

# Weihong Qi

## List of Publications by Year in descending order

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44  
papers

975  
citations

471371

17  
h-index

454834

30  
g-index

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44  
docs citations

44  
times ranked

1539  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable electronic structure and CO <sub>2</sub> adsorption of hb-Sb/graphene van der Waals heterostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 139, 115154.	1.3	4
2	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.	2.1	7
3	High-Throughput Calculation of Interlayer van der Waals Forces Validated with Experimental Measurements. <i>Research</i> , 2022, 2022, 9765121.	2.8	10
4	Promoting the Waterâ€Reduction Kinetics and Alkali Tolerance of MoNi <sub>4</sub> Nanocrystals via a Mo <sub>2</sub> TiC <sub>2</sub> Ti <sub>x</sub> Induced Builtâ€n Electric Field. <i>Small</i> , 2022, 18, e2107541.	5.2	19
5	Interlayer Friction in Graphene/MoS <sub>2</sub> , Graphene/NbSe <sub>2</sub> , Tellurene/MoS <sub>2</sub> and Tellurene/NbSe <sub>2</sub> van der Waals Heterostructures. <i>Frontiers in Mechanical Engineering</i> , 2022, 8, .	0.8	2
6	First-principles study of the contact resistance and optoelectronic properties of PdSe <sub>2</sub> /MoTe <sub>2</sub> van der Waals heterostructure optoelectronic devices. <i>Chinese Journal of Physics</i> , 2022, 78, 57-71.	2.0	2
7	Structure engineering of Ni <sub>2</sub> P by Mo doping for robust electrocatalytic water and methanol oxidation reactions. <i>Electrochimica Acta</i> , 2021, 369, 137692.	2.6	20
8	Facile Surface Laser Modification of Nickel Foams for Efficient Water Oxidation Electrocatalysis. <i>ChemElectroChem</i> , 2021, 8, 2124-2128.	1.7	2
9	Superlubricity in bilayer isomeric tellurene and graphene/tellurene van der Waals heterostructures. <i>Tribology International</i> , 2021, 159, 106974.	3.0	15
10	Tuning the electronic structure and optical properties of Î <sup>2</sup> -Te/g-SiC and Î <sup>2</sup> -Te/MoS <sub>2</sub> van der Waals heterostructure. <i>Materials Chemistry and Physics</i> , 2021, 273, 125026.	2.0	2
11	Ultrafast fabrication of Cu oxide micro/nano-structures via laser ablation to promote oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2020, 383, 123086.	6.6	42
12	Optical properties of ZnO/Black Phosphorus/ZnO sandwich structures. <i>Physica B: Condensed Matter</i> , 2020, 579, 411903.	1.3	11
13	Nonlinear optical modulation of MoS <sub>2</sub> /black phosphorus/MoS <sub>2</sub> at 1550Ånm. <i>Physica B: Condensed Matter</i> , 2020, 594, 412364.	1.3	8
14	Hierarchical CoFe oxyhydroxides nanosheets and Co <sub>2</sub> P nanoparticles grown on Ni foam for overall water splitting. <i>Electrochimica Acta</i> , 2020, 360, 136994.	2.6	19
15	Interlayer friction and superlubricity in bilayer graphene and MoS <sub>2</sub> /MoSe <sub>2</sub> van der Waals heterostructures. <i>Tribology International</i> , 2020, 151, 106483.	3.0	49
16	Moirâ€Patternâ€Tuned Electronic Structures of van der Waals Heterostructures. <i>Advanced Functional Materials</i> , 2020, 30, 2002672.	7.8	31
17	Hybrids of PtRu Nanoclusters and Black Phosphorus Nanosheets for Highly Efficient Alkaline Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2019, 9, 10870-10875.	5.5	86
18	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.	3.6	29

