

Yongtao Meng

List of Publications by Year in descending order

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36
papers

4,143
citations

159585

30
h-index

330143

37
g-index

39
all docs

39
docs citations

39
times ranked

6684
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-Property Relationship of Bifunctional MnO ₂ Nanostructures: Highly Efficient, Ultra-Stable Electrochemical Water Oxidation and Oxygen Reduction Reaction Catalysts Identified in Alkaline Media. <i>Journal of the American Chemical Society</i> , 2014, 136, 11452-11464.	13.7	921
2	Solar-driven, highly sustained splitting of seawater into hydrogen and oxygen fuels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6624-6629.	7.1	524
3	Mesoporous Co ₃ O ₄ with Controlled Porosity: Inverse Micelle Synthesis and High-Performance Catalytic CO Oxidation at ~60 °C. <i>Chemistry of Materials</i> , 2014, 26, 4629-4639.	6.7	312
4	Crystalline Mixed Phase (Anatase/Rutile) Mesoporous Titanium Dioxides for Visible Light Photocatalytic Activity. <i>Chemistry of Materials</i> , 2015, 27, 6-17.	6.7	213
5	Ni- and Mn-Promoted Mesoporous Co ₃ O ₄ : A Stable Bifunctional Catalyst with Surface-Structure-Dependent Activity for Oxygen Reduction Reaction and Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20802-20813.	8.0	191
6	Monolithically Integrated Spinel M ₃ Co ₃ O ₄ (M=Co, Ni, Zn) Nanoarray Catalysts: Scalable Synthesis and Cation Manipulation for Tunable Low-Temperature CH ₄ and CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7223-7227.	13.8	170
7	Microwave-assisted ultrafast and facile synthesis of fluorescent carbon nanoparticles from a single precursor: preparation, characterization and their application for the highly selective detection of explosive picric acid. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4161-4171.	10.3	165
8	Electroreduction of CO ₂ to Formate on a Copper-Based Electrocatalyst at High Pressures with High Energy Conversion Efficiency. <i>Journal of the American Chemical Society</i> , 2020, 142, 7276-7282.	13.7	165
9	One-Step Hydrothermal Synthesis of Manganese-Containing MFI-Type Zeolite, Mn-ZSM-5, Characterization, and Catalytic Oxidation of Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2013, 135, 8594-8605.	13.7	152
10	Heterogeneous acidic TiO ₂ nanoparticles for efficient conversion of biomass derived carbohydrates. <i>Green Chemistry</i> , 2014, 16, 785.	9.0	122
11	Rechargeable Na/Cl ₂ and Li/Cl ₂ batteries. <i>Nature</i> , 2021, 596, 525-530.	27.8	103
12	Influence of silver on the catalytic properties of the cryptomelane and Ag-hollandite types manganese oxides OMS-2 in the low-temperature CO oxidation. <i>Applied Catalysis A: General</i> , 2013, 462-463, 64-74.	4.3	102
13	Fabrication of novel heterostructured few layered WS ₂ -Bi ₂ WO ₆ /Bi ₃ .84W _{0.16} O _{6.24} composites with enhanced photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 220-228.	20.2	78
14	Mechanism studies on methyl orange dye degradation by perovskite-type LaNiO ₃ under dark ambient conditions. <i>Applied Catalysis A: General</i> , 2018, 549, 302-309.	4.3	74
15	The Viability of Photocatalysis for Air Purification. <i>Molecules</i> , 2015, 20, 1319-1356.	3.8	72
16	Ion induced promotion of activity enhancement of mesoporous manganese oxides for aerobic oxidation reactions. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 731-741.	20.2	60
17	Highly active oxygen evolution integrated with efficient CO ₂ to CO electroreduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23915-23922.	7.1	58
18	Microwave-Assisted Hydrothermal Synthesis of δ -MnO ₂ : Lattice Expansion via Rapid Temperature Ramping and Framework Substitution. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20363-20373.	3.1	56

