

Xudong Zhao

List of Publications by Year in descending order

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36
papers

3,605
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172457

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4970
citing authors

#	ARTICLE	IF	CITATIONS
1	S ^d -Doped N-Rich Carbon Nanosheets with Expanded Interlayer Distance as Anode Materials for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1604108.	21.0	566
2	Atomic Interface Engineering and Electric-Field Effect in Ultrathin Bi ₂ MoO ₆ Nanosheets for Superior Lithium Ion Storage. <i>Advanced Materials</i> , 2017, 29, 1700396.	21.0	343
3	A Ti-anchored Ti ₂ CO ₂ monolayer (MXene) as a single-atom catalyst for CO oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4871-4876.	10.3	242
4	Sandwich-Like Heterostructures of MoS ₂ /Graphene with Enlarged Interlayer Spacing and Enhanced Hydrophilicity as High-Performance Cathodes for Aqueous Zinc-Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2007480.	21.0	241
5	Ti ₂ CO ₂ MXene: a highly active and selective photocatalyst for CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12899-12903.	10.3	221
6	Computational Screening of 2D Materials and Rational Design of Heterojunctions for Water Splitting Photocatalysts. <i>Small Methods</i> , 2018, 2, 1700359.	8.6	151
7	A Novel NASICON-Type Na ₄ MnCr(PO ₄) ₃ Demonstrating the Energy Density Record of Phosphate Cathodes for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e1906348.	21.0	142
8	Computational studies on structural and electronic properties of functionalized MXene monolayers and nanotubes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4960-4966.	10.3	141
9	Molecular Engineering on MoS ₂ Enables Large Interlayers and Unlocked Basal Planes for High-Performance Aqueous Zn-Ion Storage. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20286-20293.	13.8	141
10	Two Birds with One Stone: Metal-Organic Framework Derived Micro-Nanostructured Ni ₂ P/Ni Hybrids Embedded in Porous Carbon for Electrocatalysis and Energy Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1901510.	14.9	140
11	Hierarchical Engineering of Porous P ₂ Na _{2/3} Ni _{1/3} Mn _{2/3} O ₂ Nanofibers Assembled by Nanoparticles Enables Superior Sodium-Ion Storage Cathodes. <i>Advanced Functional Materials</i> , 2020, 30, 1907837.	14.9	117
12	Regulating Uniform Li Plating/Stripping via Dual-Conductive Metal-Organic Frameworks for High-Rate Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2000786.	14.9	114
13	Prelithiated V ₂ C MXene: A High-Performance Electrode for Hybrid Magnesium/Lithium-Ion Batteries by Ion Cointercalation. <i>Small</i> , 2020, 16, e1906076.	10.0	105
14	Pursuit of a high-capacity and long-life Mg-storage cathode by tailoring sandwich-structured MXene@carbon nanosphere composites. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16712-16719.	10.3	81
15	An effective method to screen sodium-based layered materials for sodium ion batteries. <i>Npj Computational Materials</i> , 2018, 4, .	8.7	77
16	A three-dimensional interconnected V ₆ O ₁₃ nest with a V ⁵⁺ -rich state for ultrahigh Zn ion storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10370-10376.	10.3	77
17	Computational prediction of experimentally possible g-C ₃ N ₃ monolayer as hydrogen purification membrane. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 5037-5042.	7.1	76
18	Unexpected Role of the Interlayer "Dead Zn ²⁺ " in Strengthening the Nanostructures of VS ₂ Cathodes for High-Performance Aqueous Zn-Ion Storage. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	74

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19	Ab initio investigations on bulk and monolayer V_2O_5 as cathode materials for Li-, Na-, K- and Mg-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16606-16611.	10.3	70
20	Molecular Engineering on MoS_2 Enables Large Interlayers and Unlocked Basal Planes for High-Performance Aqueous Zn-ion Storage. <i>Angewandte Chemie</i> , 2021, 133, 20448-20455.	2.0	52
21	Transition-Metal Vacancy Manufacturing and Sodium-Site Doping Enable a High-Performance Layered Oxide Cathode through Cationic and Anionic Redox Chemistry. <i>Advanced Functional Materials</i> , 2021, 31, 2106923.	14.9	50
22	High Carrier Mobility and Pronounced Light Absorption in Methyl-Terminated Germanene: Insights from First-Principles Computations. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4252-4258.	4.6	47
23	Computational screening and first-principles investigations of NASICON-type $\text{Li}_x\text{M}_2(\text{PO}_4)_3$ as solid electrolytes for Li batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2625-2631.	10.3	46
24	Tetragonal-structured anisotropic 2D metal nitride monolayers and their halides with versatile promises in energy storage and conversion. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2870-2875.	10.3	42
25	First-principles computational studies on layered $\text{Na}_2\text{Mn}_3\text{O}_7$ as a high-rate cathode material for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12752-12756.	10.3	39
26	$\text{Cu}_3\text{P@Ni}$ core-shell heterostructure with modulated electronic structure for highly efficient hydrogen evolution. <i>Nano Research</i> , 2022, 15, 2935-2942.	10.4	35
27	Single-Crystal Fe_2O_3 with Engineered Exposed (001) Facet for High-Rate, Long-Cycle-Life Lithium-Ion Battery Anode. <i>Inorganic Chemistry</i> , 2019, 58, 12724-12732.	4.0	34
28	Unveiling the Complementary Manganese and Oxygen Redox Chemistry for Stabilizing the Sodium-ion Storage Behaviors of Layered Oxide Cathodes. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	34
29	Computational Screening of Layered Materials for Multivalent Ion Batteries. <i>ACS Omega</i> , 2019, 4, 7822-7828.	3.5	33
30	$\text{Cu}_3\text{P@CoO}$ core-shell heterostructure with synergistic effect for highly efficient hydrogen evolution. <i>Nanoscale</i> , 2021, 13, 19430-19437.	5.6	31
31	Computational study of catalytic effect of C_3N_4 on H_2 release from complex hydrides. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8897-8902.	7.1	13
32	K-ion intercalated V_6O_{13} with advanced high-rate long-cycle performance as cathode for Zn-ion batteries. <i>Journal of Materials Chemistry C</i> , 2022, 10, 590-597.	5.5	11
33	Boosting oxygen evolution reaction activity by tailoring MOF-derived hierarchical Co-Ni alloy nanoparticles encapsulated in nitrogen-doped carbon frameworks. <i>RSC Advances</i> , 2021, 11, 10874-10880.	3.6	9
34	Achieving the robust immobilization of CoP nanoparticles in cellulose nanofiber network-derived carbon <i>via</i> chemical bonding for a stable potassium ion storage. <i>RSC Advances</i> , 2020, 10, 44611-44623.	3.6	6
35	Batteries: Prelithiated V_2C MXene: A High-Performance Electrode for Hybrid Magnesium/Lithium-ion Batteries by Ion Cointercalation (<i>Small</i> 8/2020). <i>Small</i> , 2020, 16, 2070043.	10.0	3
36	Water Splitting: Computational Screening of 2D Materials and Rational Design of Heterojunctions for Water Splitting Photocatalysts (<i>Small Methods</i> 5/2018). <i>Small Methods</i> , 2018, 2, 1800031.	8.6	1