoichi; Kikuchi, Takamasa
Japan, JP2023075370 A 2023-05-31 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (7) Reactions (0) Citing (0)

306

Polymer dispersed **ionic liquid** electrolytes with high **ionic** conductivity for ultrastable solid-state lithium batteries

By: Qin, Shengyu; Cao, Yaping; Zhang, Jianying; Ren, Yunxiao; Sun, Chang; Zhang, Shuoning; Zhang, Lanying; Hu, Wei; Yu, Meina; Yang, Huai 
Carbon Energy (2023), 5(5), e316 | Language: English, Database: CAplus

 Substances (8) Reactions (0) Citing (1)

307

Fabrication of composite solid electrolyte based on MOF with functional **ionic liquid** for integrated lithium-air batteries

By: Lou, Ping; Li, Long; Wu, Yiyun; Yue, Lingping; Wang, Yao; Tang, Shun; Zhang, Weixin; Cao, Yuancheng
Ionics (2023), 29(5), 1803-1812 | Language: English, Database: CAplus

 Substances (9) Reactions (0) Citing (1)

308

Characterization of Nanowire-Constructed Porous CuZn and CuNiZn Nitrate-Active Electrodes Prepared via Galvanic Displacement on Electrodeposited Zn Templates in **Ionic Liquids**

By: Lo, Nai-Chang; Yu, Chia-Lin; Chen, Po-Yu 
Journal of Electronic Materials (2023), 52(5), 2995-3007 | Language: English, Database: CAplus

 Substances (11) Reactions (0) Citing (0)

309

Mixed matrix metal-organic framework membranes for efficient CO₂/N₂ separation under humid conditions

By: Geng, Chenxu; Sun, Yuxiu ; Zhang, Zhengqing ; Qiao, Zhihua ; Zhong, Chongli 
AIChE Journal (2023), 69(5), e18025 | Language: English, Database: CAplus

 Substances (12) Reactions (2) Citing (2)

310

Ambipolar Electrochemistry of Pre-Intercalated Ti₃C₂T_x MXene in **Ionic Liquid** Electrolyte

By: Valurouthu, Geetha; Panigrahi, Rachita; Saraf, Mohit ; Shuck, Christopher E.; Mallik, Bhabani S.; Kurra, Narendra; Gogotsi, Yury 
Batteries & Supercaps (2023), 6(5), e202300009 | Language: English, Database: CAplus

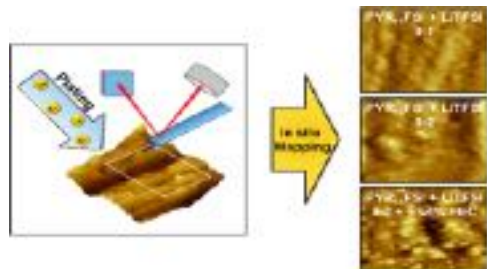
 Substance (1) Reactions (0) Citing (1)

311

Insights into the Lithium Nucleation and Plating/Stripping Behavior in **Ionic Liquid**-Based Electrolytes

By: Stepien, Dominik; Wolff, Beatrice ; Diemant, Thomas; Kim, Guk-Tae; Hausen, Florian ; Bresser, Dominic ; Passerini, Stefano 

ACS Applied Materials & Interfaces (2023), 15(21), 25462-25472 | Language: English, Database: CAPLUS and MEDLINE



 Substances (5)

 Reactions (0)

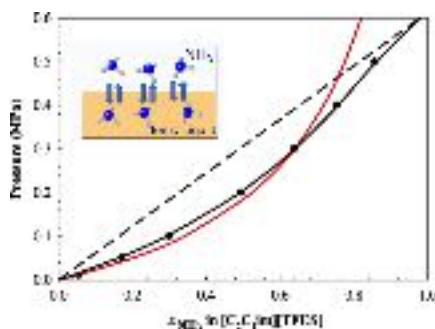
 Citing (0)

312

Investigation of Nonidealities through an Extended Flory-Huggins Model of **Ionic Liquid** Mixtures with Ammonia

By: Turnaoglu, Tugba ; Shiflett, Mark B. 

Industrial & Engineering Chemistry Research (2023), 62(21), 8515-8523 | Language: English, Database: CAPLUS



 Substances (5)

 Reactions (0)

 Citing (0)

313

Ionic liquid functionalized tin halide perovskite investigated by STXM and spectro-ptychography

By: Sun, Tianxiao ; Zuo, Shengnan; He, Bo; Yuan, Xinye; Li, Guixiang; Zhou, Jigang; Weigand, Markus; Abate, Antonio; Wang, Jian
Journal of Electron Spectroscopy and Related Phenomena (2023), 265, 147330 | Language: English, Database: CAPLUS

 Substances (6)

 Reactions (0)

 Citing (0)

314

Solvent extraction of radiostrontium into ionic liquids using crown ethers

By: Houzar, Jan; Cubova, Katerina; Semelova, Miroslava; Nemec, Mojmir

Journal of Radioanalytical and Nuclear Chemistry (2023), 332(5), 1515-1519 | Language: English, Database: CAplus

 Substances (15) Reactions (0) Citing (1)

315

High thermal conductivity polyionic liquid/boron nitride composite insulating material and preparation method thereof

By: Qi, Zhonghua; Li, Hongfei

China, CN116178618 A 2023-05-30 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (19) Reactions (24) Citing (0)

316

Antifreezing solution for vehicle and preparation method thereof

By: Shi, Yingfei

China, CN116162448 A 2023-05-26 | Language: Chinese, Database: CAplus

PatentPak available

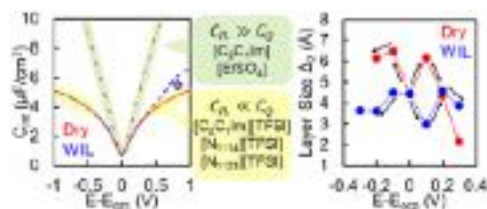
 Substances (20) Reactions (0) Citing (0)

317

Water in the Electrical Double Layer of Ionic Liquids on Graphene

By: Zheng, Qianlu; Goodwin, Zachary A. H. ; Gopalakrishnan, Varun; Hoane, Alexis G.; Han, Mengwei; Zhang, Ruixian; Hawthorne, Nathaniel; Batteas, James D. ; Gewirth, Andrew A. ; Espinosa-Marzal, Rosa M. 

ACS Nano (2023), 17(10), 9347-9360 | Language: English, Database: CAplus and MEDLINE

 Substances (6) Reactions (0) Citing (1)

318

Fluid dynamic bearing comprising lubricating oil composition containing base oil and ionic liquid, spindle motor comprising the same, and disk drive device equipped with spindle motor

By: Kitajima, Takuya; Hatcho, Jun; Sasaki, Yuto

World Intellectual Property Organization, WO2023090432 A1 2023-05-25 | Language: Japanese, Database: CPlus

PatentPak available

Substances (15)

Reactions (0)

Citing (0)

319

Poly(ionic liquids) composite for absorption and separation

By: Ran, Shaofeng; Shafer, Gregory J.

World Intellectual Property Organization, WO2023091369 A1 2023-05-25 | Language: English, Database: CPlus

PatentPak available

Substances (26)

Reactions (0)

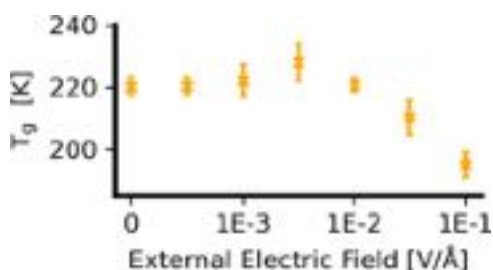
Citing (0)

320

Molecular Dynamics Simulation of the Influence of External Electric Fields on the Glass Transition Temperature of the Ionic Liquid 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide

By: Carmona Esteva, Fernando J. ; Zhang, Yong ; Colon, Yamil J.; Maginn, Edward J. 

Journal of Physical Chemistry B (2023), 127(20), 4623-4632 | Language: English, Database: CPlus and MEDLINE



Substance (1)

Reactions (0)

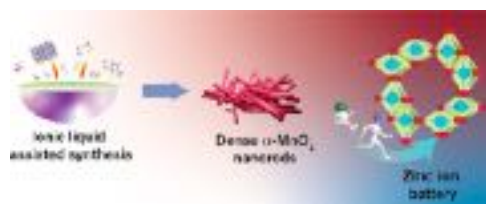
Citing (0)

321

Ionic-liquid-assisted synthesis of mixed-phase manganese oxide nanorods for a high-performance aqueous zinc-ion battery

By: Joshi, Ved Prakash; Kumar, Nitish; Pathak, Prakash Kumar; Tamboli, Mohaseen S.; Truong, Nguyen Tam Nguyen; Kim, Chang Duk; Kalubarme, Ramchandra S.; Salunkhe, Rahul R. 

ACS Applied Materials & Interfaces (2023), 15(20), 24366-24376 | Language: English, Database: CAPLUS and MEDLINE



 Substances (4)

 Reactions (0)

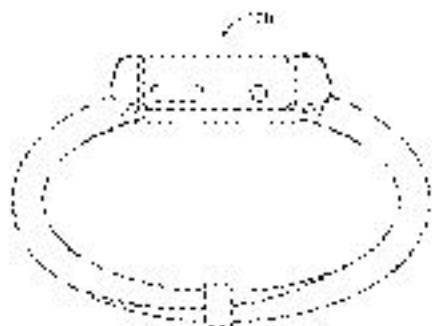
 Citing (1)

322

Stretchable electroconductive material, method for manufacturing the same, and device using the stretchable electroconductive material

By: Chung, Sheng-Feng; Huang, Chi-Fei

United States, US20230159749 A1 2023-05-25 | Language: English, Database: CAPLUS



PatentPak available

 Substances (10)

 Reactions (0)

 Citing (0)

323

Perylene Diimide (PDI) based Flexible Multifunctional Sensor Design for Personal Healthcare Monitoring- A Complementary Approach Involving Experimental and Theoretical Investigations

By: Adepu, Vivek ; Tathacharya, Manav ; Fernandes, Rikitha S. ; Tiwari, Aditya; Siraj, Sohel ; Kanungo, Sayan; Dey, Nilanjan; Sahatiya, Parikshit 

Advanced Materials Technologies (Weinheim, Germany) (2023), 8(10), 2201633 | Language: English, Database: CAPLUS

 Substances (10)

 Reactions (0)

 Citing (0)

324

A Z-scheme Heterojunctional Photocatalyst Engineered with Spatially Separated Dual Redox Sites for Selective CO₂ Reduction with Water: Insight by In situ μ s-transient Absorption Spectra

By: Sun, Ling; Zhang, Ziqing; Bian, Ji; Bai, Fuquan; Su, Hengwei; Li, Zhijun; Xie, Jijia; Xu, Rongping; Sun, Jianhui; Bai, Linlu; et al
Advanced Materials (Weinheim, Germany) (2023), 35(21), 2300064 | Language: English, Database: CAPplus and MEDLINE

 Substances (12) Reactions (0) Citing (0)

325

Preparation method of guanidine **ionic liquid** functionalized polycaprolactone for capillary gas chromatography column

By: Cai, Zhiqiang; Song, Yanli; Sun, Tao; Chen, Ruonan; Huang, Qiuchen; Pan, Yuyu; Ba, Mengyi; Li, Wen; Zhang, Yuanyuan; Liu, Haixin; et al
China, CN116144005 A 2023-05-23 | Language: Chinese, Database: CAPplus

PatentPak available Substances (74) Reactions (0) Citing (0)

326

Multifunctional American ginseng hydrolyzed peptide, preparation method and its application in the preparation of hypoglycemic drugs and antihypertensive drugs

By: Zhang, Xuanming; Liu, Kechun; Jin, Meng; Li, Xiaobin; Zhang, Yun; Tu, Pengfei; Zhang, Shanshan; Xia, Qing; Wang, Lizhen; Sheng, Wenlong; et al
World Intellectual Property Organization, WO2023088073 A1 2023-05-25 | Language: Chinese, Database: CAPplus

PatentPak available Substances (19) Reactions (0) Citing (0)

327

Method for preparing carbon monoxide by electrocatalytic reduction of carbon dioxide with in-situ electrodeposited cadmium-based catalyst/carbon paper cathode and **ionic liquid**-acetonitrile electrolyte

By: Yang, Dexin; Yang, Jie; Yang, Han; Zhang, Renjie; Zhou, Guangying
China, CN116145155 A 2023-05-23 | Language: Chinese, Database: CAPplus

