

Shaomin Liu

List of Publications by Year in descending order

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582
papers

34,805
citations

3334

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h-index

6996

154
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590
all docs

590
docs citations

590
times ranked

27845
citing authors

#	ARTICLE	IF	CITATIONS
1	The Mechanism of Piezocatalysis: Energy Band Theory or Screening Charge Effect?. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202110429.	13.8	79
2	The Mechanism of Piezocatalysis: Energy Band Theory or Screening Charge Effect?. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	34
3	Oxygen permeation simulation of $\text{La}_{0.8}\text{Ca}_{0.2}\text{Fe}_2\text{O}_{7-x}$ hollow fiber membrane at different modes and flow configurations. <i>AIChE Journal</i> , 2022, 68, e17508.		
4	Roadmap for Sustainable Mixed Ionicâ€Electronic Conducting Membranes. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	49
5	Graphitic carbon nitride nanosheets via acid pretreatments for promoted photocatalysis toward degradation of organic pollutants. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1334-1347.	9.4	20
6	Radio-frequency induction heating powered low-temperature catalytic CO ₂ conversion via bi-reforming of methane. <i>Chemical Engineering Journal</i> , 2022, 430, 132934.	12.7	22
7	Thermohydraulic and thermodynamics performance of hybrid nanofluids based parabolic trough solar collector equipped with wavy promoters. <i>Renewable Energy</i> , 2022, 182, 401-426.	8.9	23
8	Electrochemical reduction of nitrate in a catalytic carbon membrane nano-reactor. <i>Water Research</i> , 2022, 208, 117862.	11.3	23
9	Carbon nitride-based Z-scheme photocatalysts for non-sacrificial overall water splitting. <i>Materials Today Energy</i> , 2022, 23, 100915.	4.7	12
10	Critical Role of Phosphorus in Hollow Structures Cobaltâ€Based Phosphides as Bifunctional Catalysts for Water Splitting. <i>Small</i> , 2022, 18, e2103561.	10.0	54
11	Constructing highly porous carbon materials from porous organic polymers for superior CO ₂ adsorption and separation. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 775-784.	9.4	31
12	Vacuum-assisted continuous flow electroless plating approach for high performance Pd membrane deposition on ceramic hollow fiber lumen. <i>Journal of Membrane Science</i> , 2022, 645, 120207.	8.2	12
13	Freestanding 3D Ordered Hierarchical Porous Carbon Aerogel Cathodes for Efficient Electrocatalytic Dechlorination of 1,2-Dichloroethane to Ethylene. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2234-2240.	6.7	8
14	Construction of S-scheme heterojunction by doping Bi ₂ WO ₆ into Bi ₂ O ₃ for efficiently enhanced visible-light photocatalytic performance. <i>Journal of Materials Science</i> , 2022, 57, 4265-4282.	3.7	13
15	Superstructures with Atomic-Level Arranged Perovskite and Oxide Layers for Advanced Oxidation with an Enhanced Non-Free Radical Pathway. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1899-1909.	6.7	59
16	Highly efficient recovery of hydrogen from dilute H ₂ -streams using BaCe _{0.7} Zr _{0.1} Y _{0.2} O _{3-δ} /Ni-BaCe _{0.7} Zr _{0.1} Y _{0.2} O _{3-δ} dual-layer hollow fiber membrane. <i>Separation and Purification Technology</i> , 2022, 287, 120602.	7.9	4
17	Insight into the effect of mass transfer channels and intrinsic reactivity in titanium silicalite catalyst for one-step epoxidation of propylene. <i>Surfaces and Interfaces</i> , 2022, 29, 101741.	3.0	1
18	Single Pd atoms synergistically manipulating charge polarization and active sites for simultaneously photocatalytic hydrogen production and oxidation of benzylamine. <i>Nano Energy</i> , 2022, 95, 107045.	16.0	66