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19	High-Performance Catalytic CH ₄ Oxidation at Low Temperatures: Inverse Micelle Synthesis of Amorphous Mesoporous Manganese Oxides and Mild Transformation to K ₂ × <i>i</i> /Mn ₈ O ₁₆ and μ-MnO ₂ . Journal of Physical Chemistry C, 2015, 119, 1473-1482.	3.1	56
20	Low Temperature Desulfurization of H ₂ S: High Sorption Capacities by Mesoporous Cobalt Oxide via Increased H ₂ S Diffusion. Chemistry of Materials, 2014, 26, 6613-6621.	6.7	54
21	Enhancement of Catalytic Activities of Octahedral Molecular Sieve Manganese Oxide for Total and Preferential CO Oxidation through Vanadium Ion Framework Substitution. ChemCatChem, 2013, 5, 2306-2317.	3.7	51
22	A high-performance potassium metal battery using safe ionic liquid electrolyte. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27847-27853.	7.1	49
23	Tungsten-Promoted Mesoporous Group 4 (Ti, Zr, and Hf) Transition-Metal Oxides for Room-Temperature Solvent-Free Acetalization and Ketalization Reactions. Chemistry of Materials, 2014, 26, 2803-2813.	6.7	47
24	Combined experimental and computational study of CO oxidation promoted by Nb in manganese oxide octahedral molecular sieves. Applied Catalysis B: Environmental, 2015, 163, 361-369.	20.2	46
25	Benchmarking of manganese oxide materials with CO oxidation as catalysts for low temperature selective oxidation. Applied Catalysis B: Environmental, 2017, 204, 411-420.	20.2	45
26	Large-Scale Synthesis of Silver Manganese Oxide Nanofibers and Their Oxygen Reduction Properties. Journal of Physical Chemistry C, 2013, 117, 25352-25359.	3.1	38
27	Perspectives of spray pyrolysis for facile synthesis of catalysts and thin films: An introduction and summary of recent directions. Catalysis Today, 2014, 238, 87-94.	4.4	37
28	Highly Conductive In-SnO ₂ /RGO Nano-Heterostructures with Improved Lithium-Ion Battery Performance. Scientific Reports, 2016, 6, 25860.	3.3	34
29	X-ray Absorption Spectroscopic Study of a Highly Thermally Stable Manganese Oxide Octahedral Molecular Sieve (OMS-2) with High Oxygen Reduction Reaction Activity. Chemistry of Materials, 2014, 26, 5752-5760.	6.7	32
30	An electrodeposition approach to metal/metal oxide heterostructures for active hydrogen evolution catalysts in near-neutral electrolytes. Nano Research, 2019, 12, 1431-1435.	10.4	31
31	High-rate and long-life of Li-ion batteries using reduced graphene oxide/Co ₃ O ₄ as anode materials. RSC Advances, 2016, 6, 24320-24330.	3.6	25
32	Large Scale Synthesis of Manganese Oxide/Reduced Graphene Oxide Composites as Anode Materials for Long Cycle Lithium Ion Batteries. ACS Applied Energy Materials, 2021, 4, 5424-5433.	5.1	16
33	Super-hydrophobic "smart" sand for buried explosive detection. Sensors and Actuators B: Chemical, 2014, 195, 52-57.	7.8	11
34	Metal Oxide/Reduced Graphene Oxide Anodes for Lithium-Ion Batteries. ECS Transactions, 2015, 66, 47-55.	0.5	5
35	First-principles study of carbon capture and storage properties of porous MnO ₂ octahedral molecular sieve OMS-5. Powder Diffraction, 2019, 34, 13-20.	0.2	3
36	Preparation and characterization of shape-selective ZSM-5 catalyst for para-methyl ethylbenzene production with toluene and ethylene. Studies in Surface Science and Catalysis, 2010, , 271-274.	1.5	1