PatentPak available Substances (23) Reactions (0) Citing (0)

328

Non-aqueous electrolyte storage element having lithium alloy

By: Ikeda, Takuo; Yamakaji, Masaki

Japan, JP2023071075 A 2023-05-22 | Language: Japanese, Database: CAplus

PatentPak available

Substances (9)

Reactions (0)

Citing (0)

329

Phosphonium **Ionic Liquid**-Activated Sulfur Vulcanization: A Way Forward to Reduce Zinc Oxide Levels in Industrial Rubber Formulations

By: Sattar, Mohammad Abdul ; Patnaik, Archita 

ChemSusChem (2023), 16(10), e202202309 | Language: English, Database: CAplus and MEDLINE

Substances (6)

Reactions (0)

Citing (0)

330

Self-Adhesive Self-Healing Thermochromic Ionogels for Smart Windows with Excellent Environmental and Mechanical Stability, Solar Modulation, and Antifogging Capabilities

By: Li, Bing; Xu, Fuchang; Guan, Tingting; Li, Yang ; Sun, Junqi

Advanced Materials (Weinheim, Germany) (2023), 35(20), 2211456 | Language: English, Database: CAplus and MEDLINE

Substances (6)

Reactions (0)

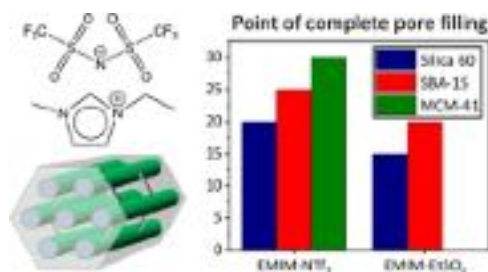
Citing (3)

331

Wetting Behavior and Support Interactions in Imidazolium-Based Supported **Ionic Liquid** Phase Materials-A Systematic Study by Solid-State Nuclear Magnetic Resonance Spectroscopy

By: Frosch, Matthias; Tavera Mendez, Cindy Ly ; Koch, Angela Barbara; Schoerner, Markus; Haumann, Marco ; Hartmann, Martin ; Wissner, Dorothea

Journal of Physical Chemistry C (2023), 127(19), 9196-9204 | Language: English, Database: CAplus



Substances (4)

Reactions (0)

Citing (0)

332

Thermodynamic model for CO₂ absorption in imidazolium-based **ionic liquids** using cubic plus association equation of state

By: Wang, Yiran; Huang, Shaoxuan; Liu, Xiangyang; He, Maogang
Journal of Molecular Liquids (2023), 378, 121587 | Language: English, Database: CAplus

 Substances (23) Reactions (0) Citing (0)

333

Electrical conductivity and refractive index of binary **ionic liquid** mixtures with diethyl carbonate, dimethyl carbonate and propylene carbonate

By: Wang, Jian; Gu, Wen; Chen, Xiao; Yang, Mengxiang; Chen, Jia; Zhao, Mingxing; Liu, Qing-Shan 
Journal of Molecular Liquids (2023), 378, 121598 | Language: English, Database: CAplus

 Substances (12) Reactions (4) Citing (1)

334

Ionic liquid enhanced catalytic layer for fuel cells and its preparation method

By: Xie, Jiaping; Zhu, Wei; Shang, Ziqi; Shen, Jun
China, CN116130679 A 2023-05-16 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (8) Reactions (0) Citing (0)

335

1-Methyl-4-R-1,2,4-triazolium (R = -CH₂CH₂OCH₃, -CH₂COOCH₂CH₃)-Based **Ionic Liquids** as Plasticizers for Solid Propellants

By: Liu, Long ; Bai, Jinhu; Su, Ze; Yao, Yuan; Zhou, Zhixiang; Xia, Yangfeng ; Zhang, Yanqiang 
ACS Omega (2023), 8(19), 16738-16747 | Language: English, Database: CAplus and MEDLINE

 Substances (13) Reactions (10) Citing (0)

336

Blended membranes with ionic liquids tailoring by hydroxyl group for efficient NH₃ separation

By: Jiang, Haiyan; Bai, Lu; Peng, Kuilin; Yuan, Lei; Zheng, Shuang; Zeng, Shaojuan; Luo, Shuangjiang; Zhang, Xiangping 
Journal of Membrane Science (2023), 674, 121480 | Language: English, Database: CAplus

 Substances (7) Reactions (0) Citing (1)

337

Transport properties and ionicity in allyl-/alkylether-based ILs and their binary systems with acetonitrile as the potential electrolytes: Correlation with interactions and structures

By: Wei, Jie; Liu, Jin; Sun, Ximan; Miao, Jialin; Fang, Dawei
Journal of Molecular Liquids (2023), 378, 121586 | Language: English, Database: CAplus

 Substances (11) Reactions (7) Citing (0)

338

Regulating robust interphase using a functional ionic liquid additive with bi-electrode affinity to stabilize the high-voltage lithium-rich lithium metals batteries

By: Huang, Jiaqi ; Zhang, Haitao; Yuan, Xuedi; Sha, Yifan; Li, Jin; Dong, Tao; Song, Yuting; Zhang, Suojiao 
Chemical Engineering Journal (Amsterdam, Netherlands) (2023), 464, 142578 | Language: English, Database: CAplus

 Substances (2) Reactions (0) Citing (1)

339

Aqueous solutions of chiral ionic liquids based on (-)-menthol: An experimental and computational study of volumetric and transport properties

By: Bendova, Magdalena; Heyda, Jan; Wagner, Zdenek; Feder-Kubis, Joanna; Polak, Jakub; Tankam, Theeranon; Sykorova, Adela
Journal of Molecular Liquids (2023), 378, 121591 | Language: English, Database: CAplus

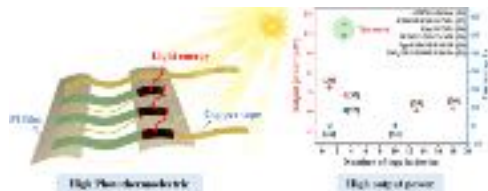
 Substances (5) Reactions (0) Citing (0)

340

Achieving free-standing PEDOT:PSS solar generators with efficient all-in-one photothermoelectric conversion

By: Tang, Xiao-Hong; Jin, Xin-Zheng; Zhang, Qi; Zhao, Qian; Yang, Zhen-Yu; Fu, Qiang 

ACS Applied Materials & Interfaces (2023), 15(19), 23286-23298 | Language: English, Database: CAPLUS and MEDLINE



 Substances (7)

 Reactions (0)

 Citing (0)

341

Performance analysis of ionic liquids for simultaneous cooling and heating absorption system

By: Park, Sejun; Choi, Hyung Won; Lee, Jae Won; Cho, Hyun Uk; Lee, Nam Soo; Kang, Yong Tae

Energy (Oxford, United Kingdom) (2023), 271, 127005 | Language: English, Database: CAPLUS

 Substances (8)

 Reactions (0)

 Citing (0)

342

Lithium metal anode material and preparation method and application thereof

By: Li, Xiang; Ding, Yufeng; Hu, Qiwei; Liu, Dechong; Yuan, Kai

China, CN116130632 A 2023-05-16 | Language: Chinese, Database: CAPLUS

PatentPak available

 Substances (16)

 Reactions (0)

 Citing (0)

343

Non-aqueous electrolyte storage device comprising lithium-based oxide anode and ionic liquid non-aqueous electrolyte

By: Mizuno, Yusuke; Yamakaji, Masaki; Ikeda, Takuo

Japan, JP2023066692 A 2023-05-16 | Language: Japanese, Database: CAPLUS

PatentPak available

 Substances (16)

 Reactions (0)

 Citing (0)

344

Method for efficiently synthesizing tetrahydrocurcumin catalyzed by cascade enzymes based on the NADPH cofactor cycle

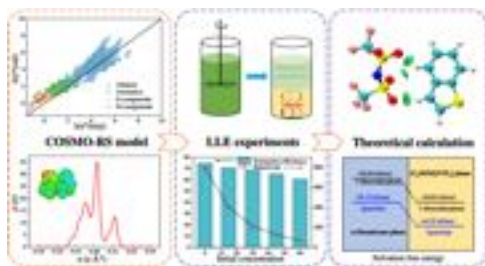
By: Fan, Lihai; Ma, Qian; Zheng, Lingjie; Guo, Qiang; Zheng, Huidong
China, CN116121308 A 2023-05-16 | Language: Chinese, Database: CAplus

 Substances (13) Reactions (0) Citing (0)

345

Investigation of **Ionic Liquids** as Extraction Solvents for Separating Bicyclic Aromatic S/N-Compounds from FCC Diesel

By: Liu, Qinghua; Gui, Chengmin; Li, Guoxuan ; Lei, Zhigang 
ACS Sustainable Chemistry & Engineering (2023), 11(19), 7573-7585 | Language: English, Database: CAplus

 Substances (33) Reactions (0) Citing (0)

346

Flexible electromagnetic absorber in X-band using a polymer electrolyte having mixed conduction

By: Anjana; Vyas, Manoj Kumar; Chandra, Amita 
Journal of Materials Research (2023), 38(9), 2422-2438 | Language: English, Database: CAplus

 Substances (5) Reactions (0) Citing (0)

347

Method for preparing gel polymer electrolyte membrane for lithium isotope separation

By: Sun, Jinhe; Wang, Ciming; Shao, Fei; Zhang, Pengrui; Zhao, Zhiyu; Jing, Yan; Jia, Yongzhong; Ju, Huiqun
China, CN116102751 A 2023-05-12 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (39) Reaction (1) Citing (0)

348

Multistage interfacial enrichment system and enrichment method of ^6Li isotope with high ^6Li enrichment efficiency

By: Sun, Jinhe; Ju, Huiqun; Zhang, Pengrui; Shao, Fei; Mao, Lianjing; Jing, Yan; Jia, Yongzhong; Wang, Ciming
China, CN116099359 A 2023-05-12 | Language: Chinese, Database: CAPlus

PatentPak available

 Substances (59)

 Reactions (0)

 Citing (0)

349

Preparation method of imidazole **ionic liquid** modified β -cyclodextrin composite nanofiltration membrane

By: Kong, Yazhou; Liu, Dayong; Ming, Xia; Zhang, Yan; Zheng, Lili; Yue, Yunxia; Kong, Xia; Liu, Yan; Guo, Zhenting; Hou, Jinghao
China, CN116099392 A 2023-05-12 | Language: Chinese, Database: CAPlus

PatentPak available

 Substances (15)

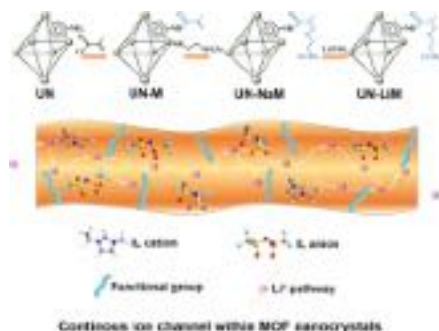
 Reactions (3)

 Citing (0)

350

A metal-organic framework based quasi-solid-state electrolyte enabling continuous ion transport for high-safety and high-energy-density lithium metal batteries

By: Wu, Zhendi; Yi, Yikun; Hai, Feng; Tian, Xiaolu; Zheng, Shentuo; Guo, Jingyu; Tang, Wei ; Hua, Weibo ; Li, Mingtao 
ACS Applied Materials & Interfaces (2023), 15(18), 22065-22074 | Language: English, Database: CAPlus and MEDLINE



 Substances (10)

 Reactions (0)

 Citing (1)

351

Molecular scale roughness effects on electric double layer structure in asymmetric **ionic liquids**

By: Khlyupin, Aleksey; Nesterova, Irina ; Gerke, Kirill
Electrochimica Acta (2023), 450, 142261 | Language: English, Database: CAPlus

 Substances (6)

 Reactions (0)

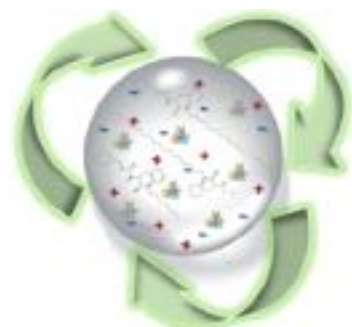
 Citing (0)

352

Supramolecular **Ionic Liquid** Gels for Enzyme Entrapment

By: Imam, Hasan T.; Hill, Kyle; Reid, Andrew; Mix, Stefan; Marr, Patricia C.; Marr, Andrew C.