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19	Dehydrogenation Coupling of Methane Using Catalyst-Loaded Proton-Conducting Perovskite Hollow Fiber Membranes. <i>Membranes</i> , 2022, 12, 191.	3.0	3
20	Mechanism Research of Catalytic Degradation of 1, 2-Dichlorobenzene over Highly Efficient Hollow Calcium Ferrite by In situ FTIR Spectra. <i>Materials Today Energy</i> , 2022, , 100996.	4.7	0
21	Ternary BaCaZrTi perovskite oxide piezocatalysts dancing for efficient hydrogen peroxide generation. <i>Nano Energy</i> , 2022, 98, 107251.	16.0	23
22	ZIF-67 membranes supported on porous ZnO hollow fibers for hydrogen separation from gas mixtures. <i>Journal of Membrane Science</i> , 2022, 653, 120550.	8.2	17
23	Integrated electrocatalytic packed-bed membrane reactor for nitrate removal. <i>Separation and Purification Technology</i> , 2022, 292, 121010.	7.9	5
24	B-Ni/MgAl ₂ O ₄ catalyzed dry reforming of methane: The role of boron to resist the formation of graphitic carbon. <i>Fuel</i> , 2022, 320, 123950.	6.4	5
25	Externally self-supported metallic nickel hollow fiber membranes for hydrogen separation. <i>Journal of Membrane Science</i> , 2022, 653, 120513.	8.2	10
26	Carbon-supported Fe catalysts with well-defined active sites for highly selective alcohol production from Fischer-Tropsch synthesis. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121393.	20.2	19
27	Exsolution of CoFe(Ru) nanoparticles in Ru-doped (La _{0.8} Sr _{0.2}) _{0.9} Co _{0.1} Fe _{0.8} Ru _{0.1} O ₃ for efficient oxygen evolution reaction. <i>Nano Research</i> , 2022, 15, 6977-6986.	10.4	34
28	Design and prediction of metal organic framework-based mixed matrix membranes for CO ₂ capture via machine learning. <i>Cell Reports Physical Science</i> , 2022, 3, 100864.	5.6	29
29	Steam gasification of low-rank coal chars: Insights into the kinetic compensation effects and physical significance of kinetic parameters. <i>Chemical Engineering Journal Advances</i> , 2022, 11, 100306.	5.2	8
30	Peroxymonosulfate oxidation via paralleled nonradical pathways over iron and nitrogen doped porous carbons. <i>Science of the Total Environment</i> , 2022, 836, 155670.	8.0	14
31	Directing Charge Transfer in a Chemical-Bonded BaTiO ₃ @ReS ₂ Schottky Heterojunction for Piezoelectric Enhanced Photocatalysis. <i>Advanced Materials</i> , 2022, 34, e2202508.	21.0	98
32	High-Temperature Oxygen Separation Using Dense Ceramic Membranes. , 2022, , 1725-1757.		0
33	Coupling water splitting and partial oxidation of methane (POM) in Ag modified La _{0.8} Ca _{0.2} Fe _{0.94} O _{3-δ} hollow fiber membrane reactors for co-production of H ₂ and syngas. <i>Journal of Membrane Science</i> , 2022, 659, 120772.	8.2	15
34	Catalytic partial oxidation of methane to syngas: review of perovskite catalysts and membrane reactors. <i>Catalysis Reviews - Science and Engineering</i> , 2021, 63, 1-67.	12.9	71
35	Perovskite LaFe _x Co _{1-x} O _{3-δ} deposited SiO ₂ catalytic membrane for deeply cleaning wastewater. <i>Chemical Engineering Journal</i> , 2021, 403, 126386.	12.7	40
36	Hydrogen production by methane steam reforming using metallic nickel hollow fiber membranes. <i>Journal of Membrane Science</i> , 2021, 620, 118909.	8.2	31

