

Shaomin 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.

578
papers

25,065
citations

79
h-index

132
g-index

590
ext. papers

29,730
ext. citations

8
avg. IF

7.49
L-index

#	Paper	IF	Citations
578	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	4.3	0
577	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	8.3	8
576	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	8.3	0
575	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	4.1	
574	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	17.1	4
573	Electrochemical reduction of nitrate in a catalytic carbon membrane nano-reactor. <i>Water Research</i> , 2022 , 208, 117862	12.5	1
572	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	9.6	2
571	Thermohydraulic and thermodynamics performance of hybrid nanofluids based parabolic trough solar collector equipped with wavy promoters. <i>Renewable Energy</i> , 2022 , 182, 401-426	8.1	7
570	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	7	
569	Ternary BaCaZrTi Perovskite Oxide Piezocatalysts Dancing for Efficient Hydrogen Peroxide Generation. <i>Nano Energy</i> , 2022 , 107251	17.1	1
568	ZIF-67 membranes supported on porous ZnO hollow fibers for hydrogen separation from gas mixtures. <i>Journal of Membrane Science</i> , 2022 , 120550	9.6	2
567	Integrated electrocatalytic packed-bed membrane reactor for nitrate removal. <i>Separation and Purification Technology</i> , 2022 , 121010	8.3	0
566	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	7.1	0
565	Externally self-supported metallic nickel hollow fiber membranes for hydrogen separation. <i>Journal of Membrane Science</i> , 2022 , 653, 120513	9.6	0
564	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	21.8	4
563	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 , 100864	6.1	0
562	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	3.6	0

561	Peroxymonosulfate oxidation via paralleled nonradical pathways over iron and nitrogen doped porous carbons.. <i>Science of the Total Environment</i> , 2022 , 836, 155670	10.2	0
560	Directing charge transfer in chemical-bonded BaTiO @ReS Schottky heterojunction for piezoelectric enhanced photocatalysis.. <i>Advanced Materials</i> , 2022 , e2202508	24	9
559	High-Temperature Oxygen Separation Using Dense Ceramic Membranes 2022 , 1725-1757		
558	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	6.3	0
557	Nature of Intrinsic Defects in Carbon Materials for Electrochemical Dechlorination of 1,2-Dichloroethane to Ethylene. <i>ACS Catalysis</i> , 2021 , 11, 14284-14292	13.1	5
556	Functionalized Activated Carbon for Competing Adsorption of Volatile Organic Compounds and Water. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56510-56518	9.5	5
555	Carbon Nitride Based Z-scheme Photocatalyst for Non-Sacrificial Overall Water Splitting. <i>Materials Today Energy</i> , 2021 , 23, 100915	7	2
554	Critical Role of Phosphorus in Hollow Structures Cobalt-Based Phosphides as Bifunctional Catalysts for Water Splitting. <i>Small</i> , 2021 , e2103561	11	10
553	Peanut-Shaped CuMn 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	5.6	5
552	Constructing highly porous carbon materials from porous organic polymers for superior CO adsorption and separation. <i>Journal of Colloid and Interface Science</i> , 2021 ,	9.3	6
551	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	13	2
550	The Mechanism of Piezocatalysis: Energy Band Theory or Screening Charge Effect?. <i>Angewandte Chemie - International Edition</i> , 2021 , 61, e202110429	16.4	12
549	Graphitic carbon nitride nanosheets via acid pretreatments for promoted photocatalysis toward degradation of organic pollutants. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 1334-1347	9.3	3
548	Radio-frequency induction heating powered low-temperature catalytic CO ₂ conversion via bi-reforming of methane. <i>Chemical Engineering Journal</i> , 2021 , 430, 132934	14.7	1
547	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	4.5	4
546	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	10	4
545	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	2	3
544	Tuned single atom coordination structures mediated by polarization force and sulfur anions for photovoltaics. <i>Nano Research</i> , 2021 , 14, 4025	10	3