ACS Sustainable Chemistry & Engineering (2023), 11(18), 6829-6837 | Language: English, Database: CAplus and MEDLINE



Substances (9)

Reactions (2)

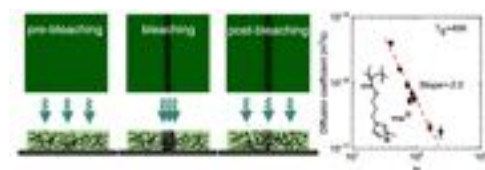
Citing (1)

353

Molecular-Weight Dependence of Center-of-Mass Chain Diffusion in Polymerized **Ionic Liquid** Melts

By: Lan, Peng; Zhao, Qiujiu ; Lv, Guangxin ; Sheridan, Grant S.; Cahill, David G. ; Evans, Christopher M.

Macromolecules (Washington, DC, United States) (2023), 56(9), 3383-3392 | Language: English, Database: CAplus



Substances (12)

Reactions (0)

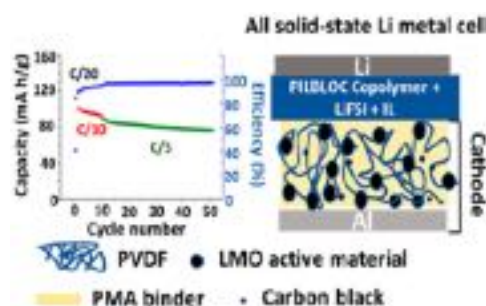
Citing (1)

354

Solid state Li metal/LMO batteries based on ternary triblock copolymers and **ionic** binders

By: Forsyth, Maria ; Makhlooghiazad, Faezeh ; Mendes, Tiago; Goujon, Nicolas; Malic, Nino; Postma, Almar ; Chiefari, John; Howlett, Patrick C.

ACS Applied Energy Materials (2023), 6(9), 5074-5080 | Language: English, Database: CAplus



Substances (13)

Reactions (0)

Citing (0)

355

Large-Scale and Controllable Syntheses of Covalently-Crosslinked Poly(ionic liquid) Nanoporous Membranes

By: Hu, Yingyi; Xu, Luyao; Zhang, Wangqing; Wang, Hong 

Angewandte Chemie, International Edition (2023), 62(20), e202302168 | Language: English, Database: CPlus and MEDLINE

 Substances (14)

 Reactions (6)

 Citing (0)

356

Preparation of water-soluble polyionic liquid for lithium-sulfur batteries

By: Fu, Daosong

China, CN116063601 A 2023-05-05 | Language: Chinese, Database: CPlus

PatentPak available

 Substances (38)

 Reactions (13)

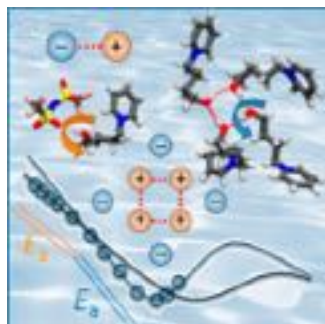
 Citing (0)

357

How Like-Charge Attraction Influences the Mobility of Cations in Hydroxyl-Functionalized Ionic Liquids

By: Khudozhnikov, Alexander E.; Paschek, Dietmar ; Stepanov, Alexander G. ; Kolokolov, Daniil I. ; Ludwig, Ralf 

Journal of Physical Chemistry Letters (2023), 14(17), 4019-4025 | Language: English, Database: CPlus and MEDLINE



 Substances (4)

 Reactions (0)

 Citing (0)

358

Catalytic Hydrogenation of CO₂ to Formate Using Ruthenium Nanoparticles Immobilized on Supported Ionic Liquid Phases

By: Louis Anandaraj, Savarithai Jenani ; Kang, Liqun; DeBeer, Serena; Bordet, Alexis ; Leitner, Walter 

Small (2023), 19(18), 2206806 | Language: English, Database: CPlus and MEDLINE

 Substances (31)

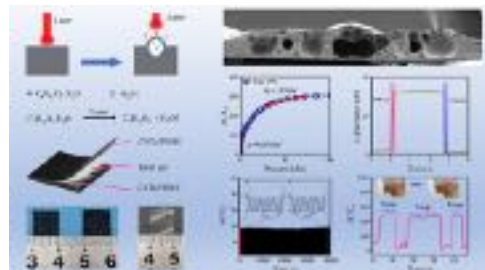
 Reactions (0)

 Citing (2)

359

One-Step Laser Direct-Printing Process of a Hybrid Microstructure for Highly Sensitive Flexible Piezocapacitive Sensors

By: Chen, Haobing; Guo, Dingyi; Lei, Xiao; Wu, Weiguang; Guo, Xuanqi; Li, Yunfan; Weng, Xiaohong; Liu, Sheng; Liu, Feng 
ACS Applied Materials & Interfaces (2023), 15(17), 21435-21443 | Language: English, Database: CAPlus and MEDLINE


 Substances (4)

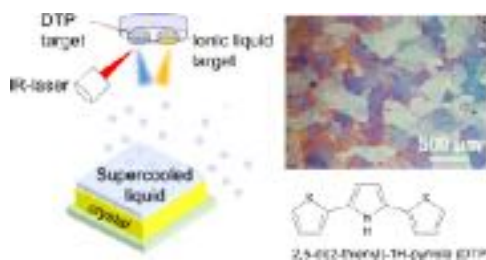
 Reactions (0)

 Citing (0)

360

Giant Grain Growth of 2,5-Di(2-thienyl)-1H-pyrrole Crystal Films: Kinetic Analysis of Self-Crystallization from Its Supercooled Liquid in Vacuum Deposition

By: Seta, Keiichiro; Maruyama, Shingo ; Koganezawa, Tomoyuki; Kaminaga, Kenichi; Matsumoto, Yuji 
Crystal Growth & Design (2023), 23(5), 3731-3739 | Language: English, Database: CAPlus


 Substances (4)

 Reactions (0)

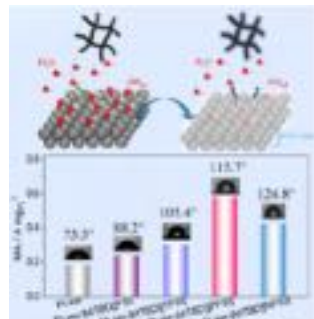
 Citing (0)

361

Surface hydrophobicity engineering of Pt-based noble metal aerogels by ionic liquids toward enhanced electrocatalytic oxygen reduction

By: Yuan, Hongxing; Gao, Wei ; Ye, Jianqi; Ma, Tuotuo; Ma, Fangyuan; Wen, Dan 

ACS Applied Materials & Interfaces (2023), 15(17), 21143-21151 | Language: English, Database: CAPLUS and MEDLINE



 Substances (11)

 Reactions (0)

 Citing (0)

362

Circulation reutilization method and device for preparing environmentally friendly rubber oil by ionic liquid solvent extraction

By: Lv, Zhen; Yang, Xinhua; Jiao, Zhen; Wang, Yanzhen; Li, Jing; Liu, Zhao

China, CN116064073 A 2023-05-05 | Language: Chinese, Database: CAPLUS

PatentPak available

 Substances (8)

 Reactions (0)

 Citing (0)

363

Method of limiting chemical degradation due to nitrogen dioxide contamination

By: Coultas, David Robert; Irving, Matthew David; Hollingsworth, Nathan; Greer, Adam; Hardacre, Christopher

United States, US20230139253 A1 2023-05-04 | Language: English, Database: CAPLUS

PatentPak available

 Substances (17)

 Reactions (0)

 Citing (0)

364

A Robust Dual-Polymer@Inorganic Networks Composite Polymer Electrolyte Toward Ultra-Long-Life and High-Voltage Li/Li-Rich Metal Battery

By: Yao, Meng; Ruan, Qinqin; Wang, Yangyang; Du, Liyu; Li, Qiongguang; Xu, Lv; Wang, Ruji; Zhang, Haitao 

Advanced Functional Materials (2023), 33(18), 2213702 | Language: English, Database: CAPLUS

 Substances (9)

 Reactions (0)

 Citing (2)

365

Method for preparing amino functionalized ionic liquid end-blocking modified polyimide gas separation membrane

By: Jia, Hongge; Zhao, Shijun; Jiang, Pengfei
China, CN116036895 A 2023-05-02 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (6)

 Reactions (0)

 Citing (0)

366

Temperature/photosensitive flexible electrochemical gel actuator and preparation and control method thereof

By: Hu, Hongwei; Zhang, Shengtao; Cheng, Guanggui; Ding, Jianning; Zhang, Zhongqiang
China, CN116039190 A 2023-05-02 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (7)

 Reactions (0)

 Citing (0)

367

Mixed matrix membrane containing soluble porous organic cage IL@CC3 for gas separation and preparation method thereof

By: Kang, Zixi; Yu, Liting; Fan, Lili; Wang, Rongming; Sun, Daofeng
China, CN116036897 A 2023-05-02 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (10)

 Reaction (1)

 Citing (0)

368

Cobalt Deposition from Ionothermally Dissolved Cobalt Oxides

By: Richter, Janine ; Pietsch, Tobias; Ruck, Michael 
ChemSusChem (2023), 16(9), e202300090 | Language: English, Database: CAplus and MEDLINE

 Substances (6)

 Reactions (0)

 Citing (0)

369

Mixing behavior of 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide and 1-Ethyl-3-methylimidazolium tetrafluoroborate binary ionic liquids mixtures

By: Jiang[†], Yuxin; Zhang[†], Xinyuan; Xu, Xianzhen; Gong, Shida; Wang, Zonghua; Zhou, Yu 
Chemical Physics (2023), 569, 111858 | Language: English, Database: CAplus

 Substances (2)

 Reactions (0)

 Citing (0)

370

Ionic liquids self-assembly preparation of binder-free composites anode with well-dispersed Si nanoparticles on CNTs networks for lithium-ion batteries

By: Wang, Jing; Zhao, Ruirui; Yang, Xiao; Zhang, Ruyi; Guo, Junli; Hao, Jian
Applied Surface Science (2023), 618, 156655 | Language: English, Database: CAplus

 Substances (3) Reactions (0) Citing (2)

371

Energy storage enhancement of $\text{Li}_x\text{Mn}_{1.8}\text{Ti}_{0.2}\text{O}_4$ @N-doped graphene oxide in organic and **ionic liquid** electrolytes

By: Mosquera, Nerly; Chauque, Susana ; Torresi, Roberto M. ; Calderon, Jorge A.
Electrochimica Acta (2023), 449, 142210 | Language: English, Database: CAplus

 Substances (9) Reactions (0) Citing (0)

372

Vat photopolymerization 3D printing of transparent, mechanically robust, and self-healing polyurethane elastomers for tailored wearable sensors

By: Peng, Shuqiang ; Thirunavukkarasu, Naveen; Chen, Jie; Zheng, Xinxin; Long, Chuanzhou; Huang, Xianmei; Weng, Zixiang; Zheng, Longhui ; Wang, Haopeng; Peng, Xiangfang; et al
Chemical Engineering Journal (Amsterdam, Netherlands) (2023), 463, 142312 | Language: English, Database: CAplus

 Substances (12) Reactions (3) Citing (5)

373

Extraction and separation of Li^+ from high-ratio Mg/Li salt lake brines by $[\text{C}_2\text{mim}][\text{NTf}_2]$ **ionic liquid** and a homemade extractor

By: Lu, Jiawei; Jiao, Limin; Chen, Jialiang; Zhang, Yilin; Guo, Qiqi; Yang, Yu; Lin, Mingzhang
Desalination (2023), 553, 116450 | Language: English, Database: CAplus

 Substances (10) Reactions (0) Citing (0)

374

Application of facilitated transfer mechanisms of SEBS/ $[\text{P}_{(14)666}][\text{TMPP}]$ composite membrane on CH_4/N_2 separation

By: Li, Dongze; Chen, Lei; Liu, Gang
Journal of Environmental Chemical Engineering (2023), 11(2), 109243 | Language: English, Database: CAplus

 Substances (32) Reactions (0) Citing (0)

375

Predicting the ionicity of ionic liquids in binary mixtures based on solubility data

By: Lopes, Catarina; Velho, Pedro; Macedo, Eugenia A. 

