

Je Seung Lee

List of Publications by Year in descending order

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72
papers

3,419
citations

201674

27
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138484

58
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all docs

72
docs citations

72
times ranked

4612
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile Ionothermal Synthesis of Microporous and Mesoporous Carbons from Task Specific Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2009, 131, 4596-4597.	13.7	404
2	Ammonia-Treated Ordered Mesoporous Carbons as Catalytic Materials for Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2010, 22, 2178-2180.	6.7	344
3	Fluidic Carbon Precursors for Formation of Functional Carbon under Ambient Pressure Based on Ionic Liquids. <i>Advanced Materials</i> , 2010, 22, 1004-1007.	21.0	316
4	Performance of nitrile-containing anions in task-specific ionic liquids for improved CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2010, 353, 177-183.	8.2	190
5	Extractive Desulfurization Using Fe-Containing Ionic Liquids. <i>Energy & Fuels</i> , 2008, 22, 1687-1690.	5.1	186
6	Ether-functionalized ionic liquids as highly efficient SO ₂ absorbents. <i>Energy and Environmental Science</i> , 2011, 4, 1802.	30.8	168
7	Ionic Liquids for Electrochemical Devices. <i>Electrochemistry</i> , 2007, 75, 23-34.	1.4	162
8	Isolation of an Oxomanganese(V) Porphyrin Intermediate in the Reaction of a Manganese(III) Porphyrin Complex and H ₂ O ₂ in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2002, 8, 2067-2071.	3.3	135
9	Preparation of activated mesoporous carbons for electrosorption of ions from aqueous solutions. <i>Journal of Materials Chemistry</i> , 2010, 20, 4602.	6.7	121
10	Boron and nitrogen-rich carbons from ionic liquid precursors with tailorable surface properties. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13486.	2.8	98
11	Ultrastable Superbase-Derived Protic Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 4181-4183.	2.6	97
12	Ionothermal carbonization of sugars in a protic ionic liquid under ambient conditions. <i>Carbon</i> , 2010, 48, 3364-3368.	10.3	74
13	Cation Cross-Linked Ionic Liquids as Anion-Exchange Materials. <i>Chemistry of Materials</i> , 2009, 21, 4756-4758.	6.7	66
14	Ammonia-activated mesoporous carbon membranes for gas separations. <i>Journal of Membrane Science</i> , 2011, 368, 41-47.	8.2	63
15	Novel composite electrolyte membranes consisting of fluorohydrogenate ionic liquid and polymers for the unhumidified intermediate temperature fuel cell. <i>Journal of Power Sources</i> , 2007, 171, 535-539.	7.8	62
16	Fe-containing ionic liquids as catalysts for the dimerization of bicyclo[2.2.1]hepta-2,5-diene. <i>Journal of Catalysis</i> , 2008, 258, 5-13.	6.2	62
17	Steric hindrance-induced zwitterionic carbonates from alkanolamines and CO ₂ : highly efficient CO ₂ absorbents. <i>Energy and Environmental Science</i> , 2011, 4, 4284.	30.8	60
18	Phosphine-bound zinc halide complexes for the coupling reaction of ethylene oxide and carbon dioxide. <i>Journal of Catalysis</i> , 2005, 232, 80-84.	6.2	59

