

Kyu-Young Park

List of Publications by Citations

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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.

64
papers

6,170
citations

36
h-index

66
g-index

66
ext. papers

7,053
ext. citations

17.8
avg, IF

5.7
L-index

#	Paper	IF	Citations
64	Aqueous rechargeable Li and Na ion batteries. <i>Chemical Reviews</i> , 2014 , 114, 11788-827	68.1	929
63	Understanding the Degradation Mechanisms of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ Cathode Material in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1300787	21.8	709
62	A Novel High-Energy Hybrid Supercapacitor with an Anatase TiO ₂ Reduced Graphene Oxide Anode and an Activated Carbon Cathode. <i>Advanced Energy Materials</i> , 2013 , 3, 1500-1506	21.8	451
61	Superior rechargeability and efficiency of lithium-oxygen batteries: hierarchical air electrode architecture combined with a soluble catalyst. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3926-31	16.4	360
60	Sodium intercalation chemistry in graphite. <i>Energy and Environmental Science</i> , 2015 , 8, 2963-2969	35.4	287
59	Enhanced power and rechargeability of a Li-O ₂ battery based on a hierarchical-fibril CNT electrode. <i>Advanced Materials</i> , 2013 , 25, 1348-52	24	282
58	Toward a lithium-"air" battery: the effect of CO ₂ on the chemistry of a lithium-oxygen cell. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9733-42	16.4	262
57	Understanding the Electrochemical Mechanism of the New Iron-Based Mixed-Phosphate Na ₄ Fe ₃ (PO ₄) ₂ (P ₂ O ₇) in a Na Rechargeable Battery. <i>Chemistry of Materials</i> , 2013 , 25, 3614-3622	9.6	174
56	All-graphene-battery: bridging the gap between supercapacitors and lithium ion batteries. <i>Scientific Reports</i> , 2014 , 4, 5278	4.9	153
55	Carbonization of a stable B-sheet-rich silk protein into a pseudographitic pyroprotein. <i>Nature Communications</i> , 2015 , 6, 7145	17.4	147
54	A new catalyst-embedded hierarchical air electrode for high-performance Li-O ₂ batteries. <i>Energy and Environmental Science</i> , 2013 , 6, 3570	35.4	134
53	High-Performance Hybrid Supercapacitor Based on Graphene-Wrapped Li ₄ Ti ₅ O ₁₂ and Activated Carbon. <i>ChemElectroChem</i> , 2014 , 1, 125-130	4.3	127
52	Multicomponent Effects on the Crystal Structures and Electrochemical Properties of Spinel-Structured M ₃ O ₄ (M = Fe, Mn, Co) Anodes in Lithium Rechargeable Batteries. <i>Chemistry of Materials</i> , 2012 , 24, 720-725	9.6	122
51	Tailoring sodium intercalation in graphite for high energy and power sodium ion batteries. <i>Nature Communications</i> , 2019 , 10, 2598	17.4	115
50	Anomalous Jahn-Teller 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
49	Sodium-Ion Storage in Pyroprotein-Based Carbon Nanoplates. <i>Advanced Materials</i> , 2015 , 27, 6914-21	24	107
48	Toward a low-cost high-voltage sodium aqueous rechargeable battery. <i>Materials Today</i> , 2019 , 29, 26-36	21.8	101

47	Synergistic multi-doping effects on the Li ₇ La ₃ Zr ₂ O ₁₂ solid electrolyte for fast lithium ion conduction. <i>Scientific Reports</i> , 2015 , 5, 18053	4.9	100
46	The potential for long-term operation of a lithium-oxygen battery using a non-carbonate-based electrolyte. <i>Chemical Communications</i> , 2012 , 48, 8374-6	5.8	96
45	A comparative study on Na ₂ MnPO ₄ F and Li ₂ MnPO ₄ F for rechargeable battery cathodes. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3299-303	3.6	87
44	Unveiling origin of additional capacity of SnO ₂ anode in lithium-ion batteries by realistic ex situ TEM analysis. <i>Nano Energy</i> , 2016 , 19, 234-245	17.1	86
43	Engineering Solid Electrolyte Interphase for Pseudocapacitive Anatase TiO ₂ Anodes in Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1802099	15.6	83
42	First-Principles Study of the Reaction Mechanism in Sodium-Oxygen Batteries. <i>Chemistry of Materials</i> , 2014 , 26, 1048-1055	9.6	82
41	Superior Rechargeability and Efficiency of Lithium-Oxygen Batteries: Hierarchical Air Electrode Architecture Combined with a Soluble Catalyst. <i>Angewandte Chemie</i> , 2014 , 126, 4007-4012	3.6	80
40	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , 2017 , 2,	62.3	72
39	Nanoscale Phenomena in Lithium-Ion Batteries. <i>Chemical Reviews</i> , 2020 , 120, 6684-6737	68.1	67
38	Visualization of regulated nucleation and growth of lithium sulfides for high energy lithium sulfur batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 3144-3155	35.4	64
37	Abnormal self-discharge in lithium-ion batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 970-978	35.4	57
36	Novel transition-metal-free cathode for high energy and power sodium rechargeable batteries. <i>Nano Energy</i> , 2014 , 4, 97-104	17.1	57
35	LiFePO ₄ with an alluaudite crystal structure for lithium ion batteries. <i>Energy and Environmental Science</i> , 2013 , 6, 830	35.4	57
34	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
33	Tailoring a New 4V-Class Cathode Material for Na-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502147	21.47	52
32	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
31	Thermal stability of Fe/Mn binary olivine cathodes for Li rechargeable batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11964		42
30	Anti-Site Reordering in LiFePO ₄ : Defect Annihilation on Charge Carrier Injection. <i>Chemistry of Materials</i> , 2014 , 26, 5345-5351	9.6	36