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37	Striking CO ₂ capture and CO ₂ /N ₂ separation by Mn/Al bimetallic MIL-53. <i>Polyhedron</i> , 2021, 193, 114898.	2.2	5
38	Size-tailored microwave absorption and reaction activity of Co ₃ O ₄ nanocatalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 94, 173-179.	5.8	10
39	Novel Co ₃ O ₄ @ CoFe ₂ O ₄ double-shelled nanoboxes derived from Metal-Organic Framework for CO ₂ reduction. <i>Journal of Alloys and Compounds</i> , 2021, 854, 156942.	5.5	37
40	Coupling hydrothermal and photothermal single-atom catalysis toward excellent water splitting to hydrogen. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119660.	20.2	77
41	High-Temperature Oxygen Separation Using Dense Ceramic Membranes. , 2021, , 1-33.		0
42	Elevated-temperature H ₂ separation using a dense electron and proton mixed conducting polybenzimidazole-based membrane with 2D sulfonated graphene. <i>Green Chemistry</i> , 2021, 23, 3374-3385.	9.0	14
43	Cobalt Single Atoms Embedded in Nitrogen-Doped Graphene for Selective Oxidation of Benzyl Alcohol by Activated Peroxymonosulfate. <i>Small</i> , 2021, 17, e2004579.	10.0	47
44	SDC-SCFZ dual-phase ceramics: Structure, electrical conductivity, thermal expansion, and O ₂ permeability. <i>Journal of the American Ceramic Society</i> , 2021, 104, 2268-2284.	3.8	11
45	FeVO ₄ -supported Mn-Ce oxides for the low-temperature selective catalytic reduction of NO _x by NH ₃ . <i>Catalysis Science and Technology</i> , 2021, 11, 6770-6781.	4.1	16
46	Engineering nanoreactors for metal-chalcogen batteries. <i>Energy and Environmental Science</i> , 2021, 14, 540-575.	30.8	70
47	Selective oxidation of alcohols by graphene-like carbon with electrophilic oxygen and integrated pyridinic nitrogen active sites. <i>Nanoscale</i> , 2021, 13, 12979-12990.	5.6	9
48	Co/Co ₆ Mo ₆ C@C nanoreactors derived from ZIF-67 composite for higher alcohols synthesis. <i>Composites Part B: Engineering</i> , 2021, 209, 108608.	12.0	9
49	Improving antibacterial, biocompatible, and reusable properties of polyvinyl chloride via the addition of aluminum alkoxides. <i>Journal of Vinyl and Additive Technology</i> , 2021, 27, 519-532.	3.4	5
50	Tuned single atom coordination structures mediated by polarization force and sulfur anions for photovoltaics. <i>Nano Research</i> , 2021, 14, 4025-4032.	10.4	14
51	Novel oxygen permeable hollow fiber perovskite membrane with surface wrinkles. <i>Separation and Purification Technology</i> , 2021, 261, 118295.	7.9	33
52	Unveiling the Promotion Effects of CoO on Low-Temperature NO Reduction with CO over an In-Situ-Established Co ₃ O ₄ -CoO Heterostructure. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6107-6117.	6.7	26
53	Rational Design of Cobaltate MCo ₂ O ₄ Hierarchical Nanomicrostructures with Bunch of Oxygen Vacancies toward Highly Efficient Photocatalytic Fixing of Carbon Dioxide. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9782-9794.	3.1	12
54	Perovskite Oxide Catalysts for Advanced Oxidation Reactions. <i>Advanced Functional Materials</i> , 2021, 31, 2102089.	14.9	93