543	Novel oxygen permeable hollow fiber perovskite membrane with surface wrinkles. <i>Separation and Purification Technology</i> , 2021 , 261, 118295	8.3	13
542	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	8.3	7
541	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	3.8	5
540	Perovskite Oxide Catalysts for Advanced Oxidation Reactions. <i>Advanced Functional Materials</i> , 2021 , 31, 2102089	15.6	29
539	Piezotronic effect and oxygen vacancies boosted photocatalysis C-N coupling of benzylamine. <i>Nano Energy</i> , 2021 , 83, 105831	17.1	9
538	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	12.7	18
537	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	1.8	1
536	Design and fabrication of micro/nano-motors for environmental and sensing applications. <i>Applied Materials Today</i> , 2021 , 23, 101007	6.6	15
535	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	4.1	2
534	Tailoring collaborative ND functionalities of graphene oxide for enhanced selective oxidation of benzyl alcohol. <i>Carbon</i> , 2021 , 182, 715-715	10.4	4
533	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	3.5	1
532	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	12.6	22
531	Perovskite LaFe _x Co _{1-x} O ₃ -Ti Deposited SiO ₂ catalytic membrane for deeply cleaning wastewater. <i>Chemical Engineering Journal</i> , 2021 , 403, 126386	14.7	9
530	Hydrogen production by methane steam reforming using metallic nickel hollow fiber membranes. <i>Journal of Membrane Science</i> , 2021 , 620, 118909	9.6	12
529	Striking CO ₂ capture and CO ₂ /N ₂ separation by Mn/Al bimetallic MIL-53. <i>Polyhedron</i> , 2021 , 193, 114898	2.7	2
528	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	6.3	4
527	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	5.7	20
526	Coupling hydrothermal and photothermal single-atom catalysis toward excellent water splitting to hydrogen. <i>Applied Catalysis B: Environmental</i> , 2021 , 283, 119660	21.8	38

525	High-Temperature Oxygen Separation Using Dense Ceramic Membranes 2021 , 1-33		
524	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 ¹⁰		8
523	Cobalt Single Atoms Embedded in Nitrogen-Doped Graphene for Selective Oxidation of Benzyl Alcohol by Activated Peroxymonosulfate. <i>Small</i> , 2021 , 17, e2004579	11	15
522	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	8
521	Engineering nanoreactors for metal-halogen batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 540-575	35.4	26
520	Selective oxidation of alcohols by graphene-like carbon with electrophilic oxygen and integrated pyridinic nitrogen active sites. <i>Nanoscale</i> , 2021 , 13, 12979-12990	7.7	3
519	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	10
518	Photocatalytic CO ₂ conversion over single-atom MoN ₂ sites of covalent organic framework. <i>Applied Catalysis B: Environmental</i> , 2021 , 291, 120146	21.8	37
517	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	14.7	7
516	High Temperature Water Permeable Membrane Reactors for CO ₂ Utilization. <i>Chemical Engineering Journal</i> , 2021 , 420, 129834	14.7	13
515	CoP imbedded g-CN heterojunctions for highly efficient photo, electro and photoelectrochemical water splitting. <i>Journal of Colloid and Interface Science</i> , 2021 , 599, 23-33	9.3	7
514	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	9.6	5
513	Highly active iron-nitrogen-boron-carbon bifunctional electrocatalytic platform for hydrogen peroxide sensing and oxygen reduction. <i>Environmental Research</i> , 2021 , 201, 111563	7.9	5
512	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	10.3	6
511	Biomass-derived N,S co-doped 3D multichannel carbon supported Au@Pd@Pt catalysts for oxygen reduction. <i>Environmental Research</i> , 2021 , 202, 111684	7.9	3
510	TiO ₂ /g-CN photocatalyst for the purification of potassium butyl xanthate in mineral processing wastewater. <i>Journal of Environmental Management</i> , 2021 , 297, 113311	7.9	16
509	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	17.1	8
508	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	3.6	3

