Yuhong Huang

List of Publications by Year
in descending order

37 papers	793 citations	516710 16 h-index	526287 27 g-index
37 all docs	37 docs citations	37 times ranked	1177 citing authors

#	Article	IF	Citations
1	Maximizing the Formation of Reactive Oxygen Species for Deep Oxidation of NO via Manipulating the Oxygen-Vacancy Defect Position on (BiO)₂CO₃. ACS Catalysis, 2021, 11, 7735-7749.	11.2	94
2	Uniform Zn²⁺-Doped BiOI Microspheres Assembled by Ultrathin Nanosheets with Tunable Oxygen Vacancies for Super-Stable Removal of NO. Journal of Physical Chemistry C, 2019, 123, 16268-16280.	3.1	91
3	Oxygen Vacancy Enhanced Gas-Sensing Performance of CeO₂/Graphene Heterostructure at Room Temperature. Analytical Chemistry, 2018, 90, 9821-9829.	6.5	77
4	Octahedral SnO₂/Graphene Composites with Enhanced Gas-Sensing Performance at Room Temperature. ACS Applied Materials & Interfaces, 2019, 11, 12958-12967.	8.0	54
5	Hydrothermal synthesis of N-doped RGO/MoSe2 composites and enhanced electro-catalytic hydrogen evolution. Journal of Materials Science, 2017, 52, 13561-13571.	3.7	42
6	Interfacial electronic states and self-formed pâ€“n junctions in hydrogenated MoS₂/SiC heterostructure. Journal of Materials Chemistry C, 2018, 6, 4523-4530.	5.5	37
7	Effective charge separation and enhanced photocatalytic activity by the heterointerface in MoS₂/reduced graphene oxide composites. RSC Advances, 2016, 6, 60318-60326.	3.6	32
8	Effects of oxygen vacancy on the mechanical, electronic and optical properties of monoclinic BiVO4. Journal of Materials Science, 2017, 52, 8546-8555.	3.7	32
9	Interfacial Defect Engineering on Electronic States of Two-Dimensional AlN/MoS₂ Heterostructure. Journal of Physical Chemistry C, 2017, 121, 6605-6613.	3.1	31
10	Facet-engineered CeO₂/graphene composites for enhanced NO₂gas-sensing. Journal of Materials Chemistry C, 2017, 5, 6973-6981.	5.5	29
11	Temperature and strain-rate effects on the deformation behaviors of nano-crystalline graphene sheets. European Physical Journal B, 2015, 88, 1.	1.5	24
12	Tuning of electronic states and magnetic polarization in monolayered MoS2 by codoping with transition metals and nonmetals. Journal of Materials Science, 2016, 51, 9514-9525.	3.7	24
13	Stability and Sensing Enhancement by Nanocubic CeO₂ with {100} Polar Facets on Graphene for NO₂ at Room Temperature. ACS Applied Materials & Interfaces, 2020, 12, 4722-4731.	8.0	23
14	First-principles studies on facet-dependent photocatalytic properties of BiOI {001} surface. Journal of Materials Science, 2017, 52, 5686-5695.	3.7	22
15	Junction-configuration-dependent interfacial electronic states of a monolayer MoS₂/metal contact. Journal of Materials Chemistry C, 2019, 7, 3607-3616.	5.5	22
16	Influences of vacancies on the structural, electronic and optical properties of monoclinic BiVO4. Journal of Physics and Chemistry of Solids, 2018, 121, 85-92.	4.0	19
17	Structural stability, band structure and optical properties of different BiVO4 phases under pressure. Journal of Materials Science, 2016, 51, 6662-6673.	3.7	15
18	Size-dependent elastic modulus of single-layer MoS2 nano-sheets. Journal of Materials Science, 2016, 51, 6850-6859.	3.7	13

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19	Strain engineering the electronic and photocatalytic properties of WS₂/blue phosphene van der Waals heterostructures. Catalysis Science and Technology, 2021, 11, 179-190.	4.1	12
20	Single-atom catalyst of TM@D-siliceneâ€"an effective way to reduce N₂ into ammonia. Physical Chemistry Chemical Physics, 2022, 24, 3486-3497.	2.8	11
21	Nitrogen reduction reaction on single cluster catalysts of defective PC₆-trimeric or tetrameric transition metal. Physical Chemistry Chemical Physics, 2022, 24, 2219-2226.	2.8	10
22	Electronic structure and optical properties of BiOI {001} monolayer under biaxial strain. Journal of Materials Science, 2018, 53, 708-715.	3.7	9
23	Electronic states and photocatalytic performances of SnS2-based binary and ternary vdW heterostructures. Journal of Alloys and Compounds, 2020, 849, 156627.	5.5	9
24	Structural Stability, Electronic, and Optical Properties of BiVO₄ With Oxygen Vacancy Under Pressure. Physica Status Solidi (B): Basic Research, 2018, 255, 1700653.	1.5	8
25	Tunable magnetic coupling in Mn-doped monolayer MoS₂ under lattice strain. Journal of Physics Condensed Matter, 2018, 30, 215801.	1.8	8
26	Circular torsion induced fan-blade shaped wrinkling in two-dimensional nano-rings. Physical Chemistry Chemical Physics, 2017, 19, 25360-25368.	2.8	7
27	Theoretical perspective on the electronic structure and optoelectronic properties of type-II SiC/CrS₂ van der Waals heterostructure with high carrier mobilities. Journal of Physics Condensed Matter, 2021, 33, 215302.	1.8	7
28	The effect of H adsorption on the electronic and magnetic states in the hybrid structure of graphene and BN. Computational Materials Science, 2014, 93, 50-55.	3.0	6
29	Influence of strain and external electric field on the performance of PC6/MoSe2 heterostructure. Journal of Materials Science, 2022, 57, 477-488.	3.7	6
30	Synergistic effects of grain boundaries and edges on fatigue deformations of sub-5Ânm graphene nanoribbons. Journal of Materials Science, 2017, 52, 10871-10878.	3.7	5
31	The electronic and optical properties of PC6/WS2 heterostructure modulated via biaxial strain and external electric field. Surfaces and Interfaces, 2021, 24, 101100.	3.0	5
32	Lattice shearing in nano-grained graphene sheets: a molecular dynamics simulation. RSC Advances, 2015, 5, 105194-105199.	3.6	4
33	Energy dissipation in mechanical loading of nano-grained graphene sheets. RSC Advances, 2016, 6, 60856-60861.	3.6	2
34	Strain engineering the electronic and photocatalytic properties of g-C6N6/graphene heterostructures. Materials Today Communications, 2021, 26, 101969.	1.9	2
35	The influences of Nb and N dopants on elastic, electronic and optical properties of monoclinic BiVO₄. Materials Research Express, 2019, 6, 115911.	1.6	1
36	Misorientation angle depended deformation of bilayer graphene sheets under in-plane loading. Integrated Ferroelectrics, 2017, 179, 120-129.	0.7	0

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37	The effects of Sc doping and O vacancy on the electronic states and optical properties of m-BiVO4. Canadian Journal of Physics, 0, , 1-8.	1.1	0