

Initiating Search

September 19, 2023, 8:46AM

References: **Ionic liquids**

Advanced Search:

AND CAS Registry Number: **37181-39-8**
= Triflate Anion

Filtered By:

Document Type: **Patent**

Search Tasks

Task	Search Type	View
Exported: Returned Reference Results + Filters (330)	References	View Results

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Piezoelectric film including **ionic liquid** and electrophoretic display film including the piezoelectric film

By: Matus, Yuriy Borisovich; Gu, Haiyan; Sarvi, Ali; Dicinoski, Greg; Muke, Sani; Lussini, Vanessa; MacPherson, Charles Douglas
World Intellectual Property Organization, WO2023164446 A1 2023-08-31 | Language: English, Database: CAplus

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 Substances (27)

 Reactions (0)

 Citing (0)

2

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

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 Substances (62)

 Reactions (0)

 Citing (0)

3

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

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 Substances (63)

 Reactions (0)

 Citing (0)

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Method for generating hydrogen from water using **ionic liquid**-based material as reaction accelerator

By: Yoo, Seong Ju; Park, Ji Yong
Korea, Republic of, KR2023110845 A 2023-07-25 | Language: Korean, Database: CAplus

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 Substances (19)

 Reactions (0)

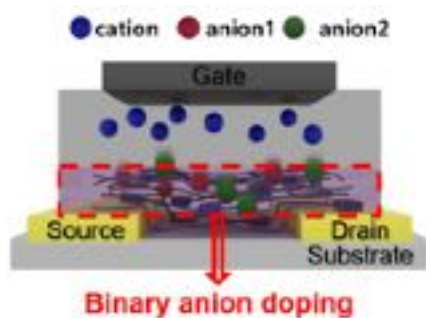
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Thin film transistor having ionogel and threshold voltage control method thereof

By: Lee, Geun Hyeong; Cho, Gyeong Guk; Sul, Gyeong Hwan

Korea, Republic of, KR2023101005 A 2023-07-06 | Language: Korean, Database: CAplus



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 Substances (39)

 Reactions (0)

 Citing (0)

6

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

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 Substances (33)

 Reactions (0)

 Citing (0)

7

Encapsulated catalytic composition

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

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 Substances (32)

 Reactions (0)

 Citing (0)

8

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

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 Substances (44)

 Reactions (0)

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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

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 Substances (171)

 Reactions (13)

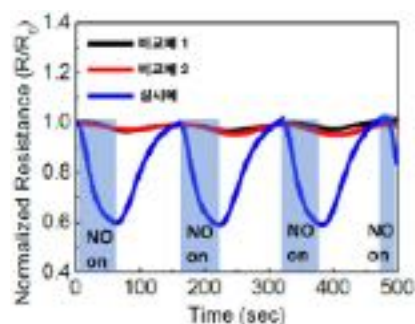
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Ultra-sensitive flexible gas sensor having hydrophobic polymer and ionic liquid and manufacturing method thereof

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

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



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 Substances (49)

 Reactions (0)

 Citing (0)

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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

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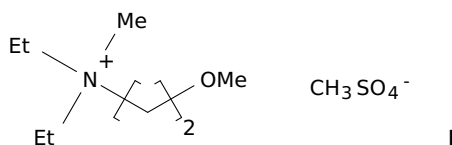
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Ionic liquid and method for producing the same

By: Masuda, Gen; Ochikubo, Tatsuya

World Intellectual Property Organization, WO2023021895 A1 2023-02-23 | Language: Japanese, Database: CAplus

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Systems, devices and methods for eradicating and/or reducing coronavirus and other small pathogens from indoor air

By: Vasudeva, Kailash C.

World Intellectual Property Organization, WO2023015398 A1 2023-02-16 | Language: English, Database: CAplus

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Preparation method of flavonoids from dihydroflavone or dihydroflavonol by biological enzymatic dehydrogenation

By: Li, Yushan

China, CN115521955 A 2022-12-27 | Language: Chinese, Database: CAplus

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Reactions (0)

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Stable composition

By: Shmool, Talia Amira; Hallett, Jason Patrick; Bhamra, Apanpreet Kaur; Chen, Rongjun

World Intellectual Property Organization, WO2022254209 A1 2022-12-08 | Language: English, Database: CAplus

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Water-soluble dye titration reagent with good stability, and its preparation method

By: Li, Qingtie; Li, Jing; Tian, Jun; Xiong, Yingjun

China, CN115407016 A 2022-11-29 | Language: Chinese, Database: CPlus

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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: CPlus



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 Reactions (0)

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Composition for improved petroleum extraction with well injection fluid composition

By: Sotos Campos, Ana Maria; Somoza Cervino, Alba

Spain, ES2922249 A1 2022-09-12 | Language: Spanish, Database: CPlus

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Composition for enhanced oil extraction

By: Sotos Campos, Ana Maria; Somoza Cervino, Alba

World Intellectual Property Organization, WO2022184955 A1 2022-09-09 | Language: Spanish, Database: CPlus

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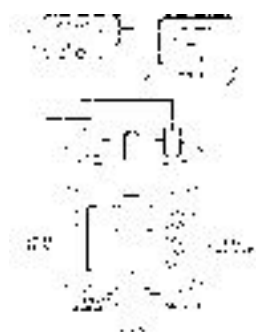
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Electrochemical extraction, separation, and/or purification of metals

By: Thakare, Jivan; Masud, Jahangir

European Patent Organization, EP4050127 A1 2022-08-31 | Language: English, Database: CPlus



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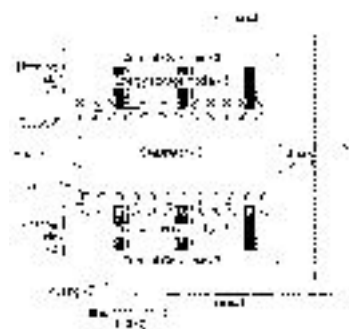
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Wide temperature range ultracapacitor

By: Brambilla, Nicolo Michele; Martini, Fabrizio

United States, US20220254576 A1 2022-08-11 | Language: English, Database: CPlus



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Carbon monoxide-promoted transport gas separation membrane, and manufacturing method thereof

By: Kim, Jong Hak; Kim, Na Un; Kim, Jeong Hun; Park, Bo Ryeong; Kang, Ho Cheol
Korea, Republic of, KR2022104986 A 2022-07-26 | Language: Korean, Database: CPlus



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Ionic liquid-based nanofluid type wide temperature heat transfer oil and preparation method thereof

By: Luo, Jiangshui; Wei, Runhong; Yi, Yingting
China, CN114752362 A 2022-07-15 | Language: Chinese, Database: CPlus

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A coatable curable fluoropolymer and fluoroelastomers therefrom

By: Suzuki, Yuta; Fukushi, Tatsuo
World Intellectual Property Organization, WO2022123391 A1 2022-06-16 | Language: English, Database: CPlus

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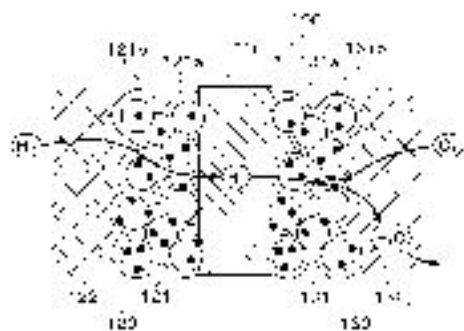
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Proton conductor and fuel cell

By: Takahashi, Kazuki; Sakakibara, Nobuyoshi; Kami, Kenichiro; Horike, Satoshi; Tada, Tomofumi
United States, US20220181663 A1 2022-06-09 | Language: English, Database: CAplus



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Ultra-high temperature heat-conducting oil based on aprotic ionic liquid having good thermal stability, and its preparation method

By: Luo, Jiangshui; Wei, Runhong; Yi, Yingting
China, CN114437672 A 2022-05-06 | Language: Chinese, Database: CAplus

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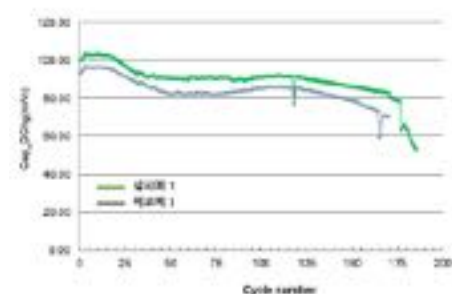
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Ionic liquid-containing solid polymer electrolyte membrane, and method for producing same

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



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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

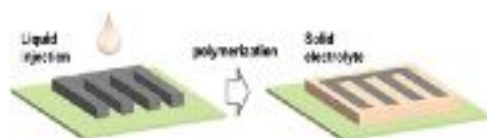
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Composition for polymer electrolyte comprising ion conductive monomer and polymerizable comonomer, polymer electrolyte comprising same, method for manufacturing polymer electrolyte, and electronic device

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

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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

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A method of continuous electrochemical dinitrogen reduction

By: MacFarlane, Douglas R.; Simonov, Alexandr Nikolaevich; Suryanto, Bryan Harry Rahmat; Matuszek, Karolina; Cherepanov, Pavel

World Intellectual Property Organization, WO2022020904 A1 2022-02-03 | Language: English, Database: CAplus

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Method for protecting metal anode of water system battery by hydrophobic organic layer

By: Niu, Zhiqiang; Zhu, Jiakai; Wan, Fang; Chen, Jun
China, CN113764652 A 2021-12-07 | Language: Chinese, Database: CAplus

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 Reactions (0)

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Electrochemical cells in the solid state, methods for preparing same and uses thereof

By: Kim, Chisu; Darwiche, Ali; Fleutot, Benoit; Garitte, Emmanuelle; Koh, Ki Seok; Girard, Marc-Andre; Gagnon, Catherine; Zaghib, Karim
World Intellectual Property Organization, WO2021237335 A1 2021-12-02 | Language: French, Database: CAplus

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Tactile sensor

By: Chen, Shuai; Leong, Wei Lin
World Intellectual Property Organization, WO2021236018 A1 2021-11-25 | Language: English, Database: CAplus

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Cost-effective method for recycling and utilizing lithium difluorophosphate synthesis tail gas

By: Zhang, Hu; Cai, Yuanli; Cao, Bin; Zhou, Zhenlun; Lv, Fulu
China, CN113636535 A 2021-11-12 | Language: Chinese, Database: CAplus

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 Reactions (0)

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36

Method for recycling battery electrodes

By: Billy, Emmanuel
World Intellectual Property Organization, WO2021198600 A1 2021-10-07 | Language: French, Database: CAplus

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 Reactions (0)

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Method for recycling battery electrodes

By: Billy, Emmanuel

France, FR3108918 A1 2021-10-08 | Language: French, Database: CAplus

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Methods of recovering an elemental rare earth metal, methods of forming a rare earth metal, and related systems

By: Case, Mary E.; Fox, Robert V.; Baek, Donna L.

United States, US20210292870 A1 2021-09-23 | Language: English, Database: CAplus

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39

Ionic liquid-based organic heat carrier new material, and its preparation method

By: Zhao, Jia

China, CN113429944 A 2021-09-24 | Language: Chinese, Database: CAplus

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Chemical treatment for preparing metal electrodes

By: Best, Adam; Collis, Gavin

World Intellectual Property Organization, WO2021155432 A1 2021-08-12 | Language: English, Database: CAplus

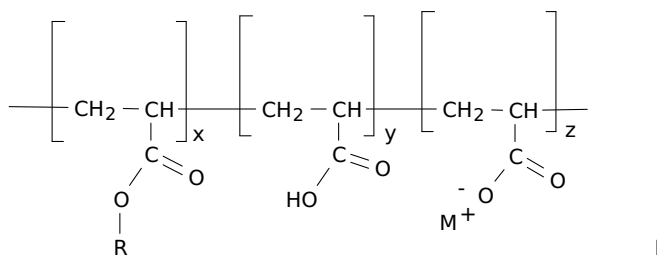
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41

High strength **ionic** gels based on multiple non-covalent crosslinking

By: Tang, Zhehao; Shen, Zhihao; Fan, Xinghe

China, CN113061266 A 2021-07-02 | Language: Chinese, Database: CAplus



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Substances (14)

Reactions (3)

Citing (0)

42

Piezoelectric composite materials having improved piezoelectric properties

By: Pibre, Guillaume; Lafort, Francois

World Intellectual Property Organization, WO2021130434 A1 2021-07-01 | Language: French, Database: CAplus

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Substances (30)

Reactions (0)

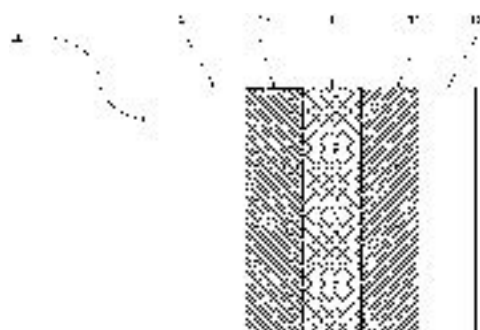
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Colloidal **ionic-liquid** electrolytes

By: Rodrigues, Stanley J.; Kichambare, Padmakar D.

United States, US11050082 B1 2021-06-29 | Language: English, Database: CAplus



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Substances (26)

Reactions (0)

Citing (0)

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Piezoelectric composite materials having improved piezoelectric properties

By: Pibre, Guillaume; Lafort, Francois

France, FR3105590 A1 2021-06-25 | Language: French, Database: CAplus

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 Substances (30)

 Reactions (0)

 Citing (0)

45

Combined graphene balls and metal particles for an anode of an alkali metal battery

By: Zhamu, Aruna; Chang, Hao-Hsun; Jang, Bor Z.

World Intellectual Property Organization, WO2021108558 A1 2021-06-03 | Language: English, Database: CAplus

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 Reactions (0)

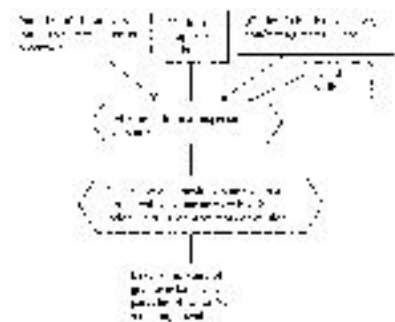
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46

Combined graphene balls and metal particles for an anode of an alkali metal battery

By: Zhamu, Aruna; Chang, Hao-Hsun; Jang, Bor Z.

United States, US20210155484 A1 2021-05-27 | Language: English, Database: CAplus



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 Substances (58)

 Reactions (0)

 Citing (0)

47

Process of rhodium recovery by electrochemical means

By: Billy, Emmanuel; Andrez, Julie

France, FR3099492 A1 2021-02-05 | Language: French, Database: CAplus

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 Reactions (0)

 Citing (0)

48

Process of electropolishing of rhodium parts by green chemicals

By: Billy, Emmanuel; Feydi, Pierre

France, FR3099493 A1 2021-02-05 | Language: French, Database: CAplus

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49

Method for preparing porous biochar by low temperature pyrolysis of waste biomass modified by ionic liquids and its application in the adsorption of carbon dioxide

By: Yang, Fan; Zuo, Xiuping; Zhao, Ling; Cao, Xinde; Huang, Yuandong; Ke, Qiang

China, CN112058231 A 2020-12-11 | Language: Chinese, Database: CAplus

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Ion gel/conductive polymer electromagnetic-shielding material and preparation method

By: Nie, Jun; Sun, Jingxian

China, CN112029221 A 2020-12-04 | Language: Chinese, Database: CAplus

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Ionic gel/magnetic material electromagnetic-shielding material and preparation method

By: Nie, Jun; Sun, Jingxian

China, CN111978457 A 2020-11-24 | Language: Chinese, Database: CAplus

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52

Ion thermoelectric material comprising ionic polymer and metal salt for electronic device, and ion thermoelectric element using same

By: Kim, Eun Gyeong; Kim, Byeong Gwan; Na, Jong Beom

Korea, Republic of, KR2020071001 A 2020-06-18 | Language: Korean, Database: CAplus

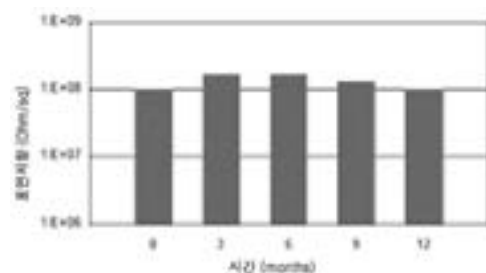
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Antistatic polymer blend

By: Hwang, Jin Taek

Korea, Republic of, KR2020069104 A 2020-06-16 | Language: Korean, Database: CPlus

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Reactions (0)

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Method for preparation and in-situ separation of oligomeric ricinoleic acid ester

By: Ye, Feng; He, Liangnian; You, Fei; Li, Hongru; Wang, Qingrui; Gao, Song; He, Xing; Cui, Xiaoying

China, CN111269116 A 2020-06-12 | Language: Chinese, Database: CPlus

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Reactions (7)

