Hongfei Cheng

List of Publications by Citations

32 papers	1,980 citations	22 h-index	33 g-index
33 ext. papers	2,548 ext. citations	15.4 avg, IF	5.12 L-index

#	Paper	IF	Citations
32	Recent Development of Advanced Materials with Special Wettability for Selective Oil/Water Separation. *Small*, **2016**, 12, 2186-202	11	563
31	Crystal phase-based epitaxial growth of hybrid noble metal nanostructures on 4H/fcc Au nanowires. *Nature Chemistry*, **2018**, 10, 456-461	17.6	160
30	Synthesis of Ultrathin PdCu Alloy Nanosheets Used as a Highly Efficient Electrocatalyst for Formic Acid Oxidation. *Advanced Materials*, **2017**, 29, 1700769	24	154
29	Amorphous/Crystalline Hetero-Phase Pd Nanosheets: One-Pot Synthesis and Highly Selective Hydrogenation Reaction. *Advanced Materials*, **2018**, 30, e1803234	24	147
28	Syntheses and Properties of Metal Nanomaterials with Novel Crystal Phases. *Advanced Materials*, **2018**, 30, e1707189	24	103
27	Preparation of Superhydrophilic and Underwater Superoleophobic Nanofiber-Based Meshes from Waste Glass for Multifunctional Oil/Water Separation. *Small*, **2017**, 13, 1700391	11	95
26	Ligand-Exchange-Induced Amorphization of Pd Nanomaterials for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. *Advanced Materials*, **2020**, 32, e1902964	24	87
25	Confined Synthesis of 2D Nanostructured Materials toward Electrocatalysis. *Advanced Energy Materials*, **2020**, 10, 1900486	21.8	70
24	Synthesis of Palladium-Based Crystalline@Amorphous Core-Shell Nanoplates for Highly Efficient Ethanol Oxidation. *Advanced Materials*, **2020**, 32, e2000482	24	53
23	Phase-Selective Epitaxial Growth of Heterophase Nanostructures on Unconventional 2H-Pd Nanoparticles. *Journal of the American Chemical Society*, **2020**, 142, 18971-18980	16.4	53
22	Synthesis of Hierarchical 4H/fcc Ru Nanotubes for Highly Efficient Hydrogen Evolution in Alkaline Media. *Small*, **2018**, 14, e1801090	11	52
21	Recent Progress in the Preparation, Assembly, Transformation, and Applications of Layer-Structured Nanodisks beyond Graphene. *Advanced Materials*, **2017**, 29, 1701704	24	47
20	Two-Dimensional Nanomaterials with Unconventional Phases. *CheM*, **2020**, 6, 1237-1253	16.2	45
19	Aging amorphous/crystalline heterophase PdCu nanosheets for catalytic reactions. *National Science Review*, **2019**, 6, 955-961	10.8	41
18	Rational Design of MOF-Based Hybrid Nanomaterials for Directly Harvesting Electric Energy from Water Evaporation. *Advanced Materials*, **2020**, 32, e2003720	24	38
17	High-mass loading V3O7H2O nanoarray for Zn-ion battery: New synthesis and two-stage ion intercalation chemistry. *Nano Energy*, **2021**, 83, 105835	17.1	36
16	Synthesis of MoX2 (X = Se or S) monolayers with high-concentration 1T? phase on 4H/fcc-Au nanorods for hydrogen evolution. *Nano Research*, **2019**, 12, 1301-1305	10	28

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15	Ultrathin Amorphous/Crystalline Heterophase Rh and Rh Alloy Nanosheets as Tandem Catalysts for Direct Indole Synthesis. *Advanced Materials*, **2021**, 33, e2006711	24	28
14	Evoking ordered vacancies in metallic nanostructures toward a vacated Barlow packing for high-performance hydrogen evolution. *Science Advances*, **2021**, 7,	14.3	25
13	Selective Epitaxial Growth of Rh Nanorods on 2H/ Heterophase Au Nanosheets to Form 1D/2D Rh-Au Heterostructures for Highly Efficient Hydrogen Evolution. *Journal of the American Chemical Society*, **2021**, 143, 4387-4396	16.4	24
12	Transition metal dichalcogenide/multi-walled carbon nanotube-based fibers as flexible electrodes for electrocatalytic hydrogen evolution. *Chemical Communications*, **2020**, 56, 5131-5134	5.8	23
11	Preparation of graphene-MoS2 hybrid aerogels as multifunctional sorbents for water remediation. *Science China Materials*, **2017**, 60, 1102-1108	7.1	23
10	Ultra-thin metal-organic framework nanoribbons. *National Science Review*, **2020**, 7, 46-52	10.8	18
9	Synthesis of Pd Sn and PdCuSn Nanorods with L1 Phase for Highly Efficient Electrocatalytic Ethanol Oxidation. *Advanced Materials*, **2021**, e2106115	24	17
8	In-Situ Probing of Crystal-Phase-Dependent Photocatalytic Activities of Au Nanostructures by Surface-Enhanced Raman Spectroscopy **2020**, 2, 409-414		14
7	Crystal phase-controlled growth of PtCu and PtCo alloys on 4H Au nanoribbons for electrocatalytic ethanol oxidation reaction. *Nano Research*, **2020**, 13, 1970-1975	10	11
6	Quasi-Epitaxial Growth of Magnetic Nanostructures on 4H-Au Nanoribbons. *Advanced Materials*, **2021**, 33, e2007140	24	8
5	Size-Dependent Phase Transformation of Noble Metal Nanomaterials. *Small*, **2019**, 15, e1903253	11	7
4	A General Method for the Synthesis of Hybrid Nanostructures Using MoSe Nanosheet-Assembled Nanospheres as Templates. *Research*, **2019**, 2019, 6439734	7.8	4
3	Concurrent H Generation and Formate Production Assisted by CO Absorption in One Electrolyzer.. *Small Methods*, **2021**, 5, e2100871	12.8	2
2	Stretchable HfO2-Based Resistive Switching Memory Using the Wavy Structured Design. *IEEE Electron Device Letters*, **2020**, 1-1	4.4	1
1	Pressure-Induced Amorphization and Crystallization of Heterophase Pd Nanostructures.. *Small*, **2022**, e2106396	11	0