

Jung Kyoo Lee

List of Publications by Citations

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46
papers

2,254
citations

23
h-index

47
g-index

47
ext. papers

2,461
ext. citations

5.7
avg, IF

5.07
L-index

#	Paper	IF	Citations
46	Silicon nanoparticles-graphene paper composites for Li ion battery anodes. <i>Chemical Communications</i> , 2010 , 46, 2025-7	5.8	754
45	Bottom-up in situ formation of Fe ₃ O ₄ nanocrystals in a porous carbon foam for lithium-ion battery anodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17325		194
44	Transparent and high gas barrier films based on poly(vinyl alcohol)/graphene oxide composites. <i>Thin Solid Films</i> , 2011 , 519, 7766-7771	2.2	127
43	Rational design of silicon-based composites for high-energy storage devices. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5366-5384	13	118
42	A High-Energy Li-Ion Battery Using a Silicon-Based Anode and a Nano-Structured Layered Composite Cathode. <i>Advanced Functional Materials</i> , 2014 , 24, 3036-3042	15.6	116
41	Self-Rearrangement of Silicon Nanoparticles Embedded in Micro-Carbon Sphere Framework for High-Energy and Long-Life Lithium-Ion Batteries. <i>Nano Letters</i> , 2017 , 17, 5600-5606	11.5	108
40	Zeolite-Templated Mesoporous Silicon Particles for Advanced Lithium-Ion Battery Anodes. <i>ACS Nano</i> , 2018 , 12, 3853-3864	16.7	75
39	Highly reversible conversion-capacity of MnOx-loaded ordered mesoporous carbon nanorods for lithium-ion battery anodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17870		63
38	Electrostatic Self-Assembly of Fe ₃ O ₄ Nanoparticles on Graphene Oxides for High Capacity Lithium-Ion Battery Anodes. <i>Energies</i> , 2013 , 6, 4830-4840	3.1	57
37	Cooperative Catalysis: A New Development in Heterogeneous Catalysis. <i>Topics in Catalysis</i> , 2008 , 49, 136-144	2.3	43
36	A Li-ion battery using LiMn ₂ O ₄ cathode and MnOx/C anode. <i>Journal of Power Sources</i> , 2013 , 244, 214-228.9		42
35	FeF ₃ /Ordered Mesoporous Carbon (OMC) Nanocomposites for Lithium Ion Batteries with Enhanced Electrochemical Performance. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 14939-14946	3.8	41
34	Selective hydroconversion of naphthalenes into light alkyl-aromatic hydrocarbons. <i>Applied Catalysis A: General</i> , 2015 , 492, 140-150	5.1	39
33	Enhanced Li-ion battery performance based on solution-impregnation-assisted sulfur/mesoporous carbon cathodes and a carbon-coated separator. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5750-5760	13	36
32	3D Si/C particulate nanocomposites internally wired with graphene networks for high energy and stable batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18684-18695	13	36
31	Design of selective hydrocracking catalysts for BTX production from diesel-boiling-range polycyclic aromatic hydrocarbons. <i>Applied Catalysis A: General</i> , 2017 , 547, 12-21	5.1	34
30	High-Performance Li-Ion Battery Anodes Based on Silicon-Graphene Self-Assemblies. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A6075-A6083	3.9	31

