

# 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	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
2	Rechargeable Na/Cl <sub>2</sub> and Li/Cl <sub>2</sub> batteries. Nature, 2021, 596, 525-530.	27.8	103
3	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
4	Electroreduction of CO <sub>2</sub> to Formate on a Copper-Based Electrocatalyst at High Pressures with High Energy Conversion Efficiency. Journal of the American Chemical Society, 2020, 142, 7276-7282.	13.7	165
5	Solar-driven, highly sustained splitting of seawater into hydrogen and oxygen fuels. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6624-6629.	7.1	524
6	First-principles study of carbon capture and storage properties of porous MnO <sub>2</sub> octahedral molecular sieveOMS-5. Powder Diffraction, 2019, 34, 13-20.	0.2	3
7	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
8	Highly active oxygen evolution integrated with efficient CO <sub>2</sub> to CO electroreduction. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23915-23922.	7.1	58
9	Mechanism studies on methyl orange dye degradation by perovskite-type LaNiO <sub>3</sub> under dark ambient conditions. Applied Catalysis A: General, 2018, 549, 302-309.	4.3	74
10	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
11	Ni- and Mn-Promoted Mesoporous Co <sub>3</sub> O <sub>4</sub> : A Stable Bifunctional Catalyst with Surface-Structure-Dependent Activity for Oxygen Reduction Reaction and Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2016, 8, 20802-20813.	8.0	191
12	Highly Conductive In-SnO <sub>2</sub> /RGO Nano-Heterostructures with Improved Lithium-Ion Battery Performance. Scientific Reports, 2016, 6, 25860.	3.3	34
13	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. Journal of Materials Chemistry A, 2016, 4, 4161-4171.	10.3	165
14	High-rate and long-life of Li-ion batteries using reduced graphene oxide/Co <sub>3</sub> O <sub>4</sub> as anode materials. RSC Advances, 2016, 6, 24320-24330.	3.6	25
15	Fabrication of novel heterostructured few layered WS <sub>2</sub> -Bi <sub>2</sub> WO <sub>6</sub> /Bi <sub>3.84</sub> WO <sub>6.24</sub> composites with enhanced photocatalytic performance. Applied Catalysis B: Environmental, 2015, 179, 220-228.	20.2	78
16	Metal Oxide/Reduced Graphene Oxide Anodes for Lithium-Ion Batteries. ECS Transactions, 2015, 66, 47-55.	0.5	5
17	High-Performance Catalytic CH <sub>4</sub> Oxidation at Low Temperatures: Inverse Micelle Synthesis of Amorphous Mesoporous Manganese Oxides and Mild Transformation to K <sub>2</sub> â€“xMn <sub>8</sub> O <sub>16</sub> and $\mu$ -MnO <sub>2</sub> . Journal of Physical Chemistry C, 2015, 119, 1473-1482.	3.1	56
18	Crystalline Mixed Phase (Anatase/Rutile) Mesoporous Titanium Dioxides for Visible Light Photocatalytic Activity. Chemistry of Materials, 2015, 27, 6-17.	6.7	213

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19	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
20	Combined experimental and computational study of CO oxidation promoted by Nb in manganese oxide octahedral molecular sieves. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 361-369.	20.2	46
21	The Viability of Photocatalysis for Air Purification. <i>Molecules</i> , 2015, 20, 1319-1356.	3.8	72
22	Low Temperature Desulfurization of H <sub>2</sub> S: High Sorption Capacities by Mesoporous Cobalt Oxide via Increased H <sub>2</sub> S Diffusion. <i>Chemistry of Materials</i> , 2014, 26, 6613-6621.	6.7	54
23	Heterogeneous acidic TiO <sub>2</sub> nanoparticles for efficient conversion of biomass derived carbohydrates. <i>Green Chemistry</i> , 2014, 16, 785.	9.0	122
24	Super-hydrophobic "smart" sand for buried explosive detection. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 52-57.	7.8	11
25	Microwave-Assisted Hydrothermal Synthesis of $\gamma$ -MnO <sub>2</sub> : Lattice Expansion via Rapid Temperature Ramping and Framework Substitution. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20363-20373.	3.1	56
26	Mesoporous Co <sub>3</sub> O <sub>4</sub> with Controlled Porosity: Inverse Micelle Synthesis and High-Performance Catalytic CO Oxidation at ~60 Å°C. <i>Chemistry of Materials</i> , 2014, 26, 4629-4639.	6.7	312
27	Tungsten-Promoted Mesoporous Group 4 (Ti, Zr, and Hf) Transition-Metal Oxides for Room-Temperature Solvent-Free Acetalization and Ketalization Reactions. <i>Chemistry of Materials</i> , 2014, 26, 2803-2813.	6.7	47
28	Monolithically Integrated Spinel M <sub>3</sub> Co <sub>3</sub> O <sub>4</sub> (M=Co, Ni, Zn) Nanoarray Catalysts: Scalable Synthesis and Cation Manipulation for Tunable Low-Temperature CH <sub>4</sub> and CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7223-7227.	13.8	170
29	Structure-Property Relationship of Bifunctional MnO <sub>2</sub> 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
30	X-ray Absorption Spectroscopic Study of a Highly Thermally Stable Manganese Oxide Octahedral Molecular Sieve (OMS-2) with High Oxygen Reduction Reaction Activity. <i>Chemistry of Materials</i> , 2014, 26, 5752-5760.	6.7	32
31	Perspectives of spray pyrolysis for facile synthesis of catalysts and thin films: An introduction and summary of recent directions. <i>Catalysis Today</i> , 2014, 238, 87-94.	4.4	37
32	Enhancement of Catalytic Activities of Octahedral Molecular Sieve Manganese Oxide for Total and Preferential CO Oxidation through Vanadium Ion Framework Substitution. <i>ChemCatChem</i> , 2013, 5, 2306-2317.	3.7	51
33	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
34	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
35	Large-Scale Synthesis of Silver Manganese Oxide Nanofibers and Their Oxygen Reduction Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25352-25359.	3.1	38
36	Preparation and characterization of shape-selective ZSM-5 catalyst for para-methyl ethylbenzene production with toluene and ethylene. <i>Studies in Surface Science and Catalysis</i> , 2010, , 271-274.	1.5	1