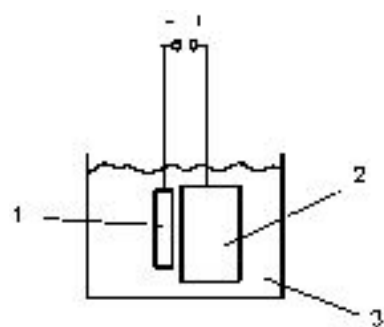
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Process to the electrochemical treatment of molybdenum basis alloys

By: Platz, Albin; Feiling, Nicole; Schekulin, Ulrich; Schekulin, Bettina

Germany, DE102018219196 A1 2020-05-14 | Language: German, Database: CPlus

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Semi-solid electrolyte comprising ionic liquid for supercapacitor, and manufacturing method using the same

By: Lee, Jeong Hyeon; Yoo, Jeong Jun; Yoon, Ha Na; Yeo, Jeong Gu

Korea, Republic of, KR2020044281 A 2020-04-29 | Language: Korean, Database: CAplus



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Reactions (0)

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57

Improved organic electrode material using nonconjugated polymer and ionic liquid

By: Wild, Andreas; Bakumov, Vadym; Korell, Michael

World Intellectual Property Organization, WO2020002032 A1 2020-01-02 | Language: English, Database: CAplus

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Reactions (0)

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58

Improved organic electrode material using nonconjugated polymer and ionic liquid

By: Wild, Andreas; Bakumov, Vadym; Korell, Michael

European Patent Organization, EP3588634 A1 2020-01-01 | Language: German, Database: CAplus

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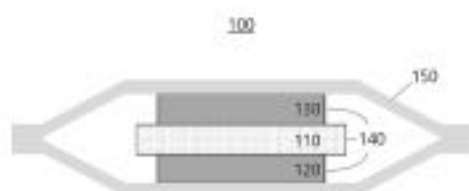
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Nanofiber web capacitive sensor

By: Kim, Hong Du; Kim, Gap Jin; Reza, Mohammad Shamim

Korea, Republic of, KR2042856 B1 2019-11-11 | Language: Korean, Database: CAplus



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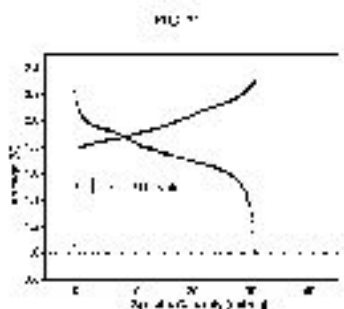
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Glass fiber composite separator

By: Lin, Meng-Chang; Pan, Chun-Jern; Tang, Meijie; Qi, Pengfei

World Intellectual Property Organization, WO2019195605 A1 2019-10-10 | Language: English, Database: CAplus



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Supported polymerization ionic liquid catalyst, preparation method and application thereof in synthesizing cyclic carbonate

By: Cheng, Weiguo; Ying, Ting; Su, Qian; Shi, Zijie; Dong, Li; Zhang, Yanqiang; Zhang, Suojia

China, CN110152731 A 2019-08-23 | Language: Chinese, Database: CAplus

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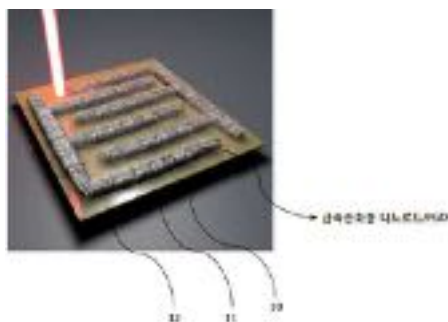
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Method for manufacturing patterned metal oxide nanorods capable of increasing power density

By: Lee, Min Hyeong; Jung, Jae Min; Lee, Sang Hwa

Korea, Republic of, KR2019097379 A 2019-08-21 | Language: Korean, Database: CAplus



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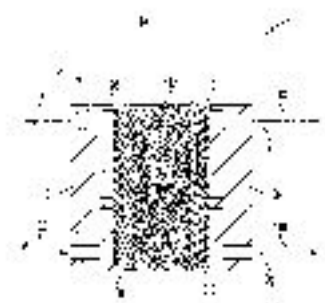
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System and method for electrochemical separation of oxygen

By: Desai, Divyaraj; Rivest, Jessica Louis Baker

United States, US20190226096 A1 2019-07-25 | Language: English, Database: CAplus



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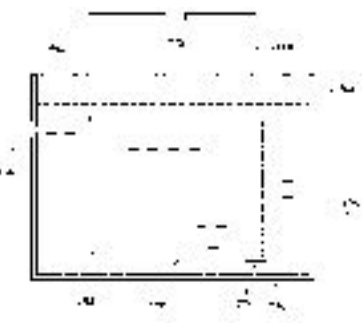
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Methods of forming metals using ionic liquids

By: Baek, Donna L.; Fox, Robert V.; Lister, Tedd E.

United States, US20190186031 A1 2019-06-20 | Language: English, Database: CAplus



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Manufacture method of regenerated cellulose/animal keratin composite fiber by using ionic liquid

By: Xie, Yueting; Shao, Changjin; Wang, Wenxin; Cao, Junyou; Song, Deshun; Xing, Shanqing; Gong, Erhai; Yang, Fengjun; Chen, Xinwei; Li, Hui

China, CN109881294 A 2019-06-14 | Language: Chinese, Database: CAplus

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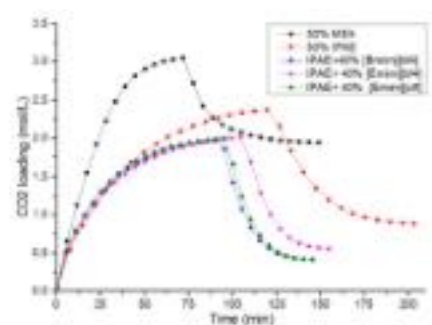
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Ionic liquid based acid gas absorbent and acid gas separation method

By: Song, Ho Jun; Jung, Hong Gi; Kang, Se Hui

Korea, Republic of, KR2019057586 A 2019-05-29 | Language: Korean, Database: CPlus



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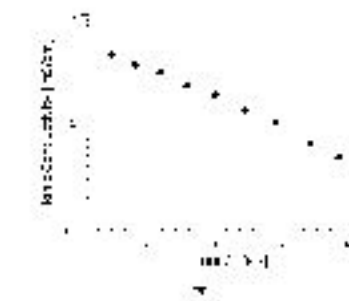
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Production of gel electrolyte composite with nonvolatile electrolyte and zwitterionic polymer scaffold to improve device property and safety

By: D'Angelo, Anthony J.; Taylor, Morgan; Panzer, Matthew; Qin, Huan

World Intellectual Property Organization, WO2019070513 A1 2019-04-11 | Language: English, Database: CPlus



PatentPak available

Substances (31)

Reactions (6)

Citing (0)

68

Chip form ultracapacitor

By: Brambilla, Nicolo; Hyde, John; Andree, Wyatt; Kalabathula, Susheel M.J.; Lane, Joseph K.

World Intellectual Property Organization, WO2019070897 A1 2019-04-11 | Language: English, Database: CAplus



PatentPak available

 Substances (64)

 Reactions (0)

 Citing (1)

69

Organic material purification composition and method of purifying organic materials using the same

By: Lee, Myung-Ki; Moon, Hyunsoo; Lee, Jongwon; Kang, Sunwoo; Park, Yongseok

United States, US20190091637 A1 2019-03-28 | Language: English, Database: CAplus



PatentPak available

 Substances (29)

 Reactions (0)

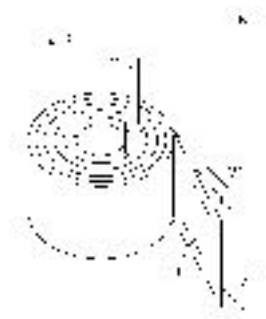
 Citing (0)

70

Low leakage electrolytic capacitor having the advantages required by the solid electrolytic capacitor and a reduced leakage current

By: Chen, Ming-Tsung; Su, Chung-Jui

United States, US20190096589 A1 2019-03-28 | Language: English, Database: CAplus



PatentPak available

 Substances (21)

 Reactions (0)

 Citing (0)

71

Preparation method of super-crosslinked porous poly(ionic liquid) material for catalysis, gas adsorption, and wastewater treatment

By: Liang, Xuezheng; Shi, Yingxia; Cheng, Yuxiao; Gu, Zhongyi; Ma, Weixin; Ji, Shaochuan

China, CN109400781 A 2019-03-01 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (20)

 Reaction (1)

 Citing (0)

72

Preparation method and application of super crosslinked porous polyionic liquid material

By: Liang, Xuezheng; Shi, Yingxia; Cheng, Yuxiao; Gu, Zhongyi; Ouyang, Chao; Zhang, Jie

China, CN109400771 A 2019-03-01 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (21)

 Reactions (0)

 Citing (0)

73

Method for regenerating acidic ionic liquid in refining and fine chemicals

By: Tang, Xiaodong; Li, Jingjing; Qing, Dayong; Zhang, Xiaopu; Wang, Zhiyu; Leng, Manxi; Zhang, Hongyu; Wang, Chun; Yang, Liu; Zhang, Shufeng

China, CN109382142 A 2019-02-26 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (32)

 Reactions (0)

 Citing (0)

74

Method for performing organoantimony-adjusted living free radical polymerization in ionic liquid

By: Li, Jun; Shen, Sainan; Shen, Zhen; Huang, Liyan; Wu, Ying; Liu, Zhengping
China, CN108929398 A 2018-12-04 | Language: Chinese, Database: CAplus

PatentPak available

Substances (48)

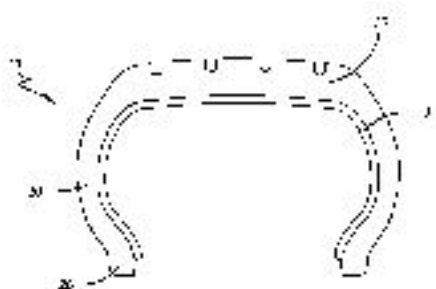
Reactions (3)

Citing (0)

75

Polymer electrolyte membrane assembly

By: Kyu, Thein; Piedrahita, Camilo Rendon; Cao, Jinwei
United States, US20180337417 A1 2018-11-22 | Language: English, Database: CAplus



PatentPak available

Substances (91)

Reactions (0)

Citing (3)

76

Organic self-supporting film, preparation method and application

By: Pan, Gebo; Xiao, Yan
China, CN108728794 A 2018-11-02 | Language: Chinese, Database: CAplus



PatentPak available

Substances (27)

Reactions (0)

Citing (0)

77

Battery member for secondary battery, and secondary battery and production method therefor

By: Nishimura, Takuya; Gogyo, Yuma; Kojima, Katsunori

World Intellectual Property Organization, WO2018198168 A1 2018-11-01 | Language: Japanese, Database: CAplus



PatentPak available

 Substances (30)

 Reactions (0)

 Citing (0)

78

Battery member comprising imide type lithium salt for secondary battery, and manufacturing method for same

By: Nishimura, Takuya; Gogyo, Yuma; Kojima, Katsunori

World Intellectual Property Organization, WO2018198969 A1 2018-11-01 | Language: Japanese, Database: CAplus



PatentPak available

 Substances (26)

 Reactions (0)

 Citing (0)

79

Secondary battery with long cycle life

By: Lin, Meng-Chang; Tang, Meijie; Dai, Hongjie; Pan, Chun-Jern; Qi, Pengfei

World Intellectual Property Organization, WO2018191308 A1 2018-10-18 | Language: English, Database: CPlus



PatentPak available

Substances (41)

Reactions (0)

Citing (0)

80

Method for recovering silver present on a substrate, electrochemically, in the presence of an ionic liquid

By: Billy, Emmanuel

European Patent Organization, EP3388554 A1 2018-10-17 | Language: French, Database: CPlus

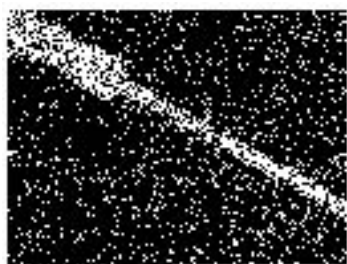


FIG. 1

PatentPak available

Substances (22)

Reactions (0)

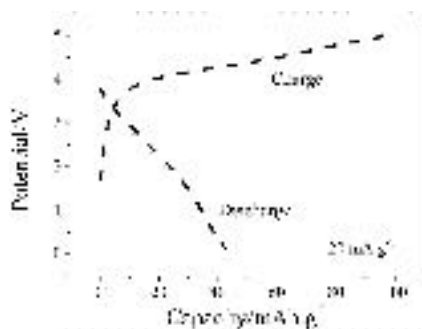
Citing (0)

81

Preparation and testing method of dual ion battery based on PP₁₄NF₂ electrolyte

By: Li, Jianling; Li, Zhanyu; Liu, Jian

China, CN108511790 A 2018-09-07 | Language: Chinese, Database: CAplus



PatentPak available

Substances (6)

Reactions (0)

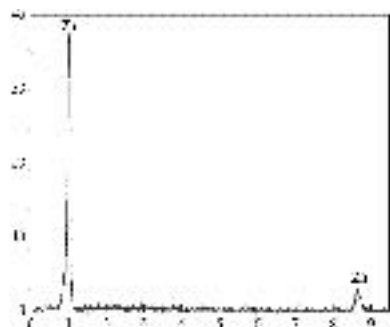
Citing (0)

82

Preparation method of metal by ionic liquid electrolyzing metal oxide

By: Li, Ying; Li, Min

China, CN108441886 A 2018-08-24 | Language: Chinese, Database: CAplus



PatentPak available

Substances (40)

Reactions (0)

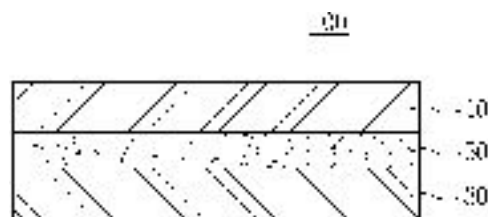
Citing (0)

83

All solid-state battery having sulfide-based solid electrolyte and its manufacturing method

By: Cho, U Seok; Kim, Gyeong Su; Park, Je Sik; Song, Jun Ho; Yoo, Ji Sang

Korea, Republic of, KR2018094184 A 2018-08-23 | Language: Korean, Database: CAplus



PatentPak available

Substances (27)

Reactions (0)

Citing (0)

84

Purification method of acetic acid with cyclical ionic flux membrane

By: Cehreli, Suheyla; Baylan, Nilay

Turkey, TR2017021494 A2 2018-07-23 | Language: Turkish, Database: CAplus

PatentPak available

 Substances (18)

 Reactions (0)

 Citing (0)

85

Method for producing 5-hydroxymethylfurfural (HMF) and its derivatives from sugar conversions using water-insoluble ionic liquid

By: Colpo de Melo, Fernanda; Oberson de Souza, Michele; Fernando de Souza, Roberto

Brazil, BR102016031027 A2 2018-07-17 | Language: Portuguese, Database: CAplus

PatentPak available

 Substances (31)

 Reactions (0)

 Citing (0)

86

Biodegradable and biosourced polymers for use in manufacturing of plastic bags

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

World Intellectual Property Organization, WO2018108881 A1 2018-06-21 | Language: French, Database: CAplus

PatentPak available

 Substances (50)

 Reactions (0)

 Citing (1)

87

Ionic liquid type heavy oil viscosity reducer prepared with microbial surfactant and preparation method thereof

By: Li, Bo; Gao, Wenbo; Wang, Baozhu; Li, Guojun; Wang, Zhu; Shen, Yujiang; Wang, Qiang; Wu, Lianhe; Feng, Liping; Xu, Longguang
China, CN108148565 A 2018-06-12 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (17)

 Reactions (0)

 Citing (0)

88

Selective extraction of radioactive element from radioactive waste solution using separation treatment method

By: Choi, Sang Jun; Oh, Won Jin; Choi, Jeong Won; Cho, Seung Yeon; Lee, Hyeon Gyu
Korea, Republic of, KR2018058330 A 2018-06-01 | Language: Korean, Database: CAplus



PatentPak available

Substances (25)

Reactions (0)

Citing (0)

89

Device for generating oxygen

By: Kuehn, Fritz; Groche, Florian J.; Kallfass, Christoph
European Patent Organization, EP3323471 A1 2018-05-23 | Language: English, Database: CAplus



PatentPak available

Substances (28)

Reactions (0)

Citing (0)

90

Method for preparing graphene-containing thermally conductive heat-dissipating composite by exfoliating graphite with shear thickening system

By: Yang, Yingkui; Wang, Xianggang; Qiu, Shengqiang; He, Chengen; Lei, Sheng; Zhang, Jinlong
China, CN108047822 A 2018-05-18 | Language: Chinese, Database: CAplus



PatentPak available

 Substances (33)

