

Weihong Qi

List of Publications by Year in descending order

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papers

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citations

471509

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454955

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44
all docs

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docs citations

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times ranked

1539
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscopic Thermodynamics. <i>Accounts of Chemical Research</i> , 2016, 49, 1587-1595.	15.6	118
2	Monoclinic Tungsten Oxide with {100} Facet Orientation and Tuned Electronic Band Structure for Enhanced Photocatalytic Oxidations. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10367-10374.	8.0	106
3	Hybrids of PtRu Nanoclusters and Black Phosphorus Nanosheets for Highly Efficient Alkaline Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2019, 9, 10870-10875.	11.2	86
4	Electronic Properties of van der Waals Heterostructure of Black Phosphorus and MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 7027-7032.	3.1	82
5	Interlayer friction and superlubricity in bilayer graphene and MoS ₂ /MoSe ₂ van der Waals heterostructures. <i>Tribology International</i> , 2020, 151, 106483.	5.9	49
6	Ultrafast fabrication of Cu oxide micro/nano-structures via laser ablation to promote oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2020, 383, 123086.	12.7	42
7	Hydrothermal Synthesis of Ultrasmall Pt Nanoparticles as Highly Active Electrocatalysts for Methanol Oxidation. <i>Nanomaterials</i> , 2015, 5, 2203-2211.	4.1	36
8	Moiré Pattern-Tuned Electronic Structures of van der Waals Heterostructures. <i>Advanced Functional Materials</i> , 2020, 30, 2002672.	14.9	31
9	Rapid Fabrication of Ni/NiO@CoFe Layered Double Hydroxide Hierarchical Nanostructures by Femtosecond Laser Ablation and Electrodeposition for Efficient Overall Water Splitting. <i>ChemSusChem</i> , 2019, 12, 2773-2779.	6.8	29
10	Cobalt hydroxide-black phosphorus nanosheets: A superior electrocatalyst for electrochemical oxygen evolution. <i>Electrochimica Acta</i> , 2019, 297, 40-45.	5.2	27
11	Gibbs Free Energy and Size-Temperature Phase Diagram of Hafnium Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10365-10369.	3.1	26
12	Synthesis of Cu ₂ O Nanotubes with Efficient Photocatalytic Activity by Electrochemical Corrosion Method. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22066-22071.	3.1	26
13	Coating strategies for atomic layer deposition. <i>Nanotechnology Reviews</i> , 2017, 6, 527-547.	5.8	24
14	Structure engineering of Ni ₂ P by Mo doping for robust electrocatalytic water and methanol oxidation reactions. <i>Electrochimica Acta</i> , 2021, 369, 137692.	5.2	20
15	Hierarchical CoFe oxyhydroxides nanosheets and Co ₂ P nanoparticles grown on Ni foam for overall water splitting. <i>Electrochimica Acta</i> , 2020, 360, 136994.	5.2	19
16	Promoting the Water-Reduction Kinetics and Alkali Tolerance of MoNi ₄ Nanocrystals via a Mo ₂ TiC ₂ T _x Induced Built-In Electric Field. <i>Small</i> , 2022, 18, e2107541.	10.0	19
17	Size effect on order-disorder transition kinetics of FePt nanoparticles. <i>Journal of Chemical Physics</i> , 2014, 140, 044328.	3.0	18
18	Synthesis of Marks-Decahedral Pd Nanoparticles in Aqueous Solutions. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 851-856.	2.3	17

