

Shuang Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

2,243

citations

25

h-index

47

g-index

64

ext. papers

2,874

ext. citations

9.9

avg, IF

5.3

L-index

#	Paper	IF	Citations
63	Intercalation pseudocapacitance of hollow carbon bubbles with multilayered shells for boosting K-ion storage. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 2075-2084	13	1
62	Biomaterialized Mesocrystal KCl Microreactor for Solid-State Synthesis of Non-Oxide Nanomaterials.. <i>Small Methods</i> , 2022 , e2101207	12.8	0
61	Model Ag/CeO ₂ catalysts for soot combustion: Roles of silver species and catalyst stability. <i>Chemical Engineering Journal</i> , 2022 , 430, 132802	14.7	1
60	Ozone-assisted diesel soot combustion over Mn ₂ O ₃ catalysts: A tandem work of different reactive phases. <i>Journal of Catalysis</i> , 2022 , 408, 56-63	7.3	1
59	A simple model catalyst study to distinguish the roles of different oxygen species in propane and soot combustion. <i>Applied Catalysis B: Environmental</i> , 2022 , 310, 121331	21.8	1
58	Liquid-State Templates for Constructing B, N, Co-Doping Porous Carbons with a Boosting of Potassium-Ion Storage Performance. <i>Advanced Energy Materials</i> , 2021 , 11, 2003215	21.8	32
57	BlainsHillsA New Model to Design Biomass-Derived Carbon Electrode Materials for High-Performance Potassium Ion Hybrid Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3931-3941	8.3	3
56	Highly reactive and thermally stable Ag/YSZ catalysts with macroporous fiber-like morphology for soot combustion. <i>Applied Catalysis B: Environmental</i> , 2021 , 294, 120271	21.8	8
55	Robust /TiO ₂ Catalysts for Hydrocarbon Combustion: Effects of Pt-TiOx Interaction and Sulfates. <i>ACS Catalysis</i> , 2020 , 10, 13543-13548	13.1	11
54	Controlled Design of Well-Dispersed Ultrathin MoS ₂ Nanosheets inside Hollow Carbon Skeleton: Toward Fast Potassium Storage by Constructing Spacious Houses for K Ions. <i>Advanced Functional Materials</i> , 2020 , 30, 1908755	15.6	73
53	Review of Plasma-Assisted Catalysis for Selective Generation of Oxygenates from CO ₂ and CH ₄ . <i>ACS Catalysis</i> , 2020 , 10, 2855-2871	13.1	51
52	Rigid-Flexible Coupling Carbon Skeleton and Potassium-Carbonate-Dominated Solid Electrolyte Interface Achieving Superior Potassium-Ion Storage. <i>ACS Nano</i> , 2020 , 14, 4938-4949	16.7	43
51	SmMn ₂ O ₅ catalysts modified with silver for soot oxidation: Dispersion of silver and distortion of mullite. <i>Applied Catalysis B: Environmental</i> , 2020 , 273, 119058	21.8	22
50	Bio-derived yellow porous TiO: the lithiation induced activation of an oxygen-vacancy dominated TiO lattice evoking a large boost in lithium storage performance. <i>Nanoscale</i> , 2020 , 12, 746-754	7.7	7
49	Space-Confined Fabrication of MoS ₂ @Carbon Tubes with Semienclosed Architecture Achieving Superior Cycling Capability for Sodium Ion Storage. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000953	4.6	4
48	Size effect of Pt nanoparticles in acid-assisted soot oxidation in the presence of NO. <i>Journal of Environmental Sciences</i> , 2020 , 94, 64-71	6.4	2
47	Template-assisted loading of FeO nanoparticles inside hollow carbon "rooms" to achieve high volumetric lithium storage. <i>Nanoscale</i> , 2020 , 12, 10816-10826	7.7	12