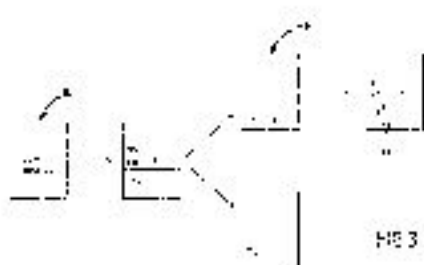
 Reactions (0)

 Citing (2)

91

Ionic liquid-acid aqueous two-phase system for extracting metal ions

By: Papaiconomou, Nicolas; Coutinho, Joao Manuel da Costa e Araujo Pereira; Gras, Matthieu; Billard, Isabelle
World Intellectual Property Organization, WO2018087364 A1 2018-05-17 | Language: French, Database: CAplus



PatentPak available

 Substances (17)

 Reactions (0)

 Citing (0)

92

Engine lubricating oil composition and method for improving detergency of internal combustion engine lubricating oil

By: Liu, Yinong; Duan, Qinghua; Wei, Kecheng; Zhang, Yao
China, CN107987918 A 2018-05-04 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (39)

 Reactions (0)

 Citing (0)

93

Protected anodes and methods for making and using same

By: Salehi-Khojin, Amin; Asadi, Mohammad; Sayahpour, Bahark; Abbasi, Pedram

World Intellectual Property Organization, WO2018075538 A1 2018-04-26 | Language: English, Database: CPlus

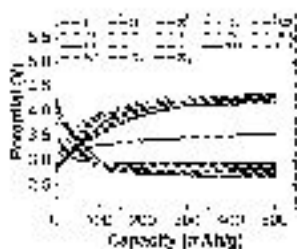


Figure 1

PatentPak available

Substances (35)

Reactions (0)

Citing (0)

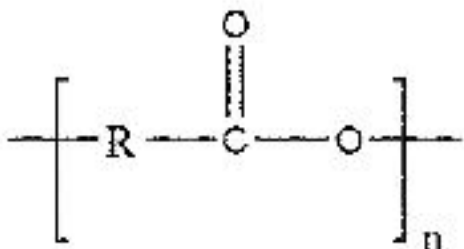
94

Positive electrode for metal secondary battery and metal secondary battery including the same

By: Lee, Dongjin; Jeong, Joonseon; Kim, Chansu; Yang, Yooseong; Yu, Taehwan

European Patent Organization, EP3312919 A1 2018-04-25 | Language: English, Database: CPlus

Formula 1



PatentPak available

Substances (110)

Reactions (0)

Citing (0)

95

Manufacturing of flexible supercapacitors

By: Miles, Anthony; Vyas, Niladri

United Kingdom, GB2554367 A 2018-04-04 | Language: English, Database: CAplus



PatentPak available

 Substances (20)

 Reactions (0)

 Citing (0)

96

Manufacturing of flexible supercapacitors

By: Miles, Anthony; Vyas, Niladri

World Intellectual Property Organization, WO2018055385 A1 2018-03-29 | Language: English, Database: CAplus



PatentPak available

 Substances (20)

 Reactions (0)

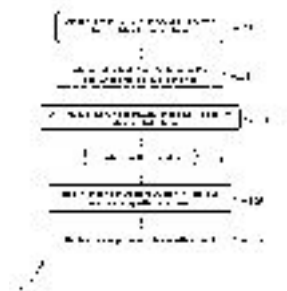
 Citing (0)

97

Proton exchange composite membrane

By: Hooshyari, Khadijeh; Javanbakht, Mehran; Adibi, Mina

United States, US20180069257 A1 2018-03-08 | Language: English, Database: CAPlus

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

98

Removal of metal ions from aqueous solution via **liquid/liquid** extraction and electrochemistry

By: Hatton, T. Alan; Brown, Paul; Voskian, Sahag

World Intellectual Property Organization, WO2018035136 A1 2018-02-22 | Language: English, Database: CAPlus

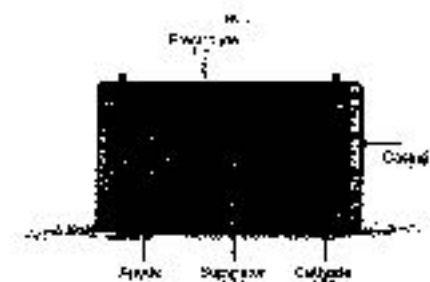
PatentPak available Substances (42) Reactions (0) Citing (0)

99

Porous polyetherimide membrane with electrolyte composition comprising an **ionic liquid**

By: L'Abée, Roy Martinus Adrianus; Darosa, Fabien

World Intellectual Property Organization, WO2018029580 A1 2018-02-15 | Language: English, Database: CAPlus

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

100

Systems and methods incorporating ionic liquids for electrochemically mediated capturing of Lewis acid gases

By: Hatton, Trevor Alan; Brown, Paul; Voskian, Sahag

World Intellectual Property Organization, WO2018022756 A1 2018-02-01 | Language: English, Database: CAPLUS



PatentPak available

Substances (47)

Reactions (0)

Citing (1)

101

Process for preparing highly reactive isobutene homo- or copolymers

By: Corberan Roc, Rosa; Muehlbach, Klaus; Wettling, Thomas; Kostjuk, Sergei V.; Vasilenko, Irina; Shiman, Dmitry; Berazianka, Ivan

World Intellectual Property Organization, WO2018015306 A1 2018-01-25 | Language: English, Database: CAPLUS

PatentPak available

Substances (75)

Reaction (1)

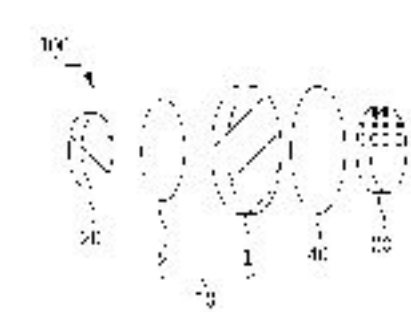
Citing (3)

102

Multilayer electrolyte cell, secondary battery comprising multilayer electrolyte cell and manufacturing method therefor

By: Lim, Seong Yun; Kwon, Ji Yun; Kim, Seok Gu; Ha, Hoe Jin; Kim, Yeong Sik; Choi, Hyeon Ji; Kim, Jae Gwang; Heo, Seong U

Korea, Republic of, KR2018006202 A 2018-01-17 | Language: Korean, Database: CAPLUS



PatentPak available

Substances (26)

Reactions (0)

Citing (0)

103

Multilayer electrolyte cell, secondary battery comprising multilayer electrolyte cell and manufacturing method therefor

By: Lim, Seongyoon; Kwon, Jiyeon; Kim, Seok Koo; Hah, Hoejin; Kim, Youngsik; Choi, Hyunji; Kim, Jaekwang; Hur, Seongwoo
World Intellectual Property Organization, WO2018009018 A1 2018-01-11 | Language: Korean, Database: CAplus



PatentPak available

 Substances (26)

 Reactions (0)

 Citing (0)

104

Process for the recovery of platinum, electrochemically, from a material which contains same

By: Billy, Emmanuel; Balva, Maxime; Leclerc, Natalie; Legeai, Sophie; Meux, Eric
European Patent Organization, EP3263744 A1 2018-01-03 | Language: French, Database: CAplus

PatentPak available

 Substances (27)

 Reactions (0)

 Citing (1)

105

Method of electroless deposition of aluminum or aluminum alloy, an electroless plating composition, and an article including the same

By: Martin, John H.; Kolodziejska, Joanna A.; Vajo, John J.; Graetz, Jason A.; Roper, Christopher S.
United States, US9803283 B1 2017-10-31 | Language: English, Database: CAplus



PatentPak available

 Substances (34)

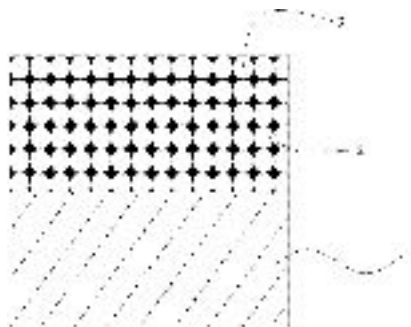
 Reactions (0)

 Citing (1)

106

Foamed gallium nitride and preparation method thereof

By: Pan, Gebo; Qin, Shuangjiao; Peng, Fei; Chen, Xueqing
China, CN107285798 A 2017-10-24 | Language: Chinese, Database: CAplus



PatentPak available

 Substances (8)

 Reactions (0)

 Citing (0)

107

Preparation method of phosphatidylserine for food

By: Chen, Qing; Zeng, Juntang; Chen, Bing
China, CN107142289 A 2017-09-08 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (21)

 Reactions (0)

 Citing (1)

108

Method for application of metal sulfide to lithium secondary battery positive electrode

By: Li, Feng; Wang, Yuzuo; Shan, Xuyi; Wang, Dawei; Sun, Zhenhua; Cheng, Huiming
China, CN106876708 A 2017-06-20 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (30)

 Reactions (0)

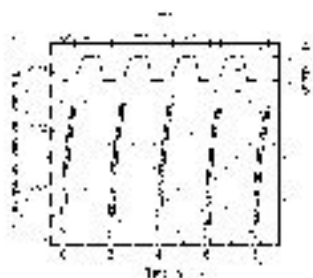
 Citing (0)

109

Metal-containing ionic liquids and methods of preparing and using same

By: Gin, Douglas L.; Kono, Yuki; Cowan, Matthew G.; Noble, Richard

World Intellectual Property Organization, WO2017075242 A1 2017-05-04 | Language: English, Database: CAplus



PatentPak available

Substances (28)

Reactions (0)

Citing (0)

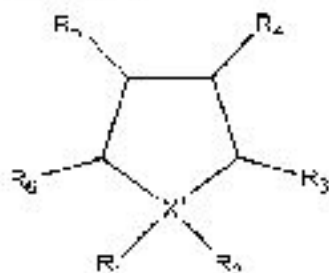
110

Lithium metal battery

By: Kim, Jusik; Kim, Hyunseok; Ryu, Saebom; Park, Joungwon; Kang, Hyorang; Park, Dahye; Chang, Wonseok

European Patent Organization, EP3151314 A1 2017-04-05 | Language: English, Database: CAplus

Formula 1



PatentPak available

Substances (81)

Reactions (0)

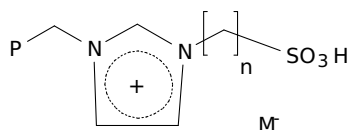
Citing (2)

111

Immobilized ionic liquid catalyst and use

By: Yu, Fengping; He, Wenjun; Zong, Hongyuan

China, CN106391113 A 2017-02-15 | Language: Chinese, Database: CAplus



PatentPak available

Substances (35)

Reactions (6)

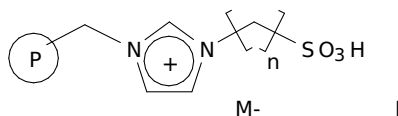
Citing (0)

112

Immobilized ionic liquid catalyst and its use

By: Yu, Fengping; He, Wenjun; Zong, Hongyuan

China, CN106391114 A 2017-02-15 | Language: Chinese, Database: CAplus



PatentPak available

Substances (37)

Reactions (7)

Citing (0)

113

Immobilized ionic liquid catalyst and its uses

By: Yu, Fengping; He, Wenjun; Zong, Hongyuan

China, CN106391115 A 2017-02-15 | Language: Chinese, Database: CAplus

PatentPak available

Substances (36)

Reactions (0)

Citing (0)

114

Immobilized ionic liquid catalyst and its use

By: Yu, Fengping; He, Wenjun; Zong, Hongyuan

China, CN106391112 A 2017-02-15 | Language: Chinese, Database: CAplus

PatentPak available

Substances (38)

Reactions (0)

Citing (0)

115

Supported ionic liquid catalyst, its preparation and use

By: Yu, Fengping; He, Wenjun; Zong, Hongyuan

China, CN106391116 A 2017-02-15 | Language: Chinese, Database: CAplus

PatentPak available

Substances (34)

Reactions (2)

Citing (0)

116

Ionic liquid electrolytes and electrochemical devices comprising same

By: Grinstaff, Mark W.; Lin, Xinrong

World Intellectual Property Organization, WO2017011759 A1 2017-01-19 | Language: English, Database: CAplus

**PatentPak** available

Substances (20)

Reactions (0)

Citing (0)

117

Wide temperature range ultracapacitor

By: Brambilla, Nicolo Michele; Martini, Fabrizio

World Intellectual Property Organization, WO2016204820 A2 2016-12-22 | Language: English, Database: CAplus

PatentPak available

Substances (50)

Reactions (0)

Citing (0)

118

Aluminum secondary battery with nonaqueous electrolyte containing aluminum complex and **ionic liquid**

By: Ida, Kazuhiko; Umeda, Yuki

Japan, JP2016213101 A 2016-12-15 | Language: Japanese, Database: CAplus

PatentPak available

Substances (15)

Reactions (0)

Citing (0)

119

Lithium-ion secondary battery using electrolyte solution containing **ionic liquid**

By: Nishimura, Takuya; Lin, Xiaocun

Japan, JP2016189239 A 2016-11-04 | Language: Japanese, Database: CAplus

PatentPak available

Substances (8)

Reactions (0)

Citing (1)

120

Precipitation separation processing method by ionic liquid for selectively extract separation of strontium of cesium from radioactive liquid waste

By: Choi, Sang Jun; Oh, Won Jin; Choi, Jeong Won; Lee, Hyeon Gyu; Kwon, Su Min
Korea, Republic of, KR1668956 B1 2016-10-25 | Language: Korean, Database: CAplus



PatentPak available

 Substances (16)

 Reactions (0)

 Citing (0)

121

Contaminant removal using halometallate ionic liquid micro-emulsions

By: Buchbinder, Avram M.; Towler, Gavin P.; Abrevaya, Hayim; Bhattacharyya, Alakananda
World Intellectual Property Organization, WO2016161206 A1 2016-10-06 | Language: English, Database: CAplus



PatentPak available

 Substances (42)

 Reactions (0)

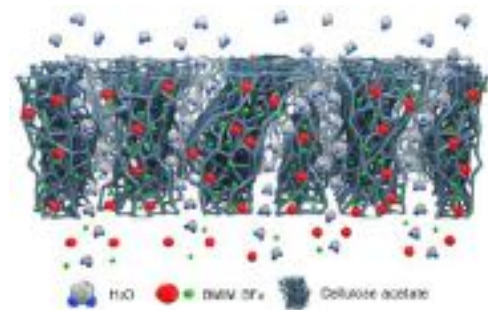
 Citing (0)

122

Method of producing porous polymer film using ionic liquid and hydraulic pressure, and membrane including porous polymer film manufactured therefrom

By: Kang, Sang Uk; Lee, Ung Gi

Korea, Republic of, KR2016109391 A 2016-09-21 | Language: Korean, Database: CAplus



PatentPak available

Substances (10)

Reactions (0)

Citing (0)

123

Lithium-ion secondary battery

By: Nishimura, Takuya; Aotani, Shoji

Japan, JP2016149189 A 2016-08-18 | Language: Japanese, Database: CAplus

PatentPak available

Substances (15)

Reactions (0)

Citing (2)

124

High-temperature composite proton exchange membrane for fuel cell and method for preparing.

