Jung Kyoo Lee

List of Publications by Year in Descending Order

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	Hydrogen storage and release characteristics of polycyclic aromatic by-products for LOHC systems. *Applied Catalysis A: General*, **2022**, 636, 118583	5.1	1
45	Porous Manganese Oxide Networks as High-Capacity and High-Rate Anodes for Lithium-Ion Batteries. *Energies*, **2021**, 14, 1299	3.1	1
44	High-conversion reduction synthesis of porous silicon for advanced lithium battery anodes. *Electrochimica Acta*, **2021**, 391, 138967	6.7	1
43	Electrochemical characteristics and energy densities of lithium-ion batteries using mesoporous silicon and graphite as anodes. *Electrochimica Acta*, **2020**, 357, 136870	6.7	12
42	Molecular-size selective hydroconversion of FCC light cycle oil into petrochemical light aromatic hydrocarbons. *Catalysis Today*, **2020**, 352, 329-336	5.3	7
41	Selective hydrotreating and hydrocracking of FCC light cycle oil into high-value light aromatic hydrocarbons. *Applied Catalysis A: General*, **2019**, 577, 86-98	5.1	24
40	Discrete Hollow Carbon Spheres Derived from Pyrolytic Copolymer Microspheres for Li-S Batteries. *Journal of the Electrochemical Society*, **2019**, 166, A5099-A5108	3.9	13
39	Influence of EDTA in poly(acrylic acid) binder for enhancing electrochemical performance and thermal stability of silicon anode. *Applied Surface Science*, **2018**, 447, 442-451	6.7	21
38	Zeolite-Templated Mesoporous Silicon Particles for Advanced Lithium-Ion Battery Anodes. *ACS Nano*, **2018**, 12, 3853-3864	16.7	75
37	Enhanced Li–S battery performance based on solution-impregnation-assisted sulfur/mesoporous carbon cathodes and a carbon-coated separator. *Journal of Materials Chemistry A*, **2017**, 5, 5750-5760	13	36
36	Design of selective hydrocracking catalysts for BTX production from diesel-boiling-range polycyclic aromatic hydrocarbons. *Applied Catalysis A: General*, **2017**, 547, 12-21	5.1	34
35	Self-Rearrangement of Silicon Nanoparticles Embedded in Micro-Carbon Sphere Framework for High-Energy and Long-Life Lithium-Ion Batteries. *Nano Letters*, **2017**, 17, 5600-5606	11.5	108
34	High-Performance Li-Ion Battery Anodes Based on Silicon-Graphene Self-Assemblies. *Journal of the Electrochemical Society*, **2017**, 164, A6075-A6083	3.9	31
33	Syngas conversion beyond chemical equilibrium by in situ bimolecular reaction. *Research on Chemical Intermediates*, **2016**, 42, 249-267	2.8	1
32	Selective hydrocracking of tetralin for light aromatic hydrocarbons. *Catalysis Today*, **2016**, 265, 144-153	5.3	29
31	Rational design of silicon-based composites for high-energy storage devices. *Journal of Materials Chemistry A*, **2016**, 4, 5366-5384	13	118
30	Manganese oxides nanocrystals supported on mesoporous carbon microspheres for energy storage application. *Korean Journal of Chemical Engineering*, **2016**, 33, 3029-3034	2.8	11