Fluid Phase Equilibria (2023), 567, 113717 | Language: English, Database: CAplus

 Substances (10)

 Reactions (0)

 Citing (3)

376

Ionic liquid modified carbon nanotubes doped gel polymer electrolyte for fast charging lithium metal batteries

By: Wang, Dongyun; Jin, Biyu; Chen, Sifan; Ren, Yongyuan; Hou, Yang; Gao, Xiang; He, Qinggang; Zhan, Xiaoli; Zhang, Qinghua 

Journal of Power Sources (2023), 564, 232847 | Language: English, Database: CAplus

 Substances (7)

 Reaction (1)

 Citing (2)

377

Sol-gel synthesis of nanostructured cobalt oxide in four different ionic liquids

By: Al Kiey, Sherief A.; Sery, Alaa A.; Farag, Hala K.

Journal of Sol-Gel Science and Technology (2023), 106(1), 37-43 | Language: English, Database: CAplus

 Substances (5)

 Reactions (0)

 Citing (0)

378

Preparation of porous Cu-rich CuNi electrodes via electrochemically dealloying in ionic liquid

By: Pan, Yu-Hsuan; Yu, Chia-Lin; Lee, Chien-Liang; Chen, Po-Yu 

Journal of the Chinese Chemical Society (Weinheim, Germany) (2023), 70(4), 909-919 | Language: English, Database: CAplus

 Substances (8)

 Reactions (0)

 Citing (0)

379

Thermodynamic and Artificial Intelligence Approaches of H₂S Solubility in Some Imidazolium-Based Ionic Liquids

By: Esfandiyari, Morteza; Salooki, Mahdi Koolivand; Shokouhi, Mohammad; Ahari, Jafar Sadeghzadeh; Fatourehchi, Niloufar

Journal of Solution Chemistry (2023), 52(4), 429-446 | Language: English, Database: CAplus

 Substances (18)

 Reactions (0)

 Citing (1)

380

An ultra-tough and super-stretchable ionogel with multi functions towards flexible iontronics

By: Zhan, Weiqing; Zhang, Haoqi; Lyu, Xiaolin; Luo, Zhong-Zhen; Yu, Yan; Zou, Zhigang
Science China Materials (2023), 66(4), 1539-1550 | Language: English, Database: CAplus

 Substances (2) Reactions (0) Citing (0)

381

Study on **ionic liquid**-based gel polymer electrolytes for dual-graphite battery systems

By: Zeng, Yong; Wang, Keliang; Ke, Xiang; Tan, Xiaoqing; Jiang, Bo; Zhu, Weichen; Xiao, Rengui
Ionics (2023), 29(4), 1381-1393 | Language: English, Database: CAplus

 Substances (4) Reactions (0) Citing (1)

382

Significant boosting effect of single atom Pt towards the ultrasonic generation of H₂O₂: A two-way catalytic mechanism

By: Yan, Wen; Sun, Jingxiang; Hu, Tao; Tian, Shuanghong; Feng, Jinxi; Xiong, Ya
Applied Catalysis, B: Environmental (2023), 323, 122143 | Language: English, Database: CAplus

 Substances (5) Reactions (0) Citing (1)

383

Highly Elastic, Healable, and Durable Anhydrous High-Temperature Proton Exchange Membranes Cross-Linked with Highly Dense Hydrogen Bonds

By: Wang, Wenjie; Tai, Guitian; Li, Yixuan ; Sun, Junqi
Macromolecular Rapid Communications (2023), 44(8), 2300007 | Language: English, Database: CAplus and MEDLINE

 Substances (5) Reactions (0) Citing (0)

384

Separation of CO₂ and H₂S from natural gas of iranian gas refinery using **ionic liquids**: Experimental measurements and thermodynamic modeling

By: Rezaeinejad, Ramesh; Sharif, Amir Abdollah Mehrdad; Shaahmadi, Fariborz
Korean Journal of Chemical Engineering (2023), 40(4), 925-934 | Language: English, Database: CAplus

 Substances (6) Reactions (0) Citing (0)

385

Organocatalyst in plastic depolymerization: discussion on their unique roles based on mechanistic studies

By: Kamimura, Akio

Shokubai (2023), 65(2), 96-101 | Language: Japanese, Database: CAplus

 Substances (24) Reactions (0) Citing (0)

386

Method for opening an electrochemical generator

By: Billy, Emmanuel; Porthault, Helene

World Intellectual Property Organization, WO2023067275 A1 2023-04-27 | Language: French, Database: CAplus

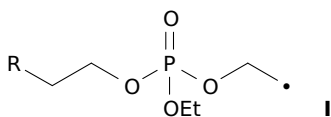
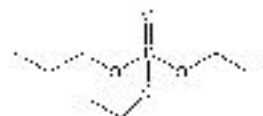
PatentPak available Substances (41) Reactions (0) Citing (0)

387

Ionic liquid, electrolyte for secondary battery including ionic liquid, and secondary battery including electrolyte

By: Lee, Jin Hong; Lee, Hong Won; Cho, In Haeng; Kim, Sung Jin

United States, US20230129153 A1 2023-04-27 | Language: English, Database: CAplus

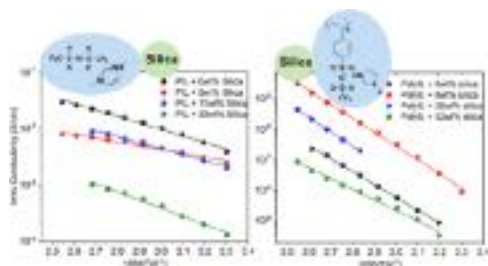
**PatentPak** available Substances (7) Reactions (0) Citing (0)

388

Effect of Fumed Silica on Ion Conduction in Proton-Conducting Nanocomposites

By: Huang, Gongyue ; Zhu, Haijin ; Porcarelli, Luca; Forsyth, Maria 

Journal of Physical Chemistry C (2023), 127(16), 7829-7836 | Language: English, Database: CAplus



 Substances (3)

 Reactions (0)

 Citing (0)

389

Ionic liquid modified high-strength electric conductive rubber and preparation method thereof

By: Quan, Haiyuan; Zhang, Juyin; Pan, Ronghui; Jin, Wenfei; Liu, Yanan; Yi, Rong; Zhou, Sheng

China, CN116023722 A 2023-04-28 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (38)

 Reactions (0)

 Citing (0)

390

Direct extraction of platinum nanoparticles from fuel cells with ionic liquids: Part 1. implementation and optimization of the process parameters

By: Coudray, M.; Billy, E. ; Mendil-Jakani, H.; Haumesser, P.-H. ; Santini, C. C. ; Dufaud, V. 

Industrial & Engineering Chemistry Research (2023), 62(16), 6355-6366 | Language: English, Database: CAplus



 Substances (16)

 Reactions (0)

 Citing (0)

391

Gel-gel complex, gel-gel actuator, the method for manufacturing of the complex

By: Kashimura, Yoshiaki; Furukawa, Kazuaki

Japan, JP2023058928 A 2023-04-26 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (2)

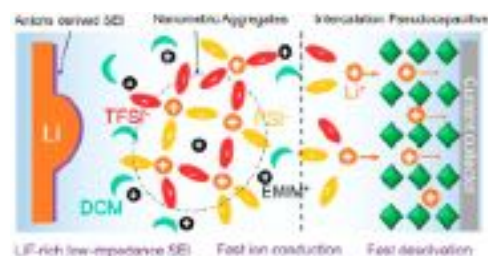
 Reactions (0)

 Citing (0)

392

Achieving Rapid Ultralow-Temperature Ion Transfer via Constructing Lithium-Anion Nanometric Aggregates to Eliminate Li^+ -Dipole Interactions

By: Zheng, Yiwei; Ji, Haoqing ; Qian, Tao ; Li, Sijie; Liu, Jie ; Zhou, Jinqiu ; Wang, Zhenkang; Li, Yufei; Yan, Chenglin 
 Nano Letters (2023), 23(8), 3181-3188 | Language: English, Database: CAPlus and MEDLINE


 Substances (7)

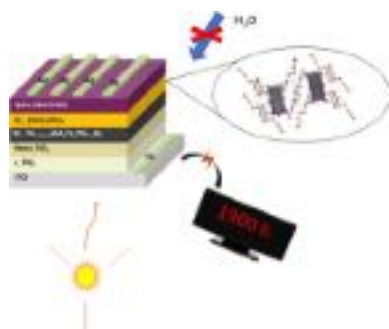
 Reactions (0)

 Citing (1)

393

3D/1D Architecture Using a 1-Hexyl-3-methylimidazolium Lead Triiodide Interlayer for Robust and Highly Performing Perovskite Solar Cells

By: Christopoulos, Eleftherios ; Elsenety, Mohamed M. ; Kaltzoglou, Andreas ; Stoumpos, Constantinos C. ; Gaboardi, Mattia; Plaisier, Jasper R. ; Tsiapas, Polychronis ; Stathatos, Elias ; Vitoratos, Evangelos G.; Dimoulas, Athanasios ; et al
 ACS Applied Electronic Materials (2023), 5(4), 2093-2105 | Language: English, Database: CAPlus


 Substances (13)

 Reactions (0)

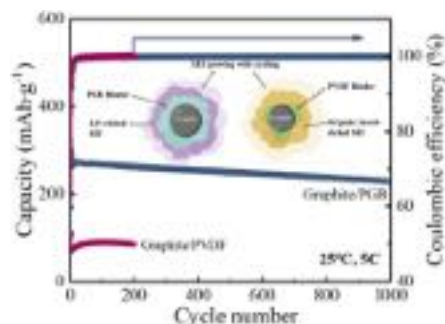
 Citing (1)

394

Graphite Anode Functionalized with a Gel Biopolymer Binder for Li-Ion Batteries Operating in a Broad Temperature Range

By: Ding, Ling; Bagul, Pratik; Cui, Liyao; Oswald, Steffen ; Pohle, Bjoern; Leones, Rita ; Mikhailova, Daria 

ACS Applied Energy Materials (2023), 6(8), 4404-4412 | Language: English, Database: CAPLUS



 Substances (6)

 Reactions (0)

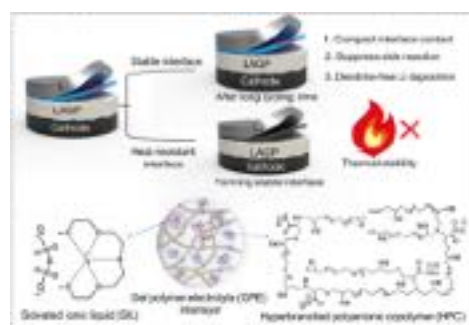
 Citing (0)

395

Stable Li|LAGP Interface Enabled by Confining Solvate **Ionic Liquid** in a Hyperbranched Polyanionic Copolymer for NASICON-Based Solid-State Batteries

By: Lei, Wenya; Zhang, Chaofan; Qiao, Rui; Ravivarma, Mahalingam; Chen, Haixia; Ajdari, Farshad Boorboor; Salavati-Niasari, Masoud ; Song, Jiangxuan 

ACS Applied Energy Materials (2023), 6(8), 4363-4371 | Language: English, Database: CAPLUS



 Substances (7)

 Reactions (0)

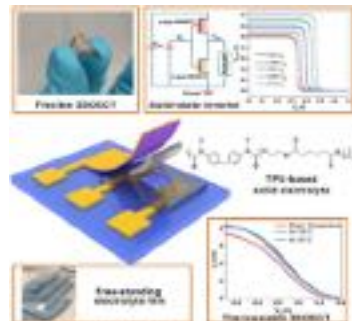
 Citing (1)

396

High Performance, Flexible, and Thermally Stable All-Solid-State Organic Electrochemical Transistor Based on Thermoplastic Polyurethane Ion Gel

By: Hou, Kunqi; Chen, Shuai; Moudgil, Akshay ; Wu, Xihu; Tam, Teck Lip Dexter ; Lew, Wen Siang ; Leong, Wei Lin 

ACS Applied Electronic Materials (2023), 5(4), 2215-2226 | Language: English, Database: CAplus



 Substances (12)

 Reactions (0)

 Citing (2)

397

Polyimidazole-based electrolyte with self-healing function and its preparation method

By: Zhang, Yongqi; Liao, Haiyang; Xia, Xinhui; Zhou, Liujiang

China, CN116014254 A 2023-04-25 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (20)

 Reactions (0)

 Citing (0)

398

Process of opening of an electrochemical generator

By: Billy, Emmanuel; Porthault, Helene

France, FR3128144 A1 2023-04-21 | Language: French, Database: CAplus

PatentPak available

 Substances (41)

 Reactions (0)

 Citing (0)

399

Hydrodynamic interactions in ion transport - Theory and simulation

By: Diddens, Diddo ; Heuer, Andreas 

Journal of Chemical Physics (2023), 158(15), 154112 | Language: English, Database: CAplus and MEDLINE

