

Yuhong Huang

List of Publications by Year in descending order

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papers

793
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516710

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#	ARTICLE	IF	CITATIONS
1	Nitrogen reduction reaction on single cluster catalysts of defective PC ₆ -trimeric or tetrameric transition metal. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 2219-2226.	2.8	10
2	Single-atom catalyst of TM@D-silicene as an effective way to reduce N ₂ into ammonia. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 3486-3497.	2.8	11
3	Influence of strain and external electric field on the performance of PC ₆ /MoSe ₂ heterostructure. <i>Journal of Materials Science</i> , 2022, 57, 477-488.	3.7	6
4	Strain engineering the electronic and photocatalytic properties of WS ₂ /blue phosphorene van der Waals heterostructures. <i>Catalysis Science and Technology</i> , 2021, 11, 179-190.	4.1	12
5	Strain engineering the electronic and photocatalytic properties of g-C ₆ N ₆ /graphene heterostructures. <i>Materials Today Communications</i> , 2021, 26, 101969.	1.9	2
6	Theoretical perspective on the electronic structure and optoelectronic properties of type-II SiC/CrS ₂ van der Waals heterostructure with high carrier mobilities. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 215302.	1.8	7
7	The electronic and optical properties of PC ₆ /WS ₂ heterostructure modulated via biaxial strain and external electric field. <i>Surfaces and Interfaces</i> , 2021, 24, 101100.	3.0	5
8	Maximizing the Formation of Reactive Oxygen Species for Deep Oxidation of NO via Manipulating the Oxygen-Vacancy Defect Position on (BiO) ₂ CO ₃ . <i>ACS Catalysis</i> , 2021, 11, 7735-7749.	11.2	94
9	Stability and Sensing Enhancement by Nanocubic CeO ₂ with {100} Polar Facets on Graphene for NO ₂ at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4722-4731.	8.0	23
10	Electronic states and photocatalytic performances of SnS ₂ -based binary and ternary vdW heterostructures. <i>Journal of Alloys and Compounds</i> , 2020, 849, 156627.	5.5	9
11	The influences of Nb and N dopants on elastic, electronic and optical properties of monoclinic BiVO ₄ . <i>Materials Research Express</i> , 2019, 6, 115911.	1.6	1
12	Uniform Zn ²⁺ -Doped BiOI Microspheres Assembled by Ultrathin Nanosheets with Tunable Oxygen Vacancies for Super-Stable Removal of NO. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16268-16280.	3.1	91
13	Octahedral SnO ₂ /Graphene Composites with Enhanced Gas-Sensing Performance at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12958-12967.	8.0	54
14	Junction-configuration-dependent interfacial electronic states of a monolayer MoS ₂ /metal contact. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3607-3616.	5.5	22
15	Structural Stability, Electronic, and Optical Properties of BiVO ₄ With Oxygen Vacancy Under Pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700653.	1.5	8
16	Interfacial electronic states and self-formed p-n junctions in hydrogenated MoS ₂ /SiC heterostructure. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4523-4530.	5.5	37
17	Tunable magnetic coupling in Mn-doped monolayer MoS ₂ under lattice strain. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 215801.	1.8	8
18	Electronic structure and optical properties of BiOI {001} monolayer under biaxial strain. <i>Journal of Materials Science</i> , 2018, 53, 708-715.	3.7	9

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19	Influences of vacancies on the structural, electronic and optical properties of monoclinic BiVO ₄ . Journal of Physics and Chemistry of Solids, 2018, 121, 85-92.	4.0	19
20	Oxygen Vacancy Enhanced Gas-Sensing Performance of CeO ₂ /Graphene Heterostructure at Room Temperature. Analytical Chemistry, 2018, 90, 9821-9829.	6.5	77
21	First-principles studies on facet-dependent photocatalytic properties of BiOI {001} surface. Journal of Materials Science, 2017, 52, 5686-5695.	3.7	22
22	Interfacial Defect Engineering on Electronic States of Two-Dimensional AlN/MoS ₂ Heterostructure. Journal of Physical Chemistry C, 2017, 121, 6605-6613.	3.1	31
23	Effects of oxygen vacancy on the mechanical, electronic and optical properties of monoclinic BiVO ₄ . Journal of Materials Science, 2017, 52, 8546-8555.	3.7	32
24	Facet-engineered CeO ₂ /graphene composites for enhanced NO ₂ gas-sensing. Journal of Materials Chemistry C, 2017, 5, 6973-6981.	5.5	29
25	Hydrothermal synthesis of N-doped RGO/MoSe ₂ composites and enhanced electro-catalytic hydrogen evolution. Journal of Materials Science, 2017, 52, 13561-13571.	3.7	42
26	Misorientation angle depended deformation of bilayer graphene sheets under in-plane loading. Integrated Ferroelectrics, 2017, 179, 120-129.	0.7	0
27	Circular torsion induced fan-blade shaped wrinkling in two-dimensional nano-rings. Physical Chemistry Chemical Physics, 2017, 19, 25360-25368.	2.8	7
28	Synergistic effects of grain boundaries and edges on fatigue deformations of sub-5Ånm graphene nanoribbons. Journal of Materials Science, 2017, 52, 10871-10878.	3.7	5
29	Energy dissipation in mechanical loading of nano-grained graphene sheets. RSC Advances, 2016, 6, 60856-60861.	3.6	2
30	Structural stability, band structure and optical properties of different BiVO ₄ phases under pressure. Journal of Materials Science, 2016, 51, 6662-6673.	3.7	15
31	Size-dependent elastic modulus of single-layer MoS ₂ nano-sheets. Journal of Materials Science, 2016, 51, 6850-6859.	3.7	13
32	Tuning of electronic states and magnetic polarization in monolayered MoS ₂ by codoping with transition metals and nonmetals. Journal of Materials Science, 2016, 51, 9514-9525.	3.7	24
33	Effective charge separation and enhanced photocatalytic activity by the heterointerface in MoS ₂ /reduced graphene oxide composites. RSC Advances, 2016, 6, 60318-60326.	3.6	32
34	Lattice shearing in nano-grained graphene sheets: a molecular dynamics simulation. RSC Advances, 2015, 5, 105194-105199.	3.6	4
35	Temperature and strain-rate effects on the deformation behaviors of nano-crystalline graphene sheets. European Physical Journal B, 2015, 88, 1.	1.5	24
36	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

#	ARTICLE	IF	CITATIONS
37	The effects of Sc doping and O vacancy on the electronic states and optical properties of m-BiVO ₄ . Canadian Journal of Physics, 0, , 1-8.	1.1	0