

Ming Meng

List of Publications by Year in descending order

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papers

1,399
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430874

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docs citations

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times ranked

2363
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#	ARTICLE	IF	CITATIONS
1	Photothermal Contribution to Enhanced Photocatalytic Performance of Graphene-Based Nanocomposites. <i>ACS Nano</i> , 2014, 8, 9304-9310.	14.6	240
2	Identification of the Active Sites for CO and C ₃ H ₈ Total Oxidation over Nanostructured CuO ^{δ+} /CeO ₂ and Co ₃ O ₄ ^{δ+} /CeO ₂ Catalysts. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8694-8701.	3.1	128
3	In Situ Formation of Disorder-Engineered TiO ₂ (B)-Anatase Heterophase Junction for Enhanced Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24987-24992.	8.0	103
4	De-NO _x in alternative lean/rich atmospheres on La ^x Sr _x CoO ₃ perovskites. <i>Energy and Environmental Science</i> , 2011, 4, 3351.	30.8	87
5	Amorphous nickel/cobalt tungsten sulfide electrocatalysts for high-efficiency hydrogen evolution reaction. <i>Applied Surface Science</i> , 2015, 341, 149-156.	6.1	76
6	Hydrogenated Cage-like Titania Hollow Spherical Photocatalysts for Hydrogen Evolution under Simulated Solar Light Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23006-23014.	8.0	67
7	Copper nanoparticles with near-unity, omnidirectional, and broadband optical absorption for highly efficient solar steam generation. <i>Nanotechnology</i> , 2019, 30, 015402.	2.6	59
8	Facet Cutting and Hydrogenation of In ₂ O ₃ Nanowires for Enhanced Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4081-4088.	8.0	58
9	A unified intermediate and mechanism for soot combustion on potassium-supported oxides. <i>Scientific Reports</i> , 2014, 4, 4725.	3.3	57
10	Domain-Confined Multiple Collision Enhanced Catalytic Soot Combustion over a Fe ₂ O ₃ /TiO ₂ Nanotube Array Catalyst Prepared by Light-Assisted Cyclic Magnetic Adsorption. <i>ACS Catalysis</i> , 2014, 4, 934-941.	11.2	55
11	Cubic In ₂ O ₃ Microparticles for Efficient Photoelectrochemical Oxygen Evolution. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4298-4304.	4.6	49
12	Gravity-Driven Multiple Collision-Enhanced Catalytic Soot Combustion over a Space-Open Array Catalyst Consisting of Ultrathin Ceria Nanobelts. <i>Small</i> , 2015, 11, 3659-3664.	10.0	43
13	Ferromagnetism induced by point defect in Janus monolayer MoSSe regulated by strain engineering. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 105004.	2.8	33
14	The Nanomorphology-Controlled Palladium-Support Interaction and the Catalytic Performance of Pd/CeO ₂ Catalysts. <i>Catalysis Letters</i> , 2009, 133, 328-333.	2.6	28
15	Carbonate-Based Lean-Burn NO _x Trap Catalysts Pt ^{δ+} /K ₂ CO ₃ /ZrO ₂ with Large NO _x Storage Capacity and High Reduction Efficiency. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4089-4097.	3.1	28
16	Enhanced Photodegradation of Methyl Orange Synergistically by Microcrystal Facet Cutting and Flexible Electrically-Conducting Channels. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28063-28068.	3.1	23
17	Highly efficient NO _x purification in alternating lean/rich atmospheres over non-platinic mesoporous perovskite-based catalyst K/LaCoO ₃ . <i>Catalysis Science and Technology</i> , 2013, 3, 1915.	4.1	20
18	Ambient ultrasonic-assisted synthesis, stepwise growth mechanisms, and photocatalytic activity of flower-like nanostructured ZnO and Ag/ZnO. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	19

