

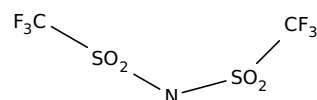
Initiating Search

September 19, 2023, 11:04AM

 Substances:

Filtered By:

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 (4,660)	 References	View Results
Filtered By:		
Document Type:	Patent	
Search Within Results:	Ionic liquids	

References (500) First 500 Hits

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1

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)

2

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)

3

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)

4

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)

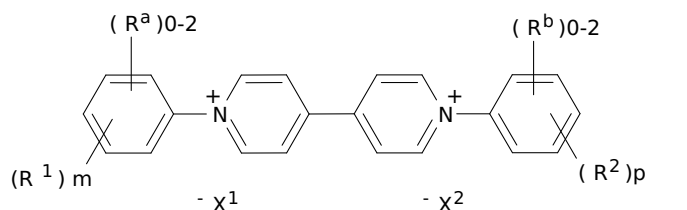
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5

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



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Substances (21)

Reactions (0)

Citing (0)

6

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: CAplus

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Substances (19)

Reactions (0)

Citing (0)

7

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: CAplus

PatentPak available

Substances (20)

Reactions (0)

Citing (0)

8

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: CAplus

PatentPak available

Substances (20)

Reactions (0)

Citing (0)

9

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)

10

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)

11

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)

12

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)

13

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)

14

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: CAplus

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

15

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

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16

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

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17

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

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18

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

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 Substances (65)

 Reactions (0)

 Citing (0)

19

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



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 Substances (14)

 Reactions (0)

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20

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)

21

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)

22

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)

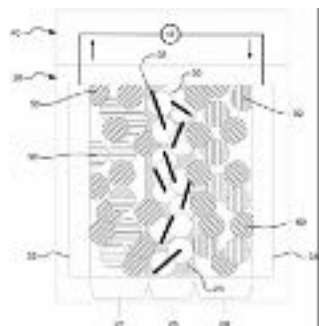
 Citing (0)

23

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)

24

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)

25

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

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 Substances (13)

 Reactions (0)

 Citing (0)

26

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)

27

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

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28

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

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29

Solid electrolyte for an all-solid-state battery

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

France, FR3132163 A1 2023-07-28 | Language: French, Database: CAplus

PatentPak available Substances (62) Reactions (0) Citing (0)

30

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)

31

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

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 Substances (18)

 Reactions (0)

 Citing (0)

32

Process for co-valorization by hydrocarbon and CO₂

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

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 Substances (32)

 Reactions (0)

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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)

34

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)

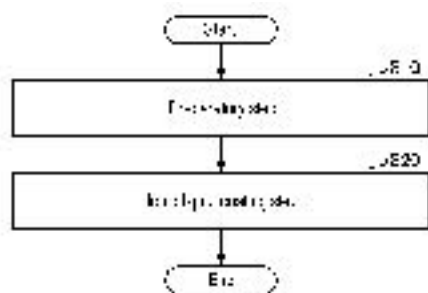
 Reactions (0)

 Citing (0)

35

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



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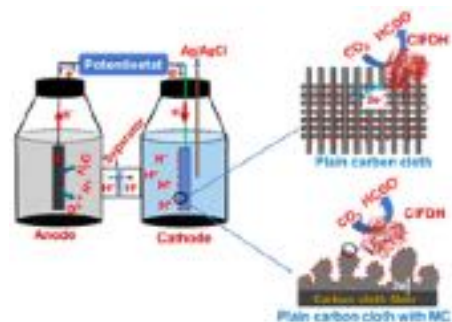
Reactions (0)

Citing (0)

36

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



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Substances (15)

Reactions (0)

Citing (0)

37

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

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Substances (17)

Reactions (0)

Citing (0)

38

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: CAplus

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39

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: CAplus

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40

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: CAplus

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

41

Enhanced L-poly(lactic 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)

42

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: CAplus



PatentPak available

Substances (5)

Reactions (0)

Citing (0)

43

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: CAplus

PatentPak available

Substances (6)

Reactions (0)

Citing (0)

44

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: CAplus

PatentPak available

Substances (26)

Reaction (1)

Citing (0)

45

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)

46

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



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Substances (5)

Reactions (0)

Citing (0)

47

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



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Substances (40)

Reactions (0)

Citing (0)

48

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

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Substances (41)

Reactions (0)

Citing (0)

49

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)

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50

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)

51

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

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 Reactions (15)

 Citing (0)

52

Film and friction charging power generator

By: Tani, Hiroshi
Japan, JP2023092186 A 2023-07-03 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (5)

 Reactions (0)

 Citing (0)

53

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)

54

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

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 Substances (31)

 Reactions (0)

 Citing (0)

55

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)

56

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)

57

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)

58

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

By: Zhang, Suojiang; 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)

59

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



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 Substances (23)

 Reactions (0)

 Citing (0)

60

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)

61

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)

62

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

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 Substances (14)

 Reactions (0)

 Citing (0)

63

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)

64

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)

65

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)

66

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)

67

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)

68

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)

69

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)

70

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)

71

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)

72

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

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 Substances (93)

 Reactions (5)

 Citing (0)

73

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)

74

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)

75

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)

76

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)

77

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

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78

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

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 Substances (13)

 Reactions (0)

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79

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)

80

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)

81

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)

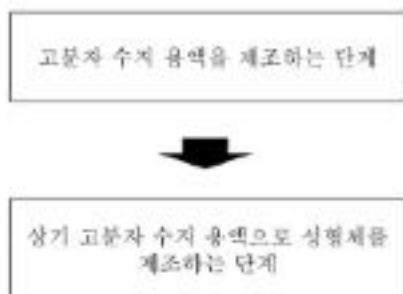
 Citing (0)

82

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: CAplus

**PatentPak** available

Substances (3)

Reactions (0)

Citing (0)

83

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)

84

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)

85

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)

86

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: CAplus

PatentPak available

 Substances (33)

 Reactions (0)

 Citing (0)

87

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: CAplus

PatentPak available

 Substances (26)

 Reactions (0)

 Citing (0)

88

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)

89

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)

90

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)

91

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)

92

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)

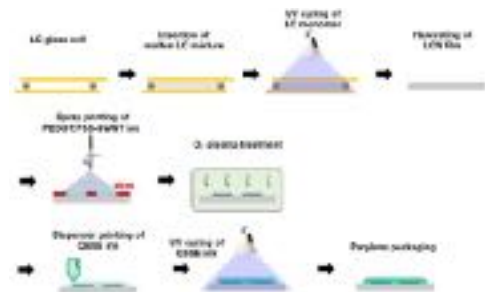
Reactions (0)

Citing (0)

93

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)

94

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)

95

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)

96

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)

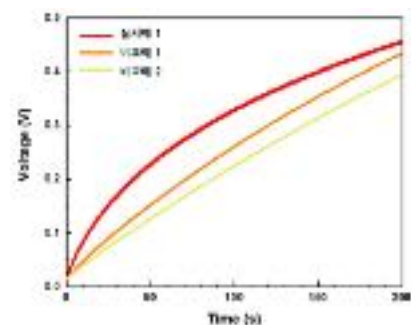
Citing (0)

97

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)

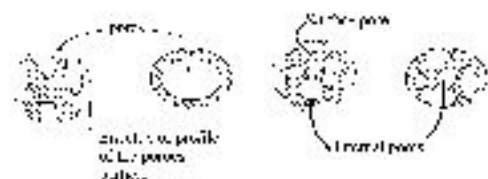
Citing (0)

98

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)

99

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)

100

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)

101

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)

102

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: CAplus

PatentPak available

 Substances (15)

 Reactions (0)

 Citing (0)

103

Poly(**ionic liquid**s) composite for absorption and separation

By: Ran, Shaofeng; Shafer, Gregory J.
World Intellectual Property Organization, WO2023091369 A1 2023-05-25 | Language: English, Database: CAplus

PatentPak available

 Substances (26)

 Reactions (0)

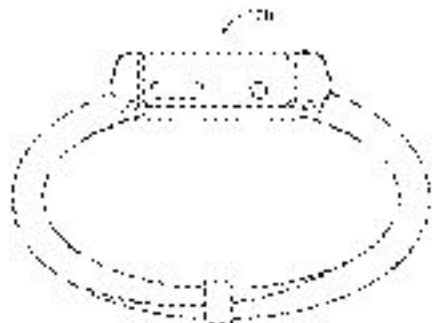
 Citing (0)

104

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)

105

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: CAPLUS

PatentPak available

 Substances (74)

 Reactions (0)

 Citing (0)

106

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: CAPLUS

PatentPak available

 Substances (19)

 Reactions (0)

 Citing (0)

107

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: CAPLUS

PatentPak available

 Substances (23)

 Reactions (0)

 Citing (0)

108

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)

109

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)

110

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)

111

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)

112

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)

113

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)

114

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)

115

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)

116

Preparation of water-soluble polyionic **liquid** for lithium-sulfur batteries

By: Fu, Daosong
China, CN116063601 A 2023-05-05 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (38)

 Reactions (13)

 Citing (0)

117

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)

118

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)

119

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)

120

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)

121

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)

122

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)

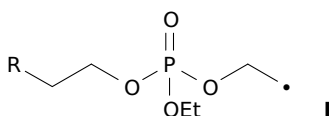
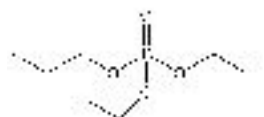
123

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

4:1



PatentPak available

Substances (7)

Reactions (0)

Citing (0)

124

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)

125

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)

126

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)

127

Process of opening of an electrochemical generator

By: Billy, Emmanuel; Porthault, Helene

France, FR3128144 A1 2023-04-21 | Language: French, Database: CAplus

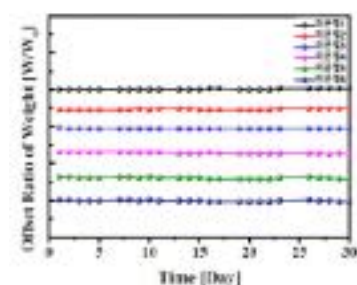
PatentPak available Substances (41) Reactions (0) Citing (0)

128

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)

129

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)

130

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)

131

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)

132

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)

133

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)

134

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)

135

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)

136

Preparation method of SEBS of ionic liquid-ruthenium/rhodium series phosphine catalytic hydenation

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)

137

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)

138

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)

139

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)

140

Method of preparing aluminum solvate ionic liquids

By: Chrobok, Anna; Wieclawik, Justyna
Poland, PL242687 B1 2023-04-03 | Language: Polish, Database: CAplus

PatentPak available

 Substances (7)

 Reaction (1)

 Citing (0)

141

All-solid fluorine-containing **ionic** gel underwater adhesive, preparation method and application

By: Zhang, Yabin; Gong, Xin; Zhang, Luqing; Zhang, Shuxiang; Zhang, Hongfei
China, CN115895527 A 2023-04-04 | Language: Chinese, Database: CAplus

PatentPak available Substances (13) Reactions (6) Citing (0)

142

Cell carrier film preparation method and application thereof

By: Li, Fuyang; Chen, Lian; Chen, Hongye; Wu, Xiaoping; Zhu, Lingling
China, CN115895518 A 2023-04-04 | Language: Chinese, Database: CAplus

PatentPak available Substances (24) Reactions (4) Citing (0)

143

Ionic gel and preparation method and application thereof

By: Guo, Chuanfei; Chen, Xingxing
China, CN115895260 A 2023-04-04 | Language: Chinese, Database: CAplus

PatentPak available Substances (21) Reactions (2) Citing (0)

144

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)

145

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)

146

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)

147

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)

148

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)

149

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)

150

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: CAplus

PatentPak available

 Substances (7) Reactions (3) Citing (0)

151

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)

152

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)

153

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

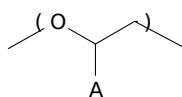
 Substances (171) Reactions (13) Citing (0)

154

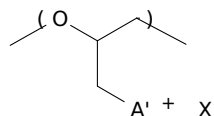
Carbon dioxide absorber containing polyether compound with excellent ionic conductivity

By: Hayano, Shigetaka

World Intellectual Property Organization, WO2023042748 A1 2023-03-23 | Language: Japanese, Database: CAplus



I



II

PatentPak available

Substances (38)

Reactions (0)

Citing (0)

155

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)

156

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)

157

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; Villemejeanne, Benoit

France, FR3126892 A1 2023-03-17 | Language: French, Database: CAplus

PatentPak available

Substances (19)

Reactions (0)

Citing (0)

158

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)

159

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)

160

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)

161

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)

162

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)

163

Skin-core structured electrochromic filament fiber and preparation method and fabric thereof

By: Jia, Pei; Yin, Chaoyi; Liu, Ruifang; Ba, Long

China, CN115772717 A 2023-03-10 | Language: Chinese, Database: CAplus

PatentPak available Substances (11) Reactions (0) Citing (0)

164

Dicationic **ionic liquid** and composite electrolyte

By: Nakajima, Hideto; Shimano, Satoshi; Nokami, Toshiki

World Intellectual Property Organization, WO2023033162 A1 2023-03-09 | Language: Japanese, Database: CAplus

PatentPak available Substances (26) Reactions (0) Citing (0)

165

Anti-static silicone release coatings and methods for their preparation and use

By: Fang, Xin; Huang, Fuming; Zhu, Jiayin; Liu, Zhihua

World Intellectual Property Organization, WO2023028819 A1 2023-03-09 | Language: English, Database: CAplus

PatentPak available Substances (13) Reactions (0) Citing (0)

166

Optical laminate containing adhesive sheet and image display device

By: Fujita, Masato; Ebara, Tomomi

World Intellectual Property Organization, WO2023032796 A1 2023-03-09 | Language: Japanese, Database: CAplus

PatentPak available Substances (56) Reactions (0) Citing (0)

167

Ionic liquid composition for carbon dioxide separation membrane, carbon dioxide separation membrane holding the composition, and carbon dioxide concentrator equipped with the carbon dioxide separation membrane

By: Makino, Takashi; Kono, Yuki; Iwatani, Sadao; Yamato, Hiroshi

Japan, JP2023030786 A 2023-03-08 | Language: Japanese, Database: CAplus

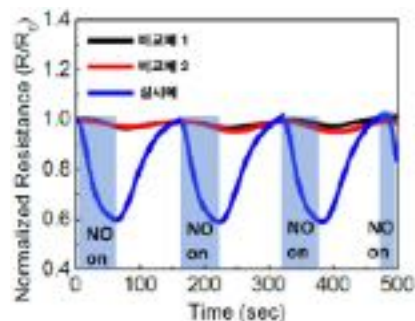
PatentPak available Substances (48) Reactions (0) Citing (0)

168

Ultra-sensitive flexible gas sensor having hydrophobic polymer and ionic liquid and manufacturing method thereof

By: Ha, Tae Jun; Jeon, Jun Yeong; Park, Sang Jun

Korea, Republic of, KR2023033105 A 2023-03-08 | Language: Korean, Database: CAplus



PatentPak available

Substances (49)

Reactions (0)

Citing (0)

169

Preparation of borate ester/lithium bis(trifluoromethanesulfonyl)imide coordination-based ionic liquid lubricant additives

By: Li, Weimin; Ma, Rui; Chen, Yunlong; Han, Yiming; Luan, Xiaosheng; Wang, Xiaobo

China, CN115746040 A 2023-03-07 | Language: Chinese, Database: CAplus

PatentPak available

Substances (9)

Reactions (0)

Citing (0)

170

Preparation method of chemical superelastic antibacterial and waterproof layered multifunctional fabric

By: Huang, Yunpeng; Peng, Yidong; Dong, Jiancheng; Liu, Tianxi

China, CN115742501 A 2023-03-07 | Language: Chinese, Database: CAplus

PatentPak available

Substances (8)

Reactions (0)

Citing (0)

171

Antistatic agent for semi-rigid PVC flooring and preparation method thereof

By: Meng, Fangang

China, CN115746400 A 2023-03-07 | Language: Chinese, Database: CAplus

PatentPak available

Substances (13)

Reactions (0)

Citing (0)

172

Separation function layer, separation membrane, and production method for separation function layer

By: Ito, Yuri; Shimizu, Hisae; Tani, Kensuke; Ihara, Terukazu; Kamio, Eiji; Zhang, Jinhui; Matsuyama, Hideto
World Intellectual Property Organization, WO2023032744 A1 2023-03-09 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (15)

 Reactions (0)

 Citing (0)

173

Hybrid solid-liquid electrolyte, electrochemical cell, battery and manufacturing method thereof

By: Padmanabhan, Vivek Jayavalli; Meddings, Nina Catherine; Garcia-Araez Garcia del Valle, Nuria
World Intellectual Property Organization, WO2023031600 A1 2023-03-09 | Language: English, Database: CAplus

PatentPak available

 Substances (32)

 Reactions (0)

 Citing (0)

174

Carbon dioxide absorbing and releasing device with electrode

By: Saito, Hitomi; Matsune, Yasushi; Miyamoto, Hirohisa; Yoshimura, Reiko; Sano, Kenji; Suzuki, Akiko; Imada, Toshihiro
Japan, JP2023033072 A 2023-03-09 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (41)

 Reactions (0)

 Citing (0)

175

Method for manufacturing electric double layer capacitor

By: Ikeda, Ai; Yamamoto, Hideki; Taniyasu, Yoshitaka; Nojima, Tsutomu
Japan, JP2023028267 A 2023-03-03 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (4)

 Reactions (0)

 Citing (0)

176

Ionic liquid-based composite membranes using functional cross-linkers

By: Noble, Richard; Karunaweera, Chamaal; Gin, Douglas L.
World Intellectual Property Organization, WO2023028323 A1 2023-03-02 | Language: English, Database: CAplus

PatentPak available

 Substances (18)

 Reactions (2)

 Citing (0)

177

Flame-resistant hybrid inorganic-polymeric solid-state electrolytes for lithium batteries with improved performance

By: Jang, Bor Z.

World Intellectual Property Organization, WO2023028514 A1 2023-03-02 | Language: English, Database: CPlus

PatentPak available

Substances (112)



Reactions (5)



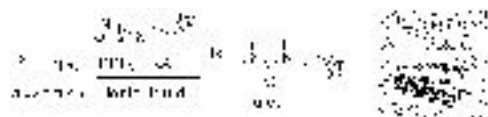
Citing (0)

178

Phosphine-mediated amine-azide coupling in ionic liquid for bioconjugation reactions

By: Ohata, Jun; El-Shaffey, Hisham; Gross, Elizabeth Jasmine; Hall, Yvonne

United States, US20230068165 A1 2023-03-02 | Language: English, Database: CPlus

**PatentPak** available

Substances (128)



Reactions (6)



Citing (0)

179

Screen-printable ionogel electrolytes for lithium-ion batteries

By: Hersam, Mark C.; Hyun, Woo Jin; Chaney, Lindsay E.