 Substances (5)

 Reactions (0)

 Citing (0)

400

Ultraflexible tattoo electrodes for epidermal and in vivo electrophysiological recording

By: Wei, Binbin; Wang, Zitian; Guo, Haotian; Xie, Fei; Cheng, Simin; Lou, Zirui; Zhou, Changjie; Ji, Hongjun; Zhang, Min; Wang, Xiaohao; et al

Cell Reports Physical Science (2023), 4(4), 101335 | Language: English, Database: CAplus

 Substances (5)

 Reactions (0)

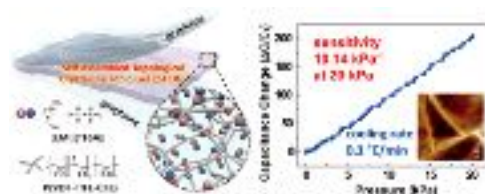
 Citing (0)

401

Transparent and Flexible Graphene Pressure Sensor with Self-Assembled Topological Crystalline **Ionic** Gel

By: Kim, Kang Lib; Cho, Sung Hwan; Lee, Jae-Bok; Kim, Gwangmook; Lee, Kyuho; Lee, Seung Won; Kang, Han Sol; Park, Chanho; Ahn, Jong-Hyun ; Shim, Wooyoung ; et al

ACS Applied Materials & Interfaces (2023), 15(15), 19319-19329 | Language: English, Database: CAplus and MEDLINE



 Substances (3)

 Reactions (0)

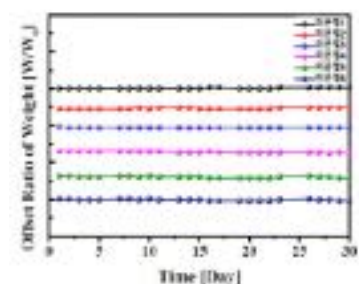
 Citing (1)

402

Poly(butyl acrylate)-based electrochromic element composition having light transmissibility and elasticity

By: Bae, Jin U; Oh, Seung Ju

Korea, Republic of, KR2023053123 A 2023-04-21 | Language: Korean, Database: CAplus



PatentPak available

 Substances (8)

 Reactions (0)

 Citing (0)

403

Poly(butyl acrylate)-based electrochromic element composition having light transmissibility and elasticity

By: Bae, Jin Woo; Oh, Seung Ju

World Intellectual Property Organization, WO2023063491 A1 2023-04-20 | Language: Korean, Database: CAPLUS

PatentPak available

Substances (8)

Reactions (0)

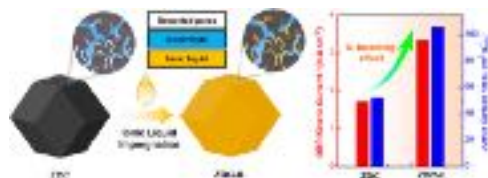
Citing (0)

404

Increasing Accessible Active Site Density of Non-Precious Metal Oxygen Reduction Reaction Catalysts through Ionic Liquid Modification

By: Zhang, Gui-Rong ; Yong, Cong; Shen, Liu-Liu; Yu, Hui; Kai, Brunnengraber; Imhof, Timo ; Mei, Donghai ; Etzold, Bastian J. M. 

ACS Applied Materials & Interfaces (2023), 15(15), 18781-18789 | Language: English, Database: CAPLUS and MEDLINE



Substances (11)

Reactions (0)

Citing (1)

405

Non-aqueous electrolytic solution, non-aqueous electrolyte battery and compound

By: Nakahara, Keita; Shimizu, Genki; Morinaka, Takayoshi

World Intellectual Property Organization, WO2023063317 A1 2023-04-20 | Language: Japanese, Database: CAPLUS

PatentPak available

Substances (93)

Reactions (3)

Citing (0)

406

Fabrication of polyamide membranes by interlayer-assisted interfacial polymerization method with enhanced organic solvent nanofiltration performance

By: Hong, Yiping; Hua, Dan; Pan, Junyang; Cheng, Xi; Xu, Kaiji; Huo, Zhaomei; Zhan, Guowu

Colloids and Surfaces, A: Physicochemical and Engineering Aspects (2023), 663, 131075 | Language: English, Database: CAPLUS

Substances (22)

Reaction (1)

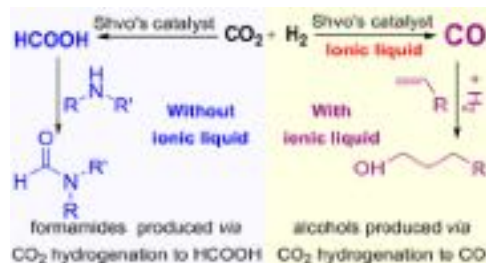
Citing (3)

407

Shvo-Catalyzed Hydrogenation of CO₂ in the Presence or Absence of **Ionic Liquids** for Tandem Reactions

By: Chen, Qiongyao; Kang, Xingsi; Zhang, Xuehua; Cao, Yanwei; He, Lin 

Journal of Organic Chemistry (2023), 88(8), 5044-5051 | Language: English, Database: CAPlus and MEDLINE



 Substances (77)

 Reactions (25)

 Citing (1)

408

Method for preparing high-valent nickel catalyst for hydrochlorination of acetylene

By: Zhao, Jia; Wang, Saisai

China, CN115974936 A 2023-04-18 | Language: Chinese, Database: CAPlus

PatentPak available

 Substances (24)

 Reactions (4)

 Citing (0)

409

Mixed matrix membrane for gas separation and preparation method thereof

By: Yu, Guipeng; Yu, Yushi; Tang, Juntao; Pan, Chunyue

China, CN115970524 A 2023-04-18 | Language: Chinese, Database: CAPlus

PatentPak available

 Substances (15)

 Reactions (3)

 Citing (0)

410

Peony flower extract and preparation method of peony flower fiber

By: Jiang, Kun; Li, Dongjin

China, CN115976113 A 2023-04-18 | Language: Chinese, Database: CAPlus

PatentPak available

 Substances (9)

 Reactions (0)

 Citing (0)

411

Ionic liquid-containing antistatic agent for PVC materials and preparation method thereof

By: Meng, Fangang

China, CN115975256 A 2023-04-18 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (22) Reactions (0) Citing (0)

412

Long-term stable solid concentrated graphene dispersion assisted by a highly aromatic **ionic liquid**

By: Aldroubi, Soha; Anglaret, Eric; Bou Malham, Ibrahim; Hesemann, Peter; Brun, Nicolas; Mehdi, Ahmad

Journal of Colloid and Interface Science (2023), 636, 668-676 | Language: English, Database: CAplus and MEDLINE

 Substances (14) Reactions (0) Citing (0)

413

How to rationally screen refrigerant/**ionic liquids** for thermal cooling: A multi-criteria approach based on machine learningBy: Sui, Yunren; Zhai, Chong ; Lin, Haosheng; Wu, Wei 

Energy Conversion and Management (2023), 282, 116853 | Language: English, Database: CAplus

 Substances (22) Reactions (0) Citing (2)

414

Effect of isopropyl side chain branching and different anions on electronic structure, vibrational spectra, and hydrogen bonding of isopropyl-imidazolium-based **ionic liquids**: Experimental and theoretical investigationsBy: Haddad, Boumediene; Pandey, Deepak K.; Singh, Dheeraj K.; Paolone, Annalisa; Draï, Mokhtar; Villemin, Didier; Bresson, Serge
Spectrochimica Acta, Part A: Molecular and Biomolecular Spectroscopy (2023), 291, 122325 | Language: English, Database: CAplus and MEDLINE Substances (12) Reactions (14) Citing (0)

415

Novel class of crown ether functionalized **ionic liquids** with multiple binding sites for efficient separation of lithium isotopes

By: Cui, Li; Fan, Yuheng; Kang, Jin; Yin, Caixia; Ding, Weilu; He, Hongyan; Cheng, Fangqin

Journal of Molecular Liquids (2023), 376, 121412 | Language: English, Database: CAplus

 Substances (15) Reactions (18) Citing (0)

416

Ionic Liquid Electrolyte with Weak Solvating Molecule Regulation for Stable Li Deposition in High-Performance Li-O₂ BatteriesBy: Cai, Yichao; Hou, Yunpeng; Lu, Yong; Zhang, Qiu; Yan, Zhenhua; Chen, Jun 

Angewandte Chemie, International Edition (2023), 62(17), e202218014 | Language: English, Database: CPlus and MEDLINE

 Substances (9) Reactions (0) Citing (1)

417

Fabrication of new proton conducting membrane for fuel cell applications based on porous polyimide Matrimid and hydrophobic protic **ionic liquid**By: Rogalsky, Sergiy ; Tarasyuk, Oksana; Babkina, Natalia; Makhno, Stanislav; Pertko, Olexandra; Povazhnyi, Volodymyr; Cherniavska, Tetiana; Fatyeyeva, Kateryna

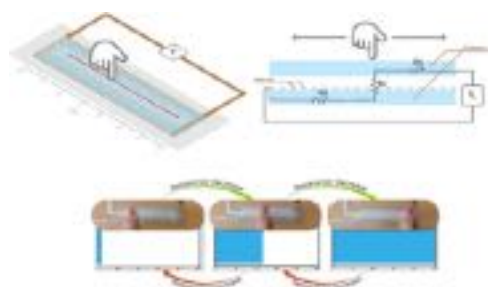
Journal of Applied Polymer Science (2023), 140(15), e53731 | Language: English, Database: CPlus

 Substances (6) Reaction (1) Citing (0)

418

Sustainable Collagen Blends with Different **Ionic Liquids** for Resistive Touch Sensing ApplicationsBy: Andonegi, Mireia; Correia, Daniela; Pereira, Nelson; Salado, Manuel; Costa, Carlos M. ; Lanceros-Mendez, Senentxu ; de la Caba, Koro ; Guerrero, Pedro 

ACS Sustainable Chemistry & Engineering (2023), 11(15), 5986-5998 | Language: English, Database: CPlus and MEDLINE

 Substances (4) Reactions (0) Citing (1)

419

2D-2D heterostructure of **ionic liquid**-exfoliated MoS₂/MXene as lithium polysulfide barrier for Li-S batteries

By: Xie, Fangwei; Xu, Chunjie; Song, Yaochen; Liang, Qi; Ji, Jinjie; Wang, Sizhe

Journal of Colloid and Interface Science (2023), 636, 528-536 | Language: English, Database: CPlus and MEDLINE

 Substances (8) Reactions (0) Citing (3)

420

Prominently improved CO₂/N₂ separation efficiency by ultrathin-**ionic-liquid**-covered MXene membrane

By: Xu, Peng; Zhang, Xiaochun; Zhao, Linlin; Wang, Zhenlei; Liu, Yawei; Bai, Lu; Liu, Zhiping
Separation and Purification Technology (2023), 311, 123296 | Language: English, Database: CAPLUS

[Substances \(4\)](#)[Reactions \(0\)](#)[Citing \(2\)](#)

421

Squid-inspired photonic-**ionic** skin with anti-freezing, drying-tolerance, and antibacterial abilities for wirelessly interactive multi-sensing

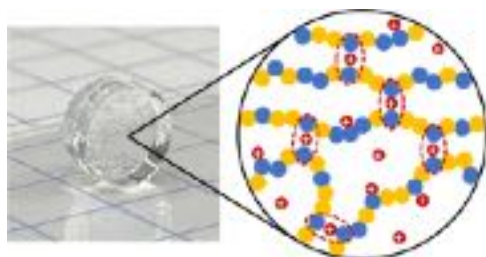
By: Wang, Yunpeng; Zhang, Huimin; Zhang, Shufen; Niu, Wenbin
Chemical Engineering Journal (Amsterdam, Netherlands) (2023), 462, 142290 | Language: English, Database: CAPLUS

[Substances \(5\)](#)[Reactions \(0\)](#)[Citing \(0\)](#)

422

Ionogel Electrolytes Supported by Zwitterionic Copolymers Featuring Lithium Ion-Mediated, Noncovalent Cross-Links

By: Wieck, Karl W. ; Panzer, Matthew J. 
ACS Applied Polymer Materials (2023), 5(4), 2887-2894 | Language: English, Database: CAPLUS

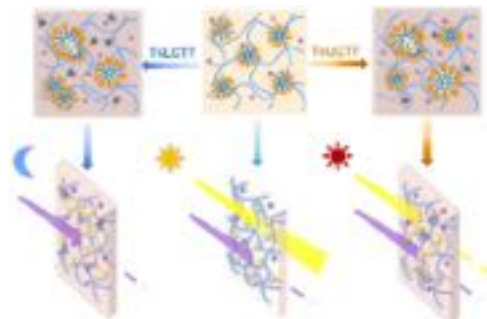
[Substances \(5\)](#)[Reaction \(1\)](#)[Citing \(0\)](#)

