Wang Zhenyu

List of Publications by Year
in descending order

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Version: 2024-02-01

28 papers	919 citations	430874 18 h-index	580821 25 g-index
30 all docs	30 docs citations	30 times ranked	1288 citing authors

#	Article	IF	Citations
1	Porous Co2VO4 Nanodisk as a High-Energy and Fast-Charging Anode for Lithium-Ion Batteries. Nano-Micro Letters, 2022, 14, 5.	27.0	93
2	Current Characteristic Values Estimation for Losses Calculation of Inductor in Dual Active Bridge. , 2022, , .		1
3	Anchoring silicon on the basal plane of graphite via a three-phase heterostructure for highly reversible lithium storage. Energy Storage Materials, 2021, 34, 311-319.	18.0	65
4	PEDOT-Coated Red Phosphorus Nanosphere Anodes for Pseudocapacitive Potassium-Ion Storage. Nanomaterials, 2021, 11, 1732.	4.1	5
5	Cross structured two-dimensional violet phosphorene with extremely high deformation resistance. Journal of Materials Chemistry A, 2021, 9, 13855-13860.	10.3	31
6	Coreâ€“Shell Co₂VO₄/Carbon Composite Anode for Highly Stable and Fast-Charging Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 55020-55028.	8.0	65
7	Degradation of 4H-SiC MOSFET body diode under repetitive surge current stress. , 2020, , .		6
8	Cu-In2S3 nanorod induced the growth of Cu&In co-doped multi-arm CdS hetero-phase junction to promote photocatalytic H2 evolution. Chemical Engineering Journal, 2020, 399, 125785.	12.7	50
9	Work function and band alignment of few-layer violet phosphorene. Journal of Materials Chemistry A, 2020, 8, 8586-8592.	10.3	43
10	An ultrathin Al₂O₃ bridging layer between CdS and ZnO boosts photocatalytic hydrogen production. Journal of Materials Chemistry A, 2020, 8, 11031-11042.	10.3	49
11	Chemisorption of NO₂ to MoS₂ Nanostructures and its Effects for MoS₂ Sensors. ChemNanoMat, 2019, 5, 1123-1130.	2.8	41
12	Classification of MAOX phases and semiconductor screening for next-generation energy conversion ceramic materials. Journal of Materials Chemistry C, 2019, 7, 6895-6899.	5.5	1
13	Two-dimensional eclipsed arrangement hybrid perovskites for tunable energy level alignments and photovoltaics. Journal of Materials Chemistry C, 2019, 7, 5139-5147.	5.5	22
14	Charge-redistribution-induced new active sites on (0â€¯0â€¯1) facets of Î±-Mn2O3 for significantly enhanced selective catalytic reduction of NO by NH3. Journal of Catalysis, 2019, 370, 30-37.	6.2	54
15	Hierarchical Sb2MoO6 microspheres for high-performance sodium-ion battery anode. Energy Storage Materials, 2019, 17, 101-110.	18.0	32
16	First-principles insights into tin-based two-dimensional hybrid halide perovskites for photovoltaics. Journal of Materials Chemistry A, 2018, 6, 5652-5660.	10.3	71
17	Lithiumâ€“Air Batteries: TiC MXene High Energy Density Cathode for Lithiumâ€“Air Battery (Adv. Theory) Tj ETQq1 1 0.784314 rgBT /Ov	2.8	0
18	TiC MXene High Energy Density Cathode for Lithiumâ€“Air Battery. Advanced Theory and Simulations, 2018, 1, 1800059.	2.8	21

#	Article	IF	Citations
19	Formation mechanism of rectangular-ambulatory-plane TiO₂ plates: an insight into the role of hydrofluoric acid. Chemical Communications, 2018, 54, 7191-7194.	4.1	15
20	Layered Hexagonal Oxycarbides, Mn+1AO2Xn (M = Sc, Y, La, Cr, and Mo; A = Ca; X = C): Unexpected Photovoltaic Ceramics. Journal of Physical Chemistry C, 2018, 122, 14240-14247.	3.1	3
21	New Insights into the Electronic Structure and Photoelectrochemical Properties of Nitrogen-Doped HNb3O8 via a Combined in Situ Experimental and DFT Investigation. ACS Applied Materials & Interfaces, 2017, 9, 42751-42760.	8.0	7
22	Synthesis of Hierarchical Sb₂MoO₆ Architectures and Their Electrochemical Behaviors as Anode Materials for Li-Ion Batteries. Inorganic Chemistry, 2016, 55, 7012-7019.	4.0	35
23	Room-temperature synthesis of colloidal SnO2 quantum dot solution and ex-situ deposition on carbon nanotubes as anode materials for lithium ion batteries. Journal of Alloys and Compounds, 2016, 680, 109-115.	5.5	68
24	CdS quantum dots modified N-doped titania plates for the photocatalytic mineralization of diclofenac in water under visible light irradiation. Journal of Molecular Catalysis A, 2015, 399, 79-85.	4.8	27
25	Carbon nanotube hybrids with MoS2 and WS2 synthesized with control of crystal structure and morphology. Carbon, 2015, 85, 168-175.	10.3	38
26	Adsorption and Deposition of Li₂O₂ on the Pristine and Oxidized TiC Surface by First-principles Calculation. Journal of Physical Chemistry C, 2015, 119, 25684-25695.	3.1	32
27	Carbon-doped titania flakes with an octahedral bipyramid skeleton structure for the visible-light photocatalytic mineralization of ciprofloxacin. RSC Advances, 2015, 5, 98361-98365.	3.6	14
28	Adsorption and Deposition of Li₂O₂ on TiC{111} Surface. Journal of Physical Chemistry Letters, 2014, 5, 3919-3923.	4.6	30