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19	Zn-containing ionic liquids bearing dialkylphosphate ligands for the coupling reactions of epoxides and CO ₂ . <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 621-627.	20.2	58
20	Multi-functional zwitterionic compounds as additives for lithium battery electrolytes. <i>Electrochemistry Communications</i> , 2007, 9, 109-114.	4.7	56
21	Ionic liquids as benign catalysts for the carbonylation of amines to formamides. <i>Applied Catalysis A: General</i> , 2011, 404, 87-92.	4.3	38
22	Facilitated Ion Transport in Smectic Ordered Ionic Liquid Crystals. <i>Advanced Materials</i> , 2016, 28, 9301-9307.	21.0	36
23	CO ₂ Absorption and Desorption in an Aqueous Solution of Heavily Hindered Alkanolamine: Structural Elucidation of CO ₂ -Containing Species. <i>Environmental Science & Technology</i> , 2014, 48, 4163-4170.	10.0	35
24	[Ru(phen)2DPPZ]2+ is in contact with DNA bases when it forms a luminescent complex with single-stranded oligonucleotides. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 994-1000.	3.5	32
25	Nitrile-functionalized tertiary amines as highly efficient and reversible SO ₂ absorbents. <i>Journal of Hazardous Materials</i> , 2014, 264, 136-143.	12.4	30
26	Multimodal porous carbon derived from ionic liquids: correlation between pore sizes and ionic clusters. <i>Nanoscale</i> , 2017, 9, 14672-14681.	5.6	30
27	Zwitterionic imidazolium compounds with high cathodic stability as additives for lithium battery electrolytes. <i>Journal of Power Sources</i> , 2008, 183, 303-309.	7.8	28
28	K ₃ PO ₄ -catalyzed carboxylation of amines to 1,3-disubstituted ureas: A mechanistic consideration. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 317-324.	20.2	23
29	Non-Enzymatic Glucose Biosensor Based on Highly Pure TiO ₂ Nanoparticles. <i>Biosensors</i> , 2021, 11, 149.	4.7	23
30	Ion transport behavior in polymerized imidazolium ionic liquids incorporating flexible pendant groups. <i>European Polymer Journal</i> , 2013, 49, 1017-1022.	5.4	22
31	Electrochemical Control of Ion Transport through a Mesoporous Carbon Membrane. <i>Langmuir</i> , 2014, 30, 3606-3611.	3.5	21
32	Polymer-supported chloroaluminate catalysts for the Diels-Alder reaction of cyclopentadiene with methyl methacrylate. <i>Applied Catalysis A: General</i> , 2007, 331, 34-38.	4.3	18
33	Effects of operational and geometrical conditions upon photosensitivity of amorphous InZnO thin film transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, .	1.2	18
34	Decomposition of ethylene carbonate in the presence of ionic liquid-based zinc tetrahalide catalysts. <i>Applied Catalysis A: General</i> , 2005, 288, 48-52.	4.3	17
35	An efficient catalytic system for the carbomethoxylation of ethylene oxide. <i>Applied Catalysis A: General</i> , 2006, 301, 75-78.	4.3	16
36	Efficient catalytic systems for the carboxylation of diamines to cyclic ureas using ethylene urea as a promoter. <i>Applied Catalysis B: Environmental</i> , 2017, 209, 139-145.	20.2	16

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37	Efficient Non-catalytic Carboxylation of Diamines to Cyclic Ureas Using γ -Pyrrolidone as a Solvent and a Promoter. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 297-306.	4.3	15
38	Role of Alkyl Group in the Aromatic Extraction Using Pyridinium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14827-14834.	2.6	14
39	Polymer-supported methylselenite for the oxidative carbonylation of aniline. <i>Applied Catalysis A: General</i> , 2007, 332, 65-69.	4.3	13
40	Ionic cellulose-stabilized gold nanoparticles and their application in the catalytic reduction of 4-nitrophenol. <i>RSC Advances</i> , 2018, 8, 1758-1763.	3.6	13
41	Lithium-oxygen batteries with ester-functionalized ionic liquid-based electrolytes. <i>RSC Advances</i> , 2015, 5, 80014-80021.	3.6	12
42	Tailoring chemically converted graphenes using a water-soluble pyrene derivative with a zwitterionic arm for sensitive electrochemiluminescence-based analyses. <i>Biosensors and Bioelectronics</i> , 2017, 87, 89-95.	10.1	12
43	K ₃ PO ₄ -catalyzed carbonylation of amines to formamides. <i>Applied Catalysis A: General</i> , 2015, 506, 126-133.	4.3	11
44	Interdigitated Electrode Biosensor Based on Plasma-Deposited TiO ₂ Nanoparticles for Detecting DNA. <i>Biosensors</i> , 2021, 11, 212.	4.7	11
45	Isolation and Structural Characterization of Bicarbonate and Carbonate Species Formed During CO ₂ Absorption/Desorption By a Hindered Alkanolamine. <i>Energy Procedia</i> , 2014, 63, 2190-2198.	1.8	10
46	Nitrogen-immobilized, Ionic Liquid-Derived, Nitrogen-Doped, Activated Carbon for Supercapacitors. <i>ChemElectroChem</i> , 2020, 7, 2410-2417.	3.4	10
47	Waterproof perovskites: high fluorescence quantum yield and stability from a methylammonium lead bromide/formate mixture in water. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5873-5881.	5.5	9
48	One-pot synthesis of ethylene trithiocarbonate from ethylene carbonate. <i>Applied Catalysis A: General</i> , 2008, 337, 168-172.	4.3	8
49	Solventless Catalytic Etherification of Glycerol Using Acetate Salts as Efficient Catalysts. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 722-725.	1.9	8
50	Evolution of Ion-Ion Interactions and Structures in Smectic Ionic Liquid Crystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20547-20557.	3.1	8
51	Effect of ester group on the performance of zwitterionic imidazolium compounds as membrane materials for separating alkene/alkane mixtures. <i>Journal of Membrane Science</i> , 2008, 313, 344-352.	8.2	7
52	Imidazolium Chloride-LiCl Melts as Efficient Solvents for Cellulose. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 3771-3776.	1.9	7
53	Mechanistic Investigation of the Isomerization of 5-Vinyl-2-norbornene. <i>Journal of Organic Chemistry</i> , 2006, 71, 911-914.	3.2	6
54	Ionic liquid-catalyzed selective production of hydrofluoroether: Synthesis of a third generation CFC alternative, CF ₃ CH ₂ OCHF ₂ CF ₃ . <i>Applied Catalysis B: Environmental</i> , 2009, 89, 137-141.	20.2	6

