Woosung Choi

List of Publications by Year
in descending order

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26 papers	1,507 citations	623734 14 h-index	610901 24 g-index
27 all docs	27 docs citations	27 times ranked	1415 citing authors

#	Article	IF	Citations
1	Inhomogeneous lithium-storage reaction triggering the inefficiency of all-solid-state batteries. Journal of Energy Chemistry, 2022, 66, 226-236.	12.9	19
2	Triggering anomalous capacity by nanoengineered ordered mesoporous structure for Co3O4 anode material in Li-ion rechargeable batteries. Applied Surface Science, 2022, 575, 151744.	6.1	8
3	Understanding the effect of nonmetallic impurities in regenerated cathode materials for lithium-ion battery recycling by tracking down impurity elements. Journal of Hazardous Materials, 2022, 425, 127907.	12.4	23
4	Unveiling the Genesis and Effectiveness of Negative Fading in Nanostructured Iron Oxide Anode Materials for Lithium-Ion Batteries. ACS Nano, 2022, 16, 631-642.	14.6	64
5	Bonding dependent lithium storage behavior of molybdenum oxides for next-generation Li-ion batteries. Journal of Materials Chemistry A, 2022, 10, 7718-7727.	10.3	7
6	Strategic Approach to Diversify Design Options for Liâ€Ion Batteries by Utilizing Lowâ€Ni Layered Cathode Materials (Adv. Energy Mater. 7/2022). Advanced Energy Materials, 2022, 12, .	19.5	0
7	Revealing the unconventional lithium storage mechanism of ordered mesoporous NiO for lithium-ion batteries. Journal of Power Sources, 2022, 526, 231135.	7.8	9
8	Strategic Approach to Diversify Design Options for Liâ€Ion Batteries by Utilizing Lowâ€Ni Layered Cathode Materials. Advanced Energy Materials, 2022, 12, .	19.5	13
9	Crystal Waterâ€Assisted Additional Capacity for Nickel Hydroxide Anode Materials (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Over	14.9	1
10	Reaction mechanism and additional lithium storage of mesoporous MnO2 anode in Li batteries. Journal of Energy Chemistry, 2021, 53, 276-284.	12.9	23
11	Impact of Local Separation on the Structural and Electrochemical Behaviors in Li₂MoO₃ï£¿LiCrO₂ Disordered Rockâ€Salt Cathode Material. Advanced Energy Materials, 2021, 11, 2002958.	19.5	16
12	Polymorphic Effects on Electrochemical Performance of Conversionâ€Based MnO₂ Anode Materials for Nextâ€Generation Li Batteries. Small, 2021, 17, e2006433.	10.0	13
13	Evidence for the Coexistence of Polysulfide and Conversion Reactions in the Lithium Storage Mechanism of MoS₂ Anode Material. Chemistry of Materials, 2021, 33, 1935-1945.	6.7	16
14	The effects of nanostructures on lithium storage behavior in Mn2O3 anodes for next-generation lithium-ion batteries. Journal of Power Sources, 2021, 493, 229682.	7.8	23
15	Dual lithium storage of Pt electrode: alloying and reversible surface layer. Journal of Materials Chemistry A, 2021, 9, 18377-18384.	10.3	7
16	Additional Lithium Storage on Dynamic Electrode Surface by Charge Redistribution in Inactive Ru Metal. Small, 2020, 16, 1905868.	10.0	5
17	Enhancing the structural durability of Ni-rich layered materials by post-process: washing and heat-treatment. Journal of Materials Chemistry A, 2020, 8, 10206-10216.	10.3	28
18	Multiscale factors in designing alkali-ion (Li, Na, and K) transition metal inorganic compounds for next-generation rechargeable batteries. Energy and Environmental Science, 2020, 13, 4406-4449.	30.8	77

#	Article	IF	Citations
19	Exploring Anomalous Charge Storage in Anode Materials for Next-Generation Li Rechargeable Batteries. Chemical Reviews, 2020, 120, 6934-6976.	47.7	382
20	Anionic Redox Chemistry as a Clue for Understanding the Structural Behavior in Layered Cathode Materials. Small, 2020, 16, e1905875.	10.0	21
21	Modeling and Applications of Electrochemical Impedance Spectroscopy (EIS) for Lithium-ion Batteries. Journal of Electrochemical Science and Technology, 2020, 11, 1-13.	2.2	523
22	Applications of Voltammetry in Lithium Ion Battery Research. Journal of Electrochemical Science and Technology, 2020, 11, 14-25.	2.2	166
23	Nanostructured Electrode Materials for Rechargeable Lithium-Ion Batteries. Journal of Electrochemical Science and Technology, 2020, 11, 195-219.	2.2	25
24	Highly Efficient Nanocarbon Coating Layer on the Nanostructured Copper Sulfide-Metal Organic Framework Derived Carbon for Advanced Sodium-Ion Battery Anode. Materials, 2019, 12, 1324.	2.9	21
25	Further utilization of a Mn redox reaction via control of structural disorder in olivine systems. Journal of Materials Chemistry A, 2018, 6, 13743-13750.	10.3	10
26	Crystal Waterâ€Assisted Additional Capacity for Nickel Hydroxide Anode Materials. Advanced Functional Materials, 0, , 2110828.	14.9	7