Zhengjing Zhao

List of Publications by Year
in descending order

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35 papers	907 citations	471509 17 h-index	477307 29 g-index
35 all docs	35 docs citations	35 times ranked	883 citing authors

#	Article	IF	Citations
1	Three Electron Reversible Redox Reaction in Sodium Vanadium Chromium Phosphate as a Highâ€Energyâ€Density Cathode for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2020, 30, 1908680.	14.9	85
2	Self-Assembling VO₂ Nanonet with High Switching Performance at Wafer-Scale. Chemistry of Materials, 2015, 27, 7419-7424.	6.7	58
3	Hydrothermal One-Step Synthesis of Highly Dispersed M-Phase VO₂ Nanocrystals and Application to Flexible Thermochromic Film. ACS Applied Materials & Interfaces, 2018, 10, 28627-28634.	8.0	56
4	Elevating Energy Density for Sodium-Ion Batteries through Multielectron Reactions. Nano Letters, 2021, 21, 2281-2287.	9.1	54
5	Evolution of Structural and Electrical Properties of Oxygen-Deficient VO₂ under Low Temperature Heating Process. ACS Applied Materials & Interfaces, 2017, 9, 27135-27141.	8.0	52
6	Triggering the Reversible Reaction of V³⁺/V⁴⁺/V⁵⁺ in Na₃V₂(PO₄)₃ by Cr³⁺ Substitution. ACS Applied Materials & Interfaces, 2020, 12, 50315-50323.	8.0	47
7	Neat Design for the Structure of Electrode To Optimize the Lithium-Ion Battery Performance. ACS Applied Materials & Interfaces, 2018, 10, 27106-27115.	8.0	40
8	Synthesis of NiO nanostructures and their catalytic activity in the thermal decomposition of ammonium perchlorate. CrystEngComm, 2016, 18, 4836-4843.	2.6	39
9	W Doping and Voltage Driven Metalâ€“Insulator Transition in VO₂ Nano-Films for Smart Switching Devices. ACS Applied Nano Materials, 2019, 2, 6738-6746.	5.0	36
10	The role of Fe dopants in phase stability and electric switching properties of Fe-doped VO2. Ceramics International, 2016, 42, 18764-18770.	4.8	34
11	Hydrothermal growth of VO2 nanoplate thermochromic films on glass with high visible transmittance. Scientific Reports, 2016, 6, 27898.	3.3	32
12	Snâ€“W Co-doping Improves Thermochromic Performance of VO₂ Films for Smart Windows. ACS Applied Energy Materials, 2020, 3, 9972-9979.	5.1	30
13	Surface Potential Regulation Realizing Stable Sodium/Na₃Zr₂Si₂PO₁₂ Interface for Roomâ€Temperature Sodium Metal Batteries. Small, 2021, 17, e2100974.	10.0	29
14	Grain Boundary Design of Solid Electrolyte Actualizing Stable Allâ€Solidâ€State Sodium Batteries. Small, 2021, 17, e2103819.	10.0	29
15	Size-Controllable M-Phase VO₂ Nanocrystals for Flexible Thermochromic Energy-Saving Windows. ACS Applied Nano Materials, 2021, 4, 6778-6785.	5.0	24
16	Solidâ€State Na Metal Batteries with Superior Cycling Stability Enabled by Ferroelectric Enhanced Na/Na₃Zr₂Si₂PO₁₂ Interface. Small, 2022, 18, e2200716.	10.0	24
17	Self-assembly process of China rose-like Î²-Co(OH)₂ and its topotactic conversion route to Co₃O₄ with optimizable catalytic performance. CrystEngComm, 2015, 17, 8248-8255.	2.6	22
18	Porous layer assembled hierarchical Co3O4 as anode materials for lithium-ion batteries. Journal of Materials Science, 2018, 53, 1356-1364.	3.7	18

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19	Influence of the charge compensation effect on the metalâ€“insulator transition of Mg-W co-doped VO2. Applied Surface Science, 2022, 579, 151990.	6.1	18
20	Optimizing the Na metal/solid electrolyte interface through a grain boundary design. Journal of Materials Chemistry A, 2022, 10, 5280-5286.	10.3	18
21	The synthesis of FeCoS₂ and an insight into its physicochemical performance. CrystEngComm, 2018, 20, 2175-2182.	2.6	17
22	Temperature dependent conductivity of Bi4Ti3O12 ceramics induced by Sr dopants. Journal of Advanced Ceramics, 2018, 7, 256-265.	17.4	16
23	Enhanced Fieldâ€Induced Strain in the Textured Leadâ€Free Ceramic. Journal of the American Ceramic Society, 2016, 99, 3985-3992.	3.8	15
24	The effect of the phase structure on physicochemical properties of TMO materials: a case of spinel to bunsenite. CrystEngComm, 2017, 19, 5809-5814.	2.6	15
25	Convenient Synthesis of WS₂â€“MoS₂ Heterostructures with Enhanced Photocatalytic Performance. Journal of Physical Chemistry C, 2019, 123, 27363-27368.	3.1	15
26	Effect of Fe/Ta doping on structural, dielectric, and electrical properties of Bi₄Ti_{2.5}Fe_{0.25}Ta_{0.25}O₁₂ ceramics. Journal of the American Ceramic Society, 2017, 100, 602-611.	3.8	14
27	Up-conversion luminescence behaviors in Er³⁺ doped single crystal KNbO₃ nanosheets. RSC Advances, 2016, 6, 113038-113044.	3.6	13
28	Hole Dopants Disentangling Peierlsâ€“Mott Relevance States of VO₂ by First-Principles Calculation. Journal of Physical Chemistry C, 2021, 125, 5816-5823.	3.1	13
29	Dualâ€Function of Cationâ€Doping to Activate Cationic and Anionic Redox in a Mnâ€Based Sodiumâ€Layered Oxide Cathode. Small, 2022, 18, e2200289.	10.0	10
30	Improved piezoelectric and strain performance of Na2B4O7-doped (Li,K,Na)NbO3 lead-free piezoceramics. Journal of Materials Science, 2019, 54, 1126-1135.	3.7	9
31	Coordination Number-Dependent Complete Oxidation of Methane on NiO Catalysts. ACS Catalysis, 2021, 11, 9837-9849.	11.2	9
32	First-principle calculation of electronic and optical properties of VO2 by GGA-1/2 quasiparticle approximation. Journal of Applied Physics, 2020, 128, .	2.5	6
33	Nearâ€Infrared Luminescent Ternary Ag₃SbS₃ Quantum Dots by in situ Conversion of Ag Nanocrystals with Sb(C₉H₁₉COOS)₃. Chemistry - A European Journal, 2018, 24, 18643-18647.	3.3	5
34	Vanadium-Substituted Formation of Anatase (V, Ti)O₂: Enhanced Electrochemical Performance for Lithium Ion Batteries. ACS Applied Energy Materials, 2019, 2, 598-606.	5.1	4
35	Thermodynamic modeling of elastic mismatch strain energy on epitaxial growth of GaInN thin films. Journal of Alloys and Compounds, 2019, 798, 112-118.	5.5	1