Weixin Huang

List of Publications by Year
in descending order

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43	3,737	201674	254184
papers	citations	27 h-index	43 g-index

43	43	43	6517
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Construction of Heterostructured g-C₃N₄/Ag/TiO₂ Microspheres with Enhanced Photocatalysis Performance under Visible-Light Irradiation. ACS Applied Materials & Interfaces, 2014, 6, 14405-14414.	8.0	595
2	Functionalized Graphene Enables Highly Efficient Solar Thermal Steam Generation. ACS Nano, 2017, 11, 5510-5518.	14.6	330
3	Understanding complete oxidation of methane on spinel oxides at a molecular level. Nature Communications, 2015, 6, 7798.	12.8	237
4	Catalysis on singly dispersed bimetallic sites. Nature Communications, 2015, 6, 7938.	12.8	235
5	Single rhodium atoms anchored in micropores for efficient transformation of methane under mild conditions. Nature Communications, 2018, 9, 1231.	12.8	213
6	Morphology-dependent surface chemistry and catalysis of CeO₂nanocrystals. Catalysis Science and Technology, 2014, 4, 3772-3784.	4.1	198
7	Lowâ€Temperature Transformation of Methane to Methanol on Pd₁O₄ Single Sites Anchored on the Internal Surface of Microporous Silicate. Angewandte Chemie - International Edition, 2016, 55, 13441-13445.	13.8	180
8	Evolution of Chemical Composition, Morphology, and Photovoltaic Efficiency of CH₃NH₃PbI₃ Perovskite under Ambient Conditions. Chemistry of Materials, 2016, 28, 303-311.	6.7	173
9	WGS Catalysis and In Situ Studies of CoO_{1â€“x}, PtCo_n/Co₃O₄, and Pt_mCo_{mâ€²}/CoO_{1â€“x} Nanorod Catalysts. Journal of the American Chemical Society, 2013, 135, 8283-8293.	13.7	161
10	Nanoscale-Phase-Separated Pdâ€“Rh Boxes Synthesized via Metal Migration: An Archetype for Studying Lattice Strain and Composition Effects in Electrocatalysis. Journal of the American Chemical Society, 2013, 135, 14691-14700.	13.7	113
11	Steam-created grain boundaries for methane Câ€“H activation in palladium catalysts. Science, 2021, 373, 1518-1523.	12.6	105
12	Colloidal nanocrystals for heterogeneous catalysis. Nano Today, 2019, 24, 15-47.	11.9	98
13	Modular Pd/Zeolite Composites Demonstrating the Key Role of Support Hydrophobic/Hydrophilic Character in Methane Catalytic Combustion. ACS Catalysis, 2019, 9, 4742-4753.	11.2	97
14	Conversion of Methane to Methanol with a Bent Mono(Î¼-oxo)dinickel Anchored on the Internal Surfaces of Micropores. Langmuir, 2014, 30, 8558-8569.	3.5	87
15	Influence and Removal of Capping Ligands on Catalytic Colloidal Nanoparticles. Catalysis Letters, 2014, 144, 1355-1369.	2.6	84
16	Restructuring Transition Metal Oxide Nanorods for 100% Selectivity in Reduction of Nitric Oxide with Carbon Monoxide. Nano Letters, 2013, 13, 3310-3314.	9.1	71
17	Synthesis of porous ZnO/TiO2 thin films with superhydrophilicity and photocatalytic activity via a template-free solâ€“gel method. Surface and Coatings Technology, 2014, 258, 531-538.	4.8	67
18	Direct Observation of Reversible Transformation of CH₃NH₃PbI₃ and NH₄PbI₃ Induced by Polar Gaseous Molecules. Journal of Physical Chemistry Letters, 2016, 7, 5068-5073.	4.6	62