United States, US20230065149 A1 2023-03-02 | Language: English, Database: CPlus

**PatentPak** available

Substances (40)



Reactions (0)



Citing (0)

180

Composite, polymer electrolyte, electrochemical device, polymer-based solid-state battery, and actuator

By: Tani, Akinori; Terada, Junpei; Yamada, Takaya; Fujiwara, Kae
United States, US20230069196 A1 2023-03-02 | Language: English, Database: CAPLUS



PatentPak available

Substances (14)

Reactions (0)

Citing (0)

181

Ionic binders containing organic ionic plastic crystals for solid state electrodes

By: Howlett, Patrick; Forsyth, Maria; Kerr, Robert; Mendes, Tiago; Ueda, Hiroyuki; Liang, Yan
World Intellectual Property Organization, WO2023019322 A1 2023-02-23 | Language: English, Database: CAPLUS

PatentPak available

Substances (85)

Reactions (0)

Citing (0)

182

Liquid crystal elastomer composite film and preparation method and application thereof .

By: Liu, Zhiyang; Jiang, Qi; Li, Quan; Yang, Hong; Jiang, Kun; Hu, Xinying
China, CN115710354 A 2023-02-24 | Language: Chinese, Database: CAPLUS

PatentPak available

Substances (6)

Reaction (1)

Citing (0)

183

Process for extractive separation of molybdenum from nitric acid solution containing fission elements using ionic liquid system

By: Chu, Taiwei; Guo, Zong
China, CN115710647 A 2023-02-24 | Language: Chinese, Database: CAPLUS

PatentPak available

Substances (14)

Reactions (0)

Citing (0)

“Citing (0)

“ Citing (0)

“Citing (0)

“ Citing (0)

“Citing (0)

189

Rechargeable solid state lithium batteries working over a wide temperature range

By: Madsen, Louis A.; Lin, Feng; Yu, Deyang

World Intellectual Property Organization, WO2023015020 A1 2023-02-09 | Language: English, Database: CAplus

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

190

Preparation method of imidazole-quaternary ammonium salt copolymer polyionic **liquid** antistatic agent

By: Yu, Yinghao; Fu, Shuangchan; Chen, Qihang; Wang, Feng; Xu, Feijian

China, CN115677930 A 2023-02-03 | Language: Chinese, Database: CAplus

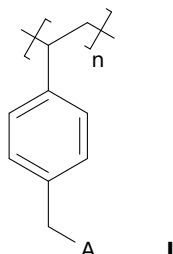
PatentPak available Substances (36) Reactions (26) Citing (0)

191

Polyionic **liquid** type artificial solid electrolyte interface as cathode of lithium-sulfur battery and preparation method thereof

By: Fu, Daosong; Wu, Xiaodong

China, CN115677889 A 2023-02-03 | Language: Chinese, Database: CAplus

**PatentPak** available Substances (33) Reactions (12) Citing (0)

192

Method for preparing acid and alkali resistant hydrophilic polydopamine/ **ionic liquid** coating

By: Yang, Jing; Zhang, Wenting; Zheng, Xin; Li, Yongjin

China, CN115678096 A 2023-02-03 | Language: Chinese, Database: CAplus

PatentPak available Substances (15) Reaction (1) Citing (0)

193

Preparation of antistatic ultra-high molecular weight polyethylene based **ionic liquid**

By: Mi, Yongli; Wan, Zhaorong; Lv, Dong; He, Jiajun

China, CN115678140 A 2023-02-03 | Language: Chinese, Database: CAplus

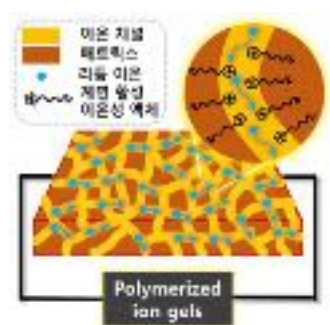
PatentPak available Substances (27) Reactions (0) Citing (0)

194

Non-aqueous freestanding ion conductive gel comprising surfactant layer

By: Lee, Gi Ra; Yoo, Pil Jin; Kang, Tae Hui; Lee, Seung Je; Yoon, Jeong Hun; Lee, Jun Hyeok; Cho, Won Jang

Korea, Republic of, KR2023016871 A 2023-02-03 | Language: Korean, Database: CAplus

**PatentPak** available Substances (7) Reactions (0) Citing (0)

195

Preparation method of high-strength high-temperature-resistant flexible gel electrolyte

By: Xu, Bo; Zhang, Yi; Wang, Chaoxia

China, CN115678049 A 2023-02-03 | Language: Chinese, Database: CAplus

PatentPak available Substances (26) Reactions (5) Citing (0)

196

Lithium ion secondary battery

By: Iida, Kazuhiro; Takezawa, Hideharu

World Intellectual Property Organization, WO2023007991 A1 2023-02-02 | Language: Japanese, Database: CAplus

PatentPak available Substances (20) Reactions (0) Citing (0)

197

Mixed-matrix membranes, composition and method

By: Gin, Douglas L.; Dunn, Collin A.; Noble, Richard D.; Ben Hassine, Haiefa

World Intellectual Property Organization, WO2023007202 A1 2023-02-02 | Language: English, Database: CAplus

PatentPak available Substances (30) Reactions (4) Citing (0)

198

Preparation method of ionic air-permeable intelligent textile fabric

By: Liu, Zhengdong; He, Zixi; Chen, Rong; Liu, Juqing; Huang, Wei

China, CN115652633 A 2023-01-31 | Language: Chinese, Database: CAplus

PatentPak available Substances (45) Reactions (9) Citing (0)

199

Preparation method of ionic liquid gel nanosphere containing carbon dots and its application in fluorescence detection

By: He, Dongqing; Song, Ximing; Cao, Dezhou; Xie, Zhaorui; Wang, Xinhe; Meng, Qingbo

China, CN115651646 A 2023-01-31 | Language: Chinese, Database: CAplus

PatentPak available Substances (61) Reactions (0) Citing (0)

200

Semi cyclized polyacrylonitrile gel coated high-voltage cathode material and its preparation method and application in solid state batteries

By: Guo, Qingpeng; Zheng, Jiayi; Han, Yu; Zhao, Jie; Zheng, Chunman; Wang, Hun; Xie, Kai

China, CN115663147 A 2023-01-31 | Language: Chinese, Database: CAplus

PatentPak available Substances (7) Reactions (0) Citing (0)

201

Preparation method of molybdenum oxide manganese pyrophosphate mixed material

By: Zhang, Chenyun; Shen, Jinghong

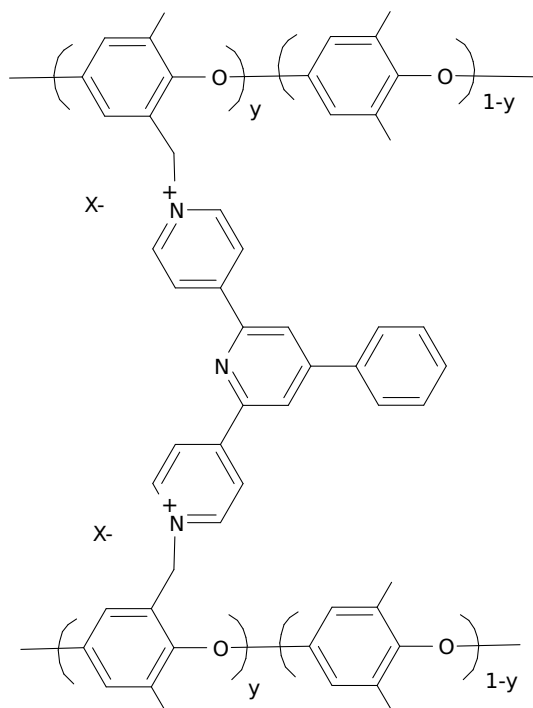
China, CN115650303 A 2023-01-31 | Language: Chinese, Database: CAplus

PatentPak available Substances (6) Reactions (0) Citing (0)

202

Preparation method of green terpyridine electrochromic compound film

By: Liu, Quan; Zhang, Qinghua; Hou, Xiao; Ren, Yongyuan; Zhan, Xiaoli
 China, CN115651190 A 2023-01-31 | Language: Chinese, Database: CAplus



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PatentPak available

Substances (24)

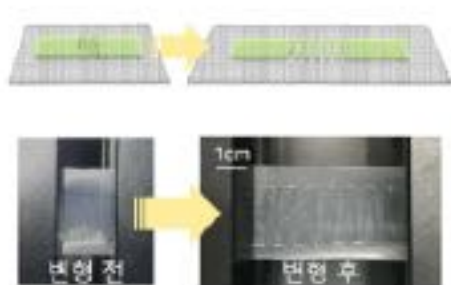
Reactions (3)

Citing (0)

203

High sensitivity stretchable tensile sensor with ionic gel and electrode

By: Lee, Geun Hyeong; Kim, Jeong Hui
 Korea, Republic of, KR2023014204 A 2023-01-30 | Language: Korean, Database: CAplus



PatentPak available

Substances (18)

Reactions (0)

Citing (0)

204

Preparation method of ionic liquid gel microspheres for liquid chamber microreactor in oil desulfurization

By: He, Dongqing; Cao, Dezhou; Song, Ximing; You, Yuanxiang; Meng, Qingbo
China, CN115636957 A 2023-01-24 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (44)

 Reactions (2)

 Citing (0)

205

Method for efficiently enriching hafnium by using membrane separation technology

By: Tang, Tingting; Yang, Fan; Xie, Meiyang; Xue, Liyan; Xie, Zexing
China, CN115627368 A 2023-01-20 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (21)

 Reactions (0)

 Citing (0)

206

Method for manufacturing ion sensor, and method for measuring ion

By: Kojima, Junko; Uchiyama, Kenichi; Hongo, Sayaka
Japan, JP2023007958 A 2023-01-19 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (22)

 Reactions (0)

 Citing (0)

207

Phosphorylalkylpyridinium ionic liquid and its preparation method, application as uranyl extractant

By: Zhang, Meng; Han, Zhenyu; Jia, Cai; Shi, Xu; Wang, Yuannuo; Zhou, Yu; Gao, Yang; Hou, Hongguo; Jiao, Caishan; He, Mingjian; et al
China, CN115611941 A 2023-01-17 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (11)

 Reactions (10)

 Citing (0)

208

Transparent antistatic agent for PVC and preparation method thereof

By: Meng, Fangang
China, CN115612175 A 2023-01-17 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (13)

 Reactions (0)

 Citing (0)

209

Method for anthraquinone hydrogenation under action of γ -alumina-loaded ionic liquid-Pd metal nanocatalyst to prepare hydrogen peroxide

By: Li, Wei; Zhang, Jinli; Li, Xiaoyan; Wang, Fuying; Li, Xiaolei; Liang, Jingyue
China, CN115611239 A 2023-01-17 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (29)

 Reactions (0)

 Citing (0)

210

Antistatic additive composition, pressure-sensitive adhesive composition, and protective film containing the same

By: Jung, Jun Seok; Yang, Hyeon Ju; Jung, Dong Hyeok
Korea, Republic of, KR2023006983 A 2023-01-12 | Language: Korean, Database: CAplus

PatentPak available

 Substances (3)

 Reactions (0)

 Citing (0)

211

Method for separating and quantifying saturated and unsaturated dialkyl ketones

By: Kato, Yutaka; Watanabe, Shimpei
World Intellectual Property Organization, WO2023282169 A1 2023-01-12 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (4)

 Reactions (0)

 Citing (0)

212

Preparation method of hydroxypropyl gamma cyclodextrin

By: Xu, Weicheng; Wang, Zhe; Cui, Liyan; Wang, Liping; Liu, Tao
China, CN115594779 A 2023-01-13 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (14)

 Reactions (0)

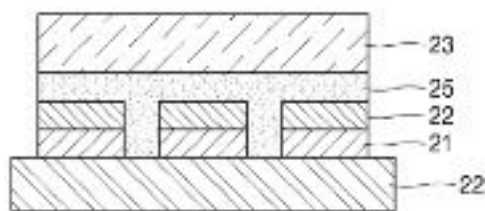
 Citing (0)

213

Electrolyte for electrochemical gas sensor and miniaturized electrochemical gas sensor including same

By: Lee, Dong Jun; Jung, Bo Gyeong

Korea, Republic of, KR2023006345 A 2023-01-10 | Language: Korean, Database: CAplus

**PatentPak** available

Substances (40)

Reactions (0)

Citing (0)

214

Ionic liquid gel composite fiber with high-thermal voltage and preparation method thereof

By: Li, Mufang; Xu, Huimin; Wang, Dong; Luo, Mengying; Liu, Qiongzen; Lu, Ying

China, CN115584632 A 2023-01-10 | Language: Chinese, Database: CAplus

PatentPak available

Substances (13)

Reactions (0)

Citing (0)

215

Ionic liquid assisted dispersion method for preparing highly conductive fluororubber sealing material

By: Ao, Yuzhi; Cheng, Yanan; Jian, Peng; Wang, Caishi; Liu, Shan

China, CN115584095 A 2023-01-10 | Language: Chinese, Database: CAplus

PatentPak available

Substances (29)

Reaction (1)

Citing (0)

216

Wide temperature range solid electrolyte, solid-state lithium battery and preparation method thereof

By: Guo, Xin; Li, Zhiyong; Li, Zhuo

China, CN115588777 A 2023-01-10 | Language: Chinese, Database: CAplus

PatentPak available

Substances (3)

Reactions (0)

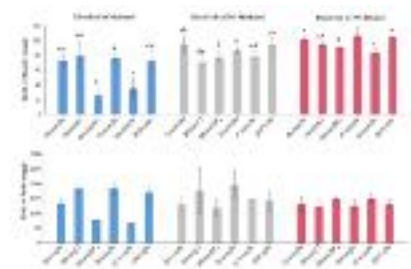
Citing (0)

217

Method for extracting and separating flavonoids from natural products using ionic liquid

By: Jung, Gi Won; Hong, Gyeong Min; Kiyonga, Alice Nguvoko; Min, Eun Gi

Korea, Republic of, KR2023003852 A 2023-01-06 | Language: Korean, Database: CAplus



PatentPak available

Substances (42)

Reactions (0)

Citing (0)

218

Lithium-ion microbattery with very strong density of power

By: Gaben, Fabien

France, FR3124895 A1 2023-01-06 | Language: French, Database: CAplus

PatentPak available

Substances (138)

Reactions (0)

Citing (0)

219

Lithium-ion microbattery with very strong density of power Li₁ 2Cr₀ 1V₀ 1Ca₀ 1B₀ 1Mg₀ 1Bi₀ 1Mo₀ 1Sc₁ 2Sn₁ 2Zr₁ 2Hf₁ 2Se₁ 2Si₁ 2'O₄P₃

By: Gaben, Fabien

France, FR3124894 A1 2023-01-06 | Language: French, Database: CAplus

PatentPak available

Substances (137)

Reactions (0)

Citing (0)

220

Ionic liquid-impregnated catalyst particles comprising silica with excellent durability, membrane electrode assembly for fuel cells, and fuel cell

By: Kurihara, Hitoshi

World Intellectual Property Organization, WO2023277148 A1 2023-01-05 | Language: Japanese, Database: CAplus

PatentPak available

Substances (8)

Reactions (0)

Citing (0)

221

Preparation of anisotropic organic-inorganic hybrid ionic liquid gel fiber

By: Li, Mufang; Yu, Jie; Wang, Dong; Luo, Mengying; Lu, Ying; Yang, Liyan
China, CN115559011 A 2023-01-03 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (15)

 Reactions (0)

 Citing (0)

222

High power density and low-cost lithium-ion battery

By: Gaben, Fabien
World Intellectual Property Organization, WO2023275779 A1 2023-01-05 | Language: French, Database: CAplus

PatentPak available

 Substances (167)

 Reactions (0)

 Citing (0)

223

Plant-inspired zwitterionic monomers, polymers, and uses thereof

By: Panzer, Matthew; Taylor, Morgan; Alexiou, Ayse Asatekin
World Intellectual Property Organization, WO2023278268 A1 2023-01-05 | Language: English, Database: CAplus

PatentPak available

 Substances (17)

 Reactions (7)

 Citing (0)

224

Preparation method of weather-resistant electrochromic coating

By: Chen, Keheng; Jing, Denghui
China, CN115558399 A 2023-01-03 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (17)

 Reactions (0)

 Citing (0)

225

Method for manufacturing ion sensor, and method for measuring ion

By: Kojima, Junko; Uchiyama, Kenichi; Hongo, Sayaka
World Intellectual Property Organization, WO2023276380 A1 2023-01-05 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (22)

 Reactions (0)

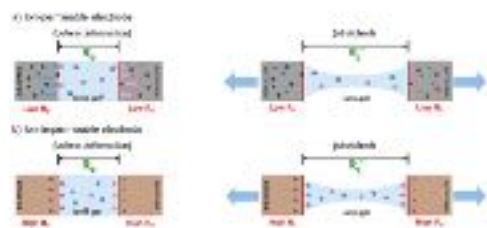
 Citing (0)

226

High-sensitivity stretchable tensile sensor containing ionic gel and its manufacturing method

By: Lee, Geun Hyeong; Kim, Jeong Hui

Korea, Republic of, KR2023000087 A 2023-01-02 | Language: Korean, Database: CAplus



PatentPak available

Substances (15)

Reactions (0)

Citing (0)

227

Antistatic polypropylene composite material and preparation method thereof

By: Wang, Liwen; Wu, Limin; Liu, Zhengjun; Wang, Fahui

China, CN115536939 A 2022-12-30 | Language: Chinese, Database: CAplus

PatentPak available

Substances (6)

Reactions (0)

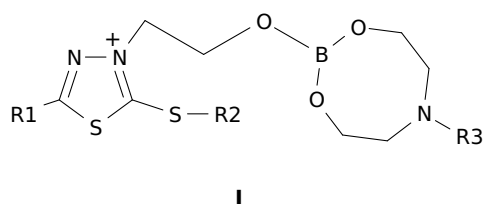
Citing (0)

228

High-performance ionic liquid and preparation method thereof, thiazole compound, and lubricant comprising the ionic liquid

By: Ma, Zhikuan

China, CN115536685 A 2022-12-30 | Language: Chinese, Database: CAplus



PatentPak available

Substances (21)

Reactions (25)

Citing (0)

229

Electrostatic-chemical double cross-linked polysiloxane carboxylate ammonium salt ion gel

By: He, Yong; Liu, Wenhan; Yao, Miao; Nie, Jun

China, CN115536875 A 2022-12-30 | Language: Chinese, Database: CAplus

PatentPak available

Substances (18)

Reactions (0)

Citing (0)

230

High-performance ion-electron composite thermoelectric fiber and preparation method thereof

By: Wang, Dong; Li, Mufang; Chen, Huijun; Luo, Mengying; Zhong, Weibing; Lu, Ying
China, CN115522279 A 2022-12-27 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (23)

 Reactions (0)

 Citing (0)

231

Flexible composite dielectric hydrophobic membrane capable of driving fluid at low voltage and preparation method thereof

By: Shui, Lingling; Cao, Jieping; Qin, Xiaofeng
China, CN115521493 A 2022-12-27 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (6)

 Reactions (0)

 Citing (0)

232

Method for synthesizing fluorine-containing alkene ether

By: Luo, Kai; Luo, Shengqiao; Chen, Binbin; Dou, Ruohan; Gan, Libing; Lai, Bihong; Hu, Jun
China, CN115504867 A 2022-12-23 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (31)

 Reactions (2)

 Citing (0)

233

Ionic gel with electrical conductivity and good mechanical property and preparation method thereof

By: Yu, Ran; Zhang, Manwen; Huang, Wei; He, Yangyang; Zhao, Xiaojuan; Yang, Xin; Zhang, Ying
China, CN115505073 A 2022-12-23 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (42)

 Reactions (0)

 Citing (0)

234

Method for preparing 1,1'-peroxydicyclohexylamine

By: Bian, Xinjian; Li, Junping; Ma, Desen; Zhang, Shaowei; Zhang, Yongzhen; Wang, Lei; Li, Yuan; Hua, Weiqi
China, CN115504939 A 2022-12-23 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (15)

 Reaction (1)

 Citing (0)

235

Device comprising potentiostat and methods for characterization of semiconductor films

By: De Keersmaecker, Michel; Ratcliff, Erin L.; Armstrong, Neal R.