By: Lin, Bencai; Li, Xingxing; Ding, Jianning; Chu, Fuqiang; Yuan, Ningyi; Qiao, Gang

China, CN105826585 A 2016-08-03 | Language: Chinese, Database: CAplus

PatentPak available

Substances (9)

Reactions (0)

Citing (0)

125

Nano-carbon catalytic system using ionic liquids as medium and its preparation method and application

By: Su, Dangsheng; Ding, Yuxiao

China, CN105642350 A 2016-06-08 | Language: Chinese, Database: CAplus

PatentPak available

Substances (22)

Reactions (0)

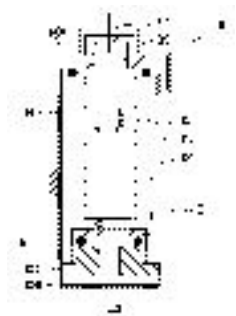
Citing (0)

126

Purification container and purification method

By: Park, Yong Seok

Korea, Republic of, KR2016063505 A 2016-06-07 | Language: Korean, Database: CAplus



PatentPak available

 Substances (19)

 Reactions (0)

 Citing (0)

127

Preparation method of porous polyionic **liquid** catalyst for synthesizing biodiesel

By: Guan, Guofeng; Wan, Hui; Wu, Zuowang; Chen, Chong; Wang, Lei

China, CN105618149 A 2016-06-01 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (25)

 Reactions (0)

 Citing (0)

128

A method for improving resistance to coking of a lubricating composition

By: Goujon, Gerard; Severac, Florence; Faye, Djibril

France, FR3028523 A1 2016-05-20 | Language: French, Database: CAplus

PatentPak available

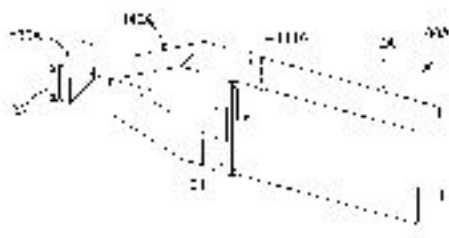
 Substances (78)

 Reactions (0)

 Citing (0)

Neutron detector with interblended **liquid** scintillator

United States, US20160139280 A1 2016-05-19 | Language: English, Database: CPlus



“ Citing (1)

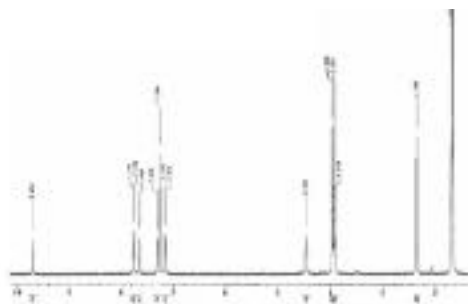
Ionic liquid functional snow shaped anisotropic composite material and preparation method and application thereof

China, CN105536639 A 2016-05-04 | Language: Chinese, Database: CAPLUS

“Citing (0)

Ionic liquid composition for decomposing creosote oil and treatment method of waste sleeper using thereof

Korea, Republic of, KR2016047956 A 2016-05-03 | Language: Korean, Database: CPlus



“Citing (0)

132

Electrolyte additives for high-voltage lithium-ion batteries

By: Amereller, Marius; Badillio Jimenez, Juan Pablo; Gallus, Dennis; Hoffmann, Bjoern; Kasnatscheew, Johannes; Kraft, Vadim; Reyes Jimenez, Antonia; Roeser, Stephan; Schmitz, Raphael Wilhelm; Streipert, Benjamin; et al

World Intellectual Property Organization, WO2016055220 A1 2016-04-14 | Language: German, Database: CAplus



PatentPak available

Substances (34)

Reactions (0)

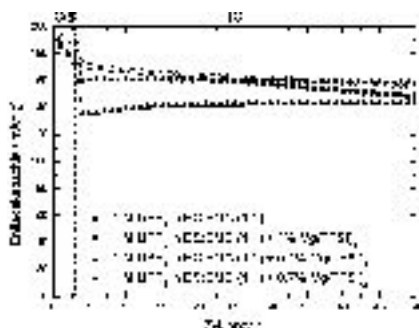
Citing (0)

133

Electrolyte additives for high-voltage lithium-ion batteries

By: Reyes Jimenez, Antonia; Winter, Martin; Kasnatscheew, Johannes; Amereller, Marius; Schmitz, Raphael Wilhelm; Gallus, Dennis; Streipert, Benjamin; Hoffmann, Bjoern; Wagner, Ralf; Roeser, Stephan; et al

Germany, DE102014220504 A1 2016-04-14 | Language: German, Database: CAplus



PatentPak available

Substances (34)

Reactions (0)

Citing (2)

134

Method for obtaining graphene through electrochemical exfoliation route

By: Bischof, Alan Ben Hur; Santana dos Santos, Fabio; Garcia, Jarem Raul; Wohnrath, Karen; Ferreira, Rodolfo Thiago

Brazil, BR102013019478 A2 2016-04-12 | Language: Portuguese, Database: CAplus

PatentPak available

Substances (13)

Reactions (0)

Citing (0)

135

Processes for recovering rare earth elements

By: Hatchett, David W.; Czerwinski, Kenneth R.; Droessler, Janelle; Jayne, Karen D.; Kimble, Michael C.; Boutin, Kyle G.
World Intellectual Property Organization, WO2016054265 A1 2016-04-07 | Language: English, Database: CAplus

PatentPak available

 Substances (15)

 Reactions (0)

 Citing (1)

136

Solid organic electrolytes

By: Krishnan, Sitaraman; Ganapatibhotla, Lalitha; Roy, Dipankar; Zheng, Jianping
United States, US9293786 B1 2016-03-22 | Language: English, Database: CAplus

PatentPak available

 Substances (33)

 Reactions (5)

 Citing (0)

137

Interfacial infiltration quasi-solid alkali metal battery, battery electrode and battery preparation method

By: Wang, Shaofei; Zhang, Shu; Wu, Jiaoyang; Li, Hong; Chen, Liquan
China, CN105374980 A 2016-03-02 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (258)

 Reactions (0)

 Citing (1)

138

Electrolytic doping of non-electrolyte layers in printed batteries

By: MacKenzie, John Devin; Ho, Christine Chihfan; Yogeewaran, Karthik; Cheng, Po-Jen
United States, US9276292 B1 2016-03-01 | Language: English, Database: CAplus



PatentPak available

 Substances (18)

 Reactions (0)

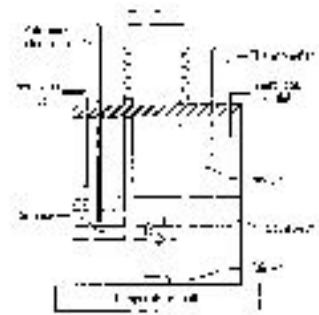
 Citing (2)

139

Aluminum recovery process

By: Reddy, Ramana G.; Zhang, Mingming

United States, US9267214 B2 2016-02-23 | Language: English, Database: CAplus

**PatentPak** available Substances (67) Reactions (0) Citing (0)

140

Process for obtaining compounds useful for the production of biofuels starting from cellulose

By: Bellussi, Giuseppe; De Angelis, Alberto Renato

World Intellectual Property Organization, WO2015198267 A1 2015-12-30 | Language: English, Database: CAplus

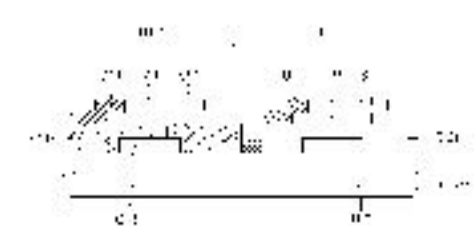
PatentPak available Substances (19) Reactions (0) Citing (0)

141

Semiconductor device, method of manufacturing the same, and electronic device including the same

By: Kim, Unjeong; Shim, Youngseon; Park, Yeonsang; Lee, Changwon; Hwang, Sungwoo

United States, US20150364472 A1 2015-12-17 | Language: English, Database: CAplus

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

142

Lithium-ion secondary batteries having excellent high-temperature storage stability with high voltage cathodes

By: Onuma, Takamitsu; Kojima, Katsunori

Japan, JP2015201336 A 2015-11-12 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (14)

 Reactions (0)

 Citing (0)

143

Method for nickel electroplating in the printed circuit board by using ionic liquid

By: He, Bo; Lin, Junxiu; Hu, Wencheng; Xu, Yushan

China, CN105018975 A 2015-11-04 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (24)

 Reactions (0)

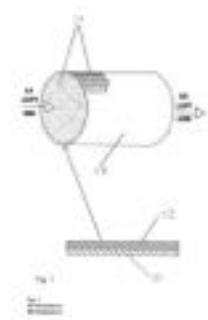
 Citing (0)

144

Filter and method for producing same

By: Paul, Manfred; Luka, Patrick

World Intellectual Property Organization, WO2015150288 A1 2015-10-08 | Language: German, Database: CAplus



PatentPak available

 Substances (17)

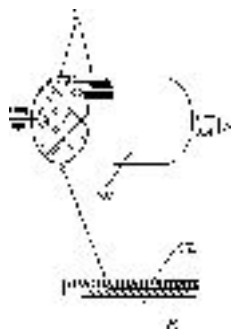
 Reactions (0)

 Citing (0)

145

Air Filter

By: Paul, Manfred; Luka, Patrick; Pommersheim, Rainer; Sweredjuk, Robert
Germany, DE102014206081 A1 2015-10-01 | Language: German, Database: CAplus



PatentPak available

 Substances (17)

 Reaction (1)

 Citing (1)

146

Sensing electrode of enzyme-based sensor and method for manufacturing the same

By: Chang, Jeng-Kuei; Wu, Jia-Wun; Lee, Sheng-Wei; Wang, Chueh-Han; Wang, Yi-Chen
United States, US20150198556 A1 2015-07-16 | Language: English, Database: CAplus

PatentPak available

 Substances (33)

 Reactions (0)

 Citing (0)

147

Polymer electrolyte membranes and process for the production thereof

By: Nair, Jijeesh Ravi; Gerbaldi, Claudio; Porcarelli, Luca; Bella, Federico; Doberdo, Italo; Bodoardo, Silvia; Penazzi, Nerino; Capiglia, Claudio
World Intellectual Property Organization, WO2015104727 A1 2015-07-16 | Language: English, Database: CAplus

PatentPak available

 Substances (25)

 Reactions (0)

 Citing (0)

148

Advanced electrolytes for high temperature energy storage device

By: Brambilla, Nicolo Michele; Martini, Fabrizio; Cooley, John J.; Signorelli, Riccardo; Henricksen, Kyle
World Intellectual Property Organization, WO2015102716 A2 2015-07-09 | Language: English, Database: CAplus

PatentPak available

 Substances (44)

 Reactions (0)

 Citing (0)

149

Nanofiber coating with ionic adhesives

By: Anonymous

IP.com Journal (2015), 15(7A), 1-7 | Language: German, Database: CAplus

 Substances (37) Reactions (0) Citing (0)

150

Compositions and methods for gas capture processes

By: Stites, Ronald C.; Hohman, Jerrod; Carlisle, Trevor; Lafrate, Andrew L.; Bara, Jason E.; Staab, Gregory Allan; Huffman, Michael C.
United States, US20150125372 A1 2015-05-07 | Language: English, Database: CAplus**PatentPak** available Substances (41) Reactions (0) Citing (0)

151

Method of separation of hemicellulose and cellulose from polysaccharide sources

By: Sixta, Herbert; Hummel, Michael; Iakovlev, Mikhail; Tolonen, Lasse

United States, US20150107790 A1 2015-04-23 | Language: English, Database: CAplus

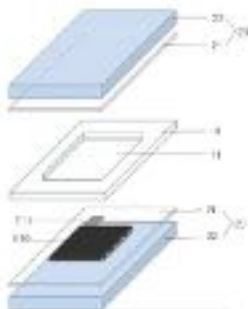
**PatentPak** available Substances (20) Reactions (0) Citing (0)

152

Manufacturing method of single electrode integrated ion gel electrolyte

By: Park, Jun U; Kim, Ik Jun; Yang, Seon Hye; Choi, In Sik

Korea, Republic of, KR1514280 B1 2015-04-22 | Language: Korean, Database: CAplus



PatentPak available

 Substances (29)

 Reactions (0)

 Citing (0)

153

Electrolyte and photovoltaic cell comprising the same

By: Villarroya-Lidon, Silvia; Chittibabu, Kethinni G.

United Kingdom, GB2518837 A 2015-04-08 | Language: English, Database: CAplus



PatentPak available

 Substances (57)

 Reactions (0)

 Citing (0)

154

Lithium ion secondary cell

By: Nishimura, Takuya

World Intellectual Property Organization, WO2015046468 A1 2015-04-02 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (15)

 Reactions (0)

 Citing (0)

155

Lithium ion secondary batteries having lithium transition metal compound-containing cathodes, lithium titanate-containing anodes, and ionic liquid-containing electrolytes

By: Nishimura, Takuya; Aichi, Katsuhide

Japan, JP2015037054 A 2015-02-23 | Language: Japanese, Database: CAplus

PatentPak available

Substances (14)

Reactions (0)

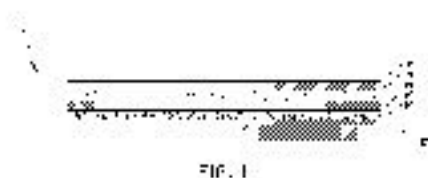
Citing (0)

156

Printed silver oxide batteries

By: Lockett, Vera; Gustafson, John; Ray, William Johnstone; Salah, Yasser

World Intellectual Property Organization, WO2015009867 A1 2015-01-22 | Language: English, Database: CAplus



PatentPak available

Substances (179)

Reactions (0)

Citing (0)

157

Method for removing ionic liquid containing long alkyl chain from sample solution

By: Zhang, Lihua; Zhao, Qun; Yang, Kaiguang; Fang, Fei; Zhang, Yukui

China, CN104236983 A 2014-12-24 | Language: Chinese, Database: CAplus

PatentPak available

Substances (26)

Reactions (0)

Citing (0)

158

Method for removing from a solution sample ionic liquid containing long alkyl chains

By: Zhang, Lihua; Zhao, Qun; Yang, Kaiguang; Fang, Fei; Zhang, Yukui

World Intellectual Property Organization, WO2014198113 A1 2014-12-18 | Language: Chinese, Database: CAplus

PatentPak available

Substances (26)

Reactions (0)

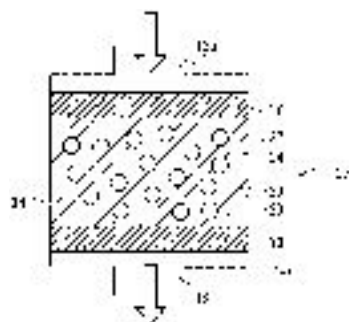
Citing (0)

159

Oil filter having gel for internal combustion engine

By: Fukutomi, Ippei; Murakami, Motoichi; Morishita, Hideto; Saito, Yasuhiro

World Intellectual Property Organization, WO2014174756 A1 2014-10-30 | Language: Japanese, Database: CAplus



PatentPak available

 Substances (31)

 Reactions (0)

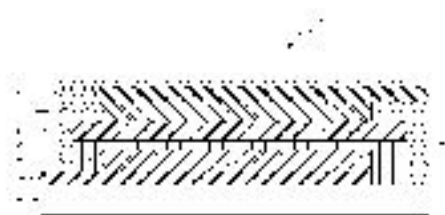
 Citing (0)

160

Printed energy storage device

By: Lockett, Vera N.; Daneshi, Leila; Ray, William J.; Gustafson, John G.

United States, US20140302373 A1 2014-10-09 | Language: English, Database: CAplus



PatentPak available

 Substances (42)

 Reactions (0)

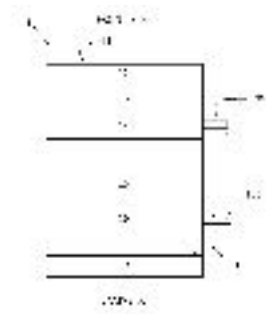
 Citing (0)

161

Variable-emittance electrochromic devices and methods of preparing the same

By: Chandrasekhar, Prasanna

United States, US20140268283 A1 2014-09-18 | Language: English, Database: CAplus



PatentPak available

Substances (33)

Reactions (0)

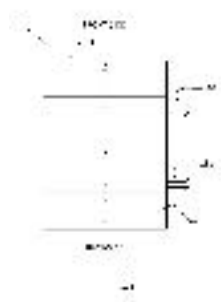
Citing (2)

162

Variable-emittance electrochromic devices and methods of preparing the same

By: Chandrasekhar, Prasanna

World Intellectual Property Organization, WO2014143011 A1 2014-09-18 | Language: English, Database: CAplus



PatentPak available

Substances (33)

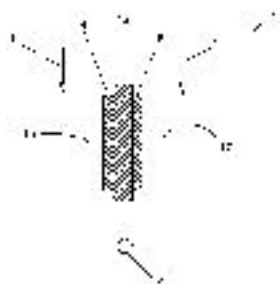
Reactions (0)

Citing (0)

163

Gas sensor

By: Chen, Lei; Yang, Zhiwei; Yamanis, Jean; Zafiris, Georgios S.; Sangiovanni, Joseph J.
United States, US20140251834 A1 2014-09-11 | Language: English, Database: CAplus



PatentPak available

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

164

Electrolyte based on ionic liquid metal complex and preparation method thereof

By: Miao, Qingqing; Zhang, Suojiang; Xu, Hui; Zhang, Pengmei
China, CN103887069 A 2014-06-25 | Language: Chinese, Database: CAplus

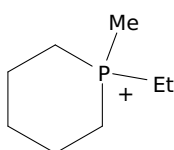
PatentPak available

 Substances (58) Reactions (0) Citing (0)

165

Phosphonium ionic liquids, salts, compositions, methods of making and devices formed there from

By: Rupert, Benjamin L.; Irwin, Levi J.; Beer, Leanne; Worlikar, Shilpa A.; Shi, Steven Z.
World Intellectual Property Organization, WO2014088710 A1 2014-06-12 | Language: English, Database: CAplus



PatentPak available

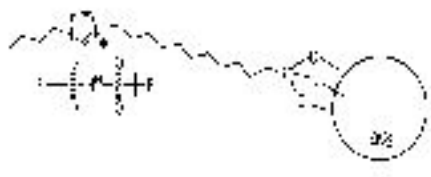
 Substances (67) Reactions (13) Citing (1)

166

Ionic-liquid nanoscale **ionic** material (il-nim) compositions, methods and applications

By: Archer, Lynden A.; Moganty, Surya S.; Lu, Yingying

United States, US20140154588 A1 2014-06-05 | Language: English, Database: CAplus

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

167

Method for preparation of working medium pair for absorption thermal circulatory system with heat source temperature of 60-70°

