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	Soot oxidation over CeO2 and Ag/CeO2: Factors determining the catalyst activity and stability during reaction. Journal of Catalysis, 2016, 337, 188-198.	6.2	278
2	N, O-codoped hierarchical porous carbons derived from algae for high-capacity supercapacitors and battery anodes. Journal of Materials Chemistry A, 2016, 4, 5973-5983.	10.3	256
3	Ceria-based catalysts for soot oxidation: a review. Journal of Rare Earths, 2015, 33, 567-590.	4.8	216
4	Rich sulfur doped porous carbon materials derived from ginkgo leaves for multiple electrochemical energy storage devices. Journal of Materials Chemistry A, 2017, 5, 2204-2214.	10.3	183
5	Bioinspired Mineralization under Freezing Conditions: An Approach to Fabricate Porous Carbons with Complicated Architecture and Superior K⁺ Storage Performance. ACS Nano, 2019, 13, 11582-11592.	14.6	146
6	Controlled Design of Wellâ€Dispersed Ultrathin MoS₂ Nanosheets inside Hollow Carbon Skeleton: Toward Fast Potassium Storage by Constructing Spacious â€œHousesâ€• for K Ions. Advanced Functional Materials, 2020, 30, 1908755.	14.9	138
7	MnO â€“CeO2â€“Al2O3 mixed oxides for soot oxidation: Activity and thermal stability. Journal of Hazardous Materials, 2011, 187, 283-290.	12.4	127
8	Review of Plasma-Assisted Catalysis for Selective Generation of Oxygenates from CO₂ and CH₄. ACS Catalysis, 2020, 10, 2855-2871.	11.2	118
9	Roles of Acid Sites on Pt/H-ZSM5 Catalyst in Catalytic Oxidation of Diesel soot. ACS Catalysis, 2015, 5, 909-919.	11.2	112
10	Total oxidation of propane on Pt/WOx/Al2O3 catalysts by formation of metastable Ptδ+ species interacted with WOx clusters. Journal of Hazardous Materials, 2012, 225-226, 146-154.	12.4	102
11	Roles of oxygen vacancy and Oâ¯ in oxidation reactions over CeO2 and Ag/CeO2 nanorod model catalysts. Journal of Catalysis, 2018, 368, 365-378.	6.2	102
12	Liquidâ€State Templates for Constructing B, N, Coâ€Doping Porous Carbons with a Boosting of Potassiumâ€Ion Storage Performance. Advanced Energy Materials, 2021, 11, 2003215.	19.5	99
13	Study of Ag promoted Fe2O3@CeO2 as superior soot oxidation catalysts: The role of Fe2O3 crystal plane and tandem oxygen delivery. Applied Catalysis B: Environmental, 2018, 237, 251-262.	20.2	94
14	Study of Ag/Ce Nd1-O2 nanocubes as soot oxidation catalysts for gasoline particulate filters: Balancing catalyst activity and stability by Nd doping. Applied Catalysis B: Environmental, 2017, 203, 116-126.	20.2	89
15	Combined promoting effects of platinum and MnOxâ€“CeO2 supported on alumina on NOx-assisted soot oxidation: Thermal stability and sulfur resistance. Chemical Engineering Journal, 2012, 203, 25-35.	12.7	71
16	A robust core-shell silver soot oxidation catalyst driven by Co3O4: Effect of tandem oxygen delivery and Co3O4-CeO2 synergy. Applied Catalysis B: Environmental, 2019, 250, 132-142.	20.2	71
17	Rigid-Flexible Coupling Carbon Skeleton and Potassium-Carbonate-Dominated Solid Electrolyte Interface Achieving Superior Potassium-Ion Storage. ACS Nano, 2020, 14, 4938-4949.	14.6	67
18	Sulfation of Pt/Al2O3 catalyst for soot oxidation: High utilization of NO2 and oxidation of surface oxygenated complexes. Applied Catalysis B: Environmental, 2013, 138-139, 199-211.	20.2	66

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19	A novel insight into enhanced propane combustion performance on PtUSY catalyst. Rare Metals, 2017, 36, 1-9.	7.1	64
20	Study of Ag/CeO2 catalysts for naphthalene oxidation: Balancing the oxygen availability and oxygen regeneration capacity. Applied Catalysis B: Environmental, 2017, 219, 231-240.	20.2	62
21	Marine-Biomass-Derived Porous Carbon Sheets with a Tunable N-Doping Content for Superior Sodium-Ion Storage. ACS Applied Materials & Interfaces, 2018, 10, 38376-38386.	8.0	61