World Intellectual Property Organization, WO2022265943 A2 2022-12-22 | Language: English, Database: CAplus

PatentPak available

 Substances (21)

 Reactions (0)

 Citing (0)

236

Composite material comprising a fluorinated amide for use in electrochemical cells

By: Zhang, Xuewei; Daigle, Jean-Christophe; Kim, Chisu

World Intellectual Property Organization, WO2022261785 A1 2022-12-22 | Language: French, Database: CAplus

PatentPak available

 Substances (160)

 Reactions (0)

 Citing (0)

237

Rare earth metal oxide preparation

By: Nockemann, Peter; Brolly, Donnacha; Bradley, Ena; McCourt, Eadaoin

United Kingdom, GB2607851 A 2022-12-21 | Language: English, Database: CAplus



PatentPak available

 Substances (13)

 Reactions (0)

 Citing (0)

238

Preparation of nanoparticle-loaded ionic liquid and functional modification of polylactic acid material

By: Zhang, Zhicheng; Zhang, Li; Yuan, Meng

China, CN115490920 A 2022-12-20 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (16)

 Reactions (3)

 Citing (0)

239

Composite material comprising a fluorinated amide for use in electrochemical cells

By: Zhang, Xuewei; Daigle, Jean-Christophe; Kim, Chisu
Canada, CA3122820 A1 2022-12-18 | Language: French, Database: CAplus

PatentPak available

 Substances (157)

 Reactions (0)

 Citing (0)

240

Uncrosslinked fluororubber composition, seal material produced using same, and method for producing same

By: Yasuda, Hiroaki; Hamamura, Takehiro; Yamamoto, Tetsuya; Iezumi, Naofumi
World Intellectual Property Organization, WO2022259642 A1 2022-12-15 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (9)

 Reactions (0)

 Citing (0)

241

Countercurrent extraction of rare earth metal with ionic liquid

By: Nockemann, Peter; Brolly, Donnacha; Bradley, Ena; McCourt, Eadaoin
United Kingdom, GB2607551 A 2022-12-14 | Language: English, Database: CAplus



PatentPak available

 Substances (11)

 Reactions (0)

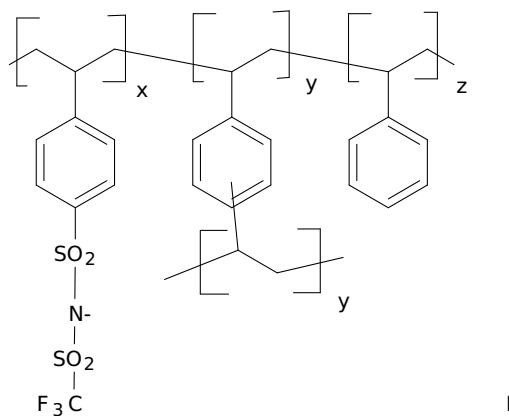
 Citing (0)

242

Polymer compound for monoglyceride synthesis

By: Kono, Yuki; Makino, Takashi

Japan, JP2022181809 A 2022-12-08 | Language: Japanese, Database: CAplus



PatentPak available

Substances (20)

Reactions (7)

Citing (0)

243

An electric storage device, and the separator for electric storage devices

By: Yamashita, Akihisa

Japan, JP2022181111 A 2022-12-07 | Language: Japanese, Database: CAplus

PatentPak available

Substances (16)

Reactions (0)

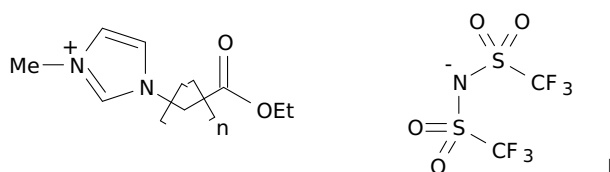
Citing (0)

244

Preparation of temperature-responsive imidazolium ionic liquid and its method for extracting gold (III)

By: Yang, Yanzhao; Liu, Xiaoxia

China, CN115433130 A 2022-12-06 | Language: Chinese, Database: CAplus



PatentPak available

Substances (13)

Reactions (9)

Citing (0)

245

Preparation of solid ionic elastomer with strong and weak ion clusters for flexible sensor

By: Lv, Xiaolin; Yu, Li; Zou, Zhigang

China, CN115433307 A 2022-12-06 | Language: Chinese, Database: CAplus

PatentPak available Substances (12) Reaction (1) Citing (0)

246

Bipolar solid-state lithium/lithium ion battery and preparation method

By: Shan, Yinghui; Lin, Shuang; Wu, Tao; Zhan, Xianglian; Zhang, Bing; Xu, Yan; Zhao, Yanhong; Li, Zhenduo; Zhang, Chuanyue; Wang, Yingjian

China, CN115441040 A 2022-12-06 | Language: Chinese, Database: CAplus

PatentPak available Substances (3) Reactions (0) Citing (0)

247

Lithium metal anode and its preparation method and application in lithium ion battery

By: Song, Huiyu; Tao, Mengli; Du, Li; Cui, Zhiming

China, CN115440935 A 2022-12-06 | Language: Chinese, Database: CAplus

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

248

Lithium-containing anode and preparation method and application thereof

By: Xu, Jingjing; Wu, Xiaodong

China, CN115440934 A 2022-12-06 | Language: Chinese, Database: CAplus

PatentPak available Substances (48) Reactions (0) Citing (0)

249

Carbon-based anode and preparation method and application thereof

By: Xu, Jingjing; Wang, Lei; Wu, Xiaodong

China, CN115440929 A 2022-12-06 | Language: Chinese, Database: CAplus

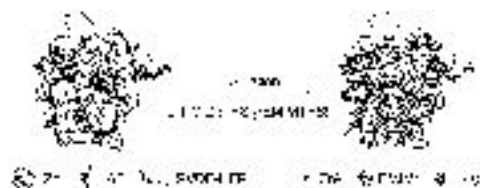
PatentPak available Substances (46) Reactions (0) Citing (0)

250

Flexible and stable 3d Zn electrode for high-power density Zn metal batteries

By: Zhu, Yunguang; Shao-Horn, Yang

United States, US20220384846 A1 2022-12-01 | Language: English, Database: CAplus



PatentPak available

Substances (12)

Reactions (0)

Citing (0)

251

Method for preparing multifunctional essential oil composition used for refreshing mind and resolving depression and application thereof

By: Chen, Guosheng; He, Yongling; Deng, Yuexin

China, CN115404128 A 2022-11-29 | Language: Chinese, Database: CAplus

PatentPak available

Substances (58)

Reactions (0)

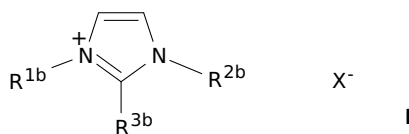
Citing (0)

252

Direct regeneration of lithium ion cathodes by ionothermal relithiation

By: Luo, Huimin; Dai, Sheng; Wang, Tao; Belharouak, Ilias; Li, Jianlin; Bai, Yaocai

United States, US20220376240 A1 2022-11-24 | Language: English, Database: CAplus



PatentPak available

Substances (29)

Reactions (0)

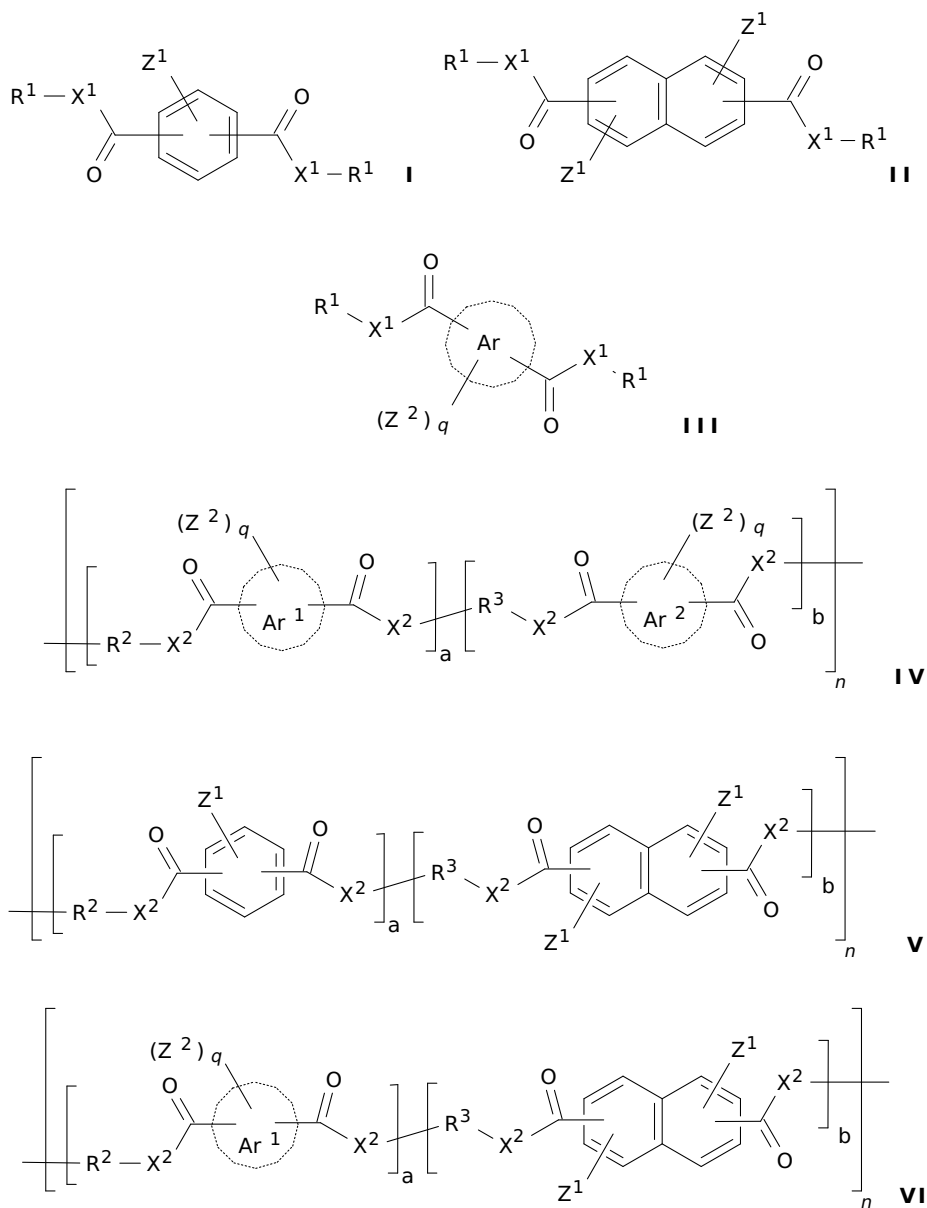
Citing (0)

253

Electrochromic materials and devices, preparation and use thereof

By: Sotzing, Gregory Allen; Daniels, Robert Adrian

World Intellectual Property Organization, WO2022246027 A1 2022-11-24 | Language: English, Database: CPlus



PatentPak available

Substances (77)

Reactions (39)

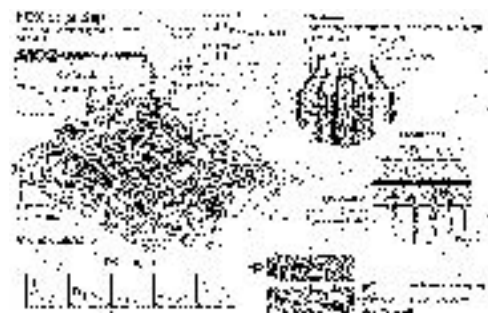
Citing (0)

254

Devices for micro gas chromatography and methods of making and uses thereof

By: Agah, Masoud

United States, US20220373518 A1 2022-11-24 | Language: English, Database: CAplus

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

255

Preparation of antibacterial polyurethane coating

By: Gao, Zhichao; He, Hong

China, CN115386290 A 2022-11-25 | Language: Chinese, Database: CAplus

PatentPak available Substances (22) Reactions (3) Citing (0)

256

Modified chlorophyll dye transfer printing method for polyester fabric

By: Zhang, Xiaohui

China, CN115387137 A 2022-11-25 | Language: Chinese, Database: CAplus

PatentPak available Substances (8) Reactions (0) Citing (0)

257

Camera module containing a polymer composition

By: Kim, Young Shin

World Intellectual Property Organization, WO2022245660 A1 2022-11-24 | Language: English, Database: CAplus

PatentPak available Substances (13) Reactions (0) Citing (0)

258

Preparation method of anti-seepage material for buildings

By: Cai, Xiaojun

China, CN115385602 A 2022-11-25 | Language: Chinese, Database: CAplus

PatentPak available Substances (11) Reactions (0) Citing (0)

259

Film material with switchable light transmittance and color cycling and its preparation method

By: Guo, Shumeng; Shen, Wenbo

China, CN115386384 A 2022-11-25 | Language: Chinese, Database: CAplus

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

260

Electrode for energy storage device, method for producing thereof, and binder

By: Ogawa, Yuji; Kitagawa, Masaki; Orita, Akihiro; Hirasawa, Manabu

World Intellectual Property Organization, WO2022244884 A1 2022-11-24 | Language: Japanese, Database: CAplus

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

261

Elastic self-healing hydrogel electrolyte with wide temperature range for flexible zinc-ion battery and preparation method

By: Sun, Wei; Gao, Xin; You, Zhengwei; Zhu, Liwei; Sun, Lijie; Huang, Hongfei

China, CN115386041 A 2022-11-25 | Language: Chinese, Database: CAplus

PatentPak available Substances (20) Reaction (1) Citing (0)

262

Polyisocyanate composition, preparation method therefor and application thereof

By: Wang, Nuancheng; Fan, Weijing; Yu, Tao; Wang, Dan; Liu, Weijie; Zhao, Yongnian; Li, Haijun; Shi, Bin; Shang, Yonghua

World Intellectual Property Organization, WO2022241616 A1 2022-11-24 | Language: Chinese, Database: CAplus

PatentPak available Substances (69) Reactions (0) Citing (0)

263

Preparation of chitosan polyproton type **ionic liquid** water-soluble film

By: Zhang, Lihua; Xie, Haibo; Sheng, Hailiang; Yang, Mao
China, CN115368600 A 2022-11-22 | Language: Chinese, Database: CAplus

PatentPak available Substances (7) Reactions (0) Citing (0)

264

Preparation method of anti-swelling tough hydrogel

By: Zhou, Xuechang; Xu, Ziyao; Wang, Haifei
China, CN115368588 A 2022-11-22 | Language: Chinese, Database: CAplus

PatentPak available Substances (17) Reaction (1) Citing (0)

265

Liquid crystal electrolyte membrane, actuator, piezoelectric element, and stress sensor

By: Yoshio, Masafumi; Cao, Siyu
Japan, JP2022173845 A 2022-11-22 | Language: Japanese, Database: CAplus

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

266

Underwater high-viscosity solid ion elastomer and preparation method thereof

By: Lv, Xiaolin; Gong, Yue; Zou, Zhigang
China, CN115368499 A 2022-11-22 | Language: Chinese, Database: CAplus

PatentPak available Substances (19) Reactions (3) Citing (0)

267

Single component polyion **liquid** adhesive and preparation method thereof

By: Wang, Hong; Wang, Binmin
China, CN115353837 A 2022-11-18 | Language: Chinese, Database: CAplus

PatentPak available Substances (149) Reactions (53) Citing (0)

268

Method for dyeing and finishing cotton knitted fabric

By: Qin, Xiaobing; Su, Yonggang; Wei, Shiqiang; Zhong, Shuguang; Li, Zhidong; Zhang, Yuli
China, CN115354510 A 2022-11-18 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (23)

 Reactions (0)

 Citing (0)

269

Desizing dyeing and finishing process

By: Zhao, Hongbing; Duan, Ping; Geng, Ning; Ma, Qiguang; Qin, Yanmei; Hao, Changling; Su, Shun
China, CN115354498 A 2022-11-18 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (37)

 Reactions (0)

 Citing (0)

270

Thermoelectric conversion apparatus and cobalt metal complex

By: Murakami, Yoichi; Ikeda, Yutaka; Cho, Yuki; Nagatsuka, Shinya; Fujii, Takafumi; Ikeda, Masaaki
World Intellectual Property Organization, WO2022239856 A1 2022-11-17 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (6)

 Reactions (0)

 Citing (0)

271

Polycarbonate resin composition, molded article and manufacturing method of polycarbonate resin composition

By: Matsuo, Yuichi; Fujita, Masashi
Japan, JP7170946 B1 2022-11-14 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (12)

 Reactions (0)

 Citing (0)

272

Scouring and bleaching process of cotton fabric before dyeing

By: He, Haidong; Chen, Jiasheng; Chen, Shutong; Gao, Yongling; Ding, Tao; Ding, Tongji; Duan, Changxia
China, CN115323759 A 2022-11-11 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (22)

 Reactions (0)

 Citing (0)

