

# Shuang Liu

## List of Publications by Citations

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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	N, O-codoped hierarchical porous carbons derived from algae for high-capacity supercapacitors and battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 5973-5983	13	206
62	Soot oxidation over CeO <sub>2</sub> and Ag/CeO <sub>2</sub> : Factors determining the catalyst activity and stability during reaction. <i>Journal of Catalysis</i> , <b>2016</b> , 337, 188-198	7.3	204
61	Ceria-based catalysts for soot oxidation: a review. <i>Journal of Rare Earths</i> , <b>2015</b> , 33, 567-590	3.7	154
60	Rich sulfur doped porous carbon materials derived from ginkgo leaves for multiple electrochemical energy storage devices. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 2204-2214	13	146
59	MnO <sub>x</sub> -CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> mixed oxides for soot oxidation: activity and thermal stability. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 187, 283-90	12.8	103
58	Bioinspired Mineralization under Freezing Conditions: An Approach to Fabricate Porous Carbons with Complicated Architecture and Superior K Storage Performance. <i>ACS Nano</i> , <b>2019</b> , 13, 11582-11592	16.7	91
57	Roles of Acid Sites on Pt/H-ZSM5 Catalyst in Catalytic Oxidation of Diesel soot. <i>ACS Catalysis</i> , <b>2015</b> , 5, 909-919	13.1	83
56	Controlled Design of Well-Dispersed Ultrathin MoS <sub>2</sub> Nanosheets inside Hollow Carbon Skeleton: Toward Fast Potassium Storage by Constructing Spacious Houses for K Ions. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908755	15.6	73
55	Total oxidation of propane on Pt/WO <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts by formation of metastable Pt <sup>δ</sup> species interacted with WO <sub>x</sub> clusters. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 225-226, 146-54	12.8	69
54	Study of Ag/Ce Nd <sub>1-x</sub> O <sub>2</sub> nanocubes as soot oxidation catalysts for gasoline particulate filters: Balancing catalyst activity and stability by Nd doping. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 203, 116-126	21.8	67
53	Roles of oxygen vacancy and O <sub>2</sub> in oxidation reactions over CeO <sub>2</sub> and Ag/CeO <sub>2</sub> nanorod model catalysts. <i>Journal of Catalysis</i> , <b>2018</b> , 368, 365-378	7.3	65
52	Combined promoting effects of platinum and MnO <sub>x</sub> /CeO <sub>2</sub> supported on alumina on NO <sub>x</sub> -assisted soot oxidation: Thermal stability and sulfur resistance. <i>Chemical Engineering Journal</i> , <b>2012</b> , 203, 25-35	14.7	60
51	Study of Ag promoted Fe <sub>2</sub> O <sub>3</sub> @CeO <sub>2</sub> as superior soot oxidation catalysts: The role of Fe <sub>2</sub> O <sub>3</sub> crystal plane and tandem oxygen delivery. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 251-262	21.8	57
50	A novel insight into enhanced propane combustion performance on Pt/USY catalyst. <i>Rare Metals</i> , <b>2017</b> , 36, 1-9	5.5	52
49	Review of Plasma-Assisted Catalysis for Selective Generation of Oxygenates from CO <sub>2</sub> and CH <sub>4</sub> . <i>ACS Catalysis</i> , <b>2020</b> , 10, 2855-2871	13.1	51
48	Sulfation of Pt/Al <sub>2</sub> O <sub>3</sub> catalyst for soot oxidation: High utilization of NO <sub>2</sub> and oxidation of surface oxygenated complexes. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 138-139, 199-211	21.8	51
47	A robust core-shell silver soot oxidation catalyst driven by Co <sub>3</sub> O <sub>4</sub> : Effect of tandem oxygen delivery and Co <sub>3</sub> O <sub>4</sub> -CeO <sub>2</sub> synergy. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 250, 132-142	21.8	45