22	An exploration of soot oxidation over CeO2-ZrO2 nanocubes: Do more surface oxygen vacancies benefit the reaction?. Catalysis Today, 2017, 281, 454-459.	4.4	57
23	SmMn2O5 catalysts modified with silver for soot oxidation: Dispersion of silver and distortion of mullite. Applied Catalysis B: Environmental, 2020, 273, 119058.	20.2	56
24	Activation and deactivation of Ag/CeO₂ during soot oxidation: influences of interfacial ceria reduction. Catalysis Science and Technology, 2017, 7, 2129-2139.	4.1	55
25	Synergistic effect between MnO and CeO2 in the physical mixture: Electronic interaction and NO oxidation activity. Journal of Rare Earths, 2013, 31, 1141-1147.	4.8	49
26	Robust Pt@TiO_x/TiO₂ Catalysts for Hydrocarbon Combustion: Effects of Pt-TiO_x Interaction and Sulfates. ACS Catalysis, 2020, 10, 13543-13548.	11.2	47
27	Squid inks-derived nanocarbons with unique â€œshell@pearlsâ€•structure for high performance supercapacitors. Journal of Power Sources, 2017, 354, 116-123.	7.8	38
28	Roles of cobalt and cerium species in three-dimensionally ordered macroporous Co Ce1-O catalysts for the catalytic oxidation of diesel soot. Journal of Colloid and Interface Science, 2018, 532, 579-587.	9.4	36
29	Fibrous Bio-Carbon Foams: A New Material for Lithium-Ion Hybrid Supercapacitors with Ultrahigh Integrated Energy/Power Density and Ultralong Cycle Life. ACS Sustainable Chemistry and Engineering, 2018, 6, 14989-15000.	6.7	35
30	Pt/Zeolite Catalysts for Soot Oxidation: Influence of Hydrothermal Aging. Journal of Physical Chemistry C, 2015, 119, 17218-17227.	3.1	34
31	MnOxâ€“CeO2 mixed oxides for diesel soot oxidation: a review. Catalysis Surveys From Asia, 2018, 22, 230-240.	2.6	33
32	Simple Strategy Generating Hydrothermally Stable Coreâ€“Shell Platinum Catalysts with Tunable Distribution of Acid Sites. ACS Catalysis, 2018, 8, 2796-2804.	11.2	32
33	Highly reactive and thermally stable Ag/YSZ catalysts with macroporous fiber-like morphology for soot combustion. Applied Catalysis B: Environmental, 2021, 294, 120271.	20.2	29
34	Ozone activated Ag/CeO2 catalysts for soot combustion: The surface and structural influences. Chemical Engineering Journal, 2019, 375, 121961.	12.7	28
35	Template-assisted loading of Fe₃O₄ nanoparticles inside hollow carbon â€œroomsâ€•to achieve high volumetric lithium storage. Nanoscale, 2020, 12, 10816-10826.	5.6	27
36	Effects of tungsten oxide on soot oxidation activity and sulfur poisoning resistance of Pt/Al2O3 catalyst. Catalysis Science and Technology, 2011, 1, 644.	4.1	26

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37	Bio-derived 3D TiO₂ hollow spheres with a mesocrystal nanostructure to achieve improved electrochemical performance of Na-ion batteries in ether-based electrolytes. Journal of Materials Chemistry A, 2019, 7, 3399-3407.	10.3	24
38	Aggregation and redispersion of silver species on alumina and sulphated alumina supports for soot oxidation. Catalysis Science and Technology, 2017, 7, 3524-3530.	4.1	21
39	Modifying porous carbon nanofibers with MnO_xâ€“CeO₂â€“Al₂O₃ mixed oxides for NO catalytic oxidation at room temperature. Catalysis Science and Technology, 2016, 6, 422-425.	4.1	20
40	Soot oxidation over CeO2-ZrO2 based catalysts: The influence of external surface and low-temperature reducibility. Molecular Catalysis, 2019, 467, 16-23.	2.0	20
41	Thermally stable Ag/Al2O3 confined catalysts with high diffusion-induced oxidation activity. Catalysis Today, 2019, 332, 189-194.	4.4	18
42	A simple model catalyst study to distinguish the roles of different oxygen species in propane and soot combustion. Applied Catalysis B: Environmental, 2022, 310, 121331.	20.2	17
43	Ozone-assisted diesel soot combustion over Mn2O3 catalysts: A tandem work of different reactive phases. Journal of Catalysis, 2022, 408, 56-63.	6.2	15