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55	Piezotronic effect and oxygen vacancies boosted photocatalysis C-N coupling of benzylamine. <i>Nano Energy</i> , 2021, 83, 105831.	16.0	45
56	Inhibiting in situ phase transition in Ruddlesden-Popper perovskite via tailoring bond hybridization and its application in oxygen permeation. <i>Matter</i> , 2021, 4, 1720-1734.	10.0	62
57	Effect of sulfate species on the performance of Ce-Fe-O catalysts in the selective catalytic reduction of NO by NH ₃ . <i>Journal of Fuel Chemistry and Technology</i> , 2021, 49, 844-852.	2.0	7
58	Design and fabrication of micro/nano-motors for environmental and sensing applications. <i>Applied Materials Today</i> , 2021, 23, 101007.	4.3	38
59	High-Performance Aqueous Sodium-Ion Battery Based on Graphene-Doped Na ₂ MnFe(CN) ₆ •Zinc with a Highly Stable Discharge Platform and Wide Electrochemical Stability. <i>Energy & Fuels</i> , 2021, 35, 10860-10868.	5.1	14
60	Tailoring collaborative N=O functionalities of graphene oxide for enhanced selective oxidation of benzyl alcohol. <i>Carbon</i> , 2021, 182, 715-724.	10.3	19
61	Optical investigation on polyoxymethylene dimethyl ethers spray flame at different oxygen levels in a constant volume vessel. <i>Science China Technological Sciences</i> , 2021, 64, 1611-1623.	4.0	9
62	Lifting removal of cationic dye (methylene blue) from wastewater by improving Zr-MOFs via second metal Al coordination. <i>Journal of Applied Materials and Technology</i> , 2021, 2, 94-111.	0.5	5
63	Heat transfer augmentation of parabolic trough solar collector receiver's tube using hybrid nanofluids and conical turbulators. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 125, 215-242.	5.3	45
64	Photocatalytic CO ₂ conversion over single-atom MoN ₂ sites of covalent organic framework. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120146.	20.2	130
65	One stone two birds: Simultaneous realization of partial oxidation of methane to syngas and N ₂ purification via robust ceramic oxygen-permeable membrane reactors. <i>Chemical Engineering Journal</i> , 2021, 419, 129462.	12.7	23
66	High Temperature Water Permeable Membrane Reactors for CO ₂ Utilization. <i>Chemical Engineering Journal</i> , 2021, 420, 129834.	12.7	38
67	CoP imbedded g-C ₃ N ₄ heterojunctions for highly efficient photo, electro and photoelectrochemical water splitting. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 23-33.	9.4	29
68	Simultaneous hydrogen and oxygen permeation through BaCe _{0.70} Fe _{0.10} Sc _{0.20} O _{3-δ} perovskite hollow fiber membranes. <i>Journal of Membrane Science</i> , 2021, 635, 119513.	8.2	12
69	Highly active iron-nitrogen-boron-carbon bifunctional electrocatalytic platform for hydrogen peroxide sensing and oxygen reduction. <i>Environmental Research</i> , 2021, 201, 111563.	7.5	22
70	Effects of inter/intralayer adsorption and direct/indirect reaction on photo-removal of pollutants by layered g-C ₃ N ₄ and BiOBr. <i>Journal of Cleaner Production</i> , 2021, 322, 129025.	9.3	24
71	Biomass-derived N,S co-doped 3D multichannel carbon supported Au@Pd@Pt catalysts for oxygen reduction. <i>Environmental Research</i> , 2021, 202, 111684.	7.5	15
72	TiO ₂ /g-C ₃ N ₄ photocatalyst for the purification of potassium butyl xanthate in mineral processing wastewater. <i>Journal of Environmental Management</i> , 2021, 297, 113311.	7.8	79

