Seok Hyun Song

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57	3,350	28	57
papers	citations	h-index	g-index
61 ext. papers	3,875 ext. citations	16.6 avg, IF	5.2 L-index

#	Paper	IF	Citations
57	Gamma-ray irradiated graphene nanosheets/polydopamine hybrids as a superior anode material for lithium-ion batteries. <i>Carbon Letters</i> , 2022 , 32, 305	2.3	
56	Enabling Stable and Nonhysteretic Oxygen Redox Capacity in Li-Excess Na Layered Oxides (Adv. Energy Mater. 11/2022). <i>Advanced Energy Materials</i> , 2022 , 12, 2270045	21.8	
55	High-energy and durable lithium metal batteries using garnet-type solid electrolytes with tailored lithium-metal compatibility <i>Nature Communications</i> , 2022 , 13, 1883	17.4	14
54	Unveiling the Role of Transition-Metal Ions in the Thermal Degradation of Layered Ni t o M n Cathodes for Lithium Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2022 , 32, 2108790	15.6	3
53	Structural and Chemical Compatibilities of Li Ni Co Mn O Cathode Material with Garnet-Type Solid Electrolyte for All-Solid-State Batteries. <i>Small</i> , 2021 , 17, e2103306	11	1
52	Janus Graphene Oxide Sheets with FeO Nanoparticles and Polydopamine as Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Discrete Samp; Interfaces</i> , 2021 , 13, 14786-14795	9.5	12
51	Critical Role of Ti in Stabilizing High-Voltage Redox Reactions in Li-Rich Layered Material. <i>Small</i> , 2021 , 17, e2100840	11	2
50	Na2Fe2F7: a fluoride-based cathode for high power and long life Na-ion batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 1469-1479	35.4	6
49	Low-cost and high-power K4[Mn2Fe](PO4)2(P2O7) as a novel cathode with outstanding cyclability for K-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9898-9908	13	4
48	High-Voltage-Driven Surface Structuring and Electrochemical Stabilization of Ni-Rich Layered Cathode Materials for Li Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2000521	21.8	43
47	High-energy O3-Na1🛘xCax[Ni0.5Mn0.5]O2 cathodes for long-life sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13776-13786	13	18
46	Development of K4Fe3(PO4)2(P2O7) as a novel Fe-based cathode with high energy densities and excellent cyclability in rechargeable potassium batteries. <i>Energy Storage Materials</i> , 2020 , 28, 47-54	19.4	20
45	Oxalate-Based High-Capacity Conversion Anode for Potassium Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3743-3750	8.3	6
44	P2-K0.75[Ni1/3Mn2/3]O2 Cathode Material for High Power and Long Life Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903605	21.8	28
43	A new lithium diffusion model in layered oxides based on asymmetric but reversible transition metal migration. <i>Energy and Environmental Science</i> , 2020 , 13, 1269-1278	35.4	20
42	Development of a New Mixed-Polyanion Cathode with Superior Electrochemical Performances for Na-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 163-171	8.3	14
41	New Insight on Open-Structured Sodium Vanadium Oxide as High-Capacity and Long Life Cathode for ZnIbn Storage: Structure, Electrochemistry, and First-Principles Calculation. <i>Advanced Energy Materials</i> , 2020 , 10, 2001595	21.8	32

(2016-2019)

40	Development of Na2FePO4F/Conducting-Polymer composite as an exceptionally high performance cathode material for Na-ion batteries. <i>Journal of Power Sources</i> , 2019 , 432, 1-7	8.9	19
39	Hollandite-Type VO1.75(OH)0.5: Effective Sodium Storage for High-Performance Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1900603	21.8	13
38	Are type 316L stainless steel coin cells stable in nonaqueous carbonate solutions containing NaPF6 or KPF6 salt?. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26250-26260	13	7
37	Conversion-Based Cathode Materials for Rechargeable Sodium Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702646	21.8	50
36	Suppression of Voltage Decay through Manganese Deactivation and Nickel Redox Buffering in High-Energy Layered Lithium-Rich Electrodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1800606	21.8	54
35	Exceptional effect of glassy lithium fluorophosphate on Mn-rich olivine cathode material for high-performance Li ion batteries. <i>Journal of Power Sources</i> , 2018 , 374, 55-60	8.9	3
34	Na3V(PO4)2: A New Layered-Type Cathode Material with High Water Stability and Power Capability for Na-Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 3683-3689	9.6	33
33	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , 2017 , 2,	62.3	72
32	Ultraconcentrated Sodium Bis(fluorosulfonyl)imide-Based Electrolytes for High-Performance Sodium Metal Batteries. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 3723-3732	9.5	126
31	High Power Cathode Material Na4VO(PO4)2 with Open Framework for Na Ion Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 3363-3366	9.6	12
30	Development of a new alluaudite-based cathode material with high power and long cyclability for application in Na ion batteries in real-life. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22334-22340	13	18
29	In Situ Tracking Kinetic Pathways of Li/Na Substitution during lon-Exchange Synthesis of LiNaVOPOF. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12504-12516	16.4	18
28	NaFBeF2 nanocomposite: New type of Na-ion battery cathode material. <i>Nano Research</i> , 2017 , 10, 4388-	4 3 97	11
27	Thermal structural stability of a multi-component olivine electrode for lithium ion batteries. <i>CrystEngComm</i> , 2016 , 18, 7463-7470	3.3	5
26	Recent Progress in Electrode Materials for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1600943	21.8	686
25	Tailoring a New 4V-Class Cathode Material for Na-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 150	21.487	52
24	Understanding Origin of Voltage Hysteresis in Conversion Reaction for Na Rechargeable Batteries: The Case of Cobalt Oxides. <i>Advanced Functional Materials</i> , 2016 , 26, 5042-5050	15.6	54
23	Highly Stable Iron- and Manganese-Based Cathodes for Long-Lasting Sodium Rechargeable Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 7241-7249	9.6	43