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55	High-purity core / shell structured nanoparticles synthesis using high-frequency plasma technology and atomic layer deposition. <i>Vacuum</i> , 2020, 179, 109556.	3.5	6
56	Lithium Chloride-Imidazolium Chloride Melts for the Coupling Reactions of Propylene Oxide and CO ₂ . <i>Bulletin of the Korean Chemical Society</i> , 2008, 29, 148-152.	1.9	6
57	Direct Etherification Reaction of Glycerol Using Alkali Metal Cation (Li ⁺ , Na ⁺ and K ⁺) Containing X-Type Zeolites as Heterogeneous Catalysts: Optimization of the Reaction Conditions. <i>Catalysts</i> , 2021, 11, 1323.	3.5	6
58	Ammonia Activation of Carbonized Polysaccharides and their Application for the Carbon Capture. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 689-694.	1.9	5
59	Highly Active and Non-corrosive Catalytic Systems for the Coupling Reactions of Ethylene Oxide and CO ₂ . <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 219-223.	1.9	5
60	Ionic liquid-assisted hydroalkoxylation of hexafluoropropene with 2,2,2-trifluoroethanol: A mechanistic consideration. <i>Journal of Catalysis</i> , 2009, 262, 177-180.	6.2	4
61	Effect of Functionalized Ionic Liquids on the Stability of V(acac) ₃ . <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 1036-1040.	1.9	3
62	Positive Effect of Antagonistic Additives on the Homogeneous Catalytic Etherification Reaction of Glycerol. <i>Catalysts</i> , 2021, 11, 1000.	3.5	3
63	Metal-free, NH ₃ -activated N-doped mesoporous nanocarbon electrocatalysts for the oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2021, 129, 107092.	4.7	3
64	Preparation of Porous Carbons from Sugars and their Application for Carbon Capture. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 1126-1129.	1.9	3
65	Preparation of Porous Carbons Under Basic Condition by Soft Template Method for Carbon Capture. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 1384-1389.	1.9	2
66	Selective removal of alkynes from diene mixtures using ether-functionalized Cu(I)-containing ionic liquids as extractants. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2168-2174.	2.8	2
67	Ionic Liquids Containing 1,1-Dicyano-1-acetylmethanide Anion as Potential Electrolytes. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 2999-3003.	1.9	2
68	Tuning the Catalytic Activity of Recyclable Heterogeneous Catalysts for the Direct Etherification Reaction of Glycerol Using Antagonistic Additives. <i>Catalysts</i> , 2022, 12, 220.	3.5	2
69	Crystal Structure of Tetraethylammonium Dichloro[1,2-bis(2-pyridine-2-carboxamido)benzene]cobalt(III) Monohydrate. <i>Analytical Sciences: X-ray Structure Analysis Online</i> , 2004, 20, X123-X124.	0.1	1
70	Ionic Liquid Composite Polymer Electrolyte Membranes for the Unhumidified Intermediate Temperature Fuel Cell. <i>ECS Transactions</i> , 2006, 3, 55-62.	0.5	1
71	Liquid Crystals: Facilitated Ion Transport in Smectic Ordered Ionic Liquid Crystals (<i>Adv. Mater.</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 21.8 1	21.8	1
72	Association between Promoter Hypermethylation of the p16INK4a and hTERT Genes and Their Protein Expressions in Human Breast Cancer. <i>Journal of Breast Cancer</i> , 2007, 10, 59.	1.9	0