

# Zhengjing Zhao

## List of Publications by Year in descending order

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papers

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docs citations

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times ranked

883  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of the charge compensation effect on the metal-insulator transition of Mg-W co-doped VO <sub>2</sub> . Applied Surface Science, 2022, 579, 151990.	6.1	18
2	Optimizing the Na metal/solid electrolyte interface through a grain boundary design. Journal of Materials Chemistry A, 2022, 10, 5280-5286.	10.3	18
3	Solid-State Na Metal Batteries with Superior Cycling Stability Enabled by Ferroelectric Enhanced Na/Na <sub>3</sub> Zr <sub>2</sub> Si <sub>2</sub> PO <sub>12</sub> Interface. Small, 2022, 18, e2200716.	10.0	24
4	Dual-Function of Cation-Doping to Activate Cationic and Anionic Redox in a Mn-Based Sodium-Layered Oxide Cathode. Small, 2022, 18, e2200289.	10.0	10
5	Elevating Energy Density for Sodium-Ion Batteries through Multielectron Reactions. Nano Letters, 2021, 21, 2281-2287.	9.1	54
6	Hole Dopants Disentangling Peierls-Mott Relevance States of VO <sub>2</sub> by First-Principles Calculation. Journal of Physical Chemistry C, 2021, 125, 5816-5823.	3.1	13
7	Surface Potential Regulation Realizing Stable Sodium/Na <sub>3</sub> Zr <sub>2</sub> Si <sub>2</sub> PO <sub>12</sub> Interface for Room-Temperature Sodium Metal Batteries. Small, 2021, 17, e2100974.	10.0	29
8	Size-Controllable M-Phase VO <sub>2</sub> Nanocrystals for Flexible Thermochromic Energy-Saving Windows. ACS Applied Nano Materials, 2021, 4, 6778-6785.	5.0	24
9	Coordination Number-Dependent Complete Oxidation of Methane on NiO Catalysts. ACS Catalysis, 2021, 11, 9837-9849.	11.2	9
10	Grain Boundary Design of Solid Electrolyte Actualizing Stable All-Solid-State Sodium Batteries. Small, 2021, 17, e2103819.	10.0	29
11	Triggering the Reversible Reaction of V <sup>3+</sup> /V <sup>4+</sup> /V <sup>5+</sup> in Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> by Cr <sup>3+</sup> Substitution. ACS Applied Materials & Interfaces, 2020, 12, 50315-50323.	8.0	47
12	Sn-W Co-doping Improves Thermochromic Performance of VO <sub>2</sub> Films for Smart Windows. ACS Applied Energy Materials, 2020, 3, 9972-9979.	5.1	30
13	Three Electron Reversible Redox Reaction in Sodium Vanadium Chromium Phosphate as a High-Energy-Density Cathode for Sodium-Ion Batteries. Advanced Functional Materials, 2020, 30, 1908680.	14.9	85
14	First-principle calculation of electronic and optical properties of VO <sub>2</sub> by GGA-1/2 quasiparticle approximation. Journal of Applied Physics, 2020, 128, .	2.5	6
15	Convenient Synthesis of WS <sub>2</sub> -MoS <sub>2</sub> Heterostructures with Enhanced Photocatalytic Performance. Journal of Physical Chemistry C, 2019, 123, 27363-27368.	3.1	15
16	W Doping and Voltage Driven Metal-Insulator Transition in VO <sub>2</sub> Nano-Films for Smart Switching Devices. ACS Applied Nano Materials, 2019, 2, 6738-6746.	5.0	36
17	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
18	Vanadium-Substituted Formation of Anatase (V, Ti)O <sub>2</sub> : Enhanced Electrochemical Performance for Lithium Ion Batteries. ACS Applied Energy Materials, 2019, 2, 598-606.	5.1	4

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19	Improved piezoelectric and strain performance of Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> -doped (Li,K,Na)NbO <sub>3</sub> lead-free piezoceramics. <i>Journal of Materials Science</i> , 2019, 54, 1126-1135.	3.7	9
20	The synthesis of FeCoS <sub>2</sub> and an insight into its physicochemical performance. <i>CrystEngComm</i> , 2018, 20, 2175-2182.	2.6	17
21	Porous layer assembled hierarchical Co <sub>3</sub> O <sub>4</sub> as anode materials for lithium-ion batteries. <i>Journal of Materials Science</i> , 2018, 53, 1356-1364.	3.7	18
22	Temperature dependent conductivity of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> ceramics induced by Sr dopants. <i>Journal of Advanced Ceramics</i> , 2018, 7, 256-265.	17.4	16
23	Near-Infrared Luminescent Ternary Ag <sub>3</sub> Sb <sub>3</sub> Quantum Dots by in situ Conversion of Ag Nanocrystals with Sb(C <sub>9</sub> H <sub>19</sub> COO) <sub>3</sub> . <i>Chemistry - A European Journal</i> , 2018, 24, 18643-18647.	3.3	5
24	Neat Design for the Structure of Electrode To Optimize the Lithium-Ion Battery Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 27106-27115.	8.0	40
25	Hydrothermal One-Step Synthesis of Highly Dispersed M-Phase VO <sub>2</sub> Nanocrystals and Application to Flexible Thermochromic Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28627-28634.	8.0	56
26	The effect of the phase structure on physicochemical properties of TMO materials: a case of spinel to bunsenite. <i>CrystEngComm</i> , 2017, 19, 5809-5814.	2.6	15
27	Evolution of Structural and Electrical Properties of Oxygen-Deficient VO <sub>2</sub> under Low Temperature Heating Process. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 27135-27141.	8.0	52
28	Effect of Fe/Ta doping on structural, dielectric, and electrical properties of Bi <sub>4</sub> Ti <sub>2.5</sub> Fe <sub>0.25</sub> Ta <sub>0.25</sub> O <sub>12</sub> ceramics. <i>Journal of the American Ceramic Society</i> , 2017, 100, 602-611.	3.8	14
29	Up-conversion luminescence behaviors in Er <sup>3+</sup> doped single crystal KNbO <sub>3</sub> nanosheets. <i>RSC Advances</i> , 2016, 6, 113038-113044.	3.6	13
30	Synthesis of NiO nanostructures and their catalytic activity in the thermal decomposition of ammonium perchlorate. <i>CrystEngComm</i> , 2016, 18, 4836-4843.	2.6	39
31	The role of Fe dopants in phase stability and electric switching properties of Fe-doped VO <sub>2</sub> . <i>Ceramics International</i> , 2016, 42, 18764-18770.	4.8	34
32	Enhanced Field-Induced Strain in the Textured Lead-Free Ceramic. <i>Journal of the American Ceramic Society</i> , 2016, 99, 3985-3992.	3.8	15
33	Hydrothermal growth of VO <sub>2</sub> nanoplate thermochromic films on glass with high visible transmittance. <i>Scientific Reports</i> , 2016, 6, 27898.	3.3	32
34	Self-Assembling VO <sub>2</sub> Nanonet with High Switching Performance at Wafer-Scale. <i>Chemistry of Materials</i> , 2015, 27, 7419-7424.	6.7	58
35	Self-assembly process of China rose-like $\beta$ -Co(OH) <sub>2</sub> and its topotactic conversion route to Co <sub>3</sub> O <sub>4</sub> with optimizable catalytic performance. <i>CrystEngComm</i> , 2015, 17, 8248-8255.	2.6	22