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19	Effect of polyethylene glycol on hydrophilic TiO2 films: Porosity-driven superhydrophilicity. Surface and Coatings Technology, 2010, 204, 3954-3961.	4.8	57
20	Superhydrophilicity of TiO2/SiO2 thin films: Synergistic effect of SiO2 and phase-separation-induced porous structure. Surface and Coatings Technology, 2012, 213, 126-132.	4.8	55
21	Enhanced Catalytic Activity for Methane Combustion through in Situ Water Sorption. ACS Catalysis, 2020, 10, 8157-8167.	11.2	55
22	Heat- and Gas-Induced Transformation in CH₃NH₃PbI₃ Perovskites and Its Effect on the Efficiency of Solar Cells. Chemistry of Materials, 2017, 29, 8478-8485.	6.7	50
23	Lowâ€Energy Electronâ€Induced Transformations in Organolead Halide Perovskite. Angewandte Chemie - International Edition, 2016, 55, 10083-10087.	13.8	49
24	Tunable Syngas Formation from Electrochemical CO₂ Reduction on Copper Nanowire Arrays. ACS Applied Energy Materials, 2020, 3, 9841-9847.	5.1	41
25	Lowâ€Temperature Transformation of Methane to Methanol on Pd₁O₄ Single Sites Anchored on the Internal Surface of Microporous Silicate. Angewandte Chemie, 2016, 128, 13639-13643.	2.0	40
26	Deconvoluting Transient Water Effects on the Activity of Pd Methane Combustion Catalysts. Industrial & Engineering Chemistry Research, 2018, 57, 10261-10268.	3.7	40
27	pH-driven phase separation: Simple routes for fabricating porous TiO2 film with superhydrophilic and anti-fog properties. Ceramics International, 2015, 41, 7573-7581.	4.8	31
28	Effect of Light Illumination on Mixed Halide Lead Perovskites: Reversible or Irreversible Transformation. ACS Applied Energy Materials, 2018, 1, 2859-2865.	5.1	27
29	Multimorphologies nano-ZnO preparing through a simple solvothermal method for photocatalytic application. Materials Letters, 2015, 141, 294-297.	2.6	24
30	Birnessite manganese oxide nanosheets assembled on Ni foam as high-performance pseudocapacitor electrodes: Electrochemical oxidation driven porous honeycomb architecture formation. Applied Surface Science, 2018, 458, 10-17.	6.1	23
31	Controllable transformation between 3D and 2D perovskites through cation exchange. Chemical Communications, 2018, 54, 7944-7947.	4.1	20
32	Superhydrophilic porous TiO2 film prepared by phase separation through two stabilizers. Applied Surface Science, 2011, 257, 4774-4780.	6.1	19
33	Electronic Properties of Free-Standing Surfactant-Capped Lead Halide Perovskite Nanocrystals Isolated in Vacuo. Journal of Physical Chemistry Letters, 2018, 9, 3604-3611.	4.6	18
34	Photoionization Mass Spectrometry for Online Detection of Reactive and Unstable Gasâ€Phase Intermediates in Heterogeneous Catalytic Reactions. ChemCatChem, 2020, 12, 675-688.	3.7	14
35	In situ identification of cation-exchange-induced reversible transformations of 3D and 2D perovskites. Chemical Communications, 2018, 54, 5879-5882.	4.1	12
36	Functionalization of graphene by atmospheric pressure plasma jet in air or H2O2 environments. Applied Surface Science, 2016, 367, 160-166.	6.1	11

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37	Polymerization-induced phase separation in the preparation of macroporous TiO2/SiO2 thin films. Ceramics International, 2014, 40, 919-927.	4.8	9
38	Lowâ€Energy Electronâ€Induced Transformations in Organolead Halide Perovskite. Angewandte Chemie, 2016, 128, 10237-10241.	2.0	9
39	Co³⁺â€“O Bond Elongation Unlocks Co₃O₄ for Methane Activation under Ambient Conditions. ACS Catalysis, 2022, 12, 7037-7045.	11.2	9
40	Dynamics of Copper-Containing Porous Organic Framework Catalysts Reveal Catalytic Behavior Controlled by the Polymer Structure. ACS Catalysis, 2020, 10, 9356-9365.	11.2	6
41	A General Approach for Monolayer Adsorption of High Weight Loadings of Uniform Nanocrystals on Oxide Supports. Angewandte Chemie - International Edition, 2021, 60, 7971-7979.	13.8	6
42	Preparation and Formation Mechanism of Superhydrophilic Porous TiO2 Films Using Complexing Agents as Pore-Forming Materials. Science of Advanced Materials, 2014, 6, 9-17.	0.7	4
43	A General Approach for Monolayer Adsorption of High Weight Loadings of Uniform Nanocrystals on Oxide Supports. Angewandte Chemie, 2021, 133, 8050-8058.	2.0	2