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73	Piezotronic effect and hierarchical Z-scheme heterostructure stimulated photocatalytic H ₂ evolution integrated with C-N coupling of benzylamine. <i>Nano Energy</i> , 2021, 89, 106349.	16.0	53
74	Studies into the kinetic compensation effects of Loy Yang Brown coal during gasification in a steam environment – A mechanistic view. <i>Chemical Engineering Journal Advances</i> , 2021, 8, 100159.	5.2	11
75	Removal of heavy metal cations and co-existing anions in simulated wastewater by two separated hydroxylated MXene membranes under an external voltage. <i>Journal of Membrane Science</i> , 2021, 638, 119697.	8.2	39
76	A dual-layer ZnO/Al ₂ O ₃ hollow fiber for directly inducing the formation of ZIF membrane. <i>Journal of Membrane Science</i> , 2021, 640, 119851.	8.2	21
77	Atomically dispersed cobalt on graphitic carbon nitride as a robust catalyst for selective oxidation of ethylbenzene by peroxymonosulfate. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3029-3035.	10.3	48
78	Nickel(II) ion-intercalated MXene membranes for enhanced H ₂ /CO ₂ separation. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 882-891.	4.4	22
79	A metal-free covalent organic framework as a photocatalyst for CO ₂ reduction at low CO ₂ concentration in a gas/solid system. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24895-24902.	10.3	33
80	Scandium-doped barium ceria ferrites-based composite mixed conducting hollow fiber membranes for H ₂ and O ₂ permeation. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 107, 100-100.	5.8	3
81	Nature of Intrinsic Defects in Carbon Materials for Electrochemical Dechlorination of 1,2-Dichloroethane to Ethylene. <i>ACS Catalysis</i> , 2021, 11, 14284-14292.	11.2	30
82	Functionalized Activated Carbon for Competing Adsorption of Volatile Organic Compounds and Water. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56510-56518.	8.0	31
83	Peanut-Shaped Cu/Mn Nano-Hollow Spinel with Oxygen Vacancies as Catalysts for Low-Temperature NO Reduction by CO. <i>ACS Applied Nano Materials</i> , 2021, 4, 11969-11979.	5.0	23
84	Mechanistic Insights into the Kinetic Compensation Effects during the Gasification of Loy Yang Brown Coal Char in O ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 17881-17896.	3.7	6
85	Sea-Urchin-Like Carbon Nanospheres for Electrocatalytic Dechlorination of 1,2-Dichloroethane. <i>ACS Applied Nano Materials</i> , 2021, 4, 13090-13098.	5.0	13
86	Single-step synthesized dual-layer hollow fiber membrane reactor for on-site hydrogen production through ammonia decomposition. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7423-7432.	7.1	28
87	Effects of alkali promoters on tri-metallic Co-Ni-Cu-based perovskite catalyst for higher alcohol synthesis from syngas. <i>Catalysis Today</i> , 2020, 355, 26-34.	4.4	16
88	Metal-organic-framework-derived formation of Co/N-doped carbon materials for efficient oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2020, 40, 137-143.	12.9	74
89	Oxygen permeation through single-phase perovskite membrane: Modeling study and comparison with the dual-phase membrane. <i>Separation and Purification Technology</i> , 2020, 235, 116224.	7.9	21
90	A novel UiO-66 encapsulated 12-silicotungstic acid catalyst for dimethyl ether synthesis from syngas. <i>Catalysis Today</i> , 2020, 355, 3-9.	4.4	15