22	Lithium-excess olivine electrode for lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2016 , 9, 2902-2915	35.4	36
21	Anomalous JahnIIIeller behavior in a manganese-based mixed-phosphate cathode for sodium ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 3325-3335	35.4	114
20	A New Perspective on Li-SO2 Batteries for Rechargeable Systems. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9663-7	16.4	29
19	A New Perspective on LiBO2 Batteries for Rechargeable Systems. <i>Angewandte Chemie</i> , 2015 , 127, 9799	-3803	9
18	REktitelbild: A New Perspective on LiBO2 Batteries for Rechargeable Systems (Angew. Chem. 33/2015). <i>Angewandte Chemie</i> , 2015 , 127, 9860-9860	3.6	
17	Unexpected discovery of low-cost maricite NaFePO4 as a high-performance electrode for Na-ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 540-545	35.4	236
16	A Family of High-Performance Cathode Materials for Na-ion Batteries, Na3(VO1 \square PO4)2 F1+2x (0 \square x \square 1): Combined First-Principles and Experimental Study. <i>Advanced Functional Materials</i> , 2014 , 24, 4603-	4654	206
15	Alluaudite LiMnPO4: a new Mn-based positive electrode for Li rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8632-8636	13	31
14	Size-selective synthesis of mesoporous LiFePO4/C microspheres based on nucleation and growth rate control of primary particles. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5922-5927	13	31
13	LiFePO4 with an alluaudite crystal structure for lithium ion batteries. <i>Energy and Environmental Science</i> , 2013 , 6, 830	35.4	57
12	Understanding the Electrochemical Mechanism of the New Iron-Based Mixed-Phosphate Na4Fe3(PO4)2(P2O7) in a Na Rechargeable Battery. <i>Chemistry of Materials</i> , 2013 , 25, 3614-3622	9.6	174
11	A new catalyst-embedded hierarchical air electrode for high-performance LiD2 batteries. <i>Energy and Environmental Science</i> , 2013 , 6, 3570	35.4	134
10	Defect-free solvothermally assisted synthesis of microspherical mesoporous LiFePO4/C. <i>RSC Advances</i> , 2013 , 3, 3421	3.7	37
9	New iron-based mixed-polyanion cathodes for lithium and sodium rechargeable batteries: combined first principles calculations and experimental study. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10369-72	16.4	323
8	A combined first principles and experimental study on Na3V2(PO4)2F3 for rechargeable Na batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20535		253
7	Neutron and X-ray Diffraction Study of Pyrophosphate-Based Li2⊠MP2O7 (M = Fe, Co) for Lithium Rechargeable Battery Electrodes. <i>Chemistry of Materials</i> , 2011 , 23, 3930-3937	9.6	92
6	Polymorphism and phase transformations of Li2NFeSiO4 (0?x?2) from first principles. <i>Physical Review B</i> , 2011 , 84,	3.3	34
5	Anelasticity and damping of thin aluminum films on silicon substrates. <i>Journal of Microelectromechanical Systems</i> , 2004 , 13, 230-237	2.5	33

LIST OF PUBLICATIONS

4	Enabling Stable and Nonhysteretic Oxygen Redox Capacity in Li-Excess Na Layered Oxides. Advanced Energy Materials,2103384	21.8	2
3	Selective Anionic Redox and Suppressed Structural Disordering Enabling High-Energy and Long-Life Li-Rich Layered-Oxide Cathode. <i>Advanced Energy Materials</i> ,2102311	21.8	7
2	Recycling of Li(Ni,Co,Mn)O2 via a chlorination technique. <i>Korean Journal of Chemical Engineering</i> ,1	2.8	1
1	Hysteresis-Suppressed Reversible Oxygen-Redox Cathodes for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> ,2103939	21.8	5