

Sourav Biswas

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,969
citations

304743

22
h-index

414414

32
g-index

35
all docs

35
docs citations

35
times ranked

3299
citing authors

#	ARTICLE	IF	CITATIONS
1	A general approach to crystalline and monomodal pore size mesoporous materials. <i>Nature Communications</i> , 2013, 4, 2952.	12.8	216
2	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
3	Robust Mesoporous Manganese Oxide Catalysts for Water Oxidation. <i>ACS Catalysis</i> , 2015, 5, 1693-1699.	11.2	178
4	Aerobic Oxidation of Amines to Imines by Cesium-Promoted Mesoporous Manganese Oxide. <i>ACS Catalysis</i> , 2015, 5, 4394-4403.	11.2	151
5	Tunable mesoporous manganese oxide for high performance oxygen reduction and evolution reactions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 620-631.	10.3	113
6	Mesoporous Manganese Oxide Catalyzed Aerobic Oxidative Coupling of Anilines To Aromatic Azo Compounds. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2171-2175.	13.8	102
7	Mesoporous manganese oxides for NO ₂ assisted catalytic soot oxidation. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 543-551.	20.2	92
8	Facet-dependent catalytic activity of MnO electrocatalysts for oxygen reduction and oxygen evolution reactions. <i>Chemical Communications</i> , 2015, 51, 5951-5954.	4.1	84
9	Mesoporous Copper/Manganese Oxide Catalyzed Coupling of Alkynes: Evidence for Synergistic Cooperative Catalysis. <i>ACS Catalysis</i> , 2016, 6, 5069-5080.	11.2	75
10	Manganese Oxide Nanoarray-Based Monolithic Catalysts: Tunable Morphology and High Efficiency for CO Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7834-7842.	8.0	73
11	Ligand-Assisted Co-Assembly Approach toward Mesoporous Hybrid Catalysts of Transition-Metal Oxides and Noble Metals: Photochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9061-9065.	13.8	66
12	Heterogeneous mesoporous manganese/cobalt oxide catalysts for selective oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran. <i>Chemical Communications</i> , 2017, 53, 11751-11754.	4.1	65
13	Controllable synthesis of mesoporous cobalt oxide for peroxide free catalytic epoxidation of alkenes under aerobic conditions. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 681-690.	20.2	61
14	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
15	High-Performance Catalytic CH ₄ Oxidation at Low Temperatures: Inverse Micelle Synthesis of Amorphous Mesoporous Manganese Oxides and Mild Transformation to K ₂ Co ₈ O ₁₆ and μ-MnO ₂ . <i>Journal of Physical Chemistry C</i> , 2015, 119, 1473-1482.	3.1	56
16	Mesoporous Manganese Oxide Catalyzed Aerobic Oxidative Coupling of Anilines To Aromatic Azo Compounds. <i>Angewandte Chemie</i> , 2016, 128, 2211-2215.	2.0	47
17	Heterogeneous mesoporous manganese oxide catalyst for aerobic and additive-free oxidative aromatization of N-heterocycles. <i>Chemical Communications</i> , 2017, 53, 2256-2259.	4.1	40
18	Quinone-Mediated Electrochemical O ₂ Reduction Accessing High Power Density with an Off-Electrode Co-N/C Catalyst. <i>Joule</i> , 2018, 2, 2722-2731.	24.0	38

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19	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
20	Ullmann Reaction Catalyzed by Heterogeneous Mesoporous Copper/Manganese Oxide: A Kinetic and Mechanistic Analysis. <i>Inorganic Chemistry</i> , 2017, 56, 10290-10297.	4.0	36
21	Chemical and Electrochemical O ₂ Reduction on Earth-Abundant M-N-C Catalysts and Implications for Mediated Electrolysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 922-927.	13.7	29
22	High-rate and long-life of Li-ion batteries using reduced graphene oxide/Co ₃ O ₄ as anode materials. <i>RSC Advances</i> , 2016, 6, 24320-24330.	3.6	25
23	Facile access to versatile functional groups from alcohol by single multifunctional reusable catalyst. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 607-614.	20.2	21
24	Comprehensive Magnetic Study of Nanostructured Mesoporous Manganese Oxide Materials and Implications for Catalytic Behavior. <i>Chemistry of Materials</i> , 2018, 30, 1164-1177.	6.7	19
25	Modified inverse micelle synthesis for mesoporous alumina with a high D4 siloxane adsorption capacity. <i>Microporous and Mesoporous Materials</i> , 2017, 239, 328-335.	4.4	18
26	Heterogeneous Catalytic Oxidation of Amides to Imides by Manganese Oxides. <i>Scientific Reports</i> , 2018, 8, 13649.	3.3	16
27	Antraquinone-Mediated Fuel Cell Anode with an Off-Electrode Heterogeneous Catalyst Accessing High Power Density When Paired with a Mediated Cathode. <i>ACS Energy Letters</i> , 2020, 5, 1407-1412.	17.4	15
28	Bimodification of Mesoporous Silicon Oxide by Coupled <i>in situ</i> Oxidation at the Interface and Ion Exchange and its Catalytic Activity in the Gas Phase Toluene Oxidation. <i>ChemCatChem</i> , 2013, 5, 920-930.	3.7	13
29	Water-Gas-Shift over Metal-Free Nanocrystalline Ceria: An Experimental and Theoretical Study. <i>ChemCatChem</i> , 2017, 9, 1373-1377.	3.7	13
30	Impedance Spectroscopy Screening of Various Nanocrystalline Metal Oxides: Effect of Lithiation on Electrical Properties. <i>Energy Technology</i> , 2017, 5, 1407-1414.	3.8	3
31	Aerobic Self-Esterification of Alcohols Assisted by Mesoporous Manganese and Cobalt Oxide. <i>ChemCatChem</i> , 2019, 11, 3413-3422.	3.7	3