By: Cheng, Hansong; Han, Chaoqun; Zheng, Min; Zhang, Dapeng

World Intellectual Property Organization, WO2014082420 A1 2014-06-05 | Language: Chinese, Database: CAplus

PatentPak available Substances (331) Reactions (0) Citing (0)

168

Method of measuring concentrations of gas mixtures

By: Feng, Yinshan; Verma, Parmesh; Lombardo, Mary Teresa

World Intellectual Property Organization, WO2014065937 A1 2014-05-01 | Language: English, Database: CAplus

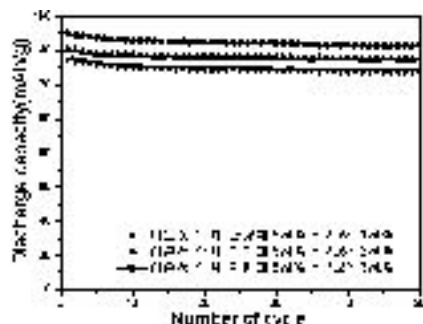
**PatentPak** available Substances (18) Reactions (0) Citing (0)

169

Production of **ionic liquid** polymer electrolyte composition comprising **ionic liquid** monomer, organic electrolyte, and cross-linking agent for lithium secondary battery with high charge-discharge cycles

By: Kim, Dong Won; Lee, Yun Seong

Korea, Republic of, KR2014046611 A 2014-04-21 | Language: Korean, Database: CAplus



PatentPak available

 Substances (53)

 Reactions (24)

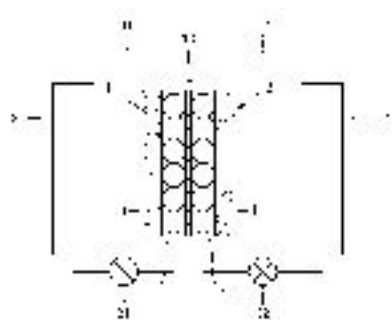
 Citing (0)

170

Organic electrolyte solution and redox flow battery including the same, using organophosphates

By: Oh, Duk-Jin; Mun, Jun-Young; Lee, Doo-Yeon; Kwon, Oh-Min; Kim, Young-Gyu; Kim, Hyung-Tae

United States, US20140099569 A1 2014-04-10 | Language: English, Database: CAplus



PatentPak available

 Substances (96)

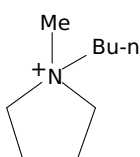
 Reactions (8)

 Citing (2)

171

Method and apparatus for electrochemical manufacture of ammonia from nitrogen gas and water

By: Masuda, Hideki; Matsumoto, Jun; Ogawa, Takahiko; Katayama, Akira; Shimazaki, Ryuji; Sato, Akinori
Japan, JP2014040336 A 2014-03-06 | Language: Japanese, Database: CAplus



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PatentPak available

Substances (24)

Reactions (3)

Citing (0)

172

Printable composition for an ionic gel separation layer for energy storage devices

By: Shotton, Neil O.; Ray, William Johnstone; Lockett, Vera Nicholaevna; Lowenthal, Mark D.; Kamins, Theodore I.
World Intellectual Property Organization, WO2014014758 A2 2014-01-23 | Language: English, Database: CAplus



PatentPak available

Substances (148)

Reactions (0)

Citing (0)

173

Method for depolymerizing middle/low-rank coal using ionic liquid-organic solvent cosolvent

By: Lei, Zhiping; Liu, Qiwen; Cheng, Lulu; Shui, Hengfu; Wang, Zhicai; Ren, Shibiao; Kang, Shigang
China, CN103525500 A 2014-01-22 | Language: Chinese, Database: CAplus

PatentPak available

Substances (14)

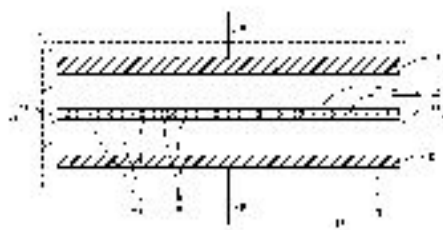
Reactions (0)

Citing (0)

174

Printable composition for an ionic gel separation layer for energy storage devices

By: Lockett, Vera Nicholaevna; Lowenthal, Mark David; Shotton, Neil O.; Ray, William Johnstone; Kamins, Theodore I.
United States, US20140017557 A1 2014-01-16 | Language: English, Database: CAplus



PatentPak available

Substances (148)

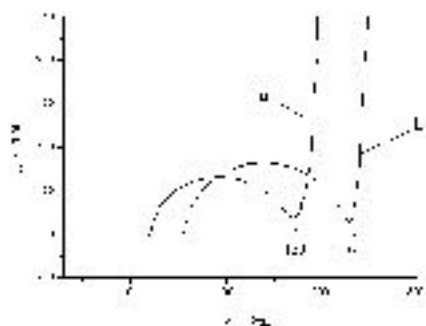
Reactions (0)

Citing (3)

175

Electrolyte solution for double layer capacitor and its preparation method

By: Zhou, Mingjie; Deng, Huiren; Wang, Yaobing
China, CN103426655 A 2013-12-04 | Language: Chinese, Database: CAplus



PatentPak available

Substances (7)

Reactions (0)

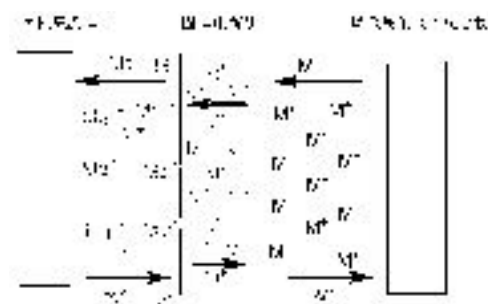
Citing (0)

176

Mg charge-discharge battery with high potential

By: Chang, Zheng; Yang, Yaqiong; Liu, Lili; Wu, Yuping

China, CN103413905 A 2013-11-27 | Language: Chinese, Database: CAplus



PatentPak available

 Substances (53)

 Reactions (0)

 Citing (0)

177

Elastomer composite with improved dielectric properties and production method thereof

By: Kim, Heesuk; Oh, Kiwon; Lim, Soon Ho; Lee, Sang-Soo; Kim, Tae Ann; Park, Min

United States, US20130310495 A1 2013-11-21 | Language: English, Database: CAplus

PatentPak available

 Substances (38)

 Reactions (0)

 Citing (0)

178

Method of separation of hemicellulose and cellulose from polysaccharide sources

By: Sixta, Herbert; Hummel, Michael; Iakovlev, Mikhail; Tolonen, Lasse

World Intellectual Property Organization, WO2013171364 A1 2013-11-21 | Language: English, Database: CAplus

PatentPak available

 Substances (20)

 Reactions (0)

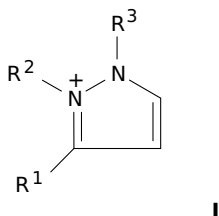
 Citing (2)

179

Ionic liquids, method for manufacturing thereof, and electrochemical devices comprising **ionic liquid** thereof

By: Braun, Max Josef; Fischer, Reiner

World Intellectual Property Organization, WO2013167586 A1 2013-11-14 | Language: English, Database: CAplus



PatentPak available

Substances (57)

Reactions (20)

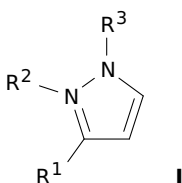
Citing (1)

180

Ionic liquids, method for manufacturing thereof, and electrochemical devices comprising **ionic liquid** thereof

By: Braun, Max Josef; Fischer, Reiner

European Patent Organization, EP2662359 A1 2013-11-13 | Language: English, Database: CAplus



PatentPak available

Substances (50)

Reactions (13)

Citing (0)

181

Morpholine **ionic liquid**/gel polymer electrolyte membrane and preparation method thereof

By: Zhou, Mingjie; Liu, Daxi; Wang, Yaobing

China, CN103390502 A 2013-11-13 | Language: Chinese, Database: CAplus



PatentPak available

Substances (19)

Reactions (9)

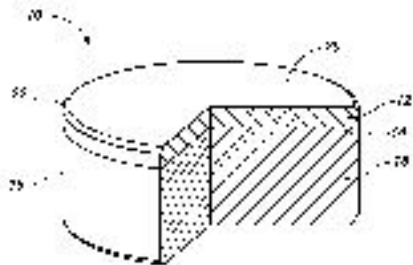
Citing (0)

182

Manufacture of cutting elements by electrolytic removal of metal catalysts from interstitial spaces in polycrystalline diamond

By: Mazyar, Oleg A.

United States, US20130291447 A1 2013-11-07 | Language: English, Database: CAplus



PatentPak available

 Substances (33)

 Reactions (0)

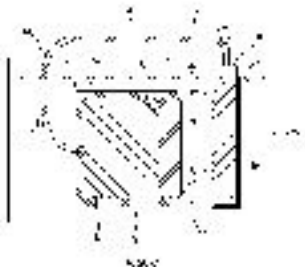
 Citing (2)

183

Manufacture of cutting elements by electrolytic removal of metal catalysts from interstitial spaces in polycrystalline diamond

By: Mazyar, Oleg A.

World Intellectual Property Organization, WO2013166398 A1 2013-11-07 | Language: English, Database: CAplus



PatentPak available

 Substances (33)

 Reactions (0)

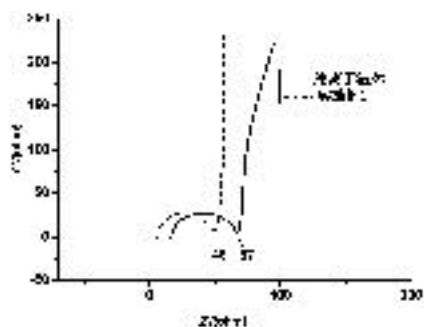
 Citing (0)

184

Double electric layer capacitor electrolyte

By: Zhou, Mingjie; Deng, Hui ren; Wang, Yaobing

China, CN103377834 A 2013-10-30 | Language: Chinese, Database: CPlus



PatentPak available

Substances (62)

Reactions (0)

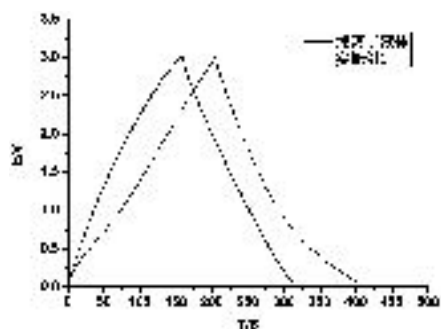
Citing (0)

185

Double-electric layer capacitor electrolyte

By: Zhou, Mingjie; Deng, Hui ren; Wang, Yaobing

China, CN103377836 A 2013-10-30 | Language: Chinese, Database: CPlus



PatentPak available

Substances (62)

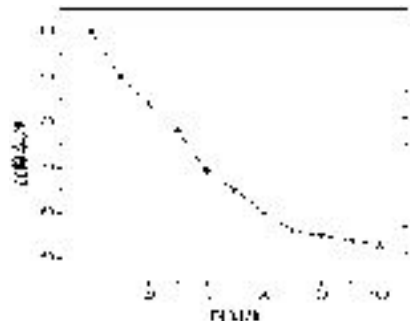
Reactions (0)

Citing (0)

186

ionic liquid used as magnetorheological fluid base solution, **ionic liquid**-based magnetorheological fluid and its preparation method

By: He, Guotian; Gu, Mingxin; Wang, Zhongxun; Chen, Xi; Zhu, Xiaoqiang; Xu, Zeyu; Lin, Yuanchang; Zhao, Jian; Liu, Yongfu
China, CN103305324 A 2013-09-18 | Language: Chinese, Database: CAplus



PatentPak available

Substances (39)

Reactions (0)

Citing (0)

187

Specialized granules for air filters in aircraft

By: Paul, Manfred; Sweredjuk, Robert; Pommersheim, Rainer
World Intellectual Property Organization, WO2013124168 A1 2013-08-29 | Language: German, Database: CAplus



PatentPak available

Substances (9)

Reactions (0)

Citing (1)

188

Specialized granules for air filters in aircraft

By: Paul, Manfred; Sweredjuk, Robert; Pommersheim, Rainer

Germany, DE102012202563 A1 2013-08-22 | Language: German, Database: CAplus



PatentPak available

 Substances (17)

 Reactions (0)

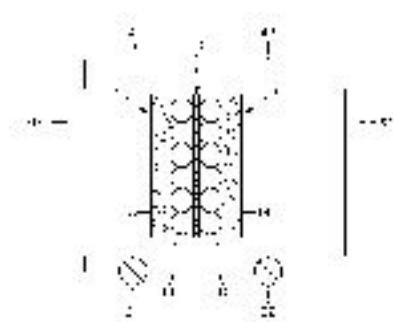
 Citing (3)

189

Organic electrolyte solution and redox flow battery including the same

By: Park, Joung-Won; Oh, Duk-Jin; Lee, Doo-Yeon; Lee, Myung-Jin

United States, US20130196206 A1 2013-08-01 | Language: English, Database: CAplus



PatentPak available

 Substances (91)

 Reactions (0)

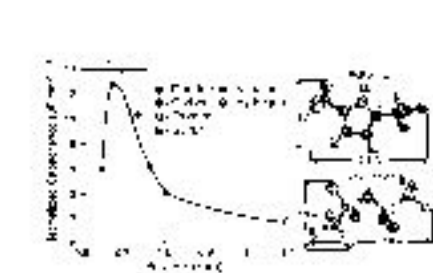
 Citing (2)

190

Supercapacitor compositions, devices and related methods

By: Gogotsi, Yury; Simon, Patrice; Largeot, Celine; Portet, Cristelle; Chmiola, John; Taberna, Pierre-Louis

United States, US8498097 B2 2013-07-30 | Language: English, Database: CAplus



PatentPak available

 Substances (45)

 Reactions (0)

 Citing (0)

191

Method for low-temperature quick synthesis of TiO₂/C electrode material

By: Hung, Jen-Yang; Chang, Min-Chao; Shao, Hsin; Liu, Pai-Yi; Chung, Lee-Ching; Huang, Meng-Shun; Liang, Te-Ming; Huang, Kuo-Hao; Chen, Chih-Chun; Hsu, Shu-Fang
China, CN103172146 A 2013-06-26 | Language: Chinese, Database: CAplus

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

192

Chemical and electrochemical synthesis and deposition of chalcogenides from **room temperature ionic liquids**

By: Stevenson, Keith J.; Murugesan, Sankaran; Keams, Patrick; Akkineni, Arunkumar
United States, US20130112110 A1 2013-05-09 | Language: English, Database: CAplus

PatentPak available Substances (46) Reactions (0) Citing (1)

193

Fluoropolymer blend and articles thereof

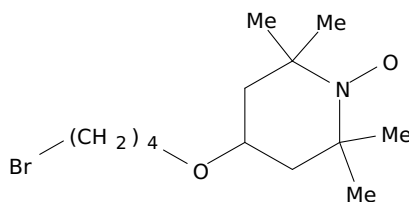
By: Fukushi, Tatsuo; Miyazawa, Haruhiko; Fujita, Jun; Toyota, Atsushi; Lamanna, William M.; Chou, Shih-Hung
United States, US20130109790 A1 2013-05-02 | Language: English, Database: CAplus

PatentPak available Substances (57) Reactions (0) Citing (0)

194

Electrode materials containing **ionic liquids** bearing radical groups for secondary batteries

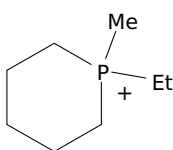
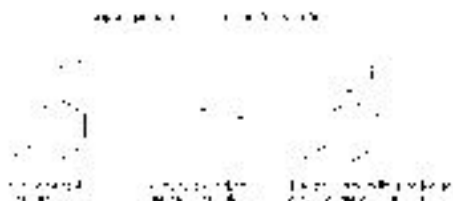
By: Kurihara, Hitoshi
Japan, JP2013073836 A 2013-04-22 | Language: Japanese, Database: CAplus

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

195

Phosphonium **ionic liquids**, salts, compositions, methods of making and devices formed there from

By: Rupert, Benjamin L.; Irwin, Levi J.; Beer, Leanne; Worlikar, Shilpa A.; Shi, Steven Z.
United States, US20130092866 A1 2013-04-18 | Language: English, Database: CAplus



PatentPak available

 Substances (39)

 Reactions (0)

 Citing (0)

196

A method for electrodepositing silver at low temperature by using **ionic liquid**

By: Ma, Meiyang
China, CN103046081 A 2013-04-17 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (15)

 Reactions (0)

 Citing (1)

197

Gas sensor

By: Chen, Lei; Yang, Zhiwei; Yamanis, Jean; Zafiris, Georgios S.; Sangiovanni, Joseph J.
World Intellectual Property Organization, WO2013052041 A1 2013-04-11 | Language: English, Database: CAplus



PatentPak available

 Substances (19)

 Reactions (0)

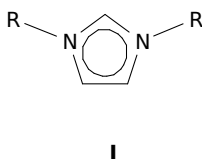
 Citing (0)

198

Method for concentration and measurement of ester component in natural essence with ionic liquid

By: Li, Ming; Li, Zaijun

China, CN103033583 A 2013-04-10 | Language: Chinese, Database: CAplus



PatentPak available

Substances (28)

Reactions (0)

Citing (0)

199

Lubricating grease compositions containing ureas and ionic liquids

By: Schmidt-Amelunxen, Martin; Grundei, Stefan; Kanno, Takao

Japan, JP2013060551 A 2013-04-04 | Language: Japanese, Database: CAplus

PatentPak available

Substances (42)

Reactions (0)

Citing (0)

200

Methods for quantitating water using ionic liquid salts

By: Armstrong, Daniel W.