29	Lithium-excess olivine electrode for lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2016 , 9, 2902-2915	35.4	36
28	Alluaudite LiMnPO ₄ : a new Mn-based positive electrode for Li rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8632-8636	13	31
27	Nano-graphite platelet loaded with LiFePO ₄ nanoparticles used as the cathode in a high performance Li-ion battery. <i>Carbon</i> , 2012 , 50, 1966-1971	10.4	30
26	Simple and Effective Gas-Phase Doping for Lithium Metal Protection in Lithium Metal Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 9182-9191	9.6	25
25	Phase-Inversion Polymer Composite Separators Based on Hexagonal Boron Nitride Nanosheets for High-Temperature Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8107-8114	9.5	25
24	All-carbon-based cathode for a true high-energy-density Li-O ₂ battery. <i>Carbon</i> , 2017 , 114, 311-316	10.4	24
23	First-principles Study on the Charge Transport Mechanism of Lithium Sulfide (Li ₂ S) in Lithium-Sulfur Batteries. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1288-92	4.5	22
22	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
21	Flexible MoS ₂ -Polyimide Electrode for Electrochemical Biosensors and Their Applications for the Highly Sensitive Quantification of Endocrine Hormones: PTH, T ₃ , and T ₄ . <i>Analytical Chemistry</i> , 2020 , 92, 6327-6333	7.8	19
20	Concurrently Approaching Volumetric and Specific Capacity Limits of Lithium Battery Cathodes via Conformal Pickering Emulsion Graphene Coatings. <i>Advanced Energy Materials</i> , 2020 , 10, 2001216	21.8	15
19	Factors that Affect the Phase Behavior of Multi-Component Olivine (Li _{1-x} Mn _y Co _{1-x-y} PO ₄ ; 0 < x + y < 1). <i>Journal of the Electrochemical Society</i> , 2013 , 160, A444-A448	3.9	15
18	The Effect of Particle Size on Phase Stability of the Delithiated Li _x MnPO ₄ . <i>Journal of the Electrochemical Society</i> , 2011 , 159, A55-A59	3.9	15
17	TiO ₂ @SnO ₂ @TiO ₂ triple-shell nanotube anode for high-performance lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 2365-2371	2.6	14
16	Understanding capacity fading mechanism of thick electrodes for lithium-ion rechargeable batteries. <i>Journal of Power Sources</i> , 2020 , 468, 228369	8.9	14
15	High Volumetric Energy and Power Density Li ₂ TiSiO ₅ Battery Anodes via Graphene Functionalization. <i>Matter</i> , 2020 , 3, 522-533	12.7	13
14	Intrinsic Nanodomains in Triplite LiFeSO ₄ F and Its Implication in Lithium-Ion Diffusion. <i>Advanced Energy Materials</i> , 2018 , 8, 1701408	21.8	10
13	Elucidating and Mitigating High-Voltage Degradation Cascades in Cobalt-Free LiNiO Lithium-Ion Battery Cathodes. <i>Advanced Materials</i> , 2021 , e2106402	24	10
12	Realization of Wafer-Scale 1T-MoS ₂ Film for Efficient Hydrogen Evolution Reaction. <i>ChemSusChem</i> , 2021 , 14, 1344-1350	8.3	7

11	Thermal structural stability of a multi-component olivine electrode for lithium ion batteries. <i>CrystEngComm</i> , 2016 , 18, 7463-7470	3.3	5
10	Trackable galvanostatic history in phase separation based electrodes for lithium-ion batteries: a mosaic sub-grouping intercalation model. <i>Energy and Environmental Science</i> , 2017 , 10, 2352-2364	35.4	5
9	Enhancing nanostructured nickel-rich lithium-ion battery cathodes via surface stabilization. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 063210	2.9	5
8	Chemical Origins of Electrochemical Overpotential in Surface-Conversion Nanocomposite Cathodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1900503	21.8	4
7	Energy storage in in vivo synthesizable biominerals. <i>RSC Advances</i> , 2012 , 2, 5499	3.7	4
6	Concurrent and Selective Determination of Dopamine and Serotonin with Flexible WS ₂ /Graphene/Polyimide Electrode Using Cold Plasma. <i>Small</i> , 2021 , 17, e2102757	11	4
5	A bifunctional auxiliary electrode for safe lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24807-24813	13	3
4	n-Doping of Quantum Dots by Lithium Ion Intercalation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36523-36529	9.5	2
3	Elucidating and Mitigating High-Voltage Interfacial Chemomechanical Degradation of Nickel-Rich Lithium-Ion Battery Cathodes via Conformal Graphene Coating. <i>ACS Applied Energy Materials</i> ,	6.1	2
2	Elucidating and Mitigating High-Voltage Degradation Cascades in Cobalt-Free LiNiO ₂ Lithium-Ion Battery Cathodes (Adv. Mater. 3/2022). <i>Advanced Materials</i> , 2022 , 34, 2270026	24	
1	Concurrent and Selective Determination of Dopamine and Serotonin with Flexible WS ₂ /Graphene/Polyimide Electrode Using Cold Plasma (Small 45/2021). <i>Small</i> , 2021 , 17, 2170235	11	