46	An exploration of soot oxidation over CeO <sub>2</sub> -ZrO <sub>2</sub> nanocubes: Do more surface oxygen vacancies benefit the reaction?. <i>Catalysis Today</i> , <b>2017</b> , 281, 454-459	5.3	43
45	Rigid-Flexible Coupling Carbon Skeleton and Potassium-Carbonate-Dominated Solid Electrolyte Interface Achieving Superior Potassium-Ion Storage. <i>ACS Nano</i> , <b>2020</b> , 14, 4938-4949	16.7	43
44	Study of Ag/CeO <sub>2</sub> catalysts for naphthalene oxidation: Balancing the oxygen availability and oxygen regeneration capacity. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 219, 231-240	21.8	42
43	Marine-Biomass-Derived Porous Carbon Sheets with a Tunable N-Doping Content for Superior Sodium-Ion Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 38376-38386	9.5	41
42	Activation and deactivation of Ag/CeO <sub>2</sub> during soot oxidation: influences of interfacial ceria reduction. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2129-2139	5.5	39
41	Synergistic effect between MnO and CeO <sub>2</sub> in the physical mixture: Electronic interaction and NO oxidation activity. <i>Journal of Rare Earths</i> , <b>2013</b> , 31, 1141-1147	3.7	37
40	Liquid-State Templates for Constructing B, N, Co-Doping Porous Carbons with a Boosting of Potassium-Ion Storage Performance. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003215	21.8	32
39	Squid inks-derived nanocarbons with unique @shell@pearls@structure for high performance supercapacitors. <i>Journal of Power Sources</i> , <b>2017</b> , 354, 116-123	8.9	28
38	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> , <b>2018</b> , 6, 14989-15000	8.3	25
37	Effects of tungsten oxide on soot oxidation activity and sulfur poisoning resistance of Pt/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Catalysis Science and Technology</i> , <b>2011</b> , 1, 644	5.5	24
36	Simple Strategy Generating Hydrothermally Stable Core@shell Platinum Catalysts with Tunable Distribution of Acid Sites. <i>ACS Catalysis</i> , <b>2018</b> , 8, 2796-2804	13.1	23
35	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> , <b>2018</b> , 532, 579-587	9.3	23
34	SmMn <sub>2</sub> O <sub>5</sub> catalysts modified with silver for soot oxidation: Dispersion of silver and distortion of mullite. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 273, 119058	21.8	22
33	Pt/Zeolite Catalysts for Soot Oxidation: Influence of Hydrothermal Aging. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 17218-17227	3.8	21
32	MnO <sub>x</sub> /CeO <sub>2</sub> mixed oxides for diesel soot oxidation: a review. <i>Catalysis Surveys From Asia</i> , <b>2018</b> , 22, 230-240	21.8	21
31	Ozone activated Ag/CeO <sub>2</sub> catalysts for soot combustion: The surface and structural influences. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 121961	14.7	17
30	Modifying porous carbon nanofibers with MnO <sub>x</sub> /CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> mixed oxides for NO catalytic oxidation at room temperature. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 422-425	5.5	17
29	Aggregation and redispersion of silver species on alumina and sulphated alumina supports for soot oxidation. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 3524-3530	5.5	15