United States, US20130074580 A1 2013-03-28 | Language: English, Database: CAplus



PatentPak available

Substances (64)

Reactions (0)

Citing (1)

201

Method for preparing magnetic microspheres having multistage pore structure and uniform and adjustable particle size

By: Lu, Yun; Qing, Xutang; Yue, Xiaoxiao

China, CN102974285 A 2013-03-20 | Language: Chinese, Database: CAplus

PatentPak available

Substances (65)

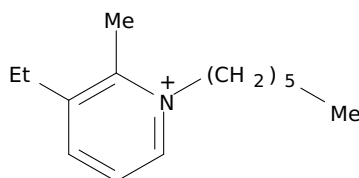
Reactions (0)

Citing (0)

202

Method for preparation of working medium pair for absorption thermal circulatory system with heat source temperature of 60-70°C

By: Cheng, Hansong; Han, Chaoqun; Zheng, Min; Zhang, Dapeng
 China, CN102965082 A 2013-03-13 | Language: Chinese, Database: CAplus



PatentPak available

Substances (331)

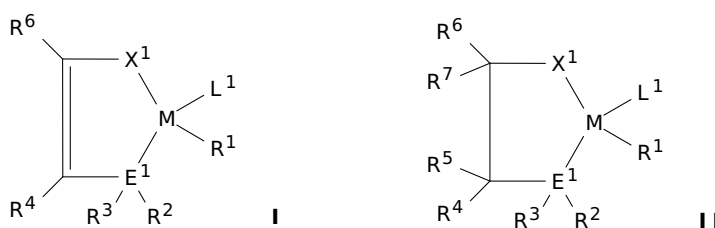
Reactions (0)

Citing (0)

203

Manufacture of α -olefin-(meth)acrylic acid ester copolymers in good yield under low-pressure conditions

By: Sato, Naomasa; Shimizu, Fumihiko; Tanna, Akio
 Japan, JP2013043979 A 2013-03-04 | Language: Japanese, Database: CAplus



PatentPak available

Substances (39)

Reactions (4)

Citing (0)

204

Immobilized Lewis acid catalyst covered in ionic liquid

By: Kobayashi, Osamu; Mori, Yuichiro; Gu, Yanlong
 Japan, JP5142178 B2 2013-02-13 | Language: Japanese, Database: CAplus

PatentPak available

Substances (29)

Reactions (3)

Citing (0)

205

Electric light-controlling element for IR transmittance control of VO₂-based material

By: Nakano, Masaki; Hatano, Keishi; Ono, Shinpei; Iwasa, Yoshihiro; Shibuya, Keisuke; Kawasaki, Masashi; Tokura, Yoshinori
Japan, JP2013028473 A 2013-02-07 | Language: Japanese, Database: CAplus



PatentPak available

 Substances (141)

 Reactions (0)

 Citing (0)

206

Method for preparing ester in the presence of biological catalyst and chemical catalyst

By: Xiong, Jian; Zhang, Hua; Huang, Yajuan; Hou, Liyun
China, CN102899366 A 2013-01-30 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (52)

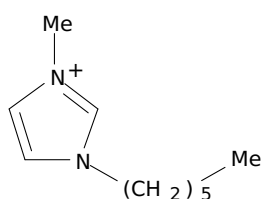
 Reactions (12)

 Citing (0)

207

Hair dyeing method by an ionic-liquid-based treatment

By: Plos, Gregory
France, FR2978038 A1 2013-01-25 | Language: French, Database: CAplus



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PatentPak available

 Substances (55)

 Reactions (0)

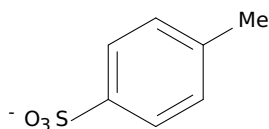
 Citing (6)

208

Ionic liquid catalyst and method for preparing fatty acid

By: Wei, Haibin; Wu, Feng

China, CN102872911 A 2013-01-16 | Language: Chinese, Database: CPlus

**PatentPak** available

Substances (8)

Reactions (0)

Citing (1)

209

Ionic-liquid nanoscale **ionic** material (IL-NIM) compositions, methods and applications

By: Archer, Lynden A.; Moganty, Surya S.; Lu, Yingying

World Intellectual Property Organization, WO2013009731 A2 2013-01-17 | Language: English, Database: CPlus

PatentPak available

Substances (46)

Reactions (0)

Citing (1)

210

Ionic liquid co-solvent effect for enhancement of enzymic preparation of isoquercitrin

By: Wang, Jun; Wu, Fuan; Sun, Guoxia

China, CN102876746 A 2013-01-16 | Language: Chinese, Database: CPlus

PatentPak available

Substances (25)

Reaction (1)

Citing (0)

211

Synthesis of hetero **ionic** compounds using dialkylcarbonate quaternization and use thereof as additives in electrochemical cells

By: Friesen, Cody A.; Wolfe, Derek; Johnson, Paul Bryan

World Intellectual Property Organization, WO2012174564 A1 2012-12-20 | Language: English, Database: CPlus

PatentPak available

Substances (91)

Reactions (20)

Citing (0)

212

Steam jet refrigeration apparatus using an ionic liquid as propellant for the evaporation of a refrigerant

By: Danov, Vladimir; Gromoll, Bernd

Germany, DE102011077079 A1 2012-12-13 | Language: German, Database: CPlus



PatentPak available

Substances (14)

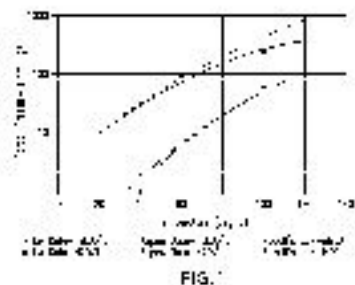
Reactions (0)

Citing (3)

213

Compositions and methods for gas capture processes

By: Stites, Ronald C.; Hohman, Jerrod; Carlisle, Trevor; Lafrate, Andrew L.; Bara, Jason E.; Staab, Gregory Allan; Huffman, Michael C.
World Intellectual Property Organization, WO2012158609 A1 2012-11-22 | Language: English, Database: CPlus



PatentPak available

Substances (41)

Reactions (14)

Citing (2)

214

Electrolyte additive of quaternary ammonium salt ionic liquid, electrolyte and solar cell

By: Weng, Tao; Zhang, Hong; Ma, Tingli

China, CN102789902 A 2012-11-21 | Language: Chinese, Database: CPlus

PatentPak available

Substances (27)

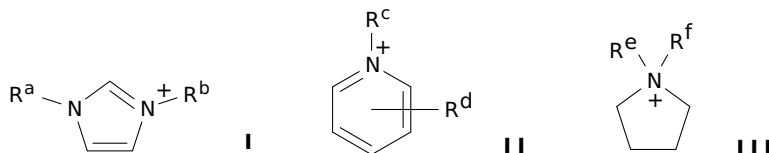
Reactions (0)

Citing (0)

215

Refrigerating machine oil composition and method for improving extreme-pressure antiwear property of refrigerating machine oil

By: Chen, Yonghua; Chen, Xiaowei; Yan, Huan; Liang, Yuxiang
China, CN102746927 A 2012-10-24 | Language: Chinese, Database: CAplus



PatentPak available

Substances (15)

Reactions (0)

Citing (0)

216

Method for ultra-deep desulfurization of fuel oil with Bronsted acidic ionic liquid

By: Li, Can; Zhang, Boyu; Jiang, Zongxuan; Liu, Yan
China, CN102732287 A 2012-10-17 | Language: Chinese, Database: CAplus

PatentPak available

Substances (26)

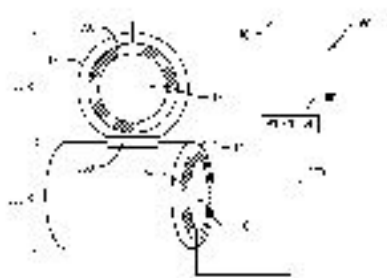
Reactions (0)

Citing (0)

217

Stretchable devices and methods of manufacture and use thereof

By: Sotzing, Gregory A.; Ding, Yujie
United States, US20120224247 A1 2012-09-06 | Language: English, Database: CAplus



PatentPak available

Substances (24)

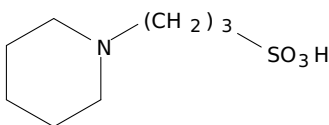
Reactions (0)

Citing (2)

218

Method for synthesizing trioxane

By: Bai, Zhenmin; Hu, Yufeng; Chen, Buning; Cao, Bin; Zhang, Xianru; Jin, Chuanwei; Zhang, Jinzhu; Wang, Zhixin
China, CN102643264 A 2012-08-22 | Language: Chinese, Database: CAplus



PatentPak available

Substances (53)

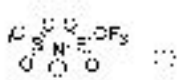
Reactions (0)

Citing (0)

219

Manufacture of electrically conducting polymers, and solid electrolytic capacitors and their manufacture

By: Waki, Akiko; Tateishi, Kazuyuki; Oishi, Takahiro
Japan, JP2012092177 A 2012-05-17 | Language: Japanese, Database: CAplus



PatentPak available

Substances (9)

Reactions (0)

Citing (0)

220

Method and apparatus for recovery of iron-group elements and rare earth metals by electrolytic precipitation from ionic liquids

By: Matsumiya, Masahiko; Tsunashima, Katsuhiko
Japan, JP2012087329 A 2012-05-10 | Language: Japanese, Database: CAplus



PatentPak available

Substances (25)

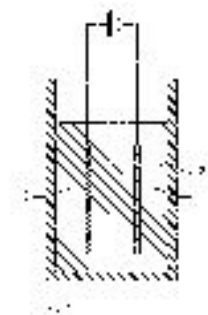
Reactions (0)

Citing (2)

221

Procedure for the electrochemical hydrogen passivation of semiconductor layers

By: Stenner, Patrik; Wieber, Stephan; Coelle, Michael; Patz, Matthias; Carius, Reinhard; Bronger, Torsten
World Intellectual Property Organization, WO2012055693 A1 2012-05-03 | Language: German, Database: CAplus



PatentPak available

 Substances (18)

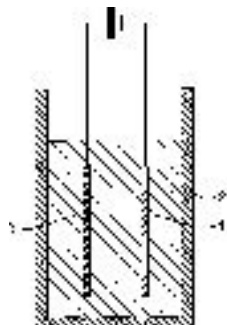
 Reactions (0)

 Citing (0)

222

Procedure for the electrochemical hydrogen passivation of semiconductor layers

By: Stenner, Patrick; Wieber, Stephan; Coelle, Michael; Patz, Matthias; Carius, Reinhard; Bronger, Torsten
Germany, DE102010049587 A1 2012-04-26 | Language: German, Database: CAplus



PatentPak available

 Substances (18)

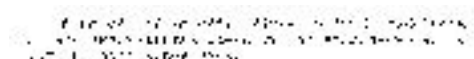
 Reactions (0)

 Citing (0)

223

Ionic liquid solvent and gas purification method using the same

By: Zhang, Xiangping; Zhao, Yansong; Zeng, Shaojuan; Zhang, Suojiang; Dong, Haifeng; Zhen, Yingpeng; Huang, Lei
World Intellectual Property Organization, WO2012037736 A1 2012-03-29 | Language: Chinese, Database: CAplus



PatentPak available

 Substances (62)

 Reactions (5)

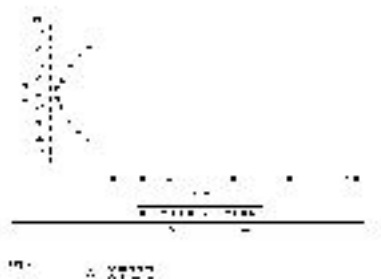
 Citing (1)

224

Hydrogenation of aromatic compounds to cycloolefins in presence of transition metal, ionic liquid and water

By: Claus, Peter; Lucas, Martin; Schwab, Frederick

World Intellectual Property Organization, WO2012038467 A2 2012-03-29 | Language: German, Database: CAplus



PatentPak available

Substances (28)

Reactions (2)

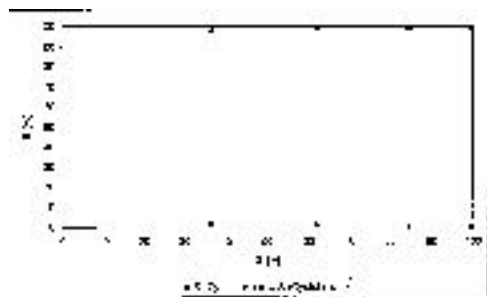
Citing (0)

225

Hydrogenation of aromatic compounds to cycloolefins in presence of transition metal, ionic liquid and water

By: Claus, Peter; Lucas, Martin; Schwab, Frederick

Germany, DE102010045840 A1 2012-03-22 | Language: German, Database: CAplus



PatentPak available

Substances (28)

Reactions (2)

Citing (0)

226

Fuel cell control apparatus and fuel cell system

By: Miwa, Hiromichi

Japan, JP4892875 B2 2012-03-07 | Language: Japanese, Database: CAplus

PatentPak available

Substances (8)

Reactions (0)

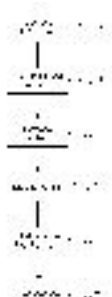
Citing (0)

227

Catalytic reactions using ionic liquids

By: Corradini, Andrew; Mccomick, Jarod

United States, US20120029245 A1 2012-02-02 | Language: English, Database: CAplus



PatentPak available

Substances (20)

Reactions (0)

Citing (1)

228

Composition comprising fluoropolymer and ionic liquid

By: Fukushi, Tatsuo; Miyazawa, Haruhiko; Fujita, Jun; Toyota, Atsushi; Lamanna, William M.; Chou, Shih-Hung

World Intellectual Property Organization, WO2012006487 A2 2012-01-12 | Language: English, Database: CAplus



PatentPak available

Substances (57)

Reactions (0)

Citing (3)

229

Method for synthesizing polyoxymethylene dimethyl ethers utilizing **ionic liquid** catalyst in circulating tubular reactor

By: Chen, Jing; Song, Heyuan; Xia, Chungu; Li, Zhen

United States, US20110288343 A1 2011-11-24 | Language: English, Database: CAplus



PatentPak available

 Substances (11)

 Reaction (1)

 Citing (1)

230

Porous cellulose particles and their manufacture by using **ionic liquids**

By: Suzuki, Yasuyuki; Hirano, Masaru; Kanda, Akihisa

Japan, JP2011214003 A 2011-10-27 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (41)

 Reactions (0)

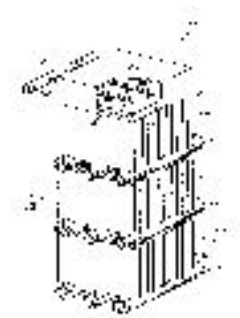
 Citing (1)

231

Liquid sorbent, method of using a **liquid** sorbent, and device for sorbing a gas

By: Dinnage, Paul; Kalb, Roland

United States, US20110247494 A1 2011-10-13 | Language: English, Database: CAplus



PatentPak available

 Substances (214)

 Reactions (0)

 Citing (7)

232

Method for electrodeposition of Zn, Ni, Mo and their alloy in ionic liquid

By: Zhang, Suojiang; Zuo, Yong; Zhang, Jianmin; Zheng, Yong; Ma, Meiyang
China, CN102191517 A 2011-09-21 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (58) Reactions (0) Citing (2)

233

Thermobacteria in a base of ionic liquids and its use for the production of electricity

By: Dupont, Jairton; Goncalves, Reinaldo Simoes; Consorti, Crestina Susi; Reis, Luiz Fernando Magalhaes
Brazil, BR2009004308 A2 2011-06-28 | Language: Portuguese, Database: CAplus

PatentPak available

 Substances (50) Reactions (0) Citing (0)

234

Method and apparatus for electric recovery of platinum group elements and/or rare earth metals using ionic liquids

By: Matsumiya, Masahiko; Tsunashima, Katsuhiko
Japan, JP2011122242 A 2011-06-23 | Language: Japanese, Database: CAplus



PatentPak available

 Substances (21) Reactions (4) Citing (2)

235

Antimicrobial system

By: Earle, Martyn; Seddon, Ken; Gilea, Manuela; Boberly, Gabor; Gilmore, Brendan; Gorman, Sean; Mclaughlin, Martin
United States, US20110144079 A1 2011-06-16 | Language: English, Database: CAplus