44	Size effect of Pt nanoparticles in acid-assisted soot oxidation in the presence of NO. Journal of Environmental Sciences, 2020, 94, 64-71.	6.1	14
45	Biogelâ€Derived Polycrystalline MnO Spheres/Sâ€Doped Carbon Composites with Enhanced Performance as Anode Materials for Lithiumâ€Ion Batteries. ChemElectroChem, 2017, 4, 1411-1418.	3.4	12
46	Non-carbon coating: a new strategy for improving lithium ion storage of carbon matrix. Green Chemistry, 2018, 20, 3954-3962.	9.0	12
47	Model Ag/CeO2 catalysts for soot combustion: Roles of silver species and catalyst stability. Chemical Engineering Journal, 2022, 430, 132802.	12.7	12
48	Effects of baria on propane oxidation activity of Pd/Al2O3 catalyst: Pdâ€“BaO interaction and reaction routes. Progress in Natural Science: Materials International, 2014, 24, 280-286.	4.4	11
49	Spaceâ€Confined Fabrication of MoS₂@Carbon Tubes with Semienclosed Architecture Achieving Superior Cycling Capability for Sodium Ion Storage. Advanced Materials Interfaces, 2020, 7, 2000953.	3.7	10
50	Controllable synthesis of supported platinum catalysts: acidic support effect and soot oxidation catalysis. Catalysis Science and Technology, 2017, 7, 3268-3274.	4.1	9
51	A novel anode modified by 1,5-dihydroxyanthraquinone/multiwalled carbon nanotubes composite in marine sediment microbial fuel cell and its electrochemical performance. International Journal of Energy Research, 2018, 42, 2574-2582.	4.5	9
52	Bio-derived yellow porous TiO₂: the lithiation induced activation of an oxygen-vacancy dominated TiO₂ lattice evoking a large boost in lithium storage performance. Nanoscale, 2020, 12, 746-754.	5.6	9
53	Effect of water vapor on sulfur poisoning of MnO_xâ€“CeO₂/Al₂O₃ catalyst for diesel soot oxidation. RSC Advances, 2016, 6, 57033-57040.	3.6	8
54	Modification of PdO/CeO2â€“ZrO2 catalyst by MnO x for waterâ€“gas shift reaction: redox property and valence state of Pd. Journal of Materials Science, 2016, 51, 5377-5387.	3.7	8

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55	â€œPlainsâ€“Hillsâ€• A New Model to Design Biomass-Derived Carbon Electrode Materials for High-Performance Potassium Ion Hybrid Supercapacitors. ACS Sustainable Chemistry and Engineering, 2021, 9, 3931-3941.	6.7	8
56	A low-cost and one-step synthesis of a novel hierarchically porous Fe₃O₄/C composite with exceptional porosity and superior Li⁺ storage performance. RSC Advances, 2015, 5, 102993-102999.	3.6	7
57	Squid Inkâ€Assisted Fabricating MoS₂ Nanosheets/Ultrafine Biocarbon Spheres Composites with an Enhanced Lithium Ion Storage Performance. ChemistrySelect, 2017, 2, 8643-8649.	1.5	7
58	Intercalation pseudocapacitance of hollow carbon bubbles with multilayered shells for boosting K-ion storage. Journal of Materials Chemistry A, 2022, 10, 2075-2084.	10.3	6
59	N-doped engineering of a high-voltage LiNi_{0.5}Mn_{1.5}O₄ cathode with superior cycling capability for wide temperature lithiumâ€“ion batteries. Physical Chemistry Chemical Physics, 2022, 24, 12214-12225.	2.8	6
60	Dependence of shear strength of Snâ€“3.8Agâ€“0.7Cu/Coâ€“P solder joints on the P content of Coâ€“P metallization. Journal of Materials Science: Materials in Electronics, 2019, 30, 5249-5256.	2.2	4
61	Visualization of technical and tactical characteristics in fencing. Journal of Visualization, 2019, 22, 109-124.	1.8	3
62	In situ regeneration of sulfated Cu/SAPO-34 catalyst forÂthe selective catalytic reduction of NOx with NH3. Reaction Kinetics, Mechanisms and Catalysis, 2019, 128, 1065-1077.	1.7	2
63	Biomineralized Mesocrystal KCl Microreactor for Solidâ€State Synthesis of Nonâ€Oxide Nanomaterials. Small Methods, 2022, , 2101207.	8.6	2
64	Cable-like heterogeneous porous carbon fibers with ultrahigh-rate capability and long cycle life for fast charging lithium-ion storage devices. Nanoscale, 2019, 11, 20893-20902.	5.6	1