Zhiyang Yu

List of Publications by Year
in descending order

39 papers	2,403 citations	361296 20 h-index	315616 38 g-index
39 all docs	39 docs citations	39 times ranked	2196 citing authors

#	Article	IF	Citations
1	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. Angewandte Chemie - International Edition, 2019, 58, 6164-6175.	7.2	481
2	Molecular-level insights on the reactive facet of carbon nitride single crystals photocatalysing overall water splitting. Nature Catalysis, 2020, 3, 649-655.	16.1	427
3	Crystalline Carbon Nitride Semiconductors for Photocatalytic Water Splitting. Angewandte Chemie, 2019, 131, 6225-6236.	1.6	378
4	Taming the stability of Pd active phases through a compartmentalizing strategy toward nanostructured catalyst supports. Nature Communications, 2019, 10, 1611.	5.8	168
5	Segregation-induced ordered superstructures at general grain boundaries in a nickel-bismuth alloy. Science, 2017, 358, 97-101.	6.0	130
6	Unveiling the charge transfer dynamics steered by built-in electric fields in BiOBr photocatalysts. Nature Communications, 2022, 13, 2230.	5.8	117
7	Fully Condensed Poly (Triazine Imide) Crystals: Extended Ï€â€Conjugation and Structural Defects for Overall Water Splitting. Angewandte Chemie - International Edition, 2022, 61, .	7.2	114
8	Interfacial engineering of lattice coherency at ZnO-ZnS photocatalytic heterojunctions. Chem Catalysis, 2022, 2, 125-139.	2.9	56
9	Atomic-resolution observation of Hf-doped alumina grain boundaries. Scripta Materialia, 2013, 68, 703-706.	2.6	33
10	Seeded Mineralization Leads to Hierarchical CaCO₃ Thin Coatings on Fibers for Oil/Water Separation Applications. Langmuir, 2018, 34, 2942-2951.	1.6	33
11	Switching the Nonlinear Optical Absorption of Titanium Carbide MXene by Modulation of the Surface Terminations. ACS Nano, 2022, 16, 394-404.	7.3	32
12	High-loading and thermally stable Pt1/MgAl1.2Fe0.8O4 single-atom catalysts for high-temperature applications. Science China Materials, 2020, 63, 949-958.	3.5	31
13	Selective Hydroxylation of Benzene to Phenol over Fe Nanoparticles Encapsulated within N-Doped Carbon Shells. ACS Applied Nano Materials, 2020, 3, 9192-9199.	2.4	29
14	Superb Nonlinear Absorption of Triphenyleneâ€Based Metalâ€“Organic Frameworks Associated with Abundant Metal d Electrons. Advanced Optical Materials, 2021, 9, 2100622.	3.6	28
15	Theory and New Applications ofEx SituLift Out. Microscopy and Microanalysis, 2015, 21, 1034-1048.	0.2	27
16	A highly asymmetric interfacial superstructure in WC: expanding the classic grain boundary segregation and new complexion theories. Materials Horizons, 2020, 7, 173-180.	6.4	26
17	Liquid metal embrittlement of an Fe10Cr4Al ferritic alloy exposed to oxygen-depleted and -saturated lead-bismuth eutectic at 350Â°C. Corrosion Science, 2020, 165, 108364.	3.0	26
18	Interfacial superstructures and chemical bonding transitions at metal-ceramic interfaces. Science Advances, 2021, 7, .	4.7	24

#	Article	IF	Citations
19	Liquid metal embrittlement of a dual-phase Al0.7CoCrFeNi high-entropy alloy exposed to oxygen-saturated lead-bismuth eutectic. Scripta Materialia, 2021, 194, 113652.	2.6	22
20	Enhanced Photocatalytic Ozonation of Phenol by Ag/ZnO Nanocomposites. Catalysts, 2019, 9, 1006.	1.6	21
21	Half-Heusler-like compounds with wide continuous compositions and tunable p- to n-type semiconducting thermoelectrics. Nature Communications, 2022, 13, 35.	5.8	20
22	Enhancing electronic metal support interaction (EMSI) over Pt/TiO2 for efficient catalytic wet air oxidation of phenol in wastewater. Journal of Hazardous Materials, 2022, 426, 128088.	6.5	19
23	In situ photodeposition of amorphous Ni_xP on CdS nanorods for efficient visible-light photocatalytic H₂ generation. Catalysis Science and Technology, 2019, 9, 5394-5400.	2.1	17
24	Giant Nonlinear Optical Absorption of Ionâ€Intercalated Tin Disulfide Associated with Abundant Inâ€Gap Defects. Advanced Functional Materials, 2021, 31, 2106930.	7.8	14
25	Mechanistic Probing of Encapsulation and Confined Growth of Lithium Crystals in Carbonaceous Nanotubes. Advanced Materials, 2021, 33, e2105228.	11.1	14
26	Fully Condensed Poly (Triazine Imide) Crystals: Extended Ïâ€Conjugation and Structural Defects for Overall Water Splitting. Angewandte Chemie, 2022, 134, .	1.6	14
27	Photo-fluorination of nanodiamonds catalyzing oxidative dehydrogenation reaction of ethylbenzene. Nature Communications, 2021, 12, 6542.	5.8	14
28	Atomistic Observation of Temperature-Dependent Defect Evolution within Sub-stoichiometric WO_{3â€“x} Catalysts. ACS Applied Materials & Interfaces, 2022, 14, 2194-2201.	4.0	14
29	Enhancing Reverse Saturable Absorption in SnS₂ Nanosheets by Plasma Treatment. ACS Applied Materials & Interfaces, 2021, 13, 4211-4219.	4.0	13
30	The interfacial structure underpinning the Al-Ga liquid metal embrittlement: disorder vs. order gradients. Scripta Materialia, 2021, 204, 114149.	2.6	11
31	Grain growth and interfacial structures in SiC fibers. Ceramics International, 2020, 46, 10279-10283.	2.3	10
32	Structural investigations of a boron carbide nanorod with pseudo-fivefold twinned cross-section. Science China Technological Sciences, 2011, 54, 2119-2122.	2.0	8
33	Fast electrochemical activation of the broadband saturable absorption of tungsten oxide nanoporous film. Nano Research, 2022, 15, 326-332.	5.8	7
34	Computing grain boundary diagrams of thermodynamic and mechanical properties. Npj Computational Materials, 2021, 7, .	3.5	7
35	Facet-dependent interfacial segregation behavior of V-doped WC-Co cemented carbides. Ceramics International, 2022, 48, 11251-11256.	2.3	7
36	A development mechanism of graded microstructures in iron-containing SiC fibers revealed by electron microscopy. Materials Characterization, 2020, 162, 110177.	1.9	4

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37	Switching the Nonparametric Optical Nonlinearity of Tungsten Oxide by Electrical Modulation. Advanced Optical Materials, 2021, 9, 2002188.	3.6	4
38	Intergranular precipitation-enhanced wetting and phase transformation in an Al0.4CoCrFeNi high-entropy alloy exposed to lead-bismuth eutectic. Corrosion Science, 2022, 196, 110038.	3.0	3
39	Microstructure evolution of a Cu and Î¸-Al2O3 composite observed by aberration corrected HAADF-STEM. Microscopy and Microanalysis, 2015, 21, 1351-1352.	0.2	0