273

Method for removing white oil from ultra-high molecular weight polyethylene gel fiber by using ionic liquid

By: Zhou, Xinji; Li, Xunxun; Zhu, Jianjun; Niu, Yanfeng
China, CN115305602 A 2022-11-08 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (42)

 Reactions (0)

 Citing (0)

274

Method for preparing ionic liquid-based copolymer gel electrolyte

By: Fang, Dawei; Wen, Jingyi; Liu, Na
China, CN115304710 A 2022-11-08 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (22)

 Reactions (7)

 Citing (0)

275

Preparation of infrared stealth system compatible with electrovariable emissivity and radiation heat dissipation

By: Ding, Pei; Su, Jinchao; Wang, Pei; Xu, Kun; Wang, Xianli; Li, Yan; Tian, Ximin; Zeng, Fanguang
China, CN115302906 A 2022-11-08 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (19)

 Reactions (0)

 Citing (0)

276

Cathodic protection method using ionic liquid

By: Kinoshita, Masaaki; Ito, Satoshi
Japan, JP2022168625 A 2022-11-08 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (7)

 Reactions (0)

 Citing (0)

277

Preparation of degradable solvent-free ion conductive elastomer for preparation of flexible organic electronic device

By: Wang, Shanfeng; Ma, Yunfa; Xie, Zhuang
China, CN115304725 A 2022-11-08 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (12)

 Reaction (1)

 Citing (0)

278

Preparation of quaternary ammonium salts as ionic liquid and its application

By: Du, Binyang; Guan, Zeliang; Bai, Ling; Nie, Jingjing

China, CN115286522 A 2022-11-04 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (27) Reactions (16) Citing (0)

279

Preparation method of switchable oil-water separation intelligent material polyionic liquid

By: Song, Hongbing; Wang, Jiaqiang; Ge, Hengjun; Xiao, Meng; Zhu, Quanhong

China, CN115286771 A 2022-11-04 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (15) Reactions (9) Citing (0)

280

Cost effective preparation of 4,4'-dichlorodiphenylsulfone by using perfluoroalkanesulfonic acid ionic liquid

By: Liao, Guangming; Zhou, Yuyou; Huang, Senbiao; Wang, Min; Wei, Chengfei

China, CN115286543 A 2022-11-04 | Language: Chinese, Database: CAplus

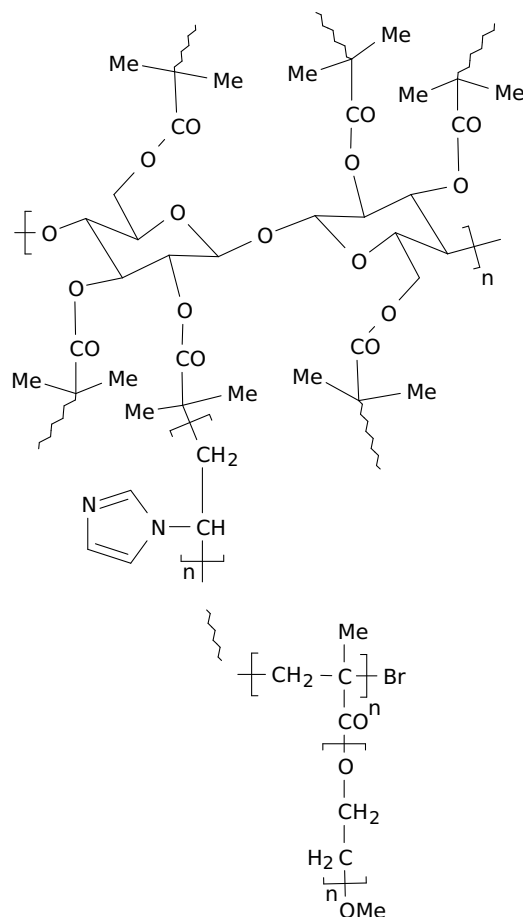
PatentPak available

 Substances (18) Reactions (10) Citing (0)

281

Block polymer based on brush cellulose skeleton for solid electrolyte and preparation method thereof

By: Wu, Jingyu; Yang, Yong; Zhu, Xinlin; Li, Zhongliang; Tang, Ming; Liu, Liyang; Cao, Dong
 China, CN115286751 A 2022-11-04 | Language: Chinese, Database: CAplus



PatentPak available

Substances (23)

Reactions (6)

Citing (0)

282

Electrochemical reduction method of carbon dioxide to prepare porous carbon material

By: Xin, Feng; Dong, Shihong; Wu, Qianqian; He, Wen
 China, CN115261890 A 2022-11-01 | Language: Chinese, Database: CAplus

PatentPak available

Substances (36)

Reactions (0)

Citing (0)

283

Morpholine carboxylic acid ionic liquid and its method for extracting samarium

By: Zeng, Qingyue; Liang, Xiayu
 China, CN115261647 A 2022-11-01 | Language: Chinese, Database: CAplus

PatentPak available

Substances (10)

Reactions (0)

Citing (0)

284

Preparation method of hydroxypropyl- γ -cyclodextrin

By: Wang, Zhe; Xu, Weicheng; Liu, Tao; Wang, Liping; Cui, Liyan
China, CN115260342 A 2022-11-01 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (7) Reaction (1) Citing (0)

285

MXene stable ionic liquid based phase change emulsion and preparation method thereof

By: Li, Changping; Wang, Fangxian; Jiang, Jieyun; Guo, Juanxuan
China, CN115260993 A 2022-11-01 | Language: Chinese, Database: CAplus

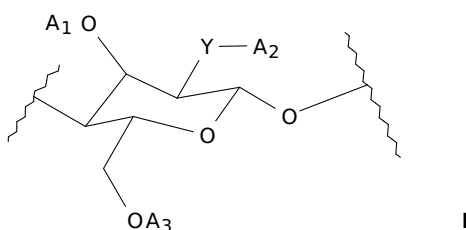
PatentPak available

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

286

Application of ionic polysaccharide derivative as anti-icing coating material

By: Zhang, Jinming; Cheng, Yaohui; He, Zhiyuan; Zhang, Jun; Wang, Jianjun
China, CN115260320 A 2022-11-01 | Language: Chinese, Database: CAplus



PatentPak available

 Substances (34) Reactions (24) Citing (0)

287

Oxide-based solid electrolyte sheet and manufacturing method thereof, all-solid-state battery comprising the oxide-based solid electrolyte sheet, and method of manufacturing the all-solid-state battery

By: Kim, Tae Hyeon; Nam, Jae Bin; Jang, Won Seok
Korea, Republic of, KR2022145605 A 2022-10-31 | Language: Korean, Database: CAplus



PatentPak available

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

288

Underwater high-strength ion gel and preparation method thereof

By: Yang, Jintao; Wang, Shuaibing; Zheng, Siyu; Zhou, Jiahui; Wang, Zhu
 China, CN115232242 A 2022-10-25 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (35)

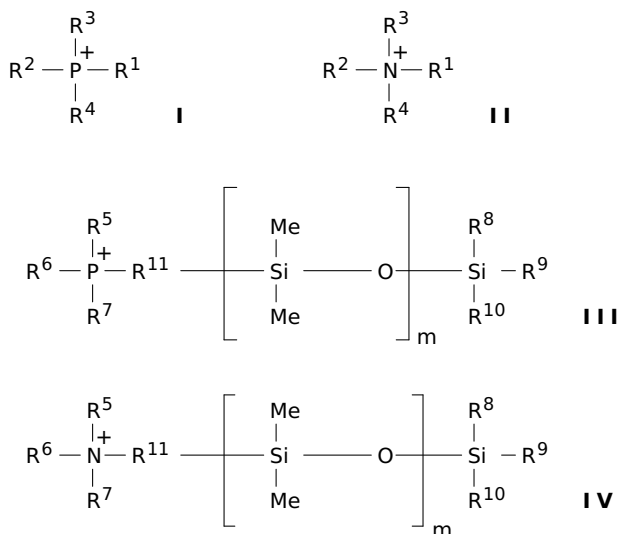
 Reactions (5)

 Citing (0)

289

Electrophotographic member that contributes to a stable formation of high quality electrophotographic images over a long period of time and electrophotographic image forming apparatus

By: Takenaga, Masahiro; Baba, Yusuke
 United States, US20220334506 A1 2022-10-20 | Language: English, Database: CAplus



PatentPak available

 Substances (22)

 Reactions (11)

 Citing (0)

290

Ionic liquid inspired zwitterions with high conductivity and transport number

By: Jones, Seamus D.; Chen, Yanqiao; Richardson, Peter; Clement, Raphaelle; Hawker, Craig J.; Fredrickson, Glenn H.; Segalman, Rachel A.

World Intellectual Property Organization, WO2022221307 A1 2022-10-20 | Language: English, Database: CAplus

PatentPak available

 Substances (35)

 Reactions (0)

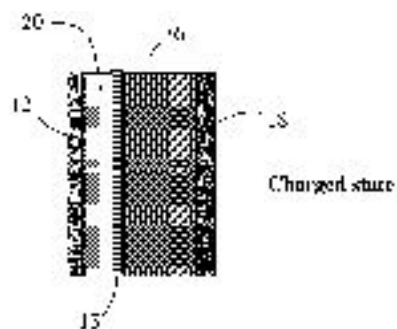
 Citing (0)

291

Method of producing flame-resistant quasi-solid electrolytes and lithium batteries containing same

By: Jang, Bor Z.

United States, US20220336859 A1 2022-10-20 | Language: English, Database: CAplus



PatentPak available

Substances (152)

Reactions (0)

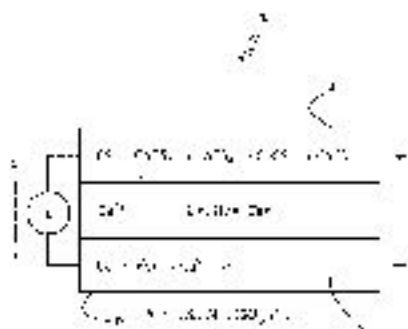
Citing (0)

292

Rechargeable calcium battery

By: Hosein, Ian

United States, US20220336863 A1 2022-10-20 | Language: English, Database: CAplus



PatentPak available

Substances (20)

Reactions (0)

Citing (0)

293

Environment-friendly extraction and separation method of platinum by leaching, extracting with ionic liquid extractant, impurity washing and back extraction

By: Jiang, Hangyu; Wang, Lu; Zhao, Yin

China, CN115216640 A 2022-10-21 | Language: Chinese, Database: CAplus

PatentPak available

Substances (15)

Reactions (0)

Citing (0)

294

Preparation of ultra-high molecular weight polyethylene protective film with self-cleaning and dust-proof effect

By: Wu, Junshi; Wan, Zhaorong; Mi, Yongli; Lv, Dong; Xie, Peng
China, CN115197492 A 2022-10-18 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (21)

 Reactions (0)

 Citing (0)

295

Preparation method of polyionic liquid/attapulgite hybrid material and its application in adsorption of para-nitrophenol

By: Zhang, Zhe; Xi, Jiao; Zhang, Yue; Fang, Qiqi; Zhang, Nan; Xiao, Yuxuan; Zhou, Pengxin
China, CN115193418 A 2022-10-18 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (6)

 Reactions (0)

 Citing (0)

296

Preparation method for low-temperature grinding of UPE material and frozen plastic sand of UPE material

By: Wu, Junshi; Wan, Zhaorong; Mi, Yongli; Lv, Dong; Xie, Peng
China, CN115160675 A 2022-10-11 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (16)

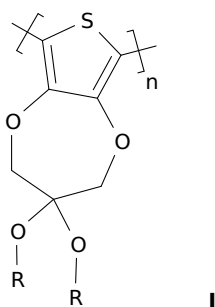
 Reactions (0)

 Citing (0)

297

Electrochromic polymer, electrochromic device and preparation method thereof

By: Zhou, Yongnan; Tao, Yijie
China, CN115160544 A 2022-10-11 | Language: Chinese, Database: CAplus



PatentPak available

 Substances (29)

 Reactions (2)

 Citing (0)

298

Method for electrochemical gas separation

By: Voskian, Sahag; Reath, Alexander; Rogers, Cameron; Murray, Alex; Oh, Seokjoon

World Intellectual Property Organization, WO2022216355 A1 2022-10-13 | Language: English, Database: CAplus

PatentPak available

 Substances (47)

 Reactions (0)

 Citing (0)

299

Method for preparing bifunctional imidazole ionic **liquid** and elastomer electrolyte with self-adaptive deformation for lithium battery

By: Chen, Ben

China, CN115160233 A 2022-10-11 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (62)

 Reactions (13)

 Citing (0)

300

Method for oxidative degradation of lignin

By: Wang, Jiebin; Han, Chi; Wei, Ligang; An, Qingda; Huang, Dezhi; Gao, Hailian; Xu, Xiaoxiao; Zhu, Xinyu; Mao, Tianyou; Liu, Jingjing

China, CN115160383 A 2022-10-11 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (5)

 Reactions (0)

 Citing (0)

301

Tri-enzyme nano reactor and application thereof in divergent synthesis of chiral tertiary α -phenylcyclo

By: Liu, Yunting; Luan, Pengqian; Gao, Jing; Jiang, Yanjun

China, CN115161297 A 2022-10-11 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (12)

 Reactions (0)

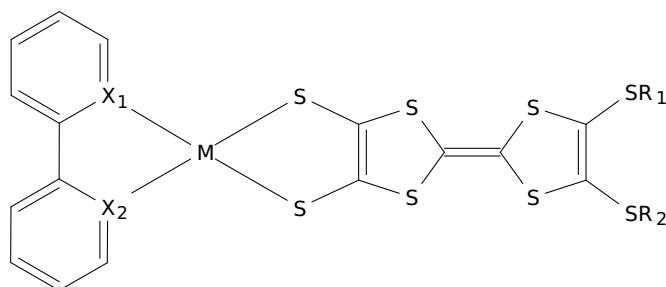
 Citing (0)

302

Electrochromic device having electrochromic compound for light-shielding glass for aircraft

By: Kubo, Kazuya; Kim, Yuna; Hori, Aoi

Japan, JP2022149675 A 2022-10-07 | Language: Japanese, Database: CAplus



PatentPak available

Substances (31)

Reactions (13)

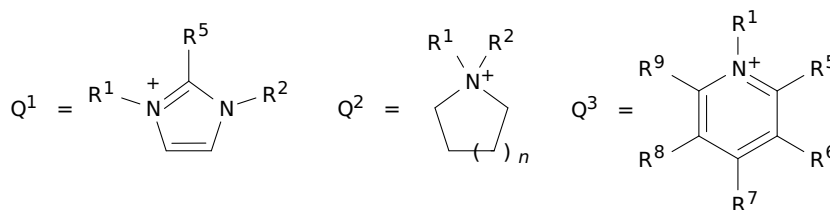
Citing (0)

303

Fluorine-based ionic liquid and production method thereof

By: Miura, Yuji; Murakami, Satoshi; Ohnishi, Toshiyuki

World Intellectual Property Organization, WO2022209538 A1 2022-10-06 | Language: Japanese, Database: CAplus



PatentPak available

Substances (18)

Reactions (10)

Citing (0)

304

Hydrophilic membrane separation layer

By: Bagge, Bitu; Bagge, Robb; Zheng, Shijun; Lin, Weiping; Wang, Peng

World Intellectual Property Organization, WO202212357 A1 2022-10-06 | Language: English, Database: CAplus

PatentPak available

Substances (8)

Reactions (0)

Citing (0)

305

Coating composition with excellent strength and self-healing performance for forming film for laminate

By: Kamiyama, Hiroshi; Tamate, Ryota; Ueki, Takeshi

Japan, JP2022147878 A 2022-10-06 | Language: Japanese, Database: CAplus

PatentPak available

Substances (13)

Reactions (2)

Citing (0)

306

Titanium-containing oxide powder, negative electrode active material composition using same, and all-solid-state secondary battery

By: Shimamoto, Kei; Takenaka, Takumi

World Intellectual Property Organization, WO2022211106 A1 2022-10-06 | Language: Japanese, Database: CAplus

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

307

Method for producing ion gel with excellent moldability and uniformity for forming solid electrolyte for actuator

By: Kamiyama, Hiroshi; Tamate, Ryota; Ueki, Takeshi

Japan, JP2022147877 A 2022-10-06 | Language: Japanese, Database: CAplus

PatentPak available Substances (14) Reactions (2) Citing (0)

308

Porous polymer pressure-sensitive film as flexible piezoresistive material

By: Xiao, Zhiwen; Huang, Yong

China, CN115141410 A 2022-10-04 | Language: Chinese, Database: CAplus

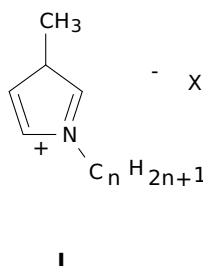
PatentPak available Substances (38) Reactions (0) Citing (0)

309

Antistatic thermoplastic polyurethane and preparation method and application

By: Tang, Xiaofeng; Xiang, Ping; Yu, Ziya

China, CN115141480 A 2022-10-04 | Language: Chinese, Database: CAplus

**PatentPak** available Substances (6) Reactions (0) Citing (0)

310

Gel electrolyte and electrochromic element

By: Oya, Kayato; Kaneko, Fuminari; Fukuda, Toshio; Yutani, Keiichiro; Tsutsui, Takashi
Japan, JP2022139439 A 2022-09-26 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (23)

 Reactions (0)

 Citing (0)

311

Preparation method of ionic liquid functionalized polylactic acid material as dispersant

By: Fang, Dawei; Wen, Jingyi; Liu, Na; Zhang, Jince
China, CN115093555 A 2022-09-23 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (20)

 Reaction (1)

 Citing (0)

312

method for extracting active ingredients from Rubus coreanus miquel fruits

By: Kang, Hyeon
Korea, Republic of, KR2446729 B1 2022-09-22 | Language: Korean, Database: CAplus

PatentPak available

 Substances (4)

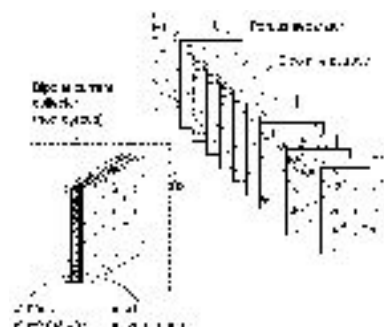
 Reactions (0)

 Citing (0)

313

Flame-resistant bipolar electrodes, bipolar lithium batteries, and manufacturing method

By: Jang, Bor Z.
United States, US20220302440 A1 2022-09-22 | Language: English, Database: CAplus



PatentPak available

 Substances (148)

 Reactions (8)

 Citing (0)

314

Flame-resistant bipolar electrodes, bipolar lithium batteries, and manufacturing method

By: Jang, Bor Z.