46	In situ regeneration of sulfated Cu/SAPO-34 catalyst for the selective catalytic reduction of NO _x with NH ₃ . <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019 , 128, 1065-1077	1.6	0
45	Bioinspired Mineralization under Freezing Conditions: An Approach to Fabricate Porous Carbons with Complicated Architecture and Superior K Storage Performance. <i>ACS Nano</i> , 2019 , 13, 11582-11592	16.7	91
44	Bio-derived 3D TiO ₂ hollow spheres with a mesocrystal nanostructure to achieve improved electrochemical performance of Na-ion batteries in ether-based electrolytes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3399-3407	13	13
43	Soot oxidation over CeO ₂ -ZrO ₂ based catalysts: The influence of external surface and low-temperature reducibility. <i>Molecular Catalysis</i> , 2019 , 467, 16-23	3.3	12
42	Ozone activated Ag/CeO ₂ catalysts for soot combustion: The surface and structural influences. <i>Chemical Engineering Journal</i> , 2019 , 375, 121961	14.7	17
41	A robust core-shell silver soot oxidation catalyst driven by Co ₃ O ₄ : Effect of tandem oxygen delivery and Co ₃ O ₄ -CeO ₂ synergy. <i>Applied Catalysis B: Environmental</i> , 2019 , 250, 132-142	21.8	45
40	Dependence of shear strength of Sn _{0.8} Ag _{0.7} Cu/Co solder joints on the P content of Co metallization. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 5249-5256	2.1	0
39	Thermally stable Ag/Al ₂ O ₃ confined catalysts with high diffusion-induced oxidation activity. <i>Catalysis Today</i> , 2019 , 332, 189-194	5.3	9
38	Cable-like heterogeneous porous carbon fibers with ultrahigh-rate capability and long cycle life for fast charging lithium-ion storage devices. <i>Nanoscale</i> , 2019 , 11, 20893-20902	7.7	1
37	Visualization of technical and tactical characteristics in fencing. <i>Journal of Visualization</i> , 2019 , 22, 109-124	6	2
36	Simple Strategy Generating Hydrothermally Stable Core-shell Platinum Catalysts with Tunable Distribution of Acid Sites. <i>ACS Catalysis</i> , 2018 , 8, 2796-2804	13.1	23
35	A novel anode modified by 1,5-dihydroxyanthraquinone/multiwalled carbon nanotubes composite in marine sediment microbial fuel cell and its electrochemical performance. <i>International Journal of Energy Research</i> , 2018 , 42, 2574-2582	4.5	5
34	Non-carbon coating: a new strategy for improving lithium ion storage of carbon matrix. <i>Green Chemistry</i> , 2018 , 20, 3954-3962	10	11
33	Roles of cobalt and cerium species in three-dimensionally ordered macroporous CoCeO catalysts for the catalytic oxidation of diesel soot. <i>Journal of Colloid and Interface Science</i> , 2018 , 532, 579-587	9.3	23
32	Study of Ag promoted Fe ₂ O ₃ @CeO ₂ as superior soot oxidation catalysts: The role of Fe ₂ O ₃ crystal plane and tandem oxygen delivery. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 251-262	21.8	57
31	MnO _x /CeO ₂ mixed oxides for diesel soot oxidation: a review. <i>Catalysis Surveys From Asia</i> , 2018 , 22, 230-248	8	21
30	Roles of oxygen vacancy and O ₂ in oxidation reactions over CeO ₂ and Ag/CeO ₂ nanorod model catalysts. <i>Journal of Catalysis</i> , 2018 , 368, 365-378	7.3	65
29	Marine-Biomass-Derived Porous Carbon Sheets with a Tunable N-Doping Content for Superior Sodium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38376-38386	9.5	41

