

Zhao Qian

List of Publications by Year in descending order

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45
papers

1,482
citations

377584

21
h-index

355658

38
g-index

45
all docs

45
docs citations

45
times ranked

2128
citing authors

#	ARTICLE	IF	CITATIONS
1	Voltage-Modulated Structure Stress for Enhanced Electrochemical Performances: The Case of $\frac{1}{4}$ -Sn in Sodium-Ion Batteries. <i>Nano Letters</i> , 2021, 21, 3588-3595.	4.5	38
2	Bifunctional Catalytic Activity Guided by Rich Crystal Defects in Ti_3C_2 MXene Quantum Dot Clusters for Li-O_2 Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003069.	10.2	52
3	Nitrogen-Containing Gas Sensing Properties of 2-D Ti_2N and Its Derivative Nanosheets: Electronic Structures Insight. <i>Nanomaterials</i> , 2021, 11, 2459.	1.9	5
4	Eu^{2+} ions as an antioxidant additive for Sn-based perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12079-12085.	2.7	18
5	Reduced bandgap and enhanced <i>p</i> -type electrical conduction in Ag-alloyed Cu_2O thin films. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	3
6	Controllable Phosphorylation Strategy for Free-Standing Phosphorus/Nitrogen Cofunctionalized Porous Carbon Monoliths as High-Performance Potassium Ion Battery Anodes. <i>ACS Nano</i> , 2020, 14, 14057-14069.	7.3	67
7	Poisonous Vapor Adsorption on Pure and Modified Aluminum Nitride Nanosheet for Environmental Safety: A DFT Exploration. <i>Sustainability</i> , 2020, 12, 10097.	1.6	3
8	First-principles calculations into $\text{LiAl}(\text{NH}_2)_4$ and its derivative hydrides for potential sodium storage. <i>Results in Physics</i> , 2020, 19, 103408.	2.0	2
9	First-Principles Exploration of Hazardous Gas Molecule Adsorption on Pure and Modified $\text{Al}_6\text{O}_6\text{N}_6$ Nanoclusters. <i>Nanomaterials</i> , 2020, 10, 2156.	1.9	2
10	Defective and doped aluminum nitride monolayers for NO adsorption: Physical insight. <i>Chemical Physics Letters</i> , 2020, 753, 137592.	1.2	11
11	Cobalt(II) Tetraaminophthalocyanine-modified Multiwall Carbon Nanotubes as an Efficient Sulfur Redox Catalyst for Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2020, 13, 3034-3044.	3.6	27
12	Atomically dispersed cobalt catalyst anchored on nitrogen-doped carbon nanosheets for lithium-oxygen batteries. <i>Nature Communications</i> , 2020, 11, 1576.	5.8	237
13	Sodium Carboxymethyl Cellulose as an Effective Modifier for Boosting the Electrochemical Performance of Commercial TiO_2 . <i>Energy Technology</i> , 2020, 8, 1901253.	1.8	1
14	Molecular-level heterostructures assembled from layered black phosphorene and Ti_3C_2 MXene as superior anodes for high-performance sodium ion batteries. <i>Nano Energy</i> , 2019, 65, 104037.	8.2	143
15	Ab Initio Screening of Doped $\text{Mg}(\text{AlH}_4)_2$ Systems for Conversion-Type Lithium Storage. <i>Materials</i> , 2019, 12, 2599.	1.3	5
16	Theoretical prediction of a novel aluminum nitride nanostructure: Atomistic exposure. <i>Ceramics International</i> , 2019, 45, 23690-23693.	2.3	3
17	Structural Evolution of AlN Nanoclusters and the Elemental Chemisorption Characteristics: Atomistic Insight. <i>Nanomaterials</i> , 2019, 9, 1420.	1.9	4
18	Atomistic Modeling of Various Doped Mg_2NiH_4 as Conversion Electrode Materials for Lithium Storage. <i>Crystals</i> , 2019, 9, 254.	1.0	5