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91	Development of a techno-economic framework for natural gas dehydration via absorption using tri-ethylene glycol: A comparative study between DRIZO and other dehydration processes. South African Journal of Chemical Engineering, 2020, 31, 17-24.	2.4	8
92	Porous SiO ₂ coated Al _x Fe _y Zr _{1-x-y} O ₂ solid superacid nanoparticles with negative charge for polyvinylidene fluoride (PVDF) membrane: Cleaning and partial desalinating seawater. Journal of Hazardous Materials, 2020, 384, 121471.	12.4	8
93	In Situ Investigation of Reversible Exsolution/Dissolution of CoFe Alloy Nanoparticles in a Co ^δ Doped Sr ₂ Fe _{1.5} Mo _{0.5} O ₆ Cathode for CO ₂ Electrolysis. Advanced Materials, 2020, 32, e1906193.	21.0	185
94	CO ₂ and Steam-Assisted H ₂ Separation through BaCe _{0.8} Y _{0.2} O ₃ ∕Ce _{0.8} Y _{0.2} O ₂ Hollow Fiber Membranes. Energy & Fuels, 2020, 34, 683-689.	5	5
95	Digital light processing-stereolithography three-dimensional printing of yttria-stabilized zirconia. Ceramics International, 2020, 46, 8745-8753.	4.8	53
96	Spinel-type oxygen-incorporated Ni ³⁺ self-doped Ni ₃ S ₄ ultrathin nanosheets for highly efficient and stable oxygen evolution electrocatalysis. Journal of Colloid and Interface Science, 2020, 564, 418-427.	9.4	43
97	Effect of Ru and Ni nanocatalysts on water splitting and hydrogen oxidation reactions in oxygen-permeable membrane reactors. Journal of Membrane Science, 2020, 599, 117702.	8.2	22
98	Electro-confinement membrane desalination by nanoporous carbon membrane. Desalination, 2020, 476, 114232.	8.2	4
99	Catalysis of a Single Transition Metal Site for Water Oxidation: From Mononuclear Molecules to Single Atoms. Advanced Materials, 2020, 32, e1904037.	21.0	78
100	Three-dimensionally ordered macro [∞] mesoporous CoMo bulk catalysts with superior performance in hydrodesulfurization of thiophene. RSC Advances, 2020, 10, 37280-37286.	3.6	7
101	Pentaerythritol p-hydroxybenzoate ester-based zinc metal alkoxides as multifunctional antimicrobial thermal stabilizer for PVC. Polymer Degradation and Stability, 2020, 181, 109340.	5.8	18
102	Magnetic ZnO@Fe ₃ O ₄ composite for self-generated H ₂ O ₂ toward photo-Fenton-like oxidation of nitrophenol. Composites Part B: Engineering, 2020, 200, 108345.	12.0	51
103	PrBaCo _{2-x} Ta _x O _{5+∕} based composite materials as cathodes for proton-conducting solid oxide fuel cells with high CO ₂ resistance. International Journal of Hydrogen Energy, 2020, 45, 31017-31026.	7.1	41
104	Impact of oxygen vacancy occupancy on piezo-catalytic activity of BaTiO ₃ nanobelt. Applied Catalysis B: Environmental, 2020, 279, 119340.	20.2	226
105	Rationally Tailored Redox Properties of a Mesoporous Mn [∞] Fe Spinel Nanostructure for Boosting Low-Temperature Selective Catalytic Reduction of NO _x with NH ₃ . ACS Sustainable Chemistry and Engineering, 2020, 8, 17727-17739.	6.7	52
106	Simultaneous production of hydrogen and carbon nanotubes from cracking of a waste cooking oil model compound over Ni [∞] Co / SBA-15 catalysts. International Journal of Energy Research, 2020, 44, 11564-11582.	4.5	14
107	Preparation of ZIF-8 Membranes on Porous ZnO Hollow Fibers by a Facile ZnO-Induced Method. Industrial & Engineering Chemistry Research, 2020, 59, 15576-15585.	3.7	18
108	Ultrafine copper nanoclusters and single sites for Fenton-like reactions with high atom utilities. Environmental Science: Nano, 2020, 7, 2595-2606.	4.3	24

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109	Novel Two-Dimensional AgInS ₂ /SnS ₂ /RGO Dual Heterojunctions: High Spatial Charge and Toxicity Evaluation. Langmuir, 2020, 36, 9709-9718.	3.5	11
110	Roles of structure defect, oxygen groups and heteroatom doping on carbon in nonradical oxidation of water contaminants. Water Research, 2020, 185, 116244.	11.3	194
111	Facile directions for synthesis, modification and activation of MOFs. Materials Today Chemistry, 2020, 17, 100343.	3.5	53
112	New Insight into the Effects of NH ₃ on SO ₂ Poisoning for In Situ Removal of Metal Sulfates in Low-Temperature NH ₃ -SCR over an Fe-V Catalyst. Journal of Physical Chemistry C, 2020, 124, 21396-21406.	3.1	25
113	Self-detoxifying hollow zinc silica nanospheres with tunable Ag ion release-recapture capability: A nanoantibiotic for efficient MRSA inhibition. Composites Part B: Engineering, 2020, 202, 108415.	12.0	17
114	Microwave-Assisted Dry and Bi-reforming of Methane over Mo/TiO ₂ (M = Co, Cu) Bimetallic Catalysts. Energy & Fuels, 2020, 34, 7284-7294.	5.1	28
115	Microwave-assisted catalytic methane reforming: A review. Applied Catalysis A: General, 2020, 599, 117620.	4.3	51
116	Insights into the Adsorption of VOCs on a Cobalt-Adeninate Metal-Organic Framework (Bio-MOF-11). ACS Omega, 2020, 5, 15402-15408.	3.5	45
117	CO ₂ -resistant SDC/SSAF oxygen selective dual-phase hollow fiber membranes. Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2528.	1.5	9
118	Synergy of NiO quantum dots and temperature on enhanced photocatalytic and thermophoto hydrogen evolution. Chemical Engineering Journal, 2020, 390, 124634.	12.7	27
119	Deboronation-assisted construction of defective Ti(OSi) ₃ OH species in MWW-type titanosilicate and their enhanced catalytic performance. Catalysis Science and Technology, 2020, 10, 2905-2915.	4.1	25
120	Pentaerythritol stearate ester-based tin (II) metal alkoxides: A tri-functional organotin as poly (vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.8	16
121	Voltage-enhanced ion sieving and rejection of Pb ²⁺ through a thermally cross-linked two-dimensional MXene membrane. Chemical Engineering Journal, 2020, 401, 126073.	12.7	43
122	Influence of calcination temperature of Ni/Attapulgite on hydrogen production by steam reforming ethanol. Renewable Energy, 2020, 160, 597-611.	8.9	44
123	Surface chemistry-dependent activity and comparative investigation on the enhanced photocatalytic performance of graphitic carbon nitride modified with various nanocarbons. Journal of Colloid and Interface Science, 2020, 569, 12-21.	9.4	19
124	Comparative study on the performance of microwave-assisted plasma DRM in nitrogen and argon atmospheres at a low microwave power. Journal of Industrial and Engineering Chemistry, 2020, 85, 118-129.	5.8	18
125	Boosting CO ₂ adsorption and selectivity in metal-organic frameworks of MIL-96(Al) via second metal Ca coordination. RSC Advances, 2020, 10, 8130-8139.	3.6	36
126	Understanding of the Oxidation Behavior of Benzyl Alcohol by Peroxymonosulfate via Carbon Nanotubes Activation. ACS Catalysis, 2020, 10, 3516-3525.	11.2	178