PatentPak available

 Substances (115) Reactions (0) Citing (1)

236

Ionic liquid composite extractant for separating asphaltene, preasphaltene and/or heavy oil from coal direct liquefaction residues

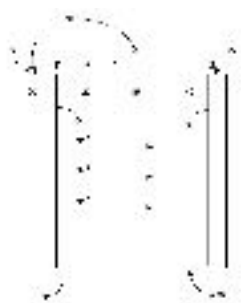
By: Lai, Shiyao; Chen, Xuelian; Sheng, Ying; Zhang, Xiangping; Dong, Haifeng
China, CN102041014 A 2011-05-04 | Language: Chinese, Database: CAplus

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

237

Solid-state sodium-based secondary cell having a sodium ion conductive ceramic separator

By: Boxley, Chett; Coors, W. Grover; Watkins, John Joseph
United States, US20110104526 A1 2011-05-05 | Language: English, Database: CAplus

**PatentPak** available Substances (35) Reactions (0) Citing (0)

238

Laminated structures, their manufacture, optical materials, and formation of coating films

By: Ito, Kiyoshi
Japan, JP2011072878 A 2011-04-14 | Language: Japanese, Database: CAplus

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

239

Improved method for synthesizing 3-methylpyridine in **ionic liquid**

By: Zhang, Qian; Li, Haoran; Jiang, Shunqi; Liu, Lifei
China, CN101979380 A 2011-02-23 | Language: Chinese, Database: CAplus

PatentPak available Substances (24) Reaction (1) Citing (0)

240

Catalyst for esterification of rosin or its derivative, and application thereof

By: Xu, Sheyang; Xiao, Shuntong; Zeng, Weibo; Zhang, Zhenge; Fan, Deming
China, CN101979143 A 2011-02-23 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (56)

 Reactions (0)

 Citing (0)

241

Compositions comprising iodotrifluoromethane and stabilizers

By: Leck, Thomas J.
United States, US20110037017 A1 2011-02-17 | Language: English, Database: CAplus

PatentPak available

 Substances (360)

 Reactions (0)

 Citing (0)

242

Method for synthesizing poly(methoxy dimethylether) with germinal dicationic ionic liquid

By: Chen, Jing; Tang, Zhonghua; Xia, Chungu; Song, Heyuan; Li, Zhen
China, CN101962318 A 2011-02-02 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (20)

 Reactions (0)

 Citing (1)

243

Method for synthesis of titanium dioxide nanotubes using ionic liquids

By: Qu, Jun; Luo, Huimin; Dai, Sheng
United States, US20100311615 A1 2010-12-09 | Language: English, Database: CAplus

PatentPak available

 Substances (11)

 Reactions (0)

 Citing (0)

244

Ionic liquid lubricant for an internal combustion engine

By: Schluecker, Eberhard; Pohrer, Benjamin; Predel, Tim
Germany, DE102009015889 A1 2010-10-07 | Language: German, Database: CAplus

PatentPak available

 Substances (4)

 Reactions (0)

 Citing (1)

245

Ionic liquid lubricant for an internal combustion engine

By: Schluecker, Eberhardt; Pohrer, Benjamin; Predel, Tim

World Intellectual Property Organization, WO2010112233 A1 2010-10-07 | Language: German, Database: CAplus

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

246

removal method of aromatics from heavy oil fraction

By: Torii, Hidenori; Imanishi, Yui; Tanaka, Ryuzo; Umebayashi, Yasuhiro

Japan, JP2010222497 A 2010-10-07 | Language: Japanese, Database: CAplus

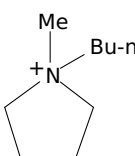
PatentPak available Substances (9) Reactions (0) Citing (0)

247

Desulfurization and denitrogenation method for hydrocarbon oils

By: Torii, Hidenori; Imanishi, Yui; Tanaka, Ryuzo; Umebayashi, Yasuhiro

Japan, JP2010215737 A 2010-09-30 | Language: Japanese, Database: CAplus

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

248

Catalytic reactions using **ionic liquids**

By: Corradini, Andrew; McCormick, Jarod

World Intellectual Property Organization, WO2010107929 A2 2010-09-23 | Language: English, Database: CAplus

PatentPak available Substances (20) Reactions (0) Citing (3)

249

Electrically controllable device with uniform coloration/discoloration over the entire surface thereof for electrochromic devices

By: Piroux, Fabienne; Valentin, Emmanuel; Dubrenat, Samuel; Bokobza, Gilles

World Intellectual Property Organization, WO2010100147 A1 2010-09-10 | Language: French, Database: CAplus

PatentPak available Substances (58) Reactions (0) Citing (0)

250

Electrically controllable device with uniform coloration/discoloration over the entire surface thereof for electrochromic devices

By: Piroux, Fabienne; Valentin, Emmanuel; Dubrenat, Samuel; Bokobza, Gilles
France, FR2942665 A1 2010-09-03 | Language: French, Database: CAplus

PatentPak available

 Substances (59)

 Reactions (0)

 Citing (0)

251

Sample separation apparatus using microchip and sample separation method

By: Han, Jong Hun; Lee, Myeong
Korea, Republic of, KR2010077991 A 2010-07-08 | Language: Korean, Database: CAplus

PatentPak available

 Substances (19)

 Reactions (0)

 Citing (0)

252

Electrically controllable device with controlled thickness of the electroactive medium and simplified manufacturing, and method for making same

By: Piroux, Fabienne; Bokobza, Gilles
France, FR2939526 A1 2010-06-11 | Language: French, Database: CAplus

PatentPak available

 Substances (56)

 Reactions (0)

 Citing (0)

253

Electrically controllable device having an improved routing of electrical charges from the electroactive medium

By: Piroux, Fabienne; Bokobza, Gilles; Giret, Martine
France, FR2939527 A1 2010-06-11 | Language: French, Database: CAplus

PatentPak available

 Substances (56)

 Reactions (0)

 Citing (0)

254

Electrically controllable device with controlled thickness of the electroactive medium and simplified manufacturing, and method for making same

By: Piroux, Fabienne; Bokobza, Gilles
World Intellectual Property Organization, WO2010063729 A1 2010-06-10 | Language: French, Database: CAplus

PatentPak available

 Substances (56)

 Reactions (0)

 Citing (0)

255

Electrically controllable device having an improved routing of electrical charges from the electroactive medium

By: Piroux, Fabienne; Bokobza, Gilles; Giret, Martine

World Intellectual Property Organization, WO2010063731 A1 2010-06-10 | Language: French, Database: CAplus

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

256

Method for manufacturing an electrode

By: Bressers, Petrus Marinus Martinus Cornelus; Koetse, Marinus Marc; Van Mol, Antonius Maria Bernardus; Van Erkel, Joost

United States, US20100133520 A1 2010-06-03 | Language: English, Database: CAplus

PatentPak available Substances (33) Reactions (0) Citing (1)

257

Liquid plastic additive mixtures and the preparation methods therefor and applications

By: Tang, Yanfang

China, CN101709116 A 2010-05-19 | Language: Chinese, Database: CAplus

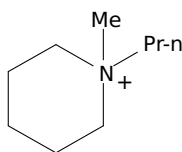
 Substances (13) Reactions (0) Citing (0)

258

Ionic liquid-containing electrolyte for secondary lithium batteries

By: Giroud, Nelly; Rouault, Helene

World Intellectual Property Organization, WO2010023185 A1 2010-03-04 | Language: French, Database: CAplus

**PatentPak** available Substances (57) Reactions (0) Citing (5)

259

Ionic liquid-containing electrolyte for secondary lithium batteries

By: Giroud, Nelly; Rouault, Helene

France, FR2935547 A1 2010-03-05 | Language: French, Database: CAplus

PatentPak available Substances (57) Reactions (0) Citing (0)

260

Use of a sugar-based ionic liquid in the hair preparations

By: Mathonneau, Estelle

France, FR2935266 A1 2010-03-05 | Language: French, Database: CAplus

PatentPak available

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

261

Electrically peelable adhesive acrylic polymer compositions, their articles, and peeling method of them

By: Aoki, Takahiro; Chino, Keisuke

Japan, JP2010037355 A 2010-02-18 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (24) Reactions (0) Citing (11)

262

Metal sulfide electrolysis in inert gas or air to decompose the metal sulfide into metal and sulfur

By: Jin, Xianbo; Chen, Zheng

China, CN101597776 A 2009-12-09 | Language: Chinese, Database: CAplus

PatentPak available

 Substances (68) Reactions (0) Citing (0)

263

Electrolyte mixtures useful for lithium ion batteries

By: Shin, Joon Ho; Cairns, Elton J.

United States, US20090286163 A1 2009-11-19 | Language: English, Database: CAplus

PatentPak available

 Substances (39) Reactions (0) Citing (2)

264

Lithium ion batteries showing excellent heat resistance and low internal resistivity and their separators containing ionic liquids

By: Orita, Akihiro

Japan, JP2009259755 A 2009-11-05 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (35) Reaction (1) Citing (3)

265

Method for recycling **ionic liquid** using ultrashort waves

By: Ku, Yun Mo; Ha, Seong Ho; Lee, Sang Hyeon

Korea, Republic of, KR2009110599 A 2009-10-22 | Language: Korean, Database: CAplus

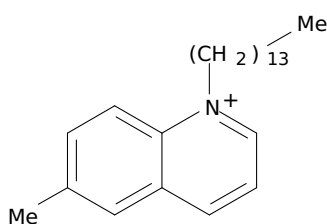
PatentPak available Substances (13) Reactions (0) Citing (0)

266

Antimicrobial systems comprising **ionic liquids**

By: Earle, Martyn; Seddon, Ken; Gilea, Manuela; Boberly, Gabor; Gilmore, Brendan; McLaughlin, Martin

World Intellectual Property Organization, WO2009125222 A2 2009-10-15 | Language: English, Database: CAplus

• Br⁻**PatentPak** available Substances (115) Reactions (0) Citing (2)

267

Supercapacitor compositions, devices, and related methods

By: Gogotsi, Yury; Simon, Patrice; Largeot, Celine; Portet, Cristelle; Chmiola, John; Taberna, Pierre-Louis

World Intellectual Property Organization, WO2009123784 A2 2009-10-08 | Language: English, Database: CAplus

PatentPak available Substances (45) Reactions (0) Citing (3)

268

Method for the preparation of supported catalyst using noble metal nanoparticles and catalyst so obtained

By: Dupont, Jairton; Chiaro, Sandra Shirley Ximeno; Geleysky, Marcos Alexandre; Pavan, Flavio Andre; Zimnoch Dos Santos, Joao Henrique

World Intellectual Property Organization, WO2009122149 A1 2009-10-08 | Language: English, Database: CAplus

PatentPak available Substances (23) Reactions (0) Citing (2)

269

New hybrid materials consisting of solid or **liquid** substrate with tin ultra pure **ionic liquid** film

By: Cremer, Till; Maier, Florian; Steinrueck, Hans-Peter; Wasserscheid, Peter
Germany, DE102008015015 A1 2009-09-24 | Language: German, Database: CAplus

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

270

Enzymic preparation of the cinnamic acid derivative in **ionic liquid**

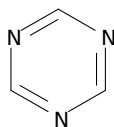
By: Kishimoto, Noriaki; Hirota, Yoshitaka; Matsui, Yuka; Tanaka, Erika; Kitamura, Tomonori; Yamazaki, Kenichi; Kagawa, Yasuko; Fujita, Tokio; Fukunaga, Taiji; Iwai, Kazuya; et al
Japan, JP2009207492 A 2009-09-17 | Language: Japanese, Database: CAplus

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

271

New detergents for the acid gas cleaning and procedure for their use

By: Wasserscheid, Peter; Arlt, Wolfgang; Mokrushina, Liudmila
Germany, DE102008013738 A1 2009-09-10 | Language: German, Database: CAplus



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PatentPak available Substances (26) Reactions (0) Citing (7)

272

Aluminum recovery process using electrolytic cells with electrolyte containing **ionic liquid**

By: Reddy, Ramana G.; Zhang, Mingming
World Intellectual Property Organization, WO2009102419 A2 2009-08-20 | Language: English, Database: CAplus

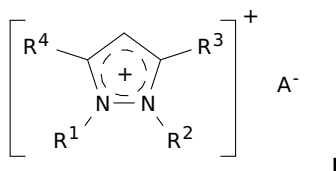
PatentPak available Substances (67) Reactions (0) Citing (0)

273

Electrolyte solutions with improved stability and electroconductivity and lithium ion secondary batteries

By: Chiba, Kazumi; Nukui, Hideki

Japan, JP2009170279 A 2009-07-30 | Language: Japanese, Database: CAplus

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

274

Heat pipe apparatus using aqueous solution of ionic liquid as operating fluid

By: Inoue, Seiji; Ohara, Kimikazu; Sakakibara, Nobuyoshi; Hagiwara, Rika; Nakada, Yoshito

Japan, JP2009145038 A 2009-07-02 | Language: Japanese, Database: CAplus

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

275

Method for recycling ionic liquid by ultrasonic atomization

By: Ku, Yun Mo; Ha, Seong Ho; Lee, Sang Hyeon; Ma, I Ran

Korea, Republic of, KR2009064907 A 2009-06-22 | Language: Korean, Database: CAplus

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

276

Method for preparing a deposition from a vapor

By: Bressers, Petrus Marinus Martinus Cornelus; Roelands, Cornelis Petrus Marcus; Blokland, Huibert; Velthuis, Johannes Fransiscus Maria

World Intellectual Property Organization, WO2009058006 A1 2009-05-07 | Language: English, Database: CAplus

PatentPak available Substances (29) Reactions (0) Citing (0)

277

Electrophotographic carriers with good durability, developers containing them, and method and apparatus for electrophotography using them

By: Yagi, Shinichiro; Kondo, Tomio; Suzuki, Kosuke; Nagayama, Masashi
Japan, JP2009093053 A 2009-04-30 | Language: Japanese, Database: CAplus

PatentPak available

 Substances (12)

 Reactions (0)

 Citing (0)

278

Processes for separation of gases using ionic liquids

By: Van Erkel, Joost; Bressers, Petrus Marinus Martinus Cornelus; Creusen, Raymond Johannes Maria
World Intellectual Property Organization, WO2009011577 A1 2009-01-22 | Language: English, Database: CAplus

PatentPak available

 Substances (41)

 Reactions (0)

 Citing (0)

279

Processes for separation of gases using ionic liquids

By: Van Erkel, Joost; Bressers, Petrus Marinus Martinus Cornelus; Creusen, Raymond Johannes Maria
European Patent Organization, EP2016991 A1 2009-01-21 | Language: English, Database: CAplus

PatentPak available

 Substances (41)

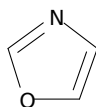
 Reactions (0)

 Citing (1)

280

ionic liquids as heat stabilizers and antioxidants for lubricating oils

By: Bodesheim, Guenther; Schmidt-Amelunxen, Martin; Sohn, Dieter; Grundei, Stefan
World Intellectual Property Organization, WO2008154998 A1 2008-12-24 | Language: German, Database: CAplus



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PatentPak available

 Substances (53)

 Reactions (0)

 Citing (7)

281

ionic liquids as heat stabilizers and antioxidants for lubricating oils

By: Bodesheim, Guenther; Schmidt-Amelunxen, Martin; Sohn, Dieter; Grundei, Stefan; Hoepke, Andrea
Germany, DE102007028427 A1 2008-12-24 | Language: German, Database: CAplus

PatentPak available Substances (53) Reactions (0) Citing (6)

282

Methods and apparatus for the storage of acetylene in the absence of acetone or dimethylformamide

By: Agrawal, Rajat
United States, US20080264803 A1 2008-10-30 | Language: English, Database: CAplus

PatentPak available Substances (12) Reactions (0) Citing (2)

283

Method for manufacturing an electrode on an organic compound

By: Bressers, Petrus Marinus Martinus Cornelus; Koetse, Marinus Marc; Van Mol, Antonius Maria Bernardus; Van Erkel, Joost
World Intellectual Property Organization, WO2008127111 A1 2008-10-23 | Language: English, Database: CAplus

PatentPak available Substances (33) Reactions (0) Citing (1)

284

Electrodeposition method for manufacturing an electrode for organic compound devices

By: Bressers, Petrus Marinus Martinus Cornelus; Koetse, Marinus Marc; Van Mol, Antonius Maria Bernardus; Van Erkel, Joost
European Patent Organization, EP1983592 A1 2008-10-22 | Language: English, Database: CAplus

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

285

Electrochemical sensor

By: Varney, Mark; Garrett, Michael; Williams, Deryk; Marken, Francis
World Intellectual Property Organization, WO2008110830 A1 2008-09-18 | Language: English, Database: CAplus

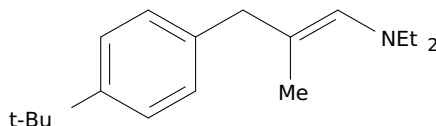
PatentPak available Substances (16) Reactions (0) Citing (11)