#	ARTICLE	IF	CITATIONS
19	Tuning the electronic properties of van der Waals heterostructures composed of black phosphorus and graphitic SiC. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29333-29340.	2.8	17
20	Investigation of disclinations in Marks decahedral Pd nanoparticles by aberration-corrected HRTEM. <i>Materials Letters</i> , 2015, 152, 283-286.	2.6	15
21	Temperature-dependent Raman spectra and thermal conductivity of multi-walled MoS ₂ nanotubes. <i>Applied Physics Letters</i> , 2017, 111, 123102.	3.3	15
22	Superlubricity in bilayer isomeric tellurene and graphene/tellurene van der Waals heterostructures. <i>Tribology International</i> , 2021, 159, 106974.	5.9	15
23	Composition-controlled synthesis of platinum and palladium nanoalloys as highly active electrocatalysts for methanol oxidation. <i>Chinese Journal of Catalysis</i> , 2018, 39, 342-349.	14.0	13
24	Co(OH) ₂ Nanosheets Supported on Laser Ablated Cu Foam: An Efficient Oxygen Evolution Reaction Electrocatalyst. <i>Frontiers in Chemistry</i> , 2019, 7, 900.	3.6	12
25	Size dependent structural stability of Mo, Ru, Y and Sc nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 108, 1-8.	4.0	11
26	Optical properties of ZnO/Black Phosphorus/ZnO sandwich structures. <i>Physica B: Condensed Matter</i> , 2020, 579, 411903.	2.7	11
27	High-Throughput Calculation of Interlayer van der Waals Forces Validated with Experimental Measurements. <i>Research</i> , 2022, 2022, 9765121.	5.7	10
28	Debye temperature for binary alloys and its relationship with cohesive energy. <i>Physica B: Condensed Matter</i> , 2018, 531, 95-101.	2.7	9
29	One-pot synthesis of CuPt nanodendrites with enhanced activity towards methanol oxidation reaction. <i>RSC Advances</i> , 2018, 8, 9293-9298.	3.6	8
30	Nonlinear optical modulation of MoS ₂ /black phosphorus/MoS ₂ at 1550Ånm. <i>Physica B: Condensed Matter</i> , 2020, 594, 412364.	2.7	8
31	Unification of Two Different Melting Mechanisms of Nanovoids. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6843-6851.	3.1	7
32	Thermal conductivity of single-wall MoS ₂ nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	7
33	Facial Synthesis of 1T Phase MoS ₂ Nanoflowers via Anion Exchange Method for Efficient Hydrogen Evolution. <i>ChemistrySelect</i> , 2019, 4, 2070-2074.	1.5	7
34	Fast and Deep Reconstruction of Coprecipitated Fe Phosphates on Nickel Foams for an Alkaline Oxygen Evolution Reaction. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1446-1452.	4.6	7
35	Structural stability of alloyed and core-shell Cu-Pt bimetallic nanoparticles. <i>International Journal of Modern Physics B</i> , 2017, 31, 1741012.	2.0	6
36	Large Marks-decahedral Pd nanoparticles synthesized by a modified hydrothermal method using a homogeneous reactor. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	5

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37	Facile Synthesis of Ag@Pt Core-Shell Nanoparticles with Different Dendrites Pt Shells. ChemistrySelect, 2017, 2, 9344-9348.	1.5	4
38	Tunable electronic structure and CO2 adsorption of hb-Sb/graphene van der Waals heterostructure. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 139, 115154.	2.7	4
39	Facile Surface Laser Modification of Nickel Foams for Efficient Water Oxidation Electrocatalysis. ChemElectroChem, 2021, 8, 2124-2128.	3.4	2
40	Tuning the electronic structure and optical properties of $\hat{1}^2$ -Te/g-SiC and $\hat{1}^2$ -Te/MoS2 van der Waals heterostructure. Materials Chemistry and Physics, 2021, 273, 125026.	4.0	2
41	Interlayer Friction in Graphene/MoS2, Graphene/NbSe2, Tellurene/MoS2 and Tellurene/NbSe2 van der Waals Heterostructures. Frontiers in Mechanical Engineering, 2022, 8, .	1.8	2
42	First-principles study of the contact resistance and optoelectronic properties of PdSe2/MoTe2 van der Waals heterostructure optoelectronic devices. Chinese Journal of Physics, 2022, 78, 57-71.	3.9	2
43	Controllable Synthesis of Marks Decahedral Pd Nanoparticles via Etching. Journal of Nanoscience and Nanotechnology, 2018, 18, 8276-8281.	0.9	1
44	Thermal stability of marks gold nanoparticles: A molecular dynamics simulation. International Journal of Modern Physics B, 2017, 31, 1741001.	2.0	0