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19	Facial Synthesis of 1T Phase MoS <sub>2</sub> Nanoflowers via Anion Exchange Method for Efficient Hydrogen Evolution. <i>ChemistrySelect</i> , 2019, 4, 2070-2074.	0.7	7
20	Cobalt hydroxide-black phosphorus nanosheets: A superior electrocatalyst for electrochemical oxygen evolution. <i>Electrochimica Acta</i> , 2019, 297, 40-45.	2.6	27
21	Co(OH) <sub>2</sub> Nanosheets Supported on Laser Ablated Cu Foam: An Efficient Oxygen Evolution Reaction Electrocatalyst. <i>Frontiers in Chemistry</i> , 2019, 7, 900.	1.8	12
22	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.	6.9	13
23	Thermal conductivity of single-wall MoS <sub>2</sub> nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	7
24	One-pot synthesis of CuPt nanodendrites with enhanced activity towards methanol oxidation reaction. <i>RSC Advances</i> , 2018, 8, 9293-9298.	1.7	8
25	Electronic Properties of van der Waals Heterostructure of Black Phosphorus and MoS <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2018, 122, 7027-7032.	1.5	82
26	Debye temperature for binary alloys and its relationship with cohesive energy. <i>Physica B: Condensed Matter</i> , 2018, 531, 95-101.	1.3	9
27	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.	1.3	17
28	Controllable Synthesis of Marks Decahedral Pd Nanoparticles via Etching. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 8276-8281.	0.9	1
29	Structural stability of alloyed and core-shell Cu-Pt bimetallic nanoparticles. <i>International Journal of Modern Physics B</i> , 2017, 31, 1741012.	1.0	6
30	Size dependent structural stability of Mo, Ru, Y and Sc nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 108, 1-8.	1.9	11
31	Temperature-dependent Raman spectra and thermal conductivity of multi-walled MoS <sub>2</sub> nanotubes. <i>Applied Physics Letters</i> , 2017, 111, 123102.	1.5	15
32	Facile Synthesis of Ag@Pt Core-Shell Nanoparticles with Different Dendrites Pt Shells. <i>ChemistrySelect</i> , 2017, 2, 9344-9348.	0.7	4
33	Coating strategies for atomic layer deposition. <i>Nanotechnology Reviews</i> , 2017, 6, 527-547.	2.6	24
34	Large Marks-decahedral Pd nanoparticles synthesized by a modified hydrothermal method using a homogeneous reactor. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	5
35	Thermal stability of marks gold nanoparticles: A molecular dynamics simulation. <i>International Journal of Modern Physics B</i> , 2017, 31, 1741001.	1.0	0
36	Monoclinic Tungsten Oxide with {100} Facet Orientation and Tuned Electronic Band Structure for Enhanced Photocatalytic Oxidations. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 10367-10374.	4.0	106

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37	Nanosopic Thermodynamics. <i>Accounts of Chemical Research</i> , 2016, 49, 1587-1595.	7.6	118
38	Hydrothermal Synthesis of Ultrasmall Pt Nanoparticles as Highly Active Electrocatalysts for Methanol Oxidation. <i>Nanomaterials</i> , 2015, 5, 2203-2211.	1.9	36
39	Investigation of disclinations in Marks decahedral Pd nanoparticles by aberration-corrected HRTEM. <i>Materials Letters</i> , 2015, 152, 283-286.	1.3	15
40	Unification of Two Different Melting Mechanisms of Nanovoids. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6843-6851.	1.5	7
41	Synthesis of Cu <sub>2</sub> O Nanotubes with Efficient Photocatalytic Activity by Electrochemical Corrosion Method. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22066-22071.	1.5	26
42	Size effect on order-disorder transition kinetics of FePt nanoparticles. <i>Journal of Chemical Physics</i> , 2014, 140, 044328.	1.2	18
43	Synthesis of Marks-Decahedral Pd Nanoparticles in Aqueous Solutions. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 851-856.	1.2	17
44	Gibbs Free Energy and Size-Temperature Phase Diagram of Hafnium Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10365-10369.	1.5	26