423

Integrated Thermoelectric Design Inspired by **Ionic Liquid** Microemulsion-Based Gel with Regulatable Dual-Temperature Responsiveness

By: Qian, Yuzhen; Chai, Chunxiao; Qi, Ping; Ma, Lin; Hao, Jingcheng 

ACS Applied Polymer Materials (2023), 5(4), 2983-2994 | Language: English, Database: CAplus



 Substances (12)

 Reactions (0)

 Citing (1)

424

Preparation of thin-wall antistatic anti-combustion light diffusion PC material

By: Xu, Sheng; Liao, Hang; Liu, Shuyang; Lu, Tichao

China, CN115960450 A 2023-04-14 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (8)

 Reactions (0)

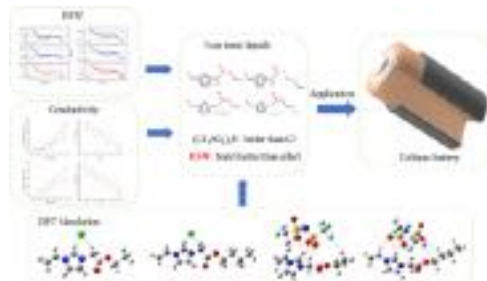
 Citing (0)

425

Experimental and DFT Studies on Electrochemical Performances of Ester-Containing Vinylimidazolium **Ionic Liquids**: Effect of the Ester Substituent and Anion

By: Deng, Yupei; Li, Fahui; Shen, Yiyue; Jiang, Qianwen; Ouyang, Mai; Fu, Zhenhao; Du, Huajin; Chen, Zeyu; Wang, Guowei  ; Zhuang, Linghua

Journal of Chemical & Engineering Data (2023), 68(4), 835-847 | Language: English, Database: CAplus



 Substances (5)

 Reactions (0)

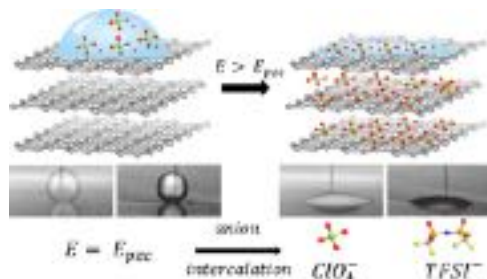
 Citing (0)

426

Anion intercalation into graphite drives surface wetting

By: Papaderakis, Athanasios A. ; Ejigu, Andinet ; Yang, Jing; Elgendy, Amr; Radha, Boya; Keerthi, Ashok ; Juel, Anne; Dryfe, Robert A. W. 

Journal of the American Chemical Society (2023), 145(14), 8007-8020 | Language: English, Database: CAlplus and MEDLINE



 Substances (5)

 Reactions (0)

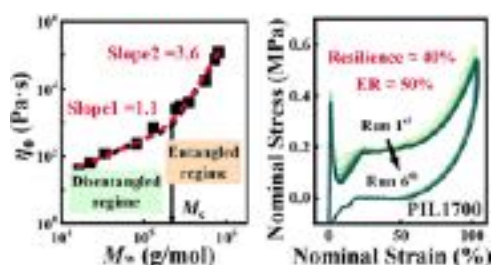
 Citing (2)

427

Influence of Chain Entanglement on Rheological and Mechanical Behaviors of Polymerized **Ionic Liquids**

By: Liu, Gang; Larson, Ronald G. ; Li, Lei; Luo, Huan; He, Xi; Niu, Yanhua ; Li, Guangxian

Macromolecules (Washington, DC, United States) (2023), 56(7), 2719-2728 | Language: English, Database: CAlplus



 Substances (10)

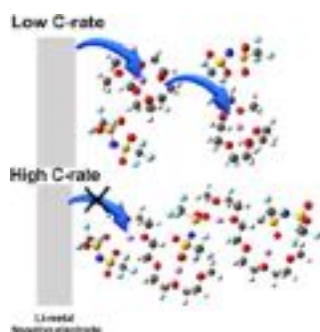
 Reactions (3)

 Citing (0)

428

Discharge behavior within lithium-sulfur batteries using Li-glyme solvate **ionic liquids**

By: Watanabe, Hikari  ; Sugiura, Yuto; Seki, Shiro  ; Han, Jihae; Shitanda, Isao  ; Itagaki, Masayuki; Umebayashi, Yasuhiro 
Journal of Physical Chemistry C (2023), 127(14), 6645-6654 | Language: English, Database: CAPlus


 Substances (3)

 Reactions (0)

 Citing (0)

429

A Transient Pseudo-Capacitor Using a Bioderived **Ionic Liquid** with Na Ions

By: Yamada, Shunsuke 
Small (2023), 19(15), 2205598 | Language: English, Database: CAPlus and MEDLINE

 Substances (17)

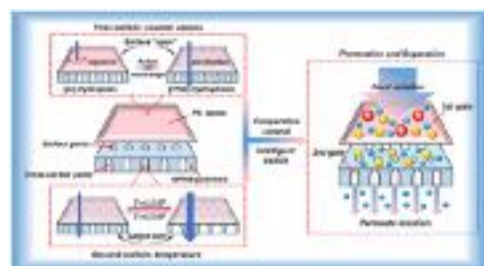
 Reactions (0)

 Citing (1)

430

Programming a Dual-Responsive Switch in Both the Surface and Interior of an Asymmetric Separation Membrane

By: Wei, Ran; Xiang, Hongyu; Xie, Mingdong; Chen, Guijing; Zhang, Xiang; Zhao, Changsheng 
Industrial & Engineering Chemistry Research (2023), 62(14), 5962-5972 | Language: English, Database: CAPlus


 Substances (14)

 Reaction (1)

 Citing (0)

431

Preparation method of SEBS of ionic liquid-ruthenium/rhodium series phosphine catalytic hydrogenation

By: Tong, Haohan; Lu, Tichao; Liu, Shuyang; Zhou, Xiaomei; Yao, Wei
China, CN115947880 A 2023-04-11 | Language: Chinese, Database: CAplus

PatentPak available

Substances (12)

Reactions (0)

Citing (0)

432

Critical Properties of Ternary Deep Eutectic Solvents Using Group Contribution with Extended Lee-Kesler Mixing Rules

By: Boublia, Abir ; Lemaoui, Tarek ; Almustafa, Ghaiath; Darwish, Ahmad S.; Benguerba, Yacine ; Banat, Fawzi ; AlNashef, Inas M. 
ACS Omega (2023), 8(14), 13177-13191 | Language: English, Database: CAplus and MEDLINE



Substances (175)

Reactions (0)

Citing (0)

433

Preparation method of hydrophobic thermal insulation PMI foam

By: Li, Kedi; Xu, Shiyu; Xu, Kexin
China, CN115947971 A 2023-04-11 | Language: Chinese, Database: CAplus

PatentPak available

Substances (32)

Reactions (0)

Citing (0)

434

A high-temperature high-pressure supercapacitor based on ionic liquids for harsh environment applications

By: Zaccagnini, Pietro ; Serrapede, Mara; Armandi, Marco; Bianco, Stefano; Carminati, Stefano; Zampato, Massimo; Melis, Gianluca; Pirri, Candido Fabrizio; Lamberti, Andrea
Electrochimica Acta (2023), 447, 142124 | Language: English, Database: CAplus

Substances (4)

Reactions (0)

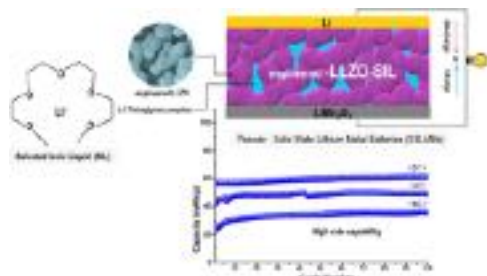
Citing (1)

435

Engineered $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ (LLZO) for Pseudo-Solid-State Lithium Metal Batteries (SSLMBs): Tailor-Made Synthesis, Evolution of the Microstructure, Suppression of Dendritic Growth, and Enhanced Electrochemical Performance

By: Ghosh, Kuntal ; Wasim Raja, Mir 

ACS Applied Energy Materials (2023), 6(7), 4035-4052 | Language: English, Database: CAplus

 Substances (9) Reactions (0) Citing (0)

436

Dual passivation effects of ionic liquids enable efficient and stable perovskite solar cells

By: Ye, Xiaofang; Cai, Hongkun ; Xu, Tie; Ni, Jian; Zhang, Jianjun

Journal of Chemical Physics (2023), 158(13), 134706 | Language: English, Database: CAplus and MEDLINE

 Substances (11) Reactions (0) Citing (0)

437

Molded product with excellent durability and manufacturing method thereof

By: Shimanaka, Hiroyuki; Tagi, Yoichi; Sato, Hirotaka; Tanishima, Miho; Shoji, Takumi; Tsujii, Yoshinobu; Matsukawa, Kimihiro
Japan, JP2023047807 A 2023-04-06 | Language: Japanese, Database: CAplus**PatentPak** available Substances (25) Reactions (15) Citing (0)

438

Preparation method of platinum electrode with high catalytic hydrogen evolution activity for hydrogen preparation by water electrolysis

By: Jing, Hua; Gu, Wen

China, CN115896805 A 2023-04-04 | Language: Chinese, Database: CAplus

PatentPak available Substances (11) Reactions (0) Citing (0)

“Citing (0)

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“Citing (0)

444

Anti-swelling adhesion ion gel and preparation method thereof

By: Xu, Xiaofeng; Wang, Shuxue

China, CN115894793 A 2023-04-04 | Language: Chinese, Database: CAplus

PatentPak available Substances (25) Reaction (1) Citing (0)

445

Highly Stretchable and **Ionically** Conductive Membranes with Semi-Interpenetrating Network Architecture for Truly All-Solid-State Microactuators and Microsensors

By: Braz Ribeiro, Frederic; Ni, Bin; Nguyen, Giao T. M.; Cattan, Eric; Shaplov, Alexander S.; Vidal, Frederic; Plesse, Cedric 

Advanced Materials Interfaces (2023), 10(10), 2202381 | Language: English, Database: CAplus

 Substances (13) Reactions (3) Citing (0)

446

The Preparation of Novel Amino Acid Imidazole **Ionic Liquids** and Their Application as Stationary Phase for Capillary Gas Chromatographic Separations

By: Wu, Weilong ; Ba, Mengyi; Zhang, Wei; Zhang, Huike; Zhao, Niu; Liu, Yiyi; Wang, Xinxin; Cai, Zhiqiang; Sun, Tao

ChemistrySelect (2023), 8(13), e202204289 | Language: English, Database: CAplus

 Substances (85) Reactions (0) Citing (0)

447

Single-ion conductive solid polymer electrolyte and preparation method thereof

By: Chen, Yongsheng; Zhang, Jinping; Zhang, Hongtao; Zhu, Jie

China, CN115894803 A 2023-04-04 | Language: Chinese, Database: CAplus

PatentPak available Substances (34) Reactions (6) Citing (0)

448

Facilitated solvent screening for membrane-based extraction of chiral amines via a priori simulations

By: Van Eygen, Gilles; Marien, Daan; Vananroye, Anja; Clasen, Christian ; Van der Bruggen, Bart; Buekenhoudt, Anita; Coutinho, Joao A. P.; Luis, Patricia

Journal of Molecular Liquids (2023), 375, 121351 | Language: English, Database: CAplus

 Substances (10) Reactions (0) Citing (0)

449

Modeling solubility of oxygen in ionic liquids: Chemical structure-based Machine Learning Systems Compared to Equations of State

By: Nakhaei-Kohani, Reza; Atashrouz, Saeid; Hadavimoghaddam, Fahimeh; Abedi, Ali; Jabbour, Karam; Hemmati-Sarapardeh, Abdolhossein; Mohaddespour, Ahmad
Fluid Phase Equilibria (2023), 566, 113630 | Language: English, Database: CAplus

 Substances (34) Reactions (0) Citing (0)

450

1,8-diazabicyclo [5.4.0] undecano-7-ene functionalized ionic liquids for extractive desulfurization of fuels

By: Zhao, Pingping; Wang, Xiaoxin; Wang, Qiang ; Zhang, Lianzheng; Xu, Dongmei; Gao, Jun 
Journal of Chemical Technology and Biotechnology (2023), 98(3), 782-788 | Language: English, Database: CAplus