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19	Effective enhancement in rate capability and cyclability of Li ₄ Ti ₅ O ₁₂ enabled by coating lithium magnesium silicate. <i>Electrochimica Acta</i> , 2019, 295, 891-899.	2.6	25
20	The in-situ synthesis and strengthening mechanism of the multi-scale SiC particles in Al-Si-C alloys. <i>Journal of Alloys and Compounds</i> , 2018, 750, 935-944.	2.8	22
21	First-principles investigation of CO adsorption on pristine, C-doped and N-vacancy defected hexagonal AlN nanosheets. <i>Applied Surface Science</i> , 2018, 439, 196-201.	3.1	47
22	Co@C/CoO _x coupled with N-doped layer-structured carbons for excellent CO ₂ capture and oxygen reduction reaction. <i>Carbon</i> , 2018, 133, 306-315.	5.4	34
23	Exploring pristine and Li-doped Mg ₂ NiH ₄ compounds with potential lithium-storage properties: Ab initio insight. <i>Journal of Alloys and Compounds</i> , 2018, 746, 140-146.	2.8	8
24	The grain refinement performance of B-doped TiC on Zr-containing Al alloys. <i>Journal of Alloys and Compounds</i> , 2018, 731, 774-783.	2.8	22
25	Bread-making synthesis of hierarchically Co@C nanoarchitecture in heteroatom doped porous carbons for oxidative degradation of emerging contaminants. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 76-83.	10.8	194
26	Effect of defects on adsorption characteristics of AlN monolayer towards SO ₂ and NO ₂ : Ab initio exposure. <i>Applied Surface Science</i> , 2018, 462, 615-622.	3.1	42
27	Morphological transformation mechanism of eutectic Si phases in Al-Si alloys by nano-AlNp. <i>Journal of Alloys and Compounds</i> , 2018, 765, 113-120.	2.8	22
28	Ab initio insight into graphene nanofibers to destabilize hydrazine borane for hydrogen release. <i>Chemical Physics Letters</i> , 2017, 669, 110-114.	1.2	3
29	Revisiting Mg-Mg ₂ Ni System from Electronic Perspective. <i>Metals</i> , 2017, 7, 489.	1.0	5
30	Unveiling the Semicohherent Interface with Definite Orientation Relationships between Reinforcements and Matrix in Novel Al ₃ BC/Al Composites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28194-28201.	4.0	53
31	Influences of Fe, Si and homogenization on electrical conductivity and mechanical properties of dilute Al-Mg-Si alloy. <i>Journal of Alloys and Compounds</i> , 2016, 666, 50-57.	2.8	51
32	Identification of novel dual-scale Al ₃ BC particles in Al based composites. <i>Materials and Design</i> , 2016, 93, 283-290.	3.3	42
33	Generation and evolution of nanoscale AlP and Al ₁₃ Fe ₄ particles in Al-Fe-P system. <i>Journal of Alloys and Compounds</i> , 2015, 622, 662-668.	2.8	10
34	The synergistic effect of Al-B-C master alloy to improve conductivity and strength of 1070 alloy. <i>Journal of Alloys and Compounds</i> , 2015, 639, 478-482.	2.8	19
35	Optimizing microstructures of dilute Al-Fe-Si alloys designed with enhanced electrical conductivity and tensile strength. <i>Journal of Alloys and Compounds</i> , 2015, 650, 768-776.	2.8	44
36	Screening study of light-metal and transition-metal-doped NiTiH hydrides as Li-ion battery anode materials. <i>Solid State Ionics</i> , 2014, 258, 88-91.	1.3	9

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37	Energetic and structural analysis of N ₂ H ₄ BH ₃ inorganic solid and its modified material for hydrogen storage. International Journal of Hydrogen Energy, 2013, 38, 6718-6725.	3.8	7
38	Metal-decorated graphene oxide for ammonia adsorption. Europhysics Letters, 2013, 103, 28007.	0.7	17
39	Lithium storage in amorphous TiNi hydride: Electrode for rechargeable lithium-ion batteries. Materials Chemistry and Physics, 2013, 141, 348-354.	2.0	15
40	Pure and Li-doped NiTiH: Potential anode materials for Li-ion rechargeable batteries. Applied Physics Letters, 2013, 103, 033902.	1.5	11
41	C ₆₀ -mediated hydrogen desorption in Li-N-H systems. Nanotechnology, 2012, 23, 485406.	1.3	5
42	Oxygen- and nitrogen-chemisorbed carbon nanostructures for Z-scheme photocatalysis applications. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	8
43	Excellent Catalytic Effects of Graphene Nanofibers on Hydrogen Release of Sodium alanate. Journal of Physical Chemistry C, 2012, 116, 10861-10866.	1.5	33
44	Effect of co-addition of RE, Fe and Mn on the microstructure and performance of A390 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 527, 146-149.	2.6	27
45	Effects of trace Mn addition on the elevated temperature tensile strength and microstructure of a low-iron Al-Si piston alloy. Materials Letters, 2008, 62, 2146-2149.	1.3	81