World Intellectual Property Organization, WO2022198241 A1 2022-09-22 | Language: English, Database: CAplus

PatentPak available

 Substances (148) Reactions (0) Citing (0)

315

Electrochromic fiber fabric and preparation method thereof

By: Tao, Guangming; Wu, Jiawei

China, CN115074863 A 2022-09-20 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (17) Reactions (0) Citing (0)

316

Preparation method of ethylene-tetrafluoroethylene copolymer

By: Meng, Qingwen; Yu, Guojun; Cheng, Yu; Chen, Weifeng; Hu, Shuaijie; Guo, Jianxin

China, CN115073640 A 2022-09-20 | Language: Chinese, Database: CAplus

PatentPak available

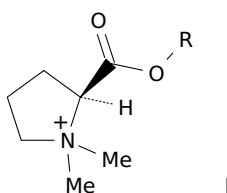
 Substances (27) Reactions (7) Citing (0)

317

Green preparation of stachydrine **ionic liquid** and its applications

By: Zhang, Jiaheng; Liu, Zhengyang; Chen, Xiaoxin; Chen, Zhengjian; Xu, Lin; Liu, Lingwen; Kong, Jing; Fei, Yuqing

China, CN115073346 A 2022-09-20 | Language: Chinese, Database: CAplus



PatentPak available

 Substances (14) Reactions (16) Citing (0)

318

Electrochromic material, film, device and application thereof in information storage, anti-counterfeiting, sensing and display fields

By: Zhang, Yumo; Yang, Baige; Zhang, Xiaolan; Li, Chenglong; Wang, Yue
China, CN115073505 A 2022-09-20 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (36)

 Reactions (0)

 Citing (0)

319

Preparation method of L-carnitine ionic liquid from L-carnitine by halogenation and ion exchange, and application thereof in electrolyte or extractant

By: Chen, Zhengjian; Zhang, Jiaheng; Chen, Xiaoxin; Xu, Lin; Liu, Lingwen; Kong, Jing; Fei, Yuqing
China, CN115057789 A 2022-09-16 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (16)

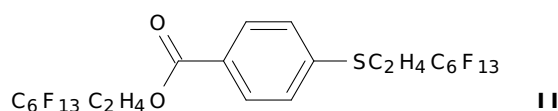
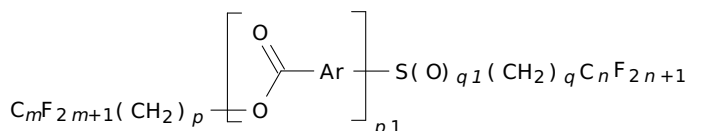
 Reactions (12)

 Citing (0)

320

Fluorine-containing aromatic ester compound for gelation agent

By: Okamoto, Hiroaki; Morita, Yuki
Japan, JP2022136032 A 2022-09-15 | Language: Japanese, Database: CAplus



PatentPak available

 Substances (47)

 Reactions (81)

 Citing (0)

321

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

By: Matsuo, Yuichi; Nishioka, Satoshi; Fujita, Masashi
World Intellectual Property Organization, WO2022190359 A1 2022-09-15 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (19)

 Reactions (0)

 Citing (0)

322

Gel electrolyte and electrochromic element

By: Ohya, Kayato; Kaneko, Fuminari; Fukuda, Tomoo; Yutani, Keiichiroh; Tsutsui, Takashi

World Intellectual Property Organization, WO2022189874 A1 2022-09-15 | Language: English, Database: CAplus

PatentPak available

 Substances (23)

 Reactions (0)

 Citing (0)

323

Lithium sulfur solid-state battery

By: Michihata, Hideo; Hobara, Natsuro

Japan, JP2022133517 A 2022-09-14 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (5)

 Reactions (0)

 Citing (0)

324

Ionic liquid based magnetic liquid and its preparation method

By: Li, Decai; Nie, Shilin

China, CN115050533 A 2022-09-13 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (11)

 Reactions (0)

 Citing (0)

325

Dynamic oxime urethane bond ionic gel and preparation method thereof

By: You, Zhengwei; Sun, Lijie; Huang, Hongfei

China, CN115044191 A 2022-09-13 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (9)

 Reactions (2)

 Citing (0)

326

Composition, member and protective equipment thereof

By: Ueki, Takeshi; Sako, Sadaki; Tamate, Ryota

Japan, JP2022131089 A 2022-09-07 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (6)

 Reactions (0)

 Citing (0)

327

Compositions and methods for improving polymer flow rate

By: Xu, Yanjie

United States, US20220282066 A1 2022-09-08 | Language: English, Database: CAplus

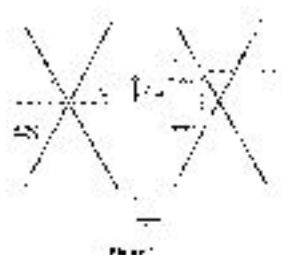
PatentPak available Substances (32) Reactions (0) Citing (0)

328

A device for active modification of thermal radiation

By: Johnstone, James; Dalton, Alan; Lynch, Peter; Large, Matthew; Ogilvie, Sean

European Patent Organization, EP4053076 A1 2022-09-07 | Language: English, Database: CAplus

**PatentPak** available Substances (8) Reactions (0) Citing (0)

329

Composition comprising silicon dioxide and 4-nitroaniline, member and protective equipment

By: Ueki, Takeshi; Sako, Sadaki; Tamate, Ryota

Japan, JP2022131090 A 2022-09-07 | Language: Japanese, Database: CAplus

PatentPak available Substances (7) Reactions (0) Citing (0)

330

Preparation method of superstretched conductive ion gel for adhesive material

By: Lv, Xiaolin; Zhang, Haoqi; Zou, Zhigang

China, CN115028769 A 2022-09-09 | Language: Chinese, Database: CAplus

PatentPak available Substances (22) Reaction (1) Citing (0)

331

Preparation method of reactive rectification loaded catalytic filler

By: Sha, Yong; Wang, Zhiwei; Zhang, Yu; Wang, Yu
China, CN114989484 A 2022-09-02 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (19)

 Reaction (1)

 Citing (0)

332

Crosslinkable compound, composition containing same for formation of solid electrolyte, method for preparation of solid electrolyte by using same, and electronic element including same solid electrolyte

By: Kim, Bong Soo; Cho, Wanho; Kim, Do Hwan; Kweon, Hyukmin; Lee, Chaeyoung; Park, Sangjun
World Intellectual Property Organization, WO2022182011 A1 2022-09-01 | Language: Korean, Database: CAplus

PatentPak available

 Substances (14)

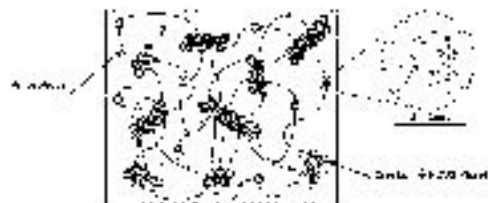
 Reactions (18)

 Citing (0)

333

Polymer-based hybrid solid electrolyte that exhibits high room temperature **ionic** conductivity

By: Chinnam, Parameswara Rao; Ou, Runqing
United States, US11431026 B1 2022-08-30 | Language: English, Database: CAplus



PatentPak available

 Substances (22)

 Reactions (0)

 Citing (0)

334

Preparation of **ionic liquid**-based high-performance conductive composite membrane for sewage treatment contaminated by organic pollutants and heavy metals

By: Tan, Chao
China, CN114950169 A 2022-08-30 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (21)

 Reactions (0)

 Citing (0)

335

Organic carrier and preparation method, conductive paste and application in solar cell

By: Chen, Fengyin; Sun, Fengzhen; Li, Delin

China, CN114974654 A 2022-08-30 | Language: Chinese, Database: CAplus

PatentPak available Substances (28) Reactions (0) Citing (0)

336

Methods for improving quality and efficiency of Phoebe nees essential oil by enzymolysis in **ionic liquid** eutectic solvent, and compound essential oil containing Phoebe nees essential oil

By: Ning, Liping; Sun, Longfei; Hu, Yue; Ding, Wen; Du, Lizhao; Shu, Gang; Xu, Haiyan; Su, Zhiping; Li, Mei; Chi, Bing; et al

China, CN114958483 A 2022-08-30 | Language: Chinese, Database: CAplus

PatentPak available Substances (36) Reactions (0) Citing (0)

337

Surface modified-graphene-supported platinum-based catalyst and its preparation method

By: Yuan, Chao; Zhang, Lin

China, CN114976053 A 2022-08-30 | Language: Chinese, Database: CAplus

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

338

Absorption refrigerant pair

By: Li, Jian; Liu, Xiangyang; He, Maogang; Wang, Shuanlai

China, CN114958307 A 2022-08-30 | Language: Chinese, Database: CAplus

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

339

Method for preparing adsorption material for magnetic carbon nanotube-confined **ionic liquid** for removing phenylurea pesticides in water environment

By: Xu, Xu; Gao, Jiaxin; Liu, Guibin; Li, Xiang; Zhang, Lei

China, CN114950370 A 2022-08-30 | Language: Chinese, Database: CAplus

PatentPak available Substances (16) Reactions (0) Citing (0)

340

Preparation method and device for magnetic porous polyionic **liquid** material

By: Yan, Yong; Xiao, Tao

China, CN114957900 A 2022-08-30 | Language: Chinese, Database: CAplus

PatentPak available Substances (25) Reactions (12) Citing (0)

341

Method for preparing photoresist-reduced carbon quantum dot light-emitting composite system and light-emitting composite system and application thereof in light-emitting layer of electroluminescent electronic device

By: Zou, Yingquan; Wang, Jing; Pang, Yulian; Yi, Mei; Xin, Yangyang

China, CN114958337 A 2022-08-30 | Language: Chinese, Database: CAplus

PatentPak available Substances (47) Reactions (0) Citing (0)

342

Preparation of high-strength microphase separation ion gel with anti-swelling property

By: Jiao, Tifeng; Qin, Zhihui; Zhang, Jiaxin; Zhang, Yuexin

China, CN114940729 A 2022-08-26 | Language: Chinese, Database: CAplus

PatentPak available Substances (6) Reaction (1) Citing (0)

343

Preparation method of novel bifunctional composite coating on magnesium alloy surface

By: Wang, Li; Zhang, Jinglai; Ren, Tiegang; Li, Ning

China, CN114941164 A 2022-08-26 | Language: Chinese, Database: CAplus

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

344

Method for recovering gold from chlorination roasting eluate of gold smelting slag using oxalic acid solution

By: Wang, Wei; Liu, Lin; Liu, Hongzhao; Cao, Yaohua; Wang, Hongliang

China, CN114934178 A 2022-08-23 | Language: Chinese, Database: CAplus

PatentPak available Substances (11) Reactions (0) Citing (0)

345

Carbon fiber/epoxy resin-based supercapacitor and a preparation method thereof

By: Zhou, Song; Shen, Yiou; Ma, Yongchuan

China, CN114933725 A 2022-08-23 | Language: Chinese, Database: CAplus

PatentPak available Substances (10) Reactions (2) Citing (0)

346

Preparation of deuterated compound in ionic liquids

By: Ying, Jue; Wang, Guanyu; Liu, Bin; Luo, Zhibin; Zhai, Hongjin; Xu, Huali

China, CN114933516 A 2022-08-23 | Language: Chinese, Database: CAplus

PatentPak available Substances (22) Reactions (8) Citing (0)

347

Dye recycling methods

By: Abouelela, Aida Rafat; Hallett, Jason Patrick; Firth, Anton Edward Josef; Levers, Oliver Douglas

World Intellectual Property Organization, WO2022175559 A1 2022-08-25 | Language: English, Database: CAplus

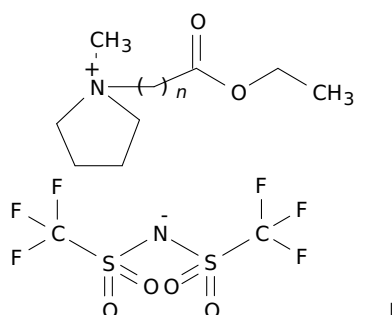
PatentPak available Substances (28) Reactions (0) Citing (0)

348

Preparation of low-viscosity ionic liquid and its application in gold extraction without solvent

By: Yang, Yanzhao; Liu, Xiaoxia

China, CN114920714 A 2022-08-19 | Language: Chinese, Database: CAplus

**PatentPak** available Substances (12) Reactions (9) Citing (0)

349

Preparation of thiophene-bridged viologen **ionic liquids** for electrochromic elastomers

By: He, Gang; Zhang, Yueyan

China, CN114920732 A 2022-08-19 | Language: Chinese, Database: CAplus

PatentPak available Substances (16) Reactions (7) Citing (0)

350

Method for preparing UV-curable **ionic** fluorine-containing polyurethane porous material

By: Wang, Aili; Zhou, Qijie; Zhao, Hongyu

China, CN114920977 A 2022-08-19 | Language: Chinese, Database: CAplus

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

351

Method for producing carbon material

By: Goto, Takuya; Kobayashi, Yusuke; Tchorap-Yamamoto, Shoma; Suzuki, Yuta

World Intellectual Property Organization, WO2022173046 A1 2022-08-18 | Language: Japanese, Database: CAplus

PatentPak available Substances (25) Reactions (0) Citing (0)

352

Method for manufacturing carbon monoxide or organic compound

By: Goto, Takuya; Koue, Jinichi; Suzuki, Yuta; Kozasa, Kentaro; Nozaki, Saya; Tchorap-Yamamoto, Shoma; Isogai, Tomohiro; Kishikawa, Yosuke; Yamauchi, Akiyoshi

World Intellectual Property Organization, WO2022173007 A1 2022-08-18 | Language: Japanese, Database: CAplus

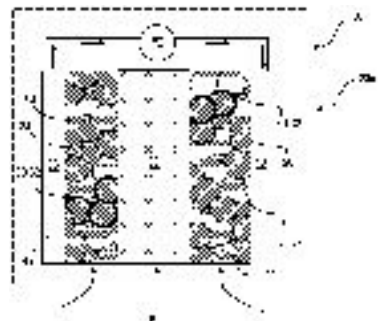
PatentPak available Substances (33) Reactions (0) Citing (0)

353

Production of electrolyte with high ionic conductivity, thermal and long-term cycling stability, and low flammability

By: Lu, Yong; Li, Zhe; Su, Qili

Germany, DE102021129465 A1 2022-08-18 | Language: German, Database: CAplus



PatentPak available

 Substances (20)

 Reactions (0)

 Citing (0)

354

Electrolyte composition containing solid electrolyte and ionic liquid, electrode layer, and electricity storage device

By: Murakami, Kenji; Shishihara, Daisuke; Nagaya, Yoshiaki; Sawanaga, Kaho; Sato, Motohiko

Japan, JP2022118857 A 2022-08-16 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (14)

 Reactions (0)

 Citing (0)

355

Nonaqueous electrolyte, secondary battery, battery pack, vehicle, and stationary power supply

By: Takami, Norio; Sugizaki, Tomoko

United States, US20220255133 A1 2022-08-11 | Language: English, Database: CAplus



PatentPak available

 Substances (46)

 Reactions (0)

 Citing (0)

356

Preparation method and applications of wood-based gel

By: Liu, Xinxin; Chang, Minmin; Ren, Junli

China, CN114891157 A 2022-08-12 | Language: Chinese, Database: CAplus

PatentPak available Substances (14) Reactions (3) Citing (0)

357

Flame-resistant quasi-solid and solid-state electrolytes, lithium batteries and manufacturing method

By: He, Hui; Zhang, Lu; Jang, Bor Z.

World Intellectual Property Organization, WO2022170299 A2 2022-08-11 | Language: English, Database: CAplus

PatentPak available Substances (180) Reactions (0) Citing (0)

358

Thermally stable elastic polymer-encapsulated anode particles for lithium batteries

By: Jang, Bor Z.

World Intellectual Property Organization, WO2022170345 A1 2022-08-11 | Language: English, Database: CAplus

PatentPak available Substances (158) Reactions (13) Citing (0)

359

Method for preparing halogen-free flame-retardant modified epoxy resin

By: Yang, Huihui; Yang, Shuang; Zou, Lanian; Fan, Xiaoqing

China, CN114891227 A 2022-08-12 | Language: Chinese, Database: CAplus

PatentPak available Substances (23) Reactions (5) Citing (0)

360

Cost-effective cation exchange membrane, its preparation method and application

By: Hou, Qingjie; Liu, Fenwu; Sun, Bo; Guo, Ziyin

China, CN114883617 A 2022-08-09 | Language: Chinese, Database: CAplus

PatentPak available Substances (11) Reactions (0) Citing (0)

361

Multifunctional mxene/polyionic liquid composite

By: Wang, Caiqi; Wang, Chunlei

China, CN114854157 A 2022-08-05 | Language: Chinese, Database: CAplus

PatentPak available Substances (9) Reaction (1) Citing (0)

362

Method and device for growing organic material crystal using ionic liquid

By: Shin, Dong Chan

Korea, Republic of, KR2022108373 A 2022-08-03 | Language: Korean, Database: CAplus

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

363

Preparation of self-alarmed and self-repairing material for underwater damage and plasma electronics

By: Wang, Xu; Jia, Liangying

China, CN114854151 A 2022-08-05 | Language: Chinese, Database: CAplus

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

364

Corrosion resistant high voltage electrochemically de-bondable adhesive, adhesive sheets and methods of preparation

By: Hu, Yufen; Rachwal, Stanislaw; Aguirre, Eduardo; Wang, Peng

World Intellectual Property Organization, WO2022165375 A1 2022-08-04 | Language: English, Database: CAplus

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

365

Efficient deodorant for deodorization in thermoplastics preparation process and preparation method thereof

By: Zhang, Naibin; Hu, Jianqiu

China, CN114854092 A 2022-08-05 | Language: Chinese, Database: CAplus

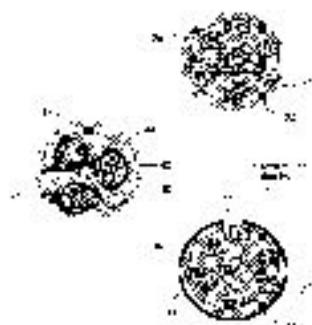
PatentPak available Substances (14) Reactions (0) Citing (0)

366

Thermally stable elastic polymer-encapsulated anode particles for lithium batteries

By: Jang, Bor Z.