 Substances (12) Reactions (0) Citing (0)

451

Ionic liquid modified anion exchange membrane catalyst for water electrolysis and its preparation method

By: An, Yongxin; Yang, Yisheng; Zhang, Baochun; Cao, Ju; Li, Simiao
China, CN115874194 A 2023-03-31 | Language: Chinese, Database: CAplus

PatentPak available Substances (9) Reactions (0) Citing (0)

452

Conjugated Poly(ionic liquid)-Based Nanoporous Membrane for Rapid Moisture Response

By: Zhang, Ya-Jun; Wu, Hao; Tan, Liang-Xiao; Wei, Yi; Ren, Ju-Jie; Li, Ya-Juan; Yu, Xu-Dong; Sun, Jian-Ke 
Macromolecular Rapid Communications (2023), 44(6), 2200846 | Language: English, Database: CAplus and MEDLINE

 Substances (6) Reactions (5) Citing (1)

453

Dual-effect-assisted crosslinkable poly(N-allyl-vinylimidazolium) ·TFSI⁻ as alternative electrode binder of lithium-ion battery

By: Park, Hui Gyeong; Son, Yoon Kook; Kim, Jiseong; Lee, Jung-Soo
Korean Journal of Chemical Engineering (2023), 40(3), 504-511 | Language: English, Database: CAplus

 Substances (4) Reactions (0) Citing (0)

454

Improvement of the self-assembly of low χ ABA triblock copolymers with the addition of an ionic liquid

By: Guliyeva, Aynur; Pung, Helene; Tence-Girault, Sylvie; Rebillat, Marc; Serghei, Anatoli; Gervais, Matthieu; Sollogoub, Cyrille; Roland, Sebastien 

Polymer International (2023), 72(3), 356-365 | Language: English, Database: CPlus

 Substances (2) Reactions (0) Citing (0)

455

An ordered, self-assembled nanocomposite with efficient electronic and ionic transport

By: Quill, Tyler J. ; LeCroy, Garrett; Halat, David M.; Sheelamanthula, Rajendar; Marks, Adam; Grundy, Lorena S.; McCulloch, Iain ; Reimer, Jeffrey A.; Balsara, Nitash P.; Giovannitti, Alexander ; et al

Nature Materials (2023), 22(3), 362-368 | Language: English, Database: CPlus and MEDLINE

 Substances (2) Reactions (0) Citing (2)

456

A thermally crosslinked ion-gel gated artificial synapse

By: Liu, Yiwen; Wang, Yongfei; Li, Xiao; Hu, Zhizhi

Chinese Chemical Letters (2023), 34(3), 107842 | Language: English, Database: CPlus

 Substances (3) Reactions (0) Citing (0)

457

Conductivity maxima in electrolyte-gated transistors with molecular-doped semiconducting polymer films

By: Lee, Ju Han; Chang, Dong Wook ; Kim, Junghwan; Lee, Jiyoul 

Journal of the Korean Physical Society (2023), 82(5), 491-496 | Language: English, Database: CPlus

 Substances (4) Reactions (0) Citing (0)

458

Interfaces between oxides and ionic liquid investigated by vacuum electrochemistry approach

By: Matsumoto, Yuji

Hyomen to Shinku (2023), 66(3), 176-181 | Language: Japanese, Database: CPlus

 Substances (10) Reactions (0) Citing (0)

459

High ceramic content composite solid-state electrolyte films prepared via a scalable solvent-free process

By: Chen, Daiqian; Hu, Chenji; Chen, Qi; Xue, Guoyong; Tang, Lingfei; Dong, Qingyu; Chen, Bowen; Zhang, Fengrui; Gao, Mingwen; Xu, Jingjing; et al

Nano Research (2023), 16(3), 3847-3854 | Language: English, Database: CAplus

 Substances (10)

 Reaction (1)

 Citing (1)

460

Synergistic Defect Passivation by the Treatment of **Ionic Liquids** for Efficient and Stable Perovskite Solar Cells

By: Zhang, Zelong ; Jiang, Zhixuan; Ji, Wenxi; Fu, Jianfei; Wu, Tiao; Wu, Wenting; Rui, Dong; Xu, Pan; Zhou, Yi; Dong, Bin; et al
Advanced Energy & Sustainability Research (2023), 4(3), 2200173 | Language: English, Database: CAplus

 Substances (20)

 Reactions (0)

 Citing (0)

461

Tailoring Phosphonium **Ionic Liquids** for a **Liquid-Liquid** Phase Transition

By: Yao, Beibei; Paluch, Marian ; Dulski, Mateusz ; Quinn, Courtney ; McLaughlin, Shannon; McGrogan, Anne; Swadzba-Kwasny, Malgorzata ; Wojnarowska, Zaneta 

Journal of Physical Chemistry Letters (2023), 14(12), 2958-2964 | Language: English, Database: CAplus and MEDLINE



 Substances (18)

 Reactions (0)

 Citing (1)

462

Flame-resistant hybrid inorganic-polymeric solid-state electrolytes for lithium batteries with improved performance

By: Jang, Bor Z.

United States, US20230096724 A1 2023-03-30 | Language: English, Database: CAplus

**PatentPak** available Substances (112) Reactions (0) Citing (0)

463

Zinc-based electrochemical energy storage device

By: Weng, Zhe; Han, Daliang; Cui, Changjun; Guo, Xiaoxia; Yang, Quanhong

World Intellectual Property Organization, WO2023044969 A1 2023-03-30 | Language: Chinese, Database: CAplus

PatentPak available Substances (72) Reactions (0) Citing (0)

464

Cathode coating for Li-ion battery

By: Schmidt, Gregory

World Intellectual Property Organization, WO2023047064 A1 2023-03-30 | Language: French, Database: CAplus

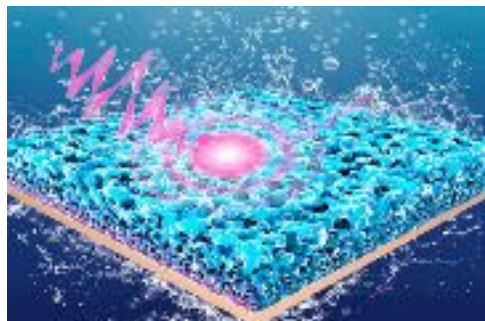
PatentPak available Substances (83) Reactions (0) Citing (0)

465

Multifunctional Underwater Adhesive Film Enabled by a Single-Component Poly(ionic liquid)

By: Wang, Binmin; Qiao, Chenyu; Wang, Yong-lei ; Dong, Xiaoxiao; Zhang, Wangqing ; Lu, Yan ; Yuan, Jiayin ; Zeng, Hongbo ; Wang, Hong 

ACS Nano (2023), 17(6), 5871-5879 | Language: English, Database: CPlus and MEDLINE

 Substances (6) Reactions (6) Citing (2)

466

Green preparation of ionic liquid for dimethyl carbonate-methanol separation

By: Gao, Daming; Cheng, Yuan; Wang, Jing

China, CN115850182 A 2023-03-28 | Language: Chinese, Database: CPlus

PatentPak available

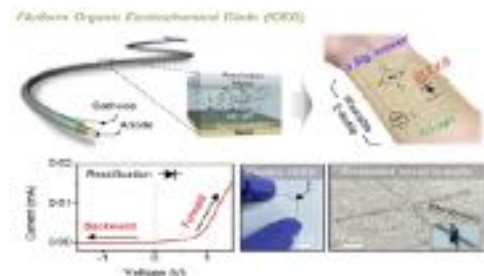
 Substances (7) Reactions (3) Citing (0)

467

Fibriform Organic Electrochemical Diodes with Rectifying, Complementary Logic and Transient Voltage Suppression Functions for Wearable E-Textile Embedded Circuits

By: Choi, Kwang-Hun; Kim, Soo Jin; Kim, Hyoungjun; Jang, Ho Won ; Yi, Hyunjung ; Park, Min-Chul; Choi, Changsoon ; Ju, Hyunsu; Lim, Jung Ah 

ACS Nano (2023), 17(6), 5821-5833 | Language: English, Database: CPlus and MEDLINE

 Substances (5) Reactions (0) Citing (1)

468

Electrochemical thinning of Co kagome-lattice layers in ferromagnetic Co₃Sn₂S₂ thin films by bias-induced Co dissolution

By: Fujiwara, Kohei  ; Ikeda, Junya; Ito, Shun  ; Tsukazaki, Atsushi 

Journal of Applied Physics (Melville, NY, United States) (2023), 133(12), 125302 | Language: English, Database: CAplus

 Substances (5)

 Reactions (0)

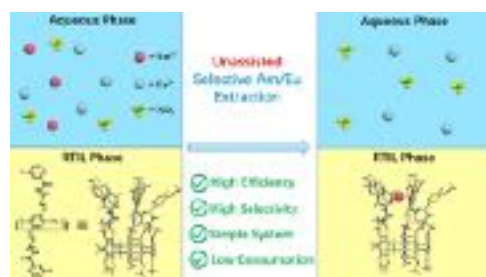
 Citing (0)

469

Unassisted and Efficient Actinide/Lanthanide Separation with Pillar[5]arene-Based Picolinamide Ligands in **Ionic Liquids**

By: Cai, Yimin; Ansari, Seraj A.; Yuan, Lihua  ; Feng, Wen  ; Mohapatra, Prasanta K. 

Industrial & Engineering Chemistry Research (2023), 62(12), 5297-5304 | Language: English, Database: CAplus



 Substances (3)

 Reactions (0)

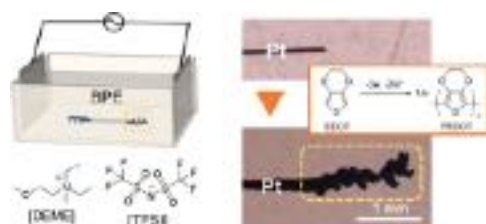
 Citing (1)

470

AC-Bipolar Electropolymerization of 3,4-Ethylenedioxythiophene in **Ionic Liquids**

By: Chen, Zhenghao; Zhou, Yaqian; Villani, Elena  ; Shida, Naoki  ; Tomita, Ikuyoshi  ; Inagi, Shinsuke 

Langmuir (2023), 39(12), 4450-4455 | Language: English, Database: CAplus and MEDLINE



 Substances (8)

 Reactions (0)

 Citing (0)

471

Method for preparing acidic ion gel film based on hydrogen bond for preparing gas sensor

By: Liu, Weihua; Wu, Qiang; Yuan, Wanbin; Bu, Xiangrui; Li, Xin
China, CN115850756 A 2023-03-28 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (6) Reactions (0) Citing (0)

472

Hypersaline desalination using ionic liquids and low-temperature heat

By: Luo, Tengfei; Ashfeld, Brandon; Guo, Jiaji; Tucker, Zachary; Gulotty, Eva
World Intellectual Property Organization, WO2023044091 A1 2023-03-23 | Language: English, Database: CAplus

PatentPak available

 Substances (67) Reactions (0) Citing (0)

473

Method for preparing self-supporting covalently crosslinked functional polyelectrolyte porous membrane for ion separation

By: Wang, Hong; Hu, Yingyi
China, CN115838495 A 2023-03-24 | Language: Chinese, Database: CAplus

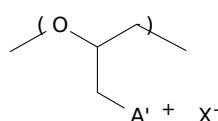
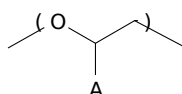
PatentPak available

 Substances (171) Reactions (13) Citing (0)

474

Carbon dioxide absorber containing polyether compound with excellent ionic conductivity

By: Hayano, Shigetaka
World Intellectual Property Organization, WO2023042748 A1 2023-03-23 | Language: Japanese, Database: CAplus



PatentPak available

 Substances (38) Reactions (0) Citing (0)

475

An Ultrathin Asymmetric Solid Polymer Electrolyte with Intensified Ion Transport Regulated by Biomimetic Channels Enabling Wide-Temperature High-Voltage Lithium-Metal Battery

By: Yao, Meng; Ruan, Qinqin; Pan, Shanshan; Zhang, Haitao; Zhang, Suojiao 

Advanced Energy Materials (2023), 13(12), 2203640 | Language: English, Database: CAplus

 Substances (7)

 Reactions (0)

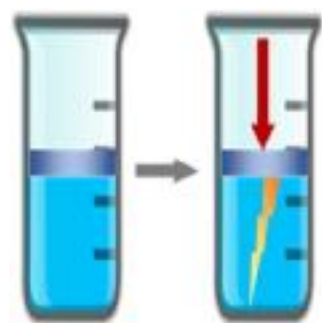
 Citing (3)

476

Ionic Liquids Exhibit the Piezoelectric Effect

By: Hossain, Iqbal Md. ; Blanchard, G. J. 