28	Fibrous Bio-Carbon Foams: A New Material for Lithium-Ion Hybrid Supercapacitors with Ultrahigh Integrated Energy/Power Density and Ultralong Cycle Life. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14989-15000	8.3	25
27	An exploration of soot oxidation over CeO ₂ -ZrO ₂ nanocubes: Do more surface oxygen vacancies benefit the reaction?. <i>Catalysis Today</i> , 2017 , 281, 454-459	5.3	43
26	A novel insight into enhanced propane combustion performance on PtUSY catalyst. <i>Rare Metals</i> , 2017 , 36, 1-9	5.5	52
25	Biogel-Derived Polycrystalline MnO Spheres/S-Doped Carbon Composites with Enhanced Performance as Anode Materials for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2017 , 4, 1411-1418	4.3	10
24	Activation and deactivation of Ag/CeO ₂ during soot oxidation: influences of interfacial ceria reduction. <i>Catalysis Science and Technology</i> , 2017 , 7, 2129-2139	5.5	39
23	Squid inks-derived nanocarbons with unique @pearls structure for high performance supercapacitors. <i>Journal of Power Sources</i> , 2017 , 354, 116-123	8.9	28
22	Controllable synthesis of supported platinum catalysts: acidic support effect and soot oxidation catalysis. <i>Catalysis Science and Technology</i> , 2017 , 7, 3268-3274	5.5	7
21	Rich sulfur doped porous carbon materials derived from ginkgo leaves for multiple electrochemical energy storage devices. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2204-2214	13	146
20	Squid Ink-Assisted Fabricating MoS ₂ Nanosheets/Ultrafine Biocarbon Spheres Composites with an Enhanced Lithium Ion Storage Performance. <i>ChemistrySelect</i> , 2017 , 2, 8643-8649	1.8	4
19	Study of Ag/CeO ₂ catalysts for naphthalene oxidation: Balancing the oxygen availability and oxygen regeneration capacity. <i>Applied Catalysis B: Environmental</i> , 2017 , 219, 231-240	21.8	42
18	Aggregation and redispersion of silver species on alumina and sulphated alumina supports for soot oxidation. <i>Catalysis Science and Technology</i> , 2017 , 7, 3524-3530	5.5	15
17	Study of Ag/Ce Nd _{1-x} O ₂ nanocubes as soot oxidation catalysts for gasoline particulate filters: Balancing catalyst activity and stability by Nd doping. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 116-126	21.8	67
16	Effect of water vapor on sulfur poisoning of MnO _x /CeO ₂ /Al ₂ O ₃ catalyst for diesel soot oxidation. <i>RSC Advances</i> , 2016 , 6, 57033-57040	3.7	8
15	Modification of PdO/CeO ₂ /ZrO ₂ catalyst by MnO _x for water-gas shift reaction: redox property and valence state of Pd. <i>Journal of Materials Science</i> , 2016 , 51, 5377-5387	4.3	5
14	Soot oxidation over CeO ₂ and Ag/CeO ₂ : Factors determining the catalyst activity and stability during reaction. <i>Journal of Catalysis</i> , 2016 , 337, 188-198	7.3	204
13	N, O-codoped hierarchical porous carbons derived from algae for high-capacity supercapacitors and battery anodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5973-5983	13	206
12	Modifying porous carbon nanofibers with MnO _x /CeO ₂ /Al ₂ O ₃ mixed oxides for NO catalytic oxidation at room temperature. <i>Catalysis Science and Technology</i> , 2016 , 6, 422-425	5.5	17
11	Pt/Zeolite Catalysts for Soot Oxidation: Influence of Hydrothermal Aging. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17218-17227	3.8	21

10	Ceria-based catalysts for soot oxidation: a review. <i>Journal of Rare Earths</i> , 2015 , 33, 567-590	3.7	154
9	A low-cost and one-step synthesis of a novel hierarchically porous Fe ₃ O ₄ /C composite with exceptional porosity and superior Li ⁺ storage performance. <i>RSC Advances</i> , 2015 , 5, 102993-102999	3.7	7
8	Roles of Acid Sites on Pt/H-ZSM5 Catalyst in Catalytic Oxidation of Diesel soot. <i>ACS Catalysis</i> , 2015 , 5, 909-919	13.1	83
7	Effects of baria on propane oxidation activity of Pd/Al ₂ O ₃ catalyst: PdBaO interaction and reaction routes. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 280-286	3.6	7
6	Sulfation of Pt/Al ₂ O ₃ catalyst for soot oxidation: High utilization of NO ₂ and oxidation of surface oxygenated complexes. <i>Applied Catalysis B: Environmental</i> , 2013 , 138-139, 199-211	21.8	51
5	Synergistic effect between MnO and CeO ₂ in the physical mixture: Electronic interaction and NO oxidation activity. <i>Journal of Rare Earths</i> , 2013 , 31, 1141-1147	3.7	37
4	Total oxidation of propane on Pt/WO _x /Al ₂ O ₃ catalysts by formation of metastable Pt ^{δ+} species interacted with WO _x clusters. <i>Journal of Hazardous Materials</i> , 2012 , 225-226, 146-54	12.8	69
3	Combined promoting effects of platinum and MnO _x /CeO ₂ supported on alumina on NO _x -assisted soot oxidation: Thermal stability and sulfur resistance. <i>Chemical Engineering Journal</i> , 2012 , 203, 25-35	14.7	60
2	Effects of tungsten oxide on soot oxidation activity and sulfur poisoning resistance of Pt/Al ₂ O ₃ catalyst. <i>Catalysis Science and Technology</i> , 2011 , 1, 644	5.5	24
1	MnO _x -CeO ₂ -Al ₂ O ₃ mixed oxides for soot oxidation: activity and thermal stability. <i>Journal of Hazardous Materials</i> , 2011 , 187, 283-90	12.8	103