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19	Ultrasonic-assisted synthesis of amorphous Bi ₂ S ₃ coupled (BiO) ₂ CO ₃ catalyst with improved visible light-responsive photocatalytic activity. <i>Journal of Materials Science</i> , 2015, 50, 1594-1604.	3.7	19
20	Calcination system-induced nanocasting synthesis of uniform Co ₃ O ₄ nanoparticles with high surface area and enhanced catalytic performance. <i>RSC Advances</i> , 2015, 5, 35524-35534.	3.6	18
21	A mesoporous oxidation catalyst La ³⁺ /Co ²⁺ /Ce ⁴⁺ /O prepared by citric acid complexation and organic template decomposition method. <i>Catalysis Letters</i> , 2007, 116, 50-56.	2.6	17
22	Hydroformylation of 1-Hexene on Silicalite-1 Zeolite Membrane Coated Pd ²⁺ /Co/A.C. Catalyst. <i>Topics in Catalysis</i> , 2010, 53, 608-614.	2.8	17
23	Hydrogenated TiO ₂ nanotube photonic crystals for enhanced photoelectrochemical water splitting. <i>Nanotechnology</i> , 2018, 29, 155401.	2.6	14
24	Efficient hydrogen evolution catalyzed by amorphous molybdenum sulfide/N-doped active carbon hybrid on carbon fiber paper. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 15135-15143.	7.1	14
25	Controlled synthesis of hierarchically crossed metal oxide nanosheet arrays for diesel soot elimination. <i>Chemical Communications</i> , 2017, 53, 8517-8520.	4.1	13
26	Converting inorganic-organic hybrid sulfides into oxides: A general strategy to hierarchical-porous-structured thermal-stable metal oxides with improved catalytic performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 10525.	6.7	12
27	Effects of Synthesis Routes on the States and Catalytic Performance of Manganese Oxides Used for Diesel Soot Combustion. <i>Catalysis Letters</i> , 2014, 144, 1210-1218.	2.6	12
28	Strong Facet-Induced and Light-Controlled Room-Temperature Ferromagnetism in Semiconducting γ -FeSi ₂ Nanocubes. <i>Journal of the American Chemical Society</i> , 2015, 137, 11419-11424.	13.7	12
29	The Effect of Al ₂ O ₃ Doping into TiO ₂ /ZrO ₂ on the Storage and Sulfur-resistance Performance of the NO _x Trap Catalyst Pt/K/TiO ₂ /ZrO ₂ . <i>Catalysis Letters</i> , 2009, 128, 475-482.	2.6	10
30	Ferromagnetism regulated by edged cutting and optical identification in monolayer PtSe ₂ nanoribbons. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 225007.	2.8	10
31	Perovskite-Based Lean-Burn NO _x Trap Catalysts Without Using Platinum Group Metals: K/LaCoO ₃ /Ce _{1-x} Zr _x O ₂ . <i>Catalysis Letters</i> , 2011, 141, 1364-1370.	2.6	9
32	Superior Performance of Mesoporous TiO ₂ /Al ₂ O ₃ Supported NSR Catalysts with the Support Synthesized Using Nonionic and Cationic Surfactants as Co-Templates. <i>Catalysis Letters</i> , 2012, 142, 1067-1074.	2.6	9
33	Dual templates assisted preparation and characterization of highly thermostable multicomponent mesoporous material La ³⁺ /Ce ⁴⁺ /Co ²⁺ /Zr ⁴⁺ /O used for low-temperature CO oxidation. <i>Journal of Materials Science</i> , 2008, 43, 1958-1965.	3.7	8
34	TiO ₂ nanotube photonic crystal fabricated by two-step anodization method for enhanced photoelectrochemical water splitting. <i>Materials Letters</i> , 2017, 207, 96-99.	2.6	8
35	High-Temperature NO _x Storage and Sulfur-Resistance of the Lithium-Based Lean-Burn NO _x Trap Catalyst Pt/Li/TiO ₂ /Al ₂ O ₃ . <i>Catalysis Letters</i> , 2010, 136, 234-242.	2.6	6
36	Effect of supercritical fluid of CO ₂ drying during Cu/ZnO catalyst preparation on methanol synthesis from syngas at low temperature. <i>Research on Chemical Intermediates</i> , 2011, 37, 397-403.	2.7	6

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37	Dimethyl ether steam reforming to produce H ₂ over Ga-doped ZnO/β-Al ₂ O ₃ catalysts. RSC Advances, 2016, 6, 52411-52420.	3.6	6
38	Metamorphosis-like photochemical growth route for silver nanoprisms synthesis via the unrevealed key intermediates of nanorods and nanotrapezoids. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	3
39	Black 3D-TiO ₂ Nanotube Arrays on Ti Meshes for Boosted Photoelectrochemical Water Splitting. Nanomaterials, 2022, 12, 1447.	4.1	3