

# Shuang Liu

## List of Publications by Year in descending order

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64  
papers

3,399  
citations

159585

30  
h-index

144013

57  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3474  
citing authors

#	ARTICLE	IF	CITATIONS
1	Model Ag/CeO <sub>2</sub> catalysts for soot combustion: Roles of silver species and catalyst stability. <i>Chemical Engineering Journal</i> , 2022, 430, 132802.	12.7	12
2	Biomaterialized Mesocrystal KCl Microreactor for Solid-State Synthesis of Non-Oxide Nanomaterials. <i>Small Methods</i> , 2022, , 2101207.	8.6	2
3	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.	10.3	6
4	N-doped engineering of a high-voltage LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathode with superior cycling capability for wide temperature lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12214-12225.	2.8	6
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> , 2022, 408, 56-63.	6.2	15
6	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.	20.2	17
7	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.	19.5	99
8	“Plains” 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> , 2021, 9, 3931-3941.	6.7	8
9	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.	20.2	29
10	Bio-derived yellow porous TiO <sub>2</sub> : the lithiation induced activation of an oxygen-vacancy dominated TiO <sub>2</sub> lattice evoking a large boost in lithium storage performance. <i>Nanoscale</i> , 2020, 12, 746-754.	5.6	9
11	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> , 2020, 7, 2000953.	3.7	10
12	Robust Pt@TiO <sub>2</sub> /TiO <sub>2</sub> Catalysts for Hydrocarbon Combustion: Effects of Pt-TiO <sub>2</sub> Interaction and Sulfates. <i>ACS Catalysis</i> , 2020, 10, 13543-13548.	11.2	47
13	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> , 2020, 30, 1908755.	14.9	138
14	Review of Plasma-Assisted Catalysis for Selective Generation of Oxygenates from CO <sub>2</sub> and CH <sub>4</sub> . <i>ACS Catalysis</i> , 2020, 10, 2855-2871.	11.2	118
15	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.	14.6	67
16	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> , 2020, 273, 119058.	20.2	56
17	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.	6.1	14
18	Template-assisted loading of Fe <sub>3</sub> O <sub>4</sub> nanoparticles inside hollow carbon “rooms” to achieve high volumetric lithium storage. <i>Nanoscale</i> , 2020, 12, 10816-10826.	5.6	27

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19	Thermally stable Ag/Al <sub>2</sub> O <sub>3</sub> confined catalysts with high diffusion-induced oxidation activity. <i>Catalysis Today</i> , 2019, 332, 189-194.	4.4	18
20	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> , 2019, 128, 1065-1077.	1.7	2
21	Bioinspired Mineralization under Freezing Conditions: An Approach to Fabricate Porous Carbons with Complicated Architecture and Superior K <sup>+</sup> Storage Performance. <i>ACS Nano</i> , 2019, 13, 11582-11592.	14.6	146
22	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> , 2019, 7, 3399-3407.	10.3	24
23	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> , 2019, 467, 16-23.	2.0	20
24	Ozone activated Ag/CeO <sub>2</sub> catalysts for soot combustion: The surface and structural influences. <i>Chemical Engineering Journal</i> , 2019, 375, 121961.	12.7	28
25	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> , 2019, 250, 132-142.	20.2	71
26	Dependence of shear strength of Sn <sub>3.8</sub> Ag <sub>0.7</sub> Cu/Co <sub>2</sub> P solder joints on the P content of Co <sub>2</sub> P metallization. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 5249-5256.	2.2	4
27	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.	5.6	1
28	Visualization of technical and tactical characteristics in fencing. <i>Journal of Visualization</i> , 2019, 22, 109-124.	1.8	3
29	Simple Strategy Generating Hydrothermally Stable Core-Shell Platinum Catalysts with Tunable Distribution of Acid Sites. <i>ACS Catalysis</i> , 2018, 8, 2796-2804.	11.2	32
30	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	9
31	MnO <sub>x</sub> -CeO <sub>2</sub> mixed oxides for diesel soot oxidation: a review. <i>Catalysis Surveys From Asia</i> , 2018, 22, 230-240.	2.6	33
32	Roles of oxygen vacancy and O <sup>•</sup> in oxidation reactions over CeO <sub>2</sub> and Ag/CeO <sub>2</sub> nanorod model catalysts. <i>Journal of Catalysis</i> , 2018, 368, 365-378.	6.2	102
33	Marine-Biomass-Derived Porous Carbon Sheets with a Tunable N-Doping Content for Superior Sodium-Ion Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38376-38386.	8.0	61
34	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.	6.7	35
35	Non-carbon coating: a new strategy for improving lithium ion storage of carbon matrix. <i>Green Chemistry</i> , 2018, 20, 3954-3962.	9.0	12
36	Roles of cobalt and cerium species in three-dimensionally ordered macroporous Co <sub>2</sub> -O catalysts for the catalytic oxidation of diesel soot. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 579-587.	9.4	36