29	3D Si/C particulate nanocomposites internally wired with graphene networks for high energy and stable batteries. *Journal of Materials Chemistry A*, **2015**, 3, 18684-18695	13	36
28	FeF3 microspheres anchored on reduced graphene oxide as a high performance cathode material for lithium ion batteries. *Journal of Alloys and Compounds*, **2015**, 647, 750-755	5.7	27
27	MnO/C nanocomposite prepared by one-pot hydrothermal reaction for high performance lithium-ion battery anodes. *Korean Journal of Chemical Engineering*, **2015**, 32, 178-183	2.8	21
26	FeF3 Nanoparticles Embedded in Activated Carbon Foam (ACF) as a Cathode Material with Enhanced Electrochemical Performance for Lithium Ion Batteries. *Bulletin of the Korean Chemical Society*, **2015**, 36, 1878-1884	1.2	9
25	Selective hydroconversion of naphthalenes into light alkyl-aromatic hydrocarbons. *Applied Catalysis A: General*, **2015**, 492, 140-150	5.1	39
24	A High-Energy Li-Ion Battery Using a Silicon-Based Anode and a Nano-Structured Layered Composite Cathode. *Advanced Functional Materials*, **2014**, 24, 3036-3042	15.6	116
23	Preparation and catalytic application of Mn(III)-porphyrin based micro sized porous coordination polymers. *Journal of Porphyrins and Phthalocyanines*, **2014**, 18, 579-584	1.8	5
22	FeF3/Ordered Mesoporous Carbon (OMC) Nanocomposites for Lithium Ion Batteries with Enhanced Electrochemical Performance. *Journal of Physical Chemistry C*, **2013**, 117, 14939-14946	3.8	41
21	An in situ methylation of toluene using syngas over bifunctional mixture of Cr2O3/ZnO and HZSM-5. *Applied Catalysis A: General*, **2013**, 466, 90-97	5.1	14
20	A Li-ion battery using LiMn2O4 cathode and MnOx/C anode. *Journal of Power Sources*, **2013**, 244, 214-22	8.9	42
19	In situ synthesis and cell performance of a Si/C core-shell/ball-milled graphite composite for lithium ion batteries. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 7855-9	1.3	
18	Electrostatic Self-Assembly of Fe3O4 Nanoparticles on Graphene Oxides for High Capacity Lithium-Ion Battery Anodes. *Energies*, **2013**, 6, 4830-4840	3.1	57
17	Performance enhancement of Li-ion batteries by the addition of metal oxides (CuO, Co3O4)/solvothermally reduced graphene oxide composites. *Electrochimica Acta*, **2012**, 69, 358-363	6.7	24
16	Highly reversible conversion-capacity of MnOx-loaded ordered mesoporous carbon nanorods for lithium-ion battery anodes. *Journal of Materials Chemistry*, **2012**, 22, 17870		63
15	Preparation of nano-sized graphite-supported CuO and Cu-Sn as active materials in lithium ion batteries. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 3317-21	1.3	
14	Reassembled graphene-platelets encapsulated silicon nanoparticles for Li-ion battery anodes. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 10193-200	1.3	10
13	Transparent and high gas barrier films based on poly(vinyl alcohol)/graphene oxide composites. *Thin Solid Films*, **2011**, 519, 7766-7771	2.2	127
12	Effects of ball-milled graphite in the synthesis of SnO2/graphite as an active material in lithium ion batteries. *Metals and Materials International*, **2011**, 17, 1021-1026	2.4	12

11	Bottom-up in situ formation of Fe3O4 nanocrystals in a porous carbon foam for lithium-ion battery anodes. *Journal of Materials Chemistry*, **2011**, 21, 17325		194
10	One-Pot Synthesis of Alkyl-Terminated Silicon Nanoparticles by Solution Reduction. *Korean Chemical Engineering Research*, **2011**, 49, 577-581		1
9	Silicon nanoparticles-graphene paper composites for Li ion battery anodes. *Chemical Communications*, **2010**, 46, 2025-7	5.8	754
8	Spinel lithium manganese oxide synthesized under a pressurized oxygen atmosphere. *Electrochimica Acta*, **2010**, 55, 8397-8401	6.7	8
7	Striking confinement effect: AuCl4(-) binding to amines in a nanocage cavity. *Journal of the American Chemical Society*, **2008**, 130, 16142-3	16.4	31
6	Discrete Molecular-Sized Nanocages Derived from Disintegratable Dendrimer Templates. *Chemistry of Materials*, **2008**, 20, 373-375	9.6	14
5	Microchannel technologies for artificial lungs: (1) theory. *ASAIO Journal*, **2008**, 54, 372-82	3.6	30
4	Cooperative Catalysis: A New Development in Heterogeneous Catalysis. *Topics in Catalysis*, **2008**, 49, 136-144	2.3	43
3	Efficient synthesis of immolative carbamate dendrimer with olefinic periphery. *Tetrahedron Letters*, **2007**, 48, 4919-4923	2	12
2	p-Selectivity of the Al-MFI substitutional series in alkylation of toluene. *Korean Journal of Chemical Engineering*, **2000**, 17, 461-467	2.8	1
1	Isomerization of n-hexane over platinum loaded zeolites. *Studies in Surface Science and Catalysis*, **1995**, 98, 169-170	1.8	