United States, US20220246915 A1 2022-08-04 | Language: English, Database: CAplus

**PatentPak** available Substances (158) Reactions (13) Citing (0)

367

A simultaneous-type preparation method for a substrate-supported solid-state composite electrolyte membrane

By: Cheng, Yue; Pan, Xingxing; Bao, Jinzhen; Liu, Qianqian; Zhuang, Zhi

World Intellectual Property Organization, WO2022160941 A1 2022-08-04 | Language: Chinese, Database: CAplus

PatentPak available Substances (36) Reactions (0) Citing (0)

368

Silicon-based anode material and preparation method and application thereof

By: Ma, Yong; Hu, Tao; Zheng, Junhua; Zhou, Jingwei; Hu, Pengfei

China, CN114843496 A 2022-08-02 | Language: Chinese, Database: CAplus

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

369

Epoxy resin conductive adhesive containing composite conductive filler and preparation method thereof

By: Luo, Weizhong; Zhu, Xuhui; Xiao, Ning
China, CN114806476 A 2022-07-29 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (14)

 Reaction (1)

 Citing (0)

370

Encapsulant-containing polymer capsules and fibers and composites including same

By: Green, Matthew; Korah, Mani Modayil
World Intellectual Property Organization, WO2022159605 A1 2022-07-28 | Language: English, Database: CAplus

PatentPak available

 Substances (16)

 Reaction (1)

 Citing (0)

371

Fuel cell proton exchange membrane with high-water retention rate and its preparation method

By: Yang, Fengjuan; Lu, Bailin
China, CN114824395 A 2022-07-29 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (18)

 Reactions (0)

 Citing (0)

372

Method of upcycling condensation polymers in plastic waste via co-catalytic partial depolymerization

By: Hu, Xiao; Lim, Song Kiat Jacob; Guo, Ziyang
World Intellectual Property Organization, WO2022159040 A1 2022-07-28 | Language: English, Database: CAplus

PatentPak available

 Substances (49)

 Reactions (12)

 Citing (0)

373

Lasting antibacterial and bacteriostatic pearl non-woven fabric for sanitary napkin

By: Sha, Yinguo
China, CN114790655 A 2022-07-26 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (8)

 Reactions (0)

 Citing (0)

374

Preparation method of room temperature self-healing fluoropolymer binder for highly filled composite materials

By: Huang, Xin; Huang, Zhong

China, CN114790372 A 2022-07-26 | Language: Chinese, Database: CAPlus

PatentPak available Substances (6) Reactions (0) Citing (0)

375

Non-release durable broad-spectrum antibacterial and antiviral textile and preparation method thereof

By: Li, Jingye; Yu, Ming; Wang, Ziqiang; Zhang, Bowu

China, CN114775278 A 2022-07-22 | Language: Chinese, Database: CAPlus

PatentPak available Substances (22) Reactions (0) Citing (0)

376

Unsaturated polyester resin material for glass fiber reinforced plastic pipe and preparation method thereof

By: Luo, Liangsheng; Li, Zhiming; Chen, Jun; Zhang, Yefei; Gong, Xiaobo; Tang, Kun

China, CN114773814 A 2022-07-22 | Language: Chinese, Database: CAPlus

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

377

Method for separation and purification of tert-butanol using ionic liquid

By: Jiang, Hangyu; Zhao, Yin; Liu, Yuhao; Wang, Lu; Huang, Zhiyong

China, CN114773157 A 2022-07-22 | Language: Chinese, Database: CAPlus

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

378

Housing arrangement for energy storage cell with hollow membrane and electrolyte designed to improve and optimize performance with reduced cost

By: Englert, Peter; Kaminski, Lars; Sautter, Nic

World Intellectual Property Organization, WO2022152758 A1 2022-07-21 | Language: German, Database: CAPlus

PatentPak available Substances (16) Reactions (0) Citing (0)

379

High-elasticity polymer for lithium metal protection, lithium secondary battery and manufacturing method

By: He, Hui; Zhang, Lu; Jang, Bor Z.

World Intellectual Property Organization, WO2022155643 A1 2022-07-21 | Language: English, Database: CAplus

PatentPak available

 Substances (93)

 Reactions (0)

 Citing (0)

380

Method for manufacturing quantum dot dispersion, quantum dot dispersion, and light-emitting device

By: Yaguchi, Yuma

World Intellectual Property Organization, WO2022153443 A1 2022-07-21 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (26)

 Reactions (0)

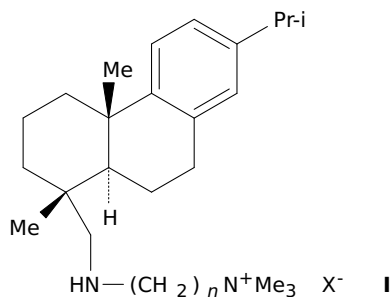
 Citing (0)

381

Preparation of dehydroabietylamine chiral ionic liquid

By: Ge, Li; Zhu, Yi; Yan, Jingjing; Liang, Qinghui; Yang, Kedi

China, CN114751833 A 2022-07-15 | Language: Chinese, Database: CAplus



PatentPak available

 Substances (28)

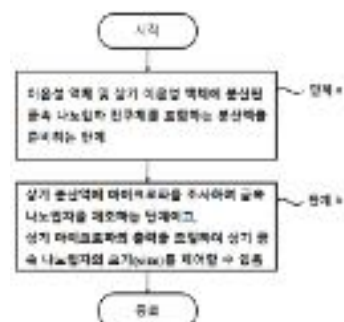
 Reactions (20)

 Citing (0)

382

Method for controlling overgrowth of metal nanoparticles using ionic liquid and microwaves and by preventing its chemical structure

By: Kim, Tae Won; Jang, Han Saem; Park, Jae Cheol; Lee, Jeon Ryang; Lee, Jeong Hyeon
Korea, Republic of, KR2421106 B1 2022-07-14 | Language: Korean, Database: CAplus



PatentPak available

Substances (89)

Reactions (0)

Citing (0)

383

High-elasticity polymer for lithium metal protection, lithium secondary battery and manufacturing method

By: He, Hui; Zhang, Lu; Jang, Bor Z.
United States, US20220223926 A1 2022-07-14 | Language: English, Database: CAplus



PatentPak available

Substances (94)

Reactions (0)

Citing (0)

384

High-strength solid-state electrolyte membrane

By: Cheng, Yue; Pan, Xingxing; Bao, Jinzhen; Liu, Qianqian; Zhuang, Zhi
World Intellectual Property Organization, WO2022148256 A1 2022-07-14 | Language: Chinese, Database: CAplus

PatentPak available

Substances (17)

Reactions (0)

Citing (0)

385

Production method of a flame-resistant quasi-solid electrolyte for lithium-ion and lithium metal batteries

By: He, Hui; Jang, Bor Z.

United States, US20220223917 A1 2022-07-14 | Language: English, Database: CAplus



PatentPak available

 Substances (141)

 Reactions (0)

 Citing (1)

386

Production method of a flame-resistant quasi-solid electrolyte for lithium-ion and lithium metal batteries

By: He, Hui; Zhang, Lu; Jang, Bor Z.

World Intellectual Property Organization, WO2022150849 A1 2022-07-14 | Language: English, Database: CAplus

PatentPak available

 Substances (171)

 Reactions (0)

 Citing (0)

387

Porous carbon layer coated lithium iron phosphate material used as cathode material for lithium ion battery and its preparation method

By: Lu, Jinhua; Gong, Lu; Zheng, Gang; Zhang, Jinhua; Xu, Dandan; Wang, Yu; Lin, Hao

China, CN114715870 A 2022-07-08 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (20)

 Reactions (0)

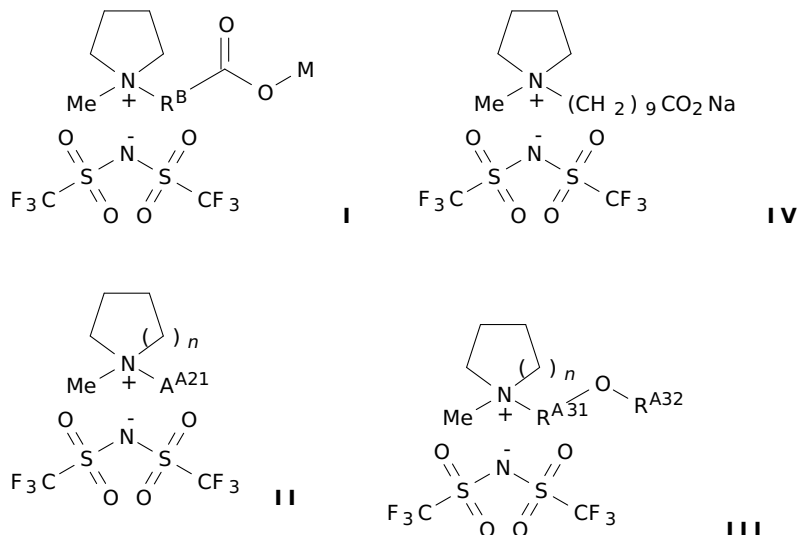
 Citing (0)

388

Preparation of ω -(1-methylpyrrolidinium-1-yl)alkanoic acid alkali metal salts bis(trifluoromethanesulfonyl)amide, corrosion inhibitors, and lubricant compositions

By: Yoshida, Yukio; Nakanishi, Yusuke; Hattori, Hideaki

Japan, JP2022102950 A 2022-07-07 | Language: Japanese, Database: CAplus



PatentPak available

Substances (24)

Reactions (16)

Citing (0)

389

Ion gel based on multiple physical crosslinking, strain sensor and preparation method thereof

By: Lv, Xiaolin; Zhang, Haoqi; Zou, Zhigang

China, CN114716779 A 2022-07-08 | Language: Chinese, Database: CAplus

PatentPak available

Substances (20)

Reactions (2)

Citing (0)

390

Preparation method of imidazolium ionic liquid-functionalized star-shaped block polymer stationary phase and application thereof in capillary column gas chromatography separation

By: Cai, Zhiqiang; Chen, Ruonan; Sun, Tao; Huang, Qiuchen; Zhang, Wei; Li, Wei

China, CN114713206 A 2022-07-08 | Language: Chinese, Database: CAplus

PatentPak available

Substances (72)

Reactions (0)

Citing (0)

391

Stretchable layered thermal camouflage material and preparation method thereof

By: Lei, Bowen; Zhang, Jianwei; Bai, Shuxin; Yin, Changping; Ju, Su
China, CN114701222 A 2022-07-05 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (5)

 Reactions (0)

 Citing (0)

392

Cost-effective instantaneous adhesive primer, and its preparation method using fluoride and methyl siloxane

By: Wang, Yunqing; Cao, Guojun
China, CN114686100 A 2022-07-01 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (30)

 Reactions (0)

 Citing (0)

393

Method for producing a titanium nitride coating on the surface of a titanium or titanium alloy substrate

By: Bertasi, Federico; Mancini, Alessandro; Bandiera, Marco; Bonfanti, Andrea
World Intellectual Property Organization, WO2022137036 A1 2022-06-30 | Language: English, Database: CAplus

PatentPak available

 Substances (26)

 Reactions (0)

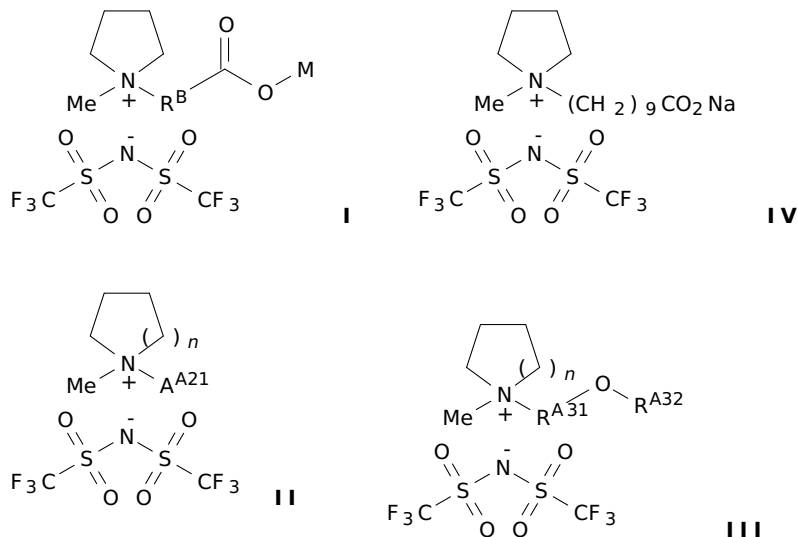
 Citing (0)

394

Preparation of ω -(1-methylpyrrolidinium-1-yl)alkanoic acid alkali metal salts bis(trifluoromethanesulfonyl)amide, corrosion inhibitors, and lubricant compositions

By: Yoshida, Yukio; Nakanishi, Yusuke; Hattori, Hideaki

World Intellectual Property Organization, WO2022138931 A1 2022-06-30 | Language: Japanese, Database: CPlus



PatentPak available

Substances (24)

Reactions (16)

Citing (0)

395

Active energy ray-curable resin composition, cured film, antistatic moisture-heat resistant film with excellent appearance and moisture heat resistance and manufacturing method thereof

By: Yamane, Rio; Matsumura, Kohei; Togashi, Haruhisa; Hirasaki, Masakazu

Japan, JP2022097414 A 2022-06-30 | Language: Japanese, Database: CPlus

PatentPak available

Substances (26)

Reactions (4)

Citing (0)

396

Lithium ion-permeable separator for a lithium secondary battery and manufacturing method

By: Jang, Bor Z.

World Intellectual Property Organization, WO2022133441 A1 2022-06-23 | Language: English, Database: CPlus

PatentPak available

Substances (137)

Reactions (0)

Citing (0)

397

Manufacturing method of a lithium-protecting polymer composite layer for a lithium metal secondary battery

By: Jang, Bor Z.

World Intellectual Property Organization, WO2022133440 A1 2022-06-23 | Language: English, Database: CAplus

PatentPak available

 Substances (76)

 Reactions (0)

 Citing (0)

398

Manufacturing method of a lithium-protecting polymer composite layer for a lithium metal secondary battery

By: Jang, Bor Z.

World Intellectual Property Organization, WO2022133450 A1 2022-06-23 | Language: English, Database: CAplus

PatentPak available

 Substances (93)

 Reactions (0)

 Citing (0)

399

Conductive curable fluoropolymer compositions, and fluoroelastomers therefrom

By: Suzuki, Yuta; Fukushi, Tatsuo

World Intellectual Property Organization, WO2022130063 A1 2022-06-23 | Language: English, Database: CAplus

PatentPak available

 Substances (38)

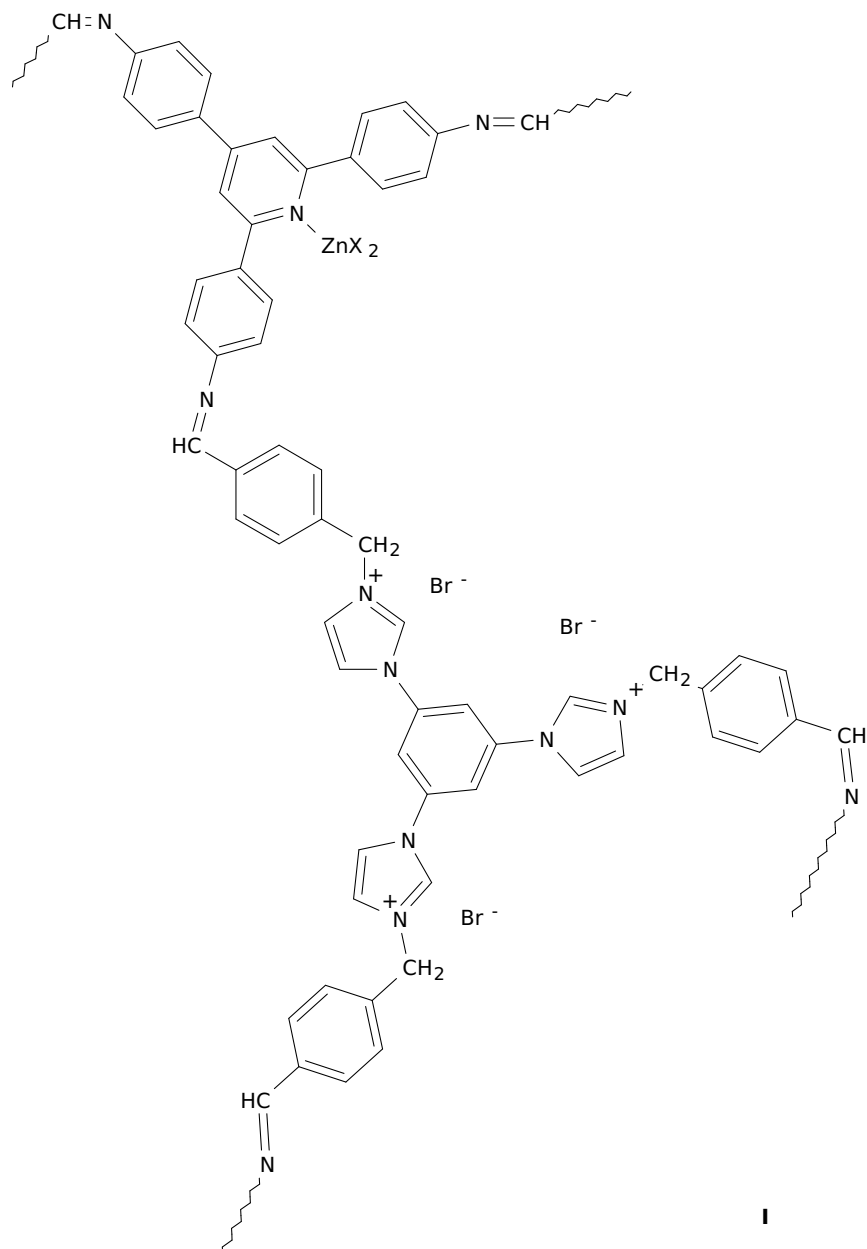
 Reactions (0)

 Citing (0)

400

Preparation of imidazole ionic porous organic polymer and application method for preparing and catalyzing coupling of carbon dioxide and epoxide to prepare cyclic carbonate

By: Liu, Mengshuai; Zhang, Wenwen; Liu, Fusheng; Ping, Ran; Duan, Xinran; Dong, Jiqing
China, CN114656607 A 2022-06-24 | Language: Chinese, Database: CAplus



PatentPak available

Substances (29)

Reactions (21)

Citing (0)

401

Preparation method of electrically conductive gel and flexible gel sensor

By: Wu, Zhujian; Jiang, Chong

China, CN114644729 A 2022-06-21 | Language: Chinese, Database: CAplus

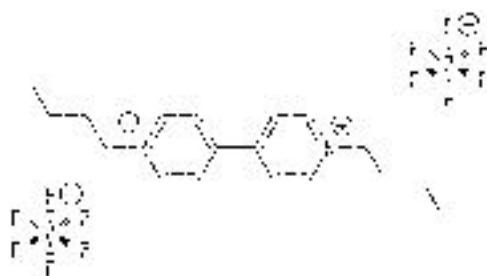
PatentPak available Substances (25) Reactions (0) Citing (0)

402

Energy dense materials for redox flow batteries

By: Suttill, James A.; Samaroo, Sharmila; McDaniel, Neal D.; Drese, Jeffrey H.; Tan, Hongjin

United States, US20220190374 A1 2022-06-16 | Language: English, Database: CAplus

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

403

Method for visualizing gaps in sample

By: Morono, Yuki; Uramoto, Goichiro

Japan, JP2022089102 A 2022-06-15 | Language: Japanese, Database: CAplus

PatentPak available Substances (7) Reactions (0) Citing (0)

404

Manufacturing method of a lithium-protecting polymer composite layer for a lithium metal secondary battery

By: Jang, Bor Z.