286

Process of asymmetric hydrogenation of an enamine, device for the implementation of the process and the chiral amine obtained

By: Kalck, Philippe; Urrutigoiety, Martine; Bachelier, Alice; Preti, Michel; Riviere, Philippe

World Intellectual Property Organization, WO2008096075 A2 2008-08-14 | Language: French, Database: CAPlus



PatentPak available

Substances (49)

Reactions (4)

Citing (1)

287

Method for processing wood/hemp composite fiber by dissolving in ionic liquid

By: He, Chunju; Wang, Qingrui; Chen, Xueying; Sun, Junfen

China, CN101235549 A 2008-08-06 | Language: Chinese, Database: CAPlus

Substances (11)

Reactions (0)

Citing (0)

288

Method for producing glucose by enzymic hydrolysis of cellulose that can be pretreated with an ionic liquid containing a polyatomic anion

By: Balensiefer, Tim; Brodersen, Julia; D'Andola, Giovanni; Massonne, Klemens; Freyer, Stephan; Stegmann, Veit

World Intellectual Property Organization, WO2008090155 A1 2008-07-31 | Language: German, Database: CAPlus

PatentPak available

Substances (33)

Reactions (0)

Citing (13)

289

Method for producing glucose by enzymatic hydrolysis of cellulose that is obtained from material containing ligno-cellulose using an ionic liquid that comprises a polyatomic anion

By: Balensiefer, Tim

World Intellectual Property Organization, WO2008090156 A1 2008-07-31 | Language: German, Database: CAPlus

PatentPak available

Substances (46)

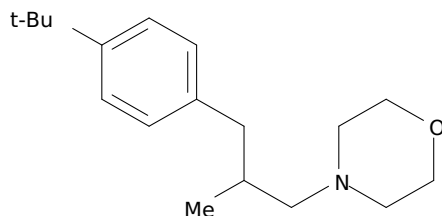
Reactions (0)

Citing (10)

290

Process of asymmetric hydrogenation of an enamine, device for the implementation of the process and the chiral amine obtained

By: Kalck, Philippe; Urrutigoity, Martine; Bachelier, Alice; Preti, Michel; Riviere, Philippe
France, FR2910471 A1 2008-06-27 | Language: French, Database: CAplus



PatentPak available

Substances (40)

Reactions (4)

Citing (0)

291

Magnetic fluids containing **ionic liquids** and no stabilizers or only selected stabilizers and their use

By: Guerrero, Sanchez Carlos; Rasa, Mircea; Schubert, Ulrich S.
World Intellectual Property Organization, WO2008055645 A2 2008-05-15 | Language: English, Database: CAplus

PatentPak available

Substances (49)

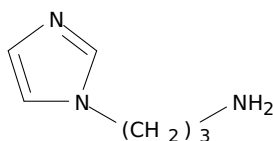
Reactions (0)

Citing (2)

292

Preparation of halogenated hydrocarbons by reacting olefins in **ionic liquid** in presence of halocarbons

By: Wiesenhoefer, Wolfgang; Uenveren, Ercan; Eichholz, Kerstin; Eicher, Johannes
World Intellectual Property Organization, WO2008043720 A2 2008-04-17 | Language: English, Database: CAplus



PatentPak available

Substances (33)

Reaction (1)

Citing (0)

293

Low-friction sliding mechanism such as an automobile transmission

By: Nanbu, Toshikazu; Yasuda, Yoshiteru; Ueno, Takafumi; Sakane, Tokio; Takekawa, Toshihiro
European Patent Organization, EP1903229 A2 2008-03-26 | Language: English, Database: CAplus

PatentPak available

Substances (9)

Reactions (0)

Citing (4)

294

Fluid storage and purification method and system

By: Wyse, Carrie L.; Millward, Andrew; Noble, Richard D.; Barra, Jason; Torres, Robert; Gin, Douglas
World Intellectual Property Organization, WO2008005906 A2 2008-01-10 | Language: English, Database: CAplus

PatentPak available

 Substances (90) Reactions (0) Citing (0)

295

Method for preparing highly stable supersaturated solution of hydrophilic substances in ionic liquids

By: Ku, Yun Mo; Lee, Sang Hyeon; Ha, Seong Ho; Yong, Tan Dang
Korea, Republic of, KR791848 B1 2008-01-07 | Language: Korean, Database: CAplus

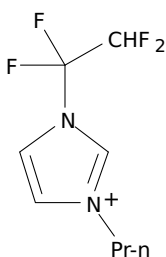
PatentPak available

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

296

Vapor compression utilizing ionic liquid as compressor lubricant

By: Shiflett, Mark Brandon; Yokozeki, Akimichi
World Intellectual Property Organization, WO2007143051 A2 2007-12-13 | Language: English, Database: CAplus

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PatentPak available

 Substances (278) Reactions (0) Citing (3)

297

Battery with nonaqueous electrolyte

By: Kishi, Takashi; Kuboki, Takashi; Mikoshiba, Satoshi
United States, US20070281209 A1 2007-12-06 | Language: English, Database: CAplus

PatentPak available

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

298

Electrochemical element for use at high temperatures

By: Best, Adam Samuel; Landheer, Hiske; Ooms, Franciscus Guntherus Bernardus
United States, US20070254213 A1 2007-11-01 | Language: English, Database: CAplus

PatentPak available

 Substances (41)

 Reactions (0)

 Citing (1)

299

Solid-in-hollow polymer fiber electrochemical devices

By: Lu, Wen; Smela, Elisabeth; Adams, Phillip N.; Zuccarello, Guido; Mattes, Benjamin R.
United States, US7288871 B1 2007-10-30 | Language: English, Database: CAplus

PatentPak available

 Substances (11)

 Reactions (0)

 Citing (0)

300

Wick systems for complexed gas technology

By: McDermott, Wayne Thomas; Tempel, Daniel Joseph; Henderson, Philip Bruce; Pearlstein, Ronald Martin
United States, US20070217967 A1 2007-09-20 | Language: English, Database: CAplus

PatentPak available

 Substances (58)

 Reactions (0)

 Citing (2)

301

Sample analysis method with microchip

By: Han, Jong Hun; Huang, Ying; Li, Ming
Korea, Republic of, KR2007078925 A 2007-08-03 | Language: Korean, Database: CAplus

PatentPak available

 Substances (5)

 Reactions (0)

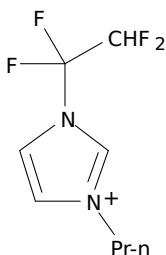
 Citing (0)

302

Ionic liquids and fluoroalkanesulfonates as isomerization catalysts for α -alkenes

By: Harmer, Mark Andrew; Junk, Christopher P.

World Intellectual Property Organization, WO2007050491 A2 2007-05-03 | Language: English, Database: CAplus

• I⁻**PatentPak** available

Substances (95)

Reactions (0)

Citing (1)

303

Iontophoresis apparatus

By: Akiyama, Hidero; Kanamura, Kiyoshi; Nakayama, Mizuo; Matsumura, Takehiko; Matsumura, Akihiko

World Intellectual Property Organization, WO2007032307 A1 2007-03-22 | Language: Japanese, Database: CAplus

PatentPak available

Substances (10)

Reactions (0)

Citing (0)

304

Ion conductors and their use in energy devices and fuel cells

By: Ogawa, Hiroshi; Takekawa, Toshihiro

Japan, JP2006344433 A 2006-12-21 | Language: Japanese, Database: CAplus

PatentPak available

Substances (32)

Reactions (0)

Citing (3)

305

Sensor comprising supported aprotic **ionic liquid**

By: Burrell, Anthony K.; Hall, Simon B.; Warner, Benjamin P.; Smith, Wayne H.; Chlistunoff, Jerzy

United States, US20060278536 A1 2006-12-14 | Language: English, Database: CAplus

PatentPak available

Substances (19)

Reactions (0)

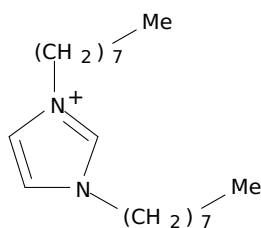
Citing (6)

306

Hybrid vapor compression-absorption cycle

By: Shiflett, Mark Brandon; Yokozeki, Akimichi

World Intellectual Property Organization, WO2006124776 A2 2006-11-23 | Language: English, Database: CAplus



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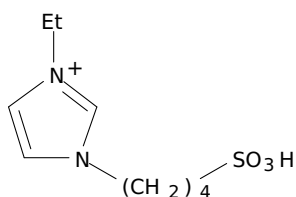
PatentPak available Substances (137) Reactions (0) Citing (9)

307

Production of biodiesel

By: Earle, Martin John; Seddon, Kenneth Richard; Plechkova, Natalia Vladimirovna

World Intellectual Property Organization, WO2006095134 A1 2006-09-14 | Language: English, Database: CAplus

**PatentPak** available Substances (71) Reactions (0) Citing (9)

308

Nonaqueous electrolyte battery

By: Saruwatari, Hidesato; Kishi, Takashi; Kuboki, Takashi; Takami, Norio

United States, US20060204855 A1 2006-09-14 | Language: English, Database: CAplus

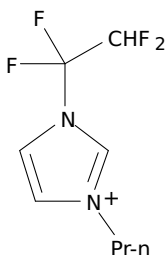
PatentPak available Substances (28) Reactions (0) Citing (1)

309

Absorption cycle utilizing ionic liquid as working fluid

By: Shiflett, Mark Brandon; Yokozeki, Akimichi

World Intellectual Property Organization, WO2006084262 A1 2006-08-10 | Language: English, Database: CAplus

• I⁻

PatentPak available

Substances (151)

Reactions (0)

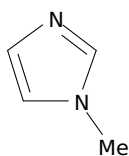
Citing (15)

310

Phosphate ionic liquids as acidic catalyst support for the alkylation of benzene and its preparation method

By: Li, Chunxi; Yu, Chunying; Jiang, Xiaochuan; Wang, Zihao

China, CN1785524 A 2006-06-14 | Language: Chinese, Database: CAplus

• H⁺

PatentPak available

Substances (29)

Reactions (0)

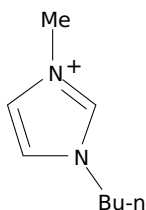
Citing (0)

311

Method of extraction for decreasing content of sulfur in gasoline with ionic liquid

By: Deng, Youquan; Zhou, Hancheng; Shi, Feng

China, CN1782024 A 2006-06-07 | Language: Chinese, Database: CAplus

• Cl⁻

PatentPak available

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

312

Antifriction material of ionic liquid

By: Liu, Weimin; Liu, Xuqing; Liang, Yongmin; Zhou, Feng

China, CN1782043 A 2006-06-07 | Language: Chinese, Database: CAplus

PatentPak available

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

313

Ionic liquid based mixtures for gas storage and delivery

By: Tempel, Daniel Joseph; Henderson, Philip Bruce; Brzozowski, Jeffrey Richard; Pearlstein, Ronald Martin; Garg, Diwakar
United States, US20060060818 A1 2006-03-23 | Language: English, Database: CAplus

PatentPak available

 Substances (112) Reactions (0) Citing (16)

314

Ionic liquid based mixtures for gas storage and delivery

By: Tempel, Daniel Joseph; Henderson, Philip Bruce; Brzozowski, Jeffrey Richard
United States, US20060060817 A1 2006-03-23 | Language: English, Database: CAplus

PatentPak available

 Substances (81) Reactions (0) Citing (14)

315

Uses of cationic salts for polynucleotide synthesis

By: Dellinger, Douglas J.; Leproust, Eric; Peck, Bill; Caruthers, Marvin H.; Cogan, Peter
United States, US20050287555 A1 2005-12-29 | Language: English, Database: CAplus

PatentPak available

 Substances (49)

 Reactions (3)

 Citing (0)

316

Ionic liquids containing protonated primary, secondary or tertiary ammonium ions

By: Walker, Adam John
United Kingdom, GB2412912 A 2005-10-12 | Language: English, Database: CAplus

PatentPak available

 Substances (626)

 Reactions (556)

 Citing (7)

317

Electrochemical element for use at high temperatures

By: Best, Adam Samuel; Landheer, Hiske; Ooms, Franciscus Guentherus Bernardus
World Intellectual Property Organization, WO2005064733 A1 2005-07-14 | Language: English, Database: CAplus

PatentPak available

 Substances (41)

 Reactions (0)

 Citing (4)

318

Electrochemical device using **ionic liquid**-modified cathode

By: Yong, Hyun-Hang; Lee, Sang-Young; Kim, Seok-Koo; Ahn, Soon-Ho
World Intellectual Property Organization, WO2005064712 A1 2005-07-14 | Language: English, Database: CAplus

PatentPak available

 Substances (37)

 Reactions (0)

 Citing (3)

319

Facilitated transport membranes for an alkene hydrocarbon separation

By: Kang, Yong Soo; Jung, Bumsuk; Kim, Jong Hak; Won, Jongok; Char, Kook Heon; Kang, Sang Wook
European Patent Organization, EP1552875 A1 2005-07-13 | Language: English, Database: CAplus

PatentPak available

 Substances (55)

 Reactions (0)

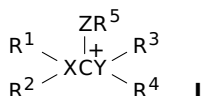
 Citing (5)

320

Process for manufacturing ionic liquids

By: Sueto, Kumiko; Kasahara, Miyuki; Omae, Osamu; Gao, Yuan

United States, US20050136332 A1 2005-06-23 | Language: English, Database: CAplus



PatentPak available

 Substances (54) Reactions (0) Citing (1)

321

Method of producing proton conductor for use as electrolyte in electrochemical cells

By: Komiya, Teruaki

United States, US20050106440 A1 2005-05-19 | Language: English, Database: CAplus

PatentPak available

 Substances (16) Reactions (0) Citing (5)

322

Medium for detecting fluorescence or chemiluminescence, and method for detecting enhanced fluorescence or chemiluminescence

By: Sato, Takaya; Masuda, Akira

Japan, JP2004219233 A 2004-08-05 | Language: Japanese, Database: CAplus

PatentPak available

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

323

Gel electrophoresis process using ionic liquids for solubilizing highly hydrophobic proteins

By: Anderson, Norman G.; Braatz, James A.

United States, US20040031685 A1 2004-02-19 | Language: English, Database: CAplus

PatentPak available

 Substances (62) Reactions (2) Citing (0)

324

Guanidine derivatives as cations for ambient temperature molten salts in electrochemical power sources

By: Schlaikjer, Carl R.

United States, US20030211389 A1 2003-11-13 | Language: English, Database: CAplus

PatentPak available

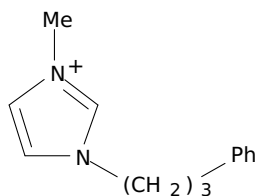
 Substances (31) Reactions (0) Citing (4)

325

Preparation of ionic liquid-coated lipase and other enzymes with enhanced enantioselectivity for use in the chiral synthesis

By: Kim, Mahn-Joo; Lee, Jae Kwan

World Intellectual Property Organization, WO2003057871 A1 2003-07-17 | Language: English, Database: CAPLUS



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PatentPak available

Substances (28)

Reactions (3)

Citing (5)

326

Process for preparation of aziridine derivatives

By: Xia, Chungu; Sun, Wei; Wang, Hongwang

China, CN1412179 A 2003-04-23 | Language: Chinese, Database: CAPLUS

PatentPak available

Substances (33)

Reactions (26)

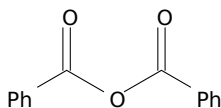
Citing (1)

327

Zeolite mixtures with organic ionic liquids as acidic catalysts for petroleum refining and Friedel-Crafts alkylation and acylation

By: Hardacre, Christopher; Rooney, David William; Thompson, Jillian Margaret; Katdare, Suhas Prabhakar

World Intellectual Property Organization, WO2003028882 A1 2003-04-10 | Language: English, Database: CAPLUS



PatentPak available

Substances (43)

Reactions (4)

Citing (8)

328

Electrorefining process for separating metals

By: Bradley, Antonia; Cogan, Christopher John; Hanson, Bruce Christopher; Lewin, Robert Glynn; Ogden, Mark D.; Owens, Scott Lee; Pitner, William Robert; Rooney, David William; Sanders, David; Smart, Neil Graham; et al

World Intellectual Property Organization, WO2002066712 A1 2002-08-29 | Language: English, Database: CAPLUS

PatentPak available

Substances (14)

Reactions (0)

Citing (5)

329

Long-lived conjugated polymer electrochemical devices incorporating ionic liquids

By: Lu, Wen; Mattes, Benjamin R.; Fadeev, Anndrei G.

World Intellectual Property Organization, WO2002063073 A1 2002-08-15 | Language: English, Database: CPlus

PatentPak available

 Substances (18) Reactions (0) Citing (7)

330

Non-aqueous base petroleum wellbore fluids with enhanced electrical conductivity

By: Palmer, Bentley J.; Fu, Diankui; Card, Roger; Volpert, Edgar

World Intellectual Property Organization, WO2001079375 A2 2001-10-25 | Language: English, Database: CPlus

PatentPak available

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