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37	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> , 2018, 237, 251-262.	20.2	94
38	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> , 2017, 281, 454-459.	4.4	57
39	A novel insight into enhanced propane combustion performance on Pt/USY catalyst. <i>Rare Metals</i> , 2017, 36, 1-9.	7.1	64
40	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.	3.4	12
41	Activation and deactivation of Ag/CeO <sub>2</sub> during soot oxidation: influences of interfacial ceria reduction. <i>Catalysis Science and Technology</i> , 2017, 7, 2129-2139.	4.1	55
42	Squid inks-derived nanocarbons with unique "shell@pearls" structure for high performance supercapacitors. <i>Journal of Power Sources</i> , 2017, 354, 116-123.	7.8	38
43	Controllable synthesis of supported platinum catalysts: acidic support effect and soot oxidation catalysis. <i>Catalysis Science and Technology</i> , 2017, 7, 3268-3274.	4.1	9
44	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.	10.3	183
45	Squid Ink-assisted Fabricating MoS <sub>2</sub> Nanosheets/Ultrafine Biocarbon Spheres Composites with an Enhanced Lithium Ion Storage Performance. <i>ChemistrySelect</i> , 2017, 2, 8643-8649.	1.5	7
46	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> , 2017, 219, 231-240.	20.2	62
47	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.	4.1	21
48	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> , 2017, 203, 116-126.	20.2	89
49	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> , 2016, 6, 57033-57040.	3.6	8
50	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> , 2016, 51, 5377-5387.	3.7	8
51	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> , 2016, 337, 188-198.	6.2	278
52	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.	10.3	256
53	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> , 2016, 6, 422-425.	4.1	20
54	Ceria-based catalysts for soot oxidation: a review. <i>Journal of Rare Earths</i> , 2015, 33, 567-590.	4.8	216

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55	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. RSC Advances, 2015, 5, 102993-102999.	3.6	7
56	Roles of Acid Sites on Pt/H-ZSM5 Catalyst in Catalytic Oxidation of Diesel soot. ACS Catalysis, 2015, 5, 909-919.	11.2	112
57	Pt/Zeolite Catalysts for Soot Oxidation: Influence of Hydrothermal Aging. Journal of Physical Chemistry C, 2015, 119, 17218-17227.	3.1	34
58	Effects of baria on propane oxidation activity of Pd/Al <sub>2</sub> O <sub>3</sub> catalyst: Pd-BaO interaction and reaction routes. Progress in Natural Science: Materials International, 2014, 24, 280-286.	4.4	11
59	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. Applied Catalysis B: Environmental, 2013, 138-139, 199-211.	20.2	66
60	Synergistic effect between MnO and CeO <sub>2</sub> in the physical mixture: Electronic interaction and NO oxidation activity. Journal of Rare Earths, 2013, 31, 1141-1147.	4.8	49
61	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>+</sup> species interacted with WO <sub>x</sub> clusters. Journal of Hazardous Materials, 2012, 225-226, 146-154.	12.4	102
62	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. Chemical Engineering Journal, 2012, 203, 25-35.	12.7	71
63	Effects of tungsten oxide on soot oxidation activity and sulfur poisoning resistance of Pt/Al <sub>2</sub> O <sub>3</sub> catalyst. Catalysis Science and Technology, 2011, 1, 644.	4.1	26
64	MnO-CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> mixed oxides for soot oxidation: Activity and thermal stability. Journal of Hazardous Materials, 2011, 187, 283-290.	12.4	127