United States, US20220190438 A1 2022-06-16 | Language: English, Database: CAplus



PatentPak available

 Substances (89)

 Reactions (0)

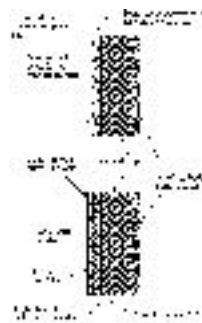
 Citing (0)

405

Manufacturing method of a lithium-protecting polymer composite layer for a lithium metal secondary battery

By: Jang, Bor Z.

United States, US20220190346 A1 2022-06-16 | Language: English, Database: CAplus



PatentPak available

 Substances (76)

 Reactions (0)

 Citing (0)

406

Lithium ion-permeable separator for a lithium secondary battery and manufacturing method

By: Jang, Bor Z.

United States, US20220190437 A1 2022-06-16 | Language: English, Database: CAplus

**PatentPak** available

Substances (137)

Reactions (0)

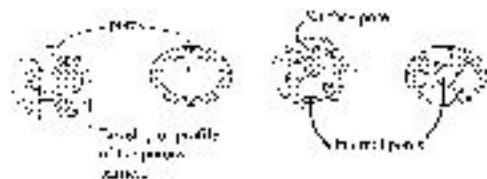
Citing (0)

407

Elastic crosslinked network of polymer-encapsulated anode particles for lithium batteries and method of manufacturing

By: Zhamu, Aruna; Jang, Bor Z.

United States, US20220190322 A1 2022-06-16 | Language: English, Database: CAplus

**PatentPak** available

Substances (111)

Reactions (0)

Citing (0)

408

Elastic crosslinked network of polymer-encapsulated anode particles for lithium batteries and method of manufacturing

By: Zhamu, Aruna; He, Hui; Jang, Bor Z.

World Intellectual Property Organization, WO2022126138 A1 2022-06-16 | Language: English, Database: CAplus

PatentPak available

Substances (111)

Reactions (0)

Citing (0)

409

A coatable curable fluoropolymer and fluoroelastomers therefrom

By: Suzuki, Yuta; Fukushi, Tatsuo

World Intellectual Property Organization, WO2022123391 A1 2022-06-16 | Language: English, Database: CAplus

PatentPak available Substances (56) Reactions (0) Citing (0)

410

Method for synthesizing 1,5-pentanediamine by strengthening lysine decarboxylase with ionic liquid

By: Huang, Yuhong; Yao, Jiahao; Xue, Yaju; Zhang, Suojiang

China, CN114621984 A 2022-06-14 | Language: Chinese, Database: CAplus

PatentPak available Substances (22) Reactions (0) Citing (0)

411

Food contact paper using rosin sizing agent for food packaging

By: Yan, Hui; Gong, Benhua; Zhu, Jianghua

China, CN114606797 A 2022-06-10 | Language: Chinese, Database: CAplus

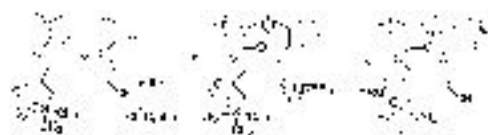
PatentPak available Substances (17) Reactions (0) Citing (0)

412

High-performance self-healing polymer gel electrolyte containing ionic side branches

By: Moon, Hong Chul; Kim, Yong Min

United States, US20220177623 A1 2022-06-09 | Language: English, Database: CAplus

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

413

Method for making mesosurfaces having areas of differing magnetic properties

By: Parkin, Stuart S.P.

European Patent Organization, EP4009388 A1 2022-06-08 | Language: English, Database: CAplus

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

414

Method for making mesosurfaces having areas of differing magnetic properties

By: Parkin, Stuart S.P.

World Intellectual Property Organization, WO2022117563 A1 2022-06-09 | Language: English, Database: CAplus

PatentPak available

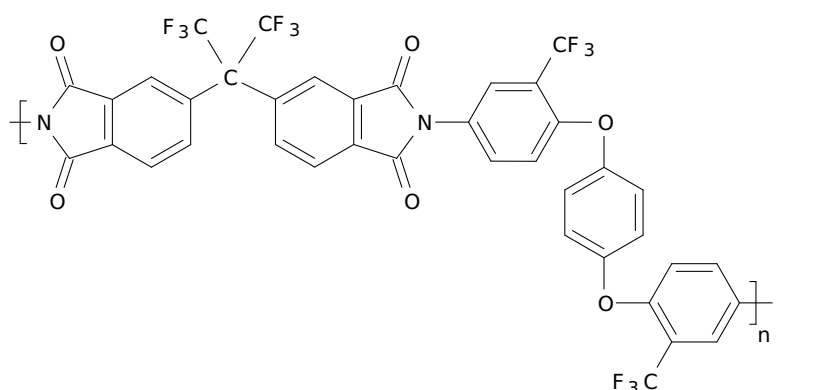
 Substances (15) Reactions (0) Citing (0)

415

Preparation of transparent polyimide resistant to electron irradiation and stress field coupling

By: Yang, Hong; Zhu, Xiaoqing; Wang, Meng; Hou, Yi; Zhou, Zhengfeng; Hu, Wenting

China, CN114591626 A 2022-06-07 | Language: Chinese, Database: CAplus



PatentPak available

 Substances (7) Reaction (1) Citing (0)

416

Method for preparing high-purity ionic liquid by heterogeneous reaction

By: Su, Xiaobo

China, CN114591181 A 2022-06-07 | Language: Chinese, Database: CAplus

PatentPak available

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

417

Method for preparing plasticizer by purifying PTA residue

By: Lin, Wei; Chen, Xiaofeng; Li, Ke; Liang, Guobin; Yin, Xiafei; Shen, Jiandong; Shen, Shijin; Tang, Junying

China, CN114591165 A 2022-06-07 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (27) Reactions (11) Citing (0)

418

Method for visualizing gaps in sample

By: Morono, Yuki; Uramoto, Goichiro

World Intellectual Property Organization, WO2022118948 A1 2022-06-09 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (7)

 Reactions (0)

 Citing (0)

419

Method for preparing anti-pollution separation membrane with surface layer containing ionic liquid for water purification

By: Zhang, Lin; Lin, Saisai; Ma, Lie; Yao, Zhikan; Feng, Xiangdong; Xu, Haoran; Shi, Guozhong

China, CN114570219 A 2022-06-03 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (78)

 Reactions (0)

 Citing (0)

420

Electrolyte and dual ion battery

By: Gogyo, Yuma

Japan, JP2022083299 A 2022-06-03 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (20)

 Reactions (0)

 Citing (0)

421

Polyimide mixed matrix membrane for selectively separating carbon dioxide and preparation method thereof

By: Wang, Ting; Huang, Xiaoxing; Zhang, Ke; Wu, Liguang; Jiang, Lingli

China, CN114570220 A 2022-06-03 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (7)

 Reaction (1)

 Citing (0)

422

Air-stable particulates of anode active materials for lithium batteries

By: Jang, Bor Z.

United States, US20220173385 A1 2022-06-02 | Language: English, Database: CAplus



PatentPak available

 Substances (75) Reactions (0) Citing (0)

423

Magnesium battery electrolyte and preparation method, and magnesium battery

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

China, CN114552018 A 2022-05-27 | Language: Chinese, Database: CAplus

PatentPak available

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

424

CO₂ trapping material and its synthesis method, and carbon trapping process

By: Xin, Feng; Dong, Shihong; Wu, Qian; He, Wen

China, CN114539307 A 2022-05-27 | Language: Chinese, Database: CAplus

PatentPak available

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

425

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

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

China, CN114551999 A 2022-05-27 | Language: Chinese, Database: CAplus

PatentPak available

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

426

High-energy density supercapacitor

By: Lin, Han; Jia, Baohua

World Intellectual Property Organization, WO2022105680 A1 2022-05-27 | Language: Chinese, Database: CAplus

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

427

Third type of porous ionic liquid based on UiO-66 and preparation method and application thereof

By: Li, Hongping; Fu, Wendi; Zhang, Jinrui; Jiang, Wei; Zhu, Wenshuai; Li, Huaming

China, CN114539550 A 2022-05-27 | Language: Chinese, Database: CAplus

PatentPak available Substances (7) Reaction (1) Citing (0)

428

Low-friction solid-liquid composite lubrication treatment method of aluminum-lithium alloy

By: Lv, Jinjun; Qu, Rong; Chen, Shuangshuang; Zhao, Xiaoxia; Qiao, Yanan; Chen, Linpeng; Yao, Ruiqing

China, CN114540912 A 2022-05-27 | Language: Chinese, Database: CAplus

PatentPak available Substances (8) Reactions (0) Citing (0)

429

Composite cathode piece containing lithium zirconate coated single crystal high-nickel cathode material, its preparation method, and all-solid battery

By: Gong, Jiaojiao; Chen, Jun; Huang, Jiange; Zheng, Lifeng

China, CN114551791 A 2022-05-27 | Language: Chinese, Database: CAplus

PatentPak available Substances (39) Reactions (0) Citing (0)

430

A lithium ion secondary battery

By: Yagi, Tasuku; Tsukada, Tetsuya; Sato, Yosuke; Yoshida, Toshihiro; Katsuta, Yuji

Japan, JP2022079209 A 2022-05-26 | Language: Japanese, Database: CAplus

PatentPak available Substances (17) Reactions (0) Citing (0)

431

Preparation of temperature controlled ionic liquid for gold extraction

By: Yang, Yanzhao; Wang, Yangyang

China, CN114524775 A 2022-05-24 | Language: Chinese, Database: CAplus

PatentPak available

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

432

Preparation method of ionic gel for casting film

By: Lv, Xiaolin; Zhan, Weiqing; Zou, Zhigang

China, CN114524954 A 2022-05-24 | Language: Chinese, Database: CAplus

PatentPak available

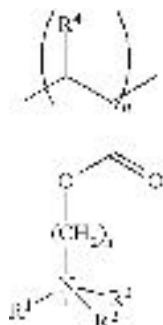
 Substances (9) Reactions (0) Citing (0)

433

Polymer electrolyte and method of preparing same

By: Lee, Ho Taek; Kim, Yong Min; Moon, Hong Chul

United States, US20220158234 A1 2022-05-19 | Language: English, Database: CAplus



PatentPak available

 Substances (16) Reactions (0) Citing (0)

434

Preparation of polymer electrolyte for lithium-ion batteries

By: Lee, Ho Taek; Kim, Yong Min; Moon, Hong Chul

United States, US20220158233 A1 2022-05-19 | Language: English, Database: CAplus



PatentPak available

Substances (12)

Reactions (0)

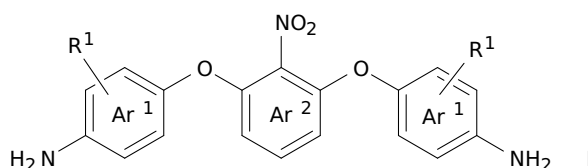
Citing (0)

435

Preparation of polysubstituted aromatic diamine derivatives and its application in the preparation of polyimide film materials

By: Xie, Jin; Pang, Yubo; Zhu, Chengjian

China, CN114516807 A 2022-05-20 | Language: Chinese, Database: CAplus



PatentPak available

Substances (51)

Reactions (30)

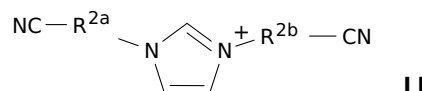
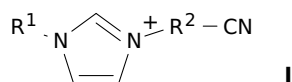
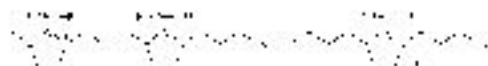
Citing (0)

436

Perovskite precursor composition, method of preparing perovskite film, perovskite film and perovskite solar cell

By: Kinge, Sachin; Fei, Zhaofu; Dyson, Paul J.; Khaja Nazeeruddin, Mohammad; Gao, Xiao-Xin; Ding, Bin

United States, US20220158104 A1 2022-05-19 | Language: English, Database: CAplus



PatentPak available

Substances (54)

Reactions (0)

Citing (0)

437

Multi-layer heating device including a transparent layer of substrate and a layer based on PEDOT

By: Simonato, Jean-Pierre; Carella, Alexandre; Schultheiss, Amelie
 France, FR3116231 A1 2022-05-20 | Language: French, Database: CAplus

PatentPak available

 Substances (17)

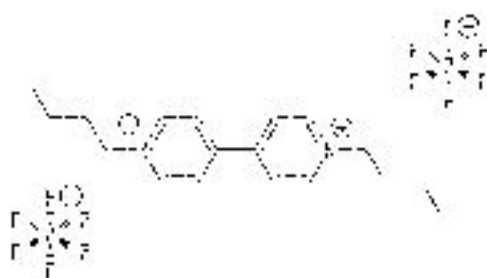
 Reactions (0)

 Citing (0)

438

Energy dense materials for redox flow batteries

By: Suttill, James A.; Samaroo, Sharmila; McDaniel, Neal D.; Drese, Jeffrey H.; Tan, Hongjin
 United States, US11335910 B1 2022-05-17 | Language: English, Database: CAplus



PatentPak available

 Substances (23)

 Reactions (0)

 Citing (0)

439

Preparation of supramolecular ionic liquid gel electrolyte for sodium ion battery

By: Chen, Shipeng; Xue, Baoyu; Fan, Yange; Wang, Hongxing; Cao, Changqing; Wang, Huifeng
 China, CN114507208 A 2022-05-17 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (18)

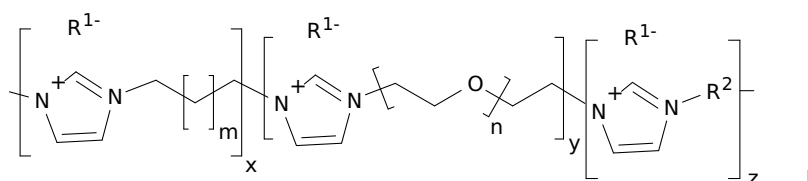
 Reactions (19)

 Citing (0)

440

Electrode binder, and its preparation method, electrode, lithium battery and vehicle

By: Yuan, Tao; Ma, Yongjun; Guo, Zizhu
 China, CN114512668 A 2022-05-17 | Language: Chinese, Database: CAplus



PatentPak available

 Substances (22)

 Reactions (0)

 Citing (0)

441

High-adhesion **ionic liquid** adhesive, its preparation method and application in water environment

By: Zhang, Shiguo; Zhang, Jun; Zhang, Yan

China, CN114478491 A 2022-05-13 | Language: Chinese, Database: CPlus

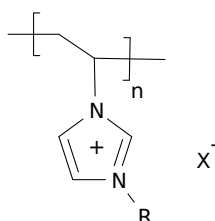
PatentPak available Substances (30) Reactions (19) Citing (0)

442

Imidazole-based polyionic **liquid** and preparation method thereof

By: Cai, Zhiqi; Fu, Shuangchan; Li, Xue; Yu, Yinghao

China, CN114478886 A 2022-05-13 | Language: Chinese, Database: CPlus

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

443

Lithium-protecting polymer layer for an anode-less lithium metal secondary battery and manufacturing method

By: He, Hui; Zhamu, Aruna; Jang, Bor Z.