28	Bio-derived 3D TiO <sub>2</sub> 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> , <b>2019</b> , 7, 3399-3407	13	13
27	Soot oxidation over CeO <sub>2</sub> -ZrO <sub>2</sub> based catalysts: The influence of external surface and low-temperature reducibility. <i>Molecular Catalysis</i> , <b>2019</b> , 467, 16-23	3.3	12
26	Template-assisted loading of FeO nanoparticles inside hollow carbon "rooms" to achieve high volumetric lithium storage. <i>Nanoscale</i> , <b>2020</b> , 12, 10816-10826	7.7	12
25	Robust [email protected]/TiO <sub>2</sub> Catalysts for Hydrocarbon Combustion: Effects of Pt-TiO <sub>x</sub> Interaction and Sulfates. <i>ACS Catalysis</i> , <b>2020</b> , 10, 13543-13548	13.1	11
24	Non-carbon coating: a new strategy for improving lithium ion storage of carbon matrix. <i>Green Chemistry</i> , <b>2018</b> , 20, 3954-3962	10	11
23	Biogel-Derived Polycrystalline MnO Spheres/S-Doped Carbon Composites with Enhanced Performance as Anode Materials for Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1411-1418	4.3	10
22	Thermally stable Ag/Al <sub>2</sub> O <sub>3</sub> confined catalysts with high diffusion-induced oxidation activity. <i>Catalysis Today</i> , <b>2019</b> , 332, 189-194	5.3	9
21	Effect of water vapor on sulfur poisoning of MnO <sub>x</sub> /CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst for diesel soot oxidation. <i>RSC Advances</i> , <b>2016</b> , 6, 57033-57040	3.7	8
20	Highly reactive and thermally stable Ag/YSZ catalysts with macroporous fiber-like morphology for soot combustion. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 294, 120271	21.8	8
19	Controllable synthesis of supported platinum catalysts: acidic support effect and soot oxidation catalysis. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 3268-3274	5.5	7
18	Effects of baria on propane oxidation activity of Pd/Al <sub>2</sub> O <sub>3</sub> catalyst: Pd/BaO interaction and reaction routes. <i>Progress in Natural Science: Materials International</i> , <b>2014</b> , 24, 280-286	3.6	7
17	A low-cost and one-step synthesis of a novel hierarchically porous Fe <sub>3</sub> O <sub>4</sub> /C composite with exceptional porosity and superior Li <sup>+</sup> storage performance. <i>RSC Advances</i> , <b>2015</b> , 5, 102993-102999	3.7	7
16	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> , <b>2020</b> , 12, 746-754	7.7	7
15	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> , <b>2018</b> , 42, 2574-2582	4.5	5
14	Modification of PdO/CeO <sub>2</sub> /ZrO <sub>2</sub> catalyst by MnO <sub>x</sub> for water-gas shift reaction: redox property and valence state of Pd. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 5377-5387	4.3	5
13	Squid Ink-Assisted Fabricating MoS <sub>2</sub> Nanosheets/Ultrafine Biocarbon Spheres Composites with an Enhanced Lithium Ion Storage Performance. <i>ChemistrySelect</i> , <b>2017</b> , 2, 8643-8649	1.8	4
12	Space-Confined Fabrication of MoS <sub>2</sub> @Carbon Tubes with Semienclosed Architecture Achieving Superior Cycling Capability for Sodium Ion Storage. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000953	4.6	4
11	Blains Hills: A New Model to Design Biomass-Derived Carbon Electrode Materials for High-Performance Potassium Ion Hybrid Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 3931-3941	8.3	3

10	Visualization of technical and tactical characteristics in fencing. <i>Journal of Visualization</i> , <b>2019</b> , 22, 109-124	6	2
9	Size effect of Pt nanoparticles in acid-assisted soot oxidation in the presence of NO. <i>Journal of Environmental Sciences</i> , <b>2020</b> , 94, 64-71	6.4	2
8	Intercalation pseudocapacitance of hollow carbon bubbles with multilayered shells for boosting K-ion storage. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 2075-2084	13	1
7	Model Ag/CeO <sub>2</sub> catalysts for soot combustion: Roles of silver species and catalyst stability. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132802	14.7	1
6	Cable-like heterogeneous porous carbon fibers with ultrahigh-rate capability and long cycle life for fast charging lithium-ion storage devices. <i>Nanoscale</i> , <b>2019</b> , 11, 20893-20902	7.7	1
5	Ozone-assisted diesel soot combustion over Mn <sub>2</sub> O <sub>3</sub> catalysts: A tandem work of different reactive phases. <i>Journal of Catalysis</i> , <b>2022</b> , 408, 56-63	7.3	1
4	A simple model catalyst study to distinguish the roles of different oxygen species in propane and soot combustion. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 310, 121331	21.8	1
3	In situ regeneration of sulfated Cu/SAPO-34 catalyst for the selective catalytic reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2019</b> , 128, 1065-1077	1.6	0
2	Dependence of shear strength of Sn <sub>85</sub> Ag <sub>10</sub> Cu <sub>5</sub> solder joints on the P content of Cu metallization. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 5249-5256	2.1	0
1	Biomaterialized Mesocrystal KCl Microreactor for Solid-State Synthesis of Non-Oxide Nanomaterials. <i>Small Methods</i> , <b>2022</b> , e2101207	12.8	0