29	Striking confinement effect: AuCl ₄ (-) binding to amines in a nanocage cavity. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16142-3	16.4	31
28	Microchannel technologies for artificial lungs: (1) theory. <i>ASAIO Journal</i> , 2008 , 54, 372-82	3.6	30
27	Selective hydrocracking of tetralin for light aromatic hydrocarbons. <i>Catalysis Today</i> , 2016 , 265, 144-153	5.3	29
26	FeF ₃ microspheres anchored on reduced graphene oxide as a high performance cathode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 750-755	5.7	27
25	Selective hydrotreating and hydrocracking of FCC light cycle oil into high-value light aromatic hydrocarbons. <i>Applied Catalysis A: General</i> , 2019 , 577, 86-98	5.1	24
24	Performance enhancement of Li-ion batteries by the addition of metal oxides (CuO, Co ₃ O ₄)/solvothermally reduced graphene oxide composites. <i>Electrochimica Acta</i> , 2012 , 69, 358-363	6.7	24
23	MnO/C nanocomposite prepared by one-pot hydrothermal reaction for high performance lithium-ion battery anodes. <i>Korean Journal of Chemical Engineering</i> , 2015 , 32, 178-183	2.8	21
22	Influence of EDTA in poly(acrylic acid) binder for enhancing electrochemical performance and thermal stability of silicon anode. <i>Applied Surface Science</i> , 2018 , 447, 442-451	6.7	21
21	An in situ methylation of toluene using syngas over bifunctional mixture of Cr ₂ O ₃ /ZnO and HZSM-5. <i>Applied Catalysis A: General</i> , 2013 , 466, 90-97	5.1	14
20	Discrete Molecular-Sized Nanocages Derived from Disintegratable Dendrimer Templates. <i>Chemistry of Materials</i> , 2008 , 20, 373-375	9.6	14
19	Discrete Hollow Carbon Spheres Derived from Pyrolytic Copolymer Microspheres for Li-S Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A5099-A5108	3.9	13
18	Effects of ball-milled graphite in the synthesis of SnO ₂ /graphite as an active material in lithium ion batteries. <i>Metals and Materials International</i> , 2011 , 17, 1021-1026	2.4	12
17	Efficient synthesis of immolative carbamate dendrimer with olefinic periphery. <i>Tetrahedron Letters</i> , 2007 , 48, 4919-4923	2	12
16	Electrochemical characteristics and energy densities of lithium-ion batteries using mesoporous silicon and graphite as anodes. <i>Electrochimica Acta</i> , 2020 , 357, 136870	6.7	12
15	Manganese oxides nanocrystals supported on mesoporous carbon microspheres for energy storage application. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 3029-3034	2.8	11
14	Reassembled graphene-platelets encapsulated silicon nanoparticles for Li-ion battery anodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 10193-200	1.3	10
13	FeF ₃ Nanoparticles Embedded in Activated Carbon Foam (ACF) as a Cathode Material with Enhanced Electrochemical Performance for Lithium Ion Batteries. <i>Bulletin of the Korean Chemical Society</i> , 2015 , 36, 1878-1884	1.2	9
12	Spinel lithium manganese oxide synthesized under a pressurized oxygen atmosphere. <i>Electrochimica Acta</i> , 2010 , 55, 8397-8401	6.7	8

11	Molecular-size selective hydroconversion of FCC light cycle oil into petrochemical light aromatic hydrocarbons. <i>Catalysis Today</i> , 2020 , 352, 329-336	5.3	7
10	Preparation and catalytic application of Mn(III)-porphyrin based micro sized porous coordination polymers. <i>Journal of Porphyrins and Phthalocyanines</i> , 2014 , 18, 579-584	1.8	5
9	Syngas conversion beyond chemical equilibrium by in situ bimolecular reaction. <i>Research on Chemical Intermediates</i> , 2016 , 42, 249-267	2.8	1
8	p-Selectivity of the Al-MFI substitutional series in alkylation of toluene. <i>Korean Journal of Chemical Engineering</i> , 2000 , 17, 461-467	2.8	1
7	One-Pot Synthesis of Alkyl-Terminated Silicon Nanoparticles by Solution Reduction. <i>Korean Chemical Engineering Research</i> , 2011 , 49, 577-581		1
6	Porous Manganese Oxide Networks as High-Capacity and High-Rate Anodes for Lithium-Ion Batteries. <i>Energies</i> , 2021 , 14, 1299	3.1	1
5	High-conversion reduction synthesis of porous silicon for advanced lithium battery anodes. <i>Electrochimica Acta</i> , 2021 , 391, 138967	6.7	1
4	Hydrogen storage and release characteristics of polycyclic aromatic by-products for LOHC systems. <i>Applied Catalysis A: General</i> , 2022 , 636, 118583	5.1	1
3	In situ synthesis and cell performance of a Si/C core-shell/ball-milled graphite composite for lithium ion batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 7855-9	1.3	
2	Preparation of nano-sized graphite-supported CuO and Cu-Sn as active materials in lithium ion batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 3317-21	1.3	
1	Isomerization of n-hexane over platinum loaded zeolites. <i>Studies in Surface Science and Catalysis</i> , 1995 , 98, 169-170	1.8	