World Intellectual Property Organization, WO2022099247 A1 2022-05-12 | Language: English, Database: CPlus

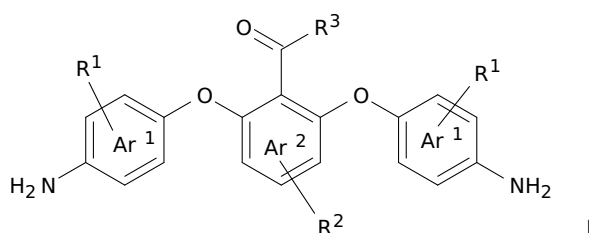
PatentPak available Substances (59) Reactions (0) Citing (0)

444

Preparation of cost-effective carbonyl-containing polysubstituted aromatic diamine monomers

By: Xie, Jin; Pang, Yubo; Zhu, Chengjian

China, CN114478278 A 2022-05-13 | Language: Chinese, Database: CPlus

**PatentPak** available Substances (41) Reactions (10) Citing (0)

445

Electrolyte membrane stable for long time and its manufacturing method using not expensive printing method

By: Kusaka, Yasuyuki; Fukuda, Nobuko

Japan, JP2022070005 A 2022-05-12 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (10)

 Reactions (0)

 Citing (0)

446

Self-healing anti-fog coating and preparation method thereof

By: Fu, Jiajun; Shen, Tao; Wang, Cheng

China, CN114479598 A 2022-05-13 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (7)

 Reactions (3)

 Citing (0)

447

Antibacterial and degradable gas barrier material and preparation method thereof

By: Zhao, Liping; Feng, Yang; Yin, Jiaying; Wang, Yi; Zhang, Qianhui; Zhang, Kai; Cai, Ying; Cai, Qing; Zhou, Wen

China, CN114479371 A 2022-05-13 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (12)

 Reactions (0)

 Citing (0)

448

High adhesion printing ink and preparation method thereof

By: Cai, Hongyu

China, CN114479557 A 2022-05-13 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (12)

 Reactions (0)

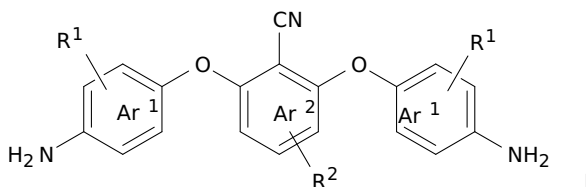
 Citing (0)

449

Preparation of polysubstituted aromatic diamine derivatives and its application in the preparation of polyimide film materials

By: Xie, Jin; Xia, Siyu; Zhu, Chengjian

China, CN114456090 A 2022-05-10 | Language: Chinese, Database: CPlus

**PatentPak** available

Substances (52)

Reactions (42)

Citing (0)

450

Preparation method of poly(perylene tetracarboximide) for lithium/sodium battery with good electrochemical stability

By: Zheng, Jinyun; Liu, Xinxin; Li, Wenjie; Feng, Xiangming; Chen, Weihua

China, CN114456356 A 2022-05-10 | Language: Chinese, Database: CPlus

PatentPak available

Substances (33)

Reactions (2)

Citing (0)

451

Ink jet printable **ionic** ink, **ionic** membrane and **ionic** tactile sensor

By: Ge, Ruiqing; Chang, Yu

China, CN114456641 A 2022-05-10 | Language: Chinese, Database: CPlus

PatentPak available

Substances (10)

Reactions (0)

Citing (1)

452

Preparation method of rare earth or alkaline earth metal hexaboride **liquid** phase dispersion, and its application in transparent thermal insulation coating, solar photothermal conversion nanofluid and seawater desalination device

By: Xiao, Lihua

China, CN114455599 A 2022-05-10 | Language: Chinese, Database: CPlus

PatentPak available

Substances (22)

Reactions (0)

Citing (0)

453

Semi-crystalline **ionic** gel and preparation method thereof

By: Zhu, Shiping; He, Wenqing; Zhang, Qi
China, CN114437484 A 2022-05-06 | Language: Chinese, Database: CAplus

PatentPak available Substances (59) Reaction (1) Citing (0)

454

Ionic liquid plasticizer, its preparation method and application for polyurethane or epoxy resin

By: Liu, Long; Bai, Jinhu; Zhang, Yanqiang; Yao, Yuan; Su, Ze; Zhou, Zhixiang
China, CN114436968 A 2022-05-06 | Language: Chinese, Database: CAplus

PatentPak available Substances (28) Reactions (20) Citing (0)

455

Preparation method of amide-based **ionic liquid** and application for extraction separation of gold(III)

By: Yang, Yanzhao; Wu, Yang
China, CN114436997 A 2022-05-06 | Language: Chinese, Database: CAplus

PatentPak available Substances (7) Reactions (3) Citing (0)

456

Preparation of ether compounds by dehydration of monohydric alcohols

By: Liu, Zhimin; Wang, Huan; Zhao, Yanfei; Han, Buxing
China, CN114436786 A 2022-05-06 | Language: Chinese, Database: CAplus

PatentPak available Substances (56) Reactions (24) Citing (0)

457

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

By: Tang, Yongbing; Wang, Zhiwei; Liu, Qirong
China, CN114430064 A 2022-05-03 | Language: Chinese, Database: CAplus

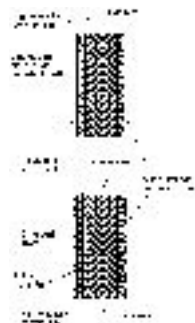
PatentPak available Substances (131) Reactions (0) Citing (1)

458

Lithium-protecting polymer layer for an anode-less lithium metal secondary battery and manufacturing method

By: He, Hui; Zhamu, Aruna; Jang, Bor Z.

United States, US20220140348 A1 2022-05-05 | Language: English, Database: CAplus



PatentPak available

Substances (48)

Reactions (0)

Citing (0)

459

Dielectric elastomeric material, preparation method and electric-conductive elastomer

By: Ding, Jun; Borayek, Ramadan Abdelhamid Yousef Mohamed; Willy, Habimana Jean

United States, US20220135711 A1 2022-05-05 | Language: English, Database: CAplus



PatentPak available

Substances (12)

Reaction (1)

Citing (0)

460

Production of capacitor-supported lithium-ion solid-electrolyte high-performance cells with high power and high energy density, and high cycle stability

By: Chen, Si; Lu, Yong; Wu, Meiyuan; Liu, Haijing; Li, Zhe

Germany, DE102021113542 A1 2022-05-05 | Language: German, Database: CAplus



PatentPak available

Substances (114)

Reactions (0)

Citing (0)

461

Polyphenyl hydrophobic cross-linking monomer, thickener containing the monomer and application thereof

By: Zhao, Xiaolong; Zhao, Yizhong; Li, Peng; Zhu, Caihong; Han, Hong; Li, Wenke; Chen, Gang; Gao, Xuefeng; Wei, Qingcai; Zhang, Yuchen

China, CN114426505 A 2022-05-03 | Language: Chinese, Database: CAplus

PatentPak available

Substances (33)

Reactions (15)

Citing (0)

462

Preparation method of highly stable, adhesive conductive polyionic liquid gel for sensor

By: Yuan, Weizhong; Rong, Liduo

China, CN114409849 A 2022-04-29 | Language: Chinese, Database: CAplus

PatentPak available

Substances (11)

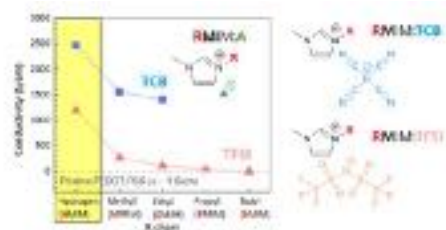
Reactions (2)

Citing (0)

463

Method for manufacturing modified conductive polymer thin film, and modified conductive polymer thin film manufactured thereby

By: Lee, Byeong Hun; Lee, Seong Ho; Kim, Ji Hyeon; Lee, Seung Yeop
Korea, Republic of, KR2022052086 A 2022-04-27 | Language: Korean, Database: CPlus



PatentPak available

Substances (14)

Reactions (11)

Citing (0)

464

Method for manufacturing modified conductive polymer thin film, and modified conductive polymer thin film manufactured thereby

By: Lee, Byoung Hoon; Lee, Seoung Ho; Kim, Min Ji; Lee, Seung Yeob
World Intellectual Property Organization, WO2022085903 A1 2022-04-28 | Language: Korean, Database: CPlus

PatentPak available

Substances (14)

Reactions (10)

Citing (0)

465

Low-temperature heat conductive oil based on ionic liquid containing eutectic component and cleaning dispersant and preparation method thereof

By: Luo, Jiangshui; Wei, Runhong; Yi, Yingting
China, CN114410282 A 2022-04-29 | Language: Chinese, Database: CPlus

PatentPak available

Substances (42)

Reactions (0)

Citing (0)

466

High-rate lithium battery anode sheet and preparation method and application thereof

By: Huang, Fuqiang; Han, Zhen; Bi, Hui; Ju, Yalan; Ma, Wenqin
China, CN114420896 A 2022-04-29 | Language: Chinese, Database: CPlus

PatentPak available

Substances (25)

Reactions (0)

Citing (0)

467

Bio-based hyperbranched epoxy resin and preparation method thereof

By: Zhang, Junheng; Zhong, Liuyue; Wei, Fang; Hao, Yanxin; Hai, Yifan; Zhang, Daohong
China, CN114395216 A 2022-04-26 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (27)

 Reactions (29)

 Citing (0)

468

Preparation of cationic polymerizable group-containing **ionic liquids**

By: Jin, Ming; Li, Fan
China, CN114380809 A 2022-04-22 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (28)

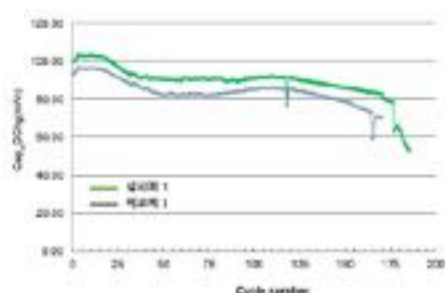
 Reactions (38)

 Citing (0)

469

Ionic liquid-containing solid polymer electrolyte membrane, and method for producing same

By: Kim, Seon Hwan
Korea, Republic of, KR2022049789 A 2022-04-22 | Language: Korean, Database: CAplus



PatentPak available

 Substances (36)

 Reactions (0)

 Citing (0)

470

Method for synthesizing isophorone diamine in presence of catalyst, and the catalyst and preparation method thereof

By: Mao, Jianyong; Hu, Hangna; Li, Jun; Li, Lixin; Wu, Xinghua; Liu, Shiwen; Pan, Hong
China, CN114380699 A 2022-04-22 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (29)

 Reactions (3)

 Citing (0)

471

Organic light emitting display device with thin film transistor, and its manufacturing method

By: Lee, Jin Uk; Choi, Seul Gi; Jang, Eun Su

Korea, Republic of, KR2022049738 A 2022-04-22 | Language: Korean, Database: CAplus

**PatentPak** available

Substance (1)

Reactions (0)

Citing (0)

472

A sustained-release system based on boron nitride nanosheets conjugated with plant micronutrients and its preparation method and application

By: Hao, Li; Guan, Mei; Zhou, Xinhua; Zhou, Hongjun; Chen, Huayao

China, CN114380644 A 2022-04-22 | Language: Chinese, Database: CAplus

PatentPak available

Substances (8)

Reactions (0)

Citing (0)

473

Ionic liquid-containing solid polymer electrolyte membrane, and method for producing same

By: Kim, Sun Hwan

World Intellectual Property Organization, WO2022080535 A1 2022-04-21 | Language: Korean, Database: CAplus

PatentPak available

Substances (36)

Reactions (0)

Citing (0)

474

STRO reverse osmosis membrane and preparation method therefor

By: Shen, Juan; Wang, Wei; Zhao, Yuchen; Nan, Xiaodong

World Intellectual Property Organization, WO2022078531 A2 2022-04-21 | Language: Chinese, Database: CAplus

PatentPak available

Substances (17)

Reactions (0)

Citing (0)

475

Anti-static laminated work processing sheet

By: Yamaguchi, Seitaro

Japan, JP2022059761 A 2022-04-14 | Language: Japanese, Database: CAplus

PatentPak available Substances (26) Reactions (12) Citing (0)

476

Electrolytes for aluminum secondary battery

By: Matsumoto, Hajime; Ooyabu, Rie; Akai, Naoto

World Intellectual Property Organization, WO2022075287 A1 2022-04-14 | Language: Japanese, Database: CAplus

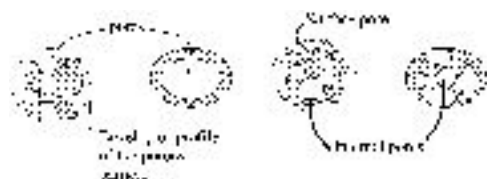
PatentPak available Substances (8) Reactions (0) Citing (0)

477

Manufacturing of elastic polymer matrix-protected particles of anode active materials for lithium batteries

By: He, Hui; Jang, Bor Z.

United States, US20220115639 A1 2022-04-14 | Language: English, Database: CAplus

**PatentPak** available Substances (61) Reactions (0) Citing (0)

478

Method for electrodepositing silicon thin film using silicon tetrachloride

By: Dong, Piaoping; Jiang, Hangyu; Wang, Lu; Zhao, Yin; Liu, Yuhao

China, CN114318456 A 2022-04-12 | Language: Chinese, Database: CAplus

PatentPak available Substances (11) Reactions (0) Citing (0)

479

Lithium ion battery electrolyte additive

By: Moganty, Surya S.; Vaidya, Rutvik; Sinicropi, John; Wu, Yue; Torres, Gabriel

United States, US20220109188 A1 2022-04-07 | Language: English, Database: CAplus

PatentPak available Substances (48) Reactions (0) Citing (0)

480

Interpenetrating network structure layer and in-situ preparation method thereof

By: Zhao, Jinbao; Shen, Xiu; Zeng, Yuejin; Zhang, Peng
China, CN114292484 A 2022-04-08 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (35)

 Reactions (4)

 Citing (0)

481

Lithium-ion battery electrolyte additive

By: Moganty, Surya; Vaidya, Rutvik; Torres, Gabriel; Wu, Yue; Sinicropi, John
World Intellectual Property Organization, WO2022072839 A1 2022-04-07 | Language: English, Database: CAplus

PatentPak available

 Substances (50)

 Reactions (0)

 Citing (0)

482

Fabrication of heterostructure ionogel electrolytes for lithium-ion batteries

By: Hersam, Mark C.; Hyun, Woo Jin
World Intellectual Property Organization, WO2022072313 A1 2022-04-07 | Language: English, Database: CAplus

PatentPak available

 Substances (31)

 Reactions (0)

 Citing (0)

483

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
China, CN114300741 A 2022-04-08 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (41)

 Reactions (0)

 Citing (1)

484

Ionic liquid hydrophobic modifier for silica aerogel production and preparation method thereof

By: Chen, Yaosen
China, CN114276381 A 2022-04-05 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (31)

 Reactions (12)

 Citing (0)

485

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

By: Tang, Yongbing; Yao, Wenjiao; Wu, Nanzhong; Lan, Yuanqi
China, CN114267878 A 2022-04-01 | Language: Chinese, Database: CAplus

PatentPak available

Substances (84)

Reactions (0)

Citing (0)

486

Electrode with porous carbon structure for all-solid-state supercapacitor and all-solid-state supercapacitor including same

By: Lee, Geun Hyeong; Cho, Gyeong Guk; Yoo, Won Cheol; Kim, Hui Su
Korea, Republic of, KR2022040896 A 2022-03-31 | Language: Korean, Database: CAplus



PatentPak available

Substances (18)

Reactions (0)

Citing (0)

487

Compositions including ionic liquids and methods of making the same

By: Li, Yawei; Neyerlin, Kenneth Charles; Snyder, Joshua David
United States, US20220098741 A1 2022-03-31 | Language: English, Database: CAplus



PatentPak available

Substances (7)

Reactions (0)

Citing (0)

488

Polymer electrolyte lamination layer for lithium metal battery

By: Ma, Lin; Ritchie, Alan A.; Neudecker, Bernd Jurgen; Mank, Richard M.
World Intellectual Property Organization, WO2022067280 A1 2022-03-31 | Language: English, Database: CAplus

PatentPak available

Substances (15)

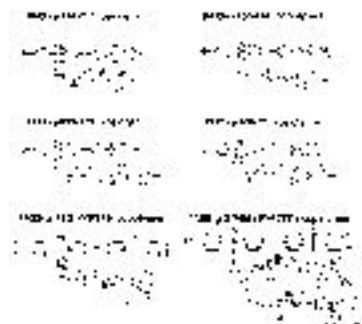
Reactions (0)

Citing (0)

489

Copolymer having functional group as substituent at chain-end, preparing electrolyte membrane for secondary battery, and electrolyte membrane for secondary battery

By: Kim, Duk Joon; Tian, Zhenchuan; Anh, Le Mong; Kim, Su Gyeong; Park, Hae Ryung
United States, US20220093971 A1 2022-03-24 | Language: English, Database: CAplus



PatentPak available

Substances (23)

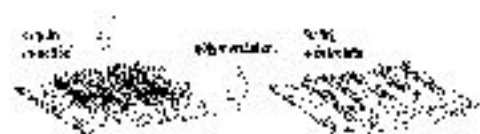
Reactions (4)

Citing (0)

490

Composition and method for manufacturing a polymer electrolyte

By: Lee, Jung-Hyun; Yoo, Jungjoon; Baek, Jeong Hun; Yeo, Jeong-Gu; Lim, Hyun Ju; Lee, Hye Jin
United States, US20220093968 A1 2022-03-24 | Language: English, Database: CAplus



PatentPak available

Substances (39)

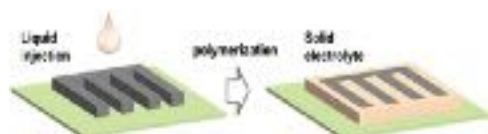
Reactions (0)

Citing (0)

491

Composition for polymer electrolyte comprising ion conductive monomer and polymerizable comonomer, polymer electrolyte comprising same, method for manufacturing polymer electrolyte, and electronic device

By: Lee, Jeong Hyeon; Yoo, Jeong Jun; Baek, Jeong Hun; Yeo, Jeong Gu; Lim, Hyeon Ju; Lee, Hye Jin
Korea, Republic of, KR2377667 B1 2022-03-24 | Language: Korean, Database: CAplus



PatentPak available

Substances (28)

Reactions (0)

Citing (0)

492

Polymer electrolyte lamination layer for lithium metal battery

By: Ma, Lin; Ritchie, Alan A.; Neudecker, Bernd Jurgen; Mank, Richard M.
United States, US20220093969 A1 2022-03-24 | Language: English, Database: CAplus



PatentPak available

 Substances (15)

 Reactions (0)

 Citing (0)

493

Elastic porous gel electrolyte precursor and application in semi-solid battery

By: Lv, Wenbin; Deng, Suxiang; Chen, Shaojie; Yang, Hongxin
World Intellectual Property Organization, WO2022057226 A1 2022-03-24 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (23)

 Reactions (0)

 Citing (0)

494

Preparation of fireproof powder coating with excellent bending strength and corrosion and surface resistance

By: Liu, Jianliang; Zou, Xiaomin
China, CN114231096 A 2022-03-25 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (57)

 Reactions (5)

 Citing (0)

495

Borate polymer/**ionic liquid** composite electrically conductive gel and preparation method thereof

By: Yuan, Conghui; Zhou, Xiangfu; Dai, Lizong; Zheng, Dandan; Xu, Yiting; Zeng, Birong; Chen, Guorong; Luo, Weiang
China, CN114213789 A 2022-03-22 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (13)

 Reaction (1)

 Citing (0)

496

Ionic covalent organic framework material, lithium metal negative electrode material and preparation method thereof

By: Zhang, Yantao; Wang, Wenbo; Qiao, Shanlin; Zhang, Xiangjing; Gu, Chunlei; Yan, Jipeng; Yang, Zehua
China, CN114213670 A 2022-03-22 | Language: Chinese, Database: CAplus

PatentPak available Substances (29) Reactions (3) Citing (0)

497

Room temperature self-repairing **ionic** gel and preparation method thereof

By: Li, Yang; Fu, Yonghao; Sun, Junqi
China, CN114195968 A 2022-03-18 | Language: Chinese, Database: CAplus

PatentPak available Substances (17) Reaction (1) Citing (0)

498

Pole piece for battery, semi-solid battery and preparation method of pole piece

By: Liu, Yujie; Xiao, Yao
China, CN114203957 A 2022-03-18 | Language: Chinese, Database: CAplus

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

499

Preparation method of superhydrophobic and superoleophilic lithium-air battery composite separator

By: Liu, Jiuqing; Wang, Cheng
China, CN114191996 A 2022-03-18 | Language: Chinese, Database: CAplus

PatentPak available Substances (45) Reactions (9) Citing (0)

500

Preparation of sermorelin acetate and analogs thereof with new condensing agent

By: Zhang, Qipeng; Wei, Zhuyu; Pan, Hailiang; Wang, Yuebin
China, CN114195881 A 2022-03-18 | Language: Chinese, Database: CAplus

PatentPak available Substances (31) Reactions (12) Citing (0)