Journal of Physical Chemistry Letters (2023), 14(11), 2731-2735 | Language: English, Database: CAplus and MEDLINE



 Substances (2)

 Reactions (0)

 Citing (0)

477

Employing Redox-Active Additives for Enhanced Charge Polarization and Twofold Higher Energy Density in Supercapacitor

By: Nandi, Poulomi; Subramaniam, Chandramouli 

Advanced Materials Interfaces (2023), 10(9), 2202052 | Language: English, Database: CAplus

 Substances (3)

 Reactions (0)

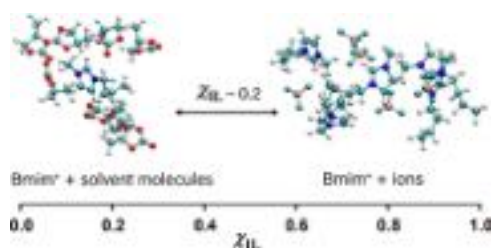
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478

Insight to the Local Structure of Mixtures of Imidazolium-Based **Ionic Liquids** and Molecular Solvents from Molecular Dynamics Simulations and Voronoi Analysis

By: Dudarev, Dmytro ; Koverga, Volodymyr; Kalugin, Oleg; Miannay, Francois-Alexandre; Polok, Kamil ; Takamuku, Toshiyuki 
; Jedlovsky, Pal ; Idrissi, Abdenacer 

Journal of Physical Chemistry B (2023), 127(11), 2534-2545 | Language: English, Database: CAplus and MEDLINE



 Substances (7)

 Reactions (0)

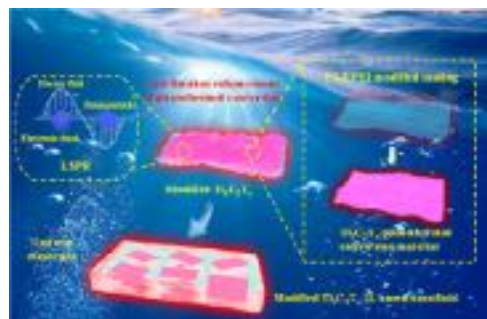
 Citing (0)

479

Electrostatically Assisted Construction Modified MXene-IL-Based Nanofluids for Photothermal Conversion

By: Su, Fangfang; Xie, Jinliang; Li, Xiaoqian; He, Zhongjie; Wang, Hongni; Zhang, Jing; Xin, Yangyang; Zhang, Aibo; Yao, Dongdong; Zheng, Yaping 

ACS Applied Materials & Interfaces (2023), 15(11), 14316-14328 | Language: English, Database: CAplus and MEDLINE



 Substances (10)

 Reactions (4)

 Citing (2)

480

Ion gel and ion gel film for gas sensing, solid electrolyte, flexible electrode, solar cell and preparation method thereof

By: Huang, Jia; Li, Li; Sun, Tongrui

China, CN115819911 A 2023-03-21 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (15)

 Reactions (3)

 Citing (0)

481

Probing proton diffusion as a guide to environmental stability in powder-engineered FAPbI₃ and CsFAPbI₃ perovskites

By: Haris, Muhammed P. U.; Xia, Jianxing; Kazim, Samrana; Molenda, Zuzanna; Hirsch, Lionel; Buffeteau, Thierry; Bassani, Dario M.; Nazeeruddin, Mohammad Khaja; Ahmad, Shahzada 

Cell Reports Physical Science (2023), 4(3), 101304 | Language: English, Database: CAplus and MEDLINE

 Substances (21) Reactions (0) Citing (0)

482

Construction of high-density proton transport channels in phosphoric acid doped polybenzimidazole membranes using ionic liquids and metal-organic frameworks

By: Wang, Peng; Lin, Jingjing; Wu, Yingnan; Wang, Lei 

Journal of Power Sources (2023), 560, 232665 | Language: English, Database: CAplus

 Substances (13) Reactions (0) Citing (7)

483

Unraveling energy storage behavior of independent ions in carbon electrode for supercapacitors by polymeric ionic liquids and electrochemical quartz crystal microbalance

By: Wang, Yan; Xue, Kaiyuan; Zhang, Xingyun; Zhang, Xu; Yang, Bingjun; Xu, Shusheng; Lang, Junwei

Chemical Engineering Journal (Amsterdam, Netherlands) (2023), 460, 141704 | Language: English, Database: CAplus

 Substances (6) Reactions (0) Citing (1)

484

Evaluation of task-specific ionic liquids applied in pervaporation membranes: Experimental and COSMO-RS studies

By: Xu, Xiao ; Van Eygen, Gilles; Molina-Fernandez, Cristhian; Nikolaeva, Daria; Depasse, Ysaline; Chergaoui, Sara; Hartanto, Yusak; Van der Bruggen, Bart; Coutinho, Joao A. P.; Buekenhoudt, Anita; et al

Journal of Membrane Science (2023), 670, 121350 | Language: English, Database: CAplus

 Substances (6) Reactions (0) Citing (1)

485

Lead Sequestration in Perovskite Photovoltaic Device Encapsulated with Water-Proof and Adhesive Poly(ionic liquid)

By: Chen, Hao; Zhang, Guo-Hao ; Zhu, Qiu-Hong ; Fu, Jie; Qin, Song ; He, Ling ; Tao, Guo-Hong 
ACS Applied Materials & Interfaces (2023), 15(10), 13637-13643 | Language: English, Database: CAPlus and MEDLINE


 Substances (9)

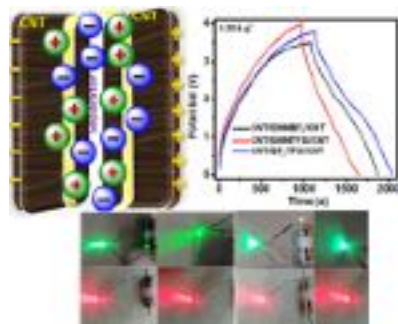
 Reactions (0)

 Citing (0)

486

Insights into the Charge Storage Mechanism of Binder-Free Electrochemical Capacitors in Ionic Liquid Electrolytes

By: Pal, Bhupender; Parameswaran, Abhilash Karuthedath; Wu, Bing ; Dekanovsky, Lukas; Mazanek, Vlastimil; Sarkar, Kalyan Jyoti; Jose, Rajan ; Sofer, Zdenek 
Industrial & Engineering Chemistry Research (2023), 62(10), 4388-4398 | Language: English, Database: CAPlus


 Substances (5)

 Reactions (0)

 Citing (0)

487

Textile-based Thermoelectric Generator Produced Via Electrochemical Polymerization

By: Serrano-Claumarchirant, Jose F.; Nasiri, Mohammad A.; Cho, Chungyeon; Cantarero, Andres; Culebras, Mario ; Gomez, Clara M.
Advanced Materials Interfaces (2023), 10(8), 2202105 | Language: English, Database: CAPlus

 Substances (6)

 Reaction (1)

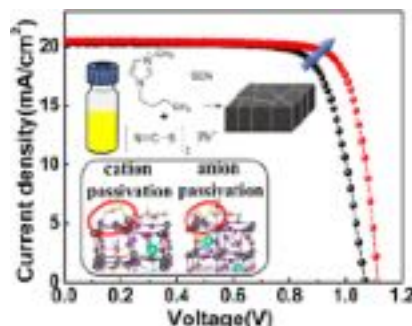
 Citing (0)

488

Bication Thiocyanate Salts for Advanced Performance of Wide-Band Gap Perovskite Solar Cells

By: Bae, Mi-Seon; Chang, Yun Hee; Lee, Wonjong; Moon, Chan-Su; Kim, Seung-Woo; Kim, Hyun-Suk ; Lim, Jongchul ; Yang, Tae-Youl 

Energy & Fuels (2023), 37(6), 4608-4615 | Language: English, Database: CAplus


 Substances (14)

 Reactions (0)

 Citing (1)

489

Composite anode for lithium secondary battery pack, and its manufacturing method by pulse electrodeposition of lithium on porous conductor

By: Park, Je Sik; Lee, Sang Heon; Ha, A Reum; Seo, Jeong Hyeon; Sung, Ju Yeong; Noh, Seong U

China, CN115810720 A 2023-03-17 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (16)

 Reactions (0)

 Citing (0)

490

Process of selective recovery of gold by way of green chemicals from an element containing gold and a platinum-group metal

By: Billy, Emmanuel; Dourdain, Sandrine; Legeai, Sophie; Mendil-Jakani, Hakima; Meux, Eric; Villemejanne, Benoit

France, FR3126892 A1 2023-03-17 | Language: French, Database: CAplus

PatentPak available

 Substances (19)

 Reactions (0)

 Citing (0)

491

How NaFTA salt affects the structural landscape and transport properties of Pyr_{1,3}FTA ionic liquid

By: Singh, Navneet ; Jha, Mrityunjay K. ; Dhatarwal, Harender S. ; Kashyap, Hemant K. 

Journal of Chemical Physics (2023), 158(10), 104502 | Language: English, Database: CAplus and MEDLINE

 Substances (2)

 Reactions (0)

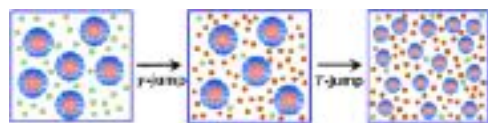
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492

Effect of Changing Interfacial Tension on Fragmentation Kinetics of Block Copolymer Micelles

By: Gupta, Supriya ; Lodge, Timothy P. 

Macromolecules (Washington, DC, United States) (2023), 56(5), 2137-2148 | Language: English, Database: CAplus

 Substances (4) Reactions (0) Citing (1)

493

Preparation method of hydrophobic ion gel for flexible thermal power generation device

By: Chen, Tao; Li, Huijing; Wei, Junjie; Gu, Jincui; Li, Long

China, CN115785327 A 2023-03-14 | Language: Chinese, Database: CAplus

PatentPak available Substances (23) Reactions (2) Citing (0)

494

Halloysite nanotube encapsulated ionic liquid capsule, self-lubricating fiber fabric composite material and preparation method thereof

By: Yang, Mingming; Wang, Wenjing; Wang, Yanling; Zhang, Zhaozhu; Yuan, Junya; Jiang, Wei; Chu, Fanjie; Li, Peilong

China, CN115787287 A 2023-03-14 | Language: Chinese, Database: CAplus

PatentPak available Substances (9) Reactions (0) Citing (0)

495

Permanent electrostatic dissipative PVC shoe sole material and preparation method thereof

By: Wu, Jianbo

China, CN115785588 A 2023-03-14 | Language: Chinese, Database: CAplus

PatentPak available Substances (26) Reactions (0) Citing (0)

496

Polyionic elastomer and preparation method thereof

By: Guo, Chuanfei; Chen, Xingxing

China, CN115785445 A 2023-03-14 | Language: Chinese, Database: CAplus

PatentPak available Substances (28) Reactions (4) Citing (0)

497

Optical laminate containing adhesive sheet and image display device

By: Fujita, Masato; Ebara, Tomomi

Japan, JP2023035262 A 2023-03-13 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (56) Reactions (0) Citing (0)

498

Tertiary sulfonium/quaternary ammonium-containing silsesquioxane nanoparticles with lithium salts as potential hybrid electrolytes

By: Maeda, Yuta; Sonta, Yuito; Sasaki, Yusuke; Mori, Hideharu

Polymer (2023), 269, 125704 | Language: English, Database: CAplus

 Substances (8) Reactions (0) Citing (1)

499

N-Cyano-2,2'-biphenyldicarboimide as a Cyanation Reagent for Co(III)-Catalyzed C-H Cyanation of Indoles in **Ionic Liquids**

By: Zhang, Jingchao; Zou, MengQi; Tian, QinYe; Sun, Zhizhong; Chu, Wenyi 

Organic Letters (2023), 25(9), 1436-1440 | Language: English, Database: CAplus and MEDLINE

 Substances (102) Reactions (101) Citing (0)

500

Ion emission from nanodroplets undergoing Coulomb explosions: a continuum numerical study

By: Misra, Kaartikey; Gamero-Castano, Manuel

Journal of Fluid Mechanics (2023), 958, A32 | Language: English, Database: CAplus

 Substance (1) Reactions (0) Citing (1)