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127	Nitrogen-doped Carbon Nanospheres-Modified Graphitic Carbon Nitride with Outstanding Photocatalytic Activity. <i>Nano-Micro Letters</i> , 2020, 12, 24.	27.0	43
128	Experimental and theoretical exploration of gas permeation mechanism through 2D graphene (not) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.2	19
129	Ba _{0.5} Sr _{0.5} Co _{0.8-x} Fe _{0.2} Nb _x O _{3-δ} (x=0.1) as cathode materials for intermediate temperature solid oxide fuel cells with an electron-blocking interlayer. <i>Ceramics International</i> , 2020, 46, 10215-10223.	4.8	36
130	Dual-layer BaCe _{0.8} Y _{0.2} O _{3-δ} /Ce _{0.8} Y _{0.2} O _{2-δ} /BaCe _{0.8} Y _{0.2} O _{3-δ} -Ni hollow fiber membranes for H ₂ separation. <i>Journal of Membrane Science</i> , 2020, 601, 117801.	8.2	23
131	The insight into the role of CeO ₂ in improving low-temperature catalytic performance and SO ₂ tolerance of MnCoCeOx microflowers for the NH ₃ -SCR of NOx. <i>Applied Surface Science</i> , 2020, 510, 145517.	6.1	65
132	Photocatalytic activation of peroxymonosulfate by surface-tailored carbon quantum dots. <i>Journal of Hazardous Materials</i> , 2020, 395, 122695.	12.4	88
133	One-step synthesis of ZIF-8/ZnO composites based on coordination defect strategy and its derivatives for photocatalysis. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155219.	5.5	57
134	Investigations on electrochemical performance of La ₂ NiO _{4+δ} cathode material doped at A site for solid oxide fuel cells. <i>Materials Research Express</i> , 2020, 7, 065507.	1.6	10
135	Enhancing Acidic Dye Adsorption by Updated Version of UiO-66. <i>Journal of Applied Materials and Technology</i> , 2020, 1, 54-62.	0.5	9
136	Manganese-Based Spinel Core-Shell Nanostructures for Efficient Electrocatalysis of 1,2-Dichloroethane. <i>ACS Applied Nano Materials</i> , 2020, 3, 10778-10786.	5.0	17
137	Removal of methylene blue (MB) by bimetallic-metal organic framework. <i>Journal of Applied Materials and Technology</i> , 2020, 2, 36-49.	0.5	13
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