507	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	9.6	7
506	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	9.6	5
505	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	13	11
504	Sea-Urchin-Like Carbon Nanospheres for Electrocatalytic Dechlorination of 1,2-Dichloroethane. <i>ACS Applied Nano Materials</i> , 2021 , 4, 13090-13098	5.6	3
503	Microwave-Assisted Dry and Bi-reforming of Methane over M ₂ Mo/TiO ₂ (M = Co, Cu) Bimetallic Catalysts. <i>Energy & Fuels</i> , 2020 , 34, 7284-7294	4.1	12
502	Microwave-assisted catalytic methane reforming: A review. <i>Applied Catalysis A: General</i> , 2020 , 599, 117620	10	22
501	Insights into the Adsorption of VOCs on a Cobalt-Adeninate Metal-Organic Framework (Bio-MOF-11). <i>ACS Omega</i> , 2020 , 5, 15402-15408	3.9	16
500	CO ₂ -resistant SDC-SSAF oxygen selective dual-phase hollow fiber membranes. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020 , 15, e2528	1.3	3
499	Synergy of NiO quantum dots and temperature on enhanced photocatalytic and thermophoto hydrogen evolution. <i>Chemical Engineering Journal</i> , 2020 , 390, 124634	14.7	14
498	Deboronation-assisted construction of defective Ti(OSi)3OH species in MWW-type titanosilicate and their enhanced catalytic performance. <i>Catalysis Science and Technology</i> , 2020 , 10, 2905-2915	5.5	9
497	Pentaerythritol stearate ester-based tin (II) metal alkoxides: A tri-functional organotin as poly (vinyl chloride) thermal stabilizers. <i>Polymer Degradation and Stability</i> , 2020 , 175, 109129	4.7	7
496	Voltage-enhanced ion sieving and rejection of Pb ²⁺ through a thermally cross-linked two-dimensional MXene membrane. <i>Chemical Engineering Journal</i> , 2020 , 401, 126073	14.7	18
495	Influence of calcination temperature of Ni/Attapulgite on hydrogen production by steam reforming ethanol. <i>Renewable Energy</i> , 2020 , 160, 597-611	8.1	19
494	Surface chemistry-dependent activity and comparative investigation on the enhanced photocatalytic performance of graphitic carbon nitride modified with various nanocarbons. <i>Journal of Colloid and Interface Science</i> , 2020 , 569, 12-21	9.3	10
493	Comparative study on the performance of microwave-assisted plasma DRM in nitrogen and argon atmospheres at a low microwave power. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 85, 118-129	6.3	5
492	Boosting CO adsorption and selectivity in metal-organic frameworks of MIL-96(Al) second metal Ca coordination.. <i>RSC Advances</i> , 2020 , 10, 8130-8139	3.7	19
491	Understanding of the Oxidation Behavior of Benzyl Alcohol by Peroxymonosulfate via Carbon Nanotubes Activation. <i>ACS Catalysis</i> , 2020 , 10, 3516-3525	13.1	76
490	Nitrogen-doped Carbon Nanospheres-Modified Graphitic Carbon Nitride with Outstanding Photocatalytic Activity. <i>Nano-Micro Letters</i> , 2020 , 12, 24	19.5	27

489	Experimental and theoretical exploration of gas permeation mechanism through 2D graphene (not graphene oxides) membranes. <i>Journal of Membrane Science</i> , 2020 , 601, 117883	9.6	12
488	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	5.1	13
487	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	9.6	14
486	The insight into the role of CeO ₂ in improving low-temperature catalytic performance and SO ₂ tolerance of MnCoCeO _x microflowers for the NH ₃ -SCR of NO _x . <i>Applied Surface Science</i> , 2020 , 510, 145517	6.7	36
485	Removal of methylene blue (MB) by bimetallic- metal organic framework. <i>Journal of Applied Materials and Technology</i> , 2020 , 2, 36-49	0.3	3
484	Manganese-Based Spinel Core/Shell Nanostructures for Efficient Electrocatalysis of 1,2-Dichloroethane. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10778-10786	5.6	5
483	Enhancing Acidic Dye Adsorption by Updated Version of UiO-66. <i>Journal of Applied Materials and Technology</i> , 2020 , 1, 54-62	0.3	3
482	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	5.7	27
481	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	1.7	4
480	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. <i>South African Journal of Chemical Engineering</i> , 2020 , 31, 17-24	3.2	3
479	Porous SiO ₂ coated AlFeZrO solid superacid nanoparticles with negative charge for polyvinylidene fluoride (PVDF) membrane: Cleaning and partial desalinating seawater. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121471	12.8	6
478	In Situ Investigation of Reversible Exsolution/Dissolution of CoFe Alloy Nanoparticles in a Co-Doped Sr Fe Mo O Cathode for CO Electrolysis. <i>Advanced Materials</i> , 2020 , 32, e1906193	24	79
477	CO ₂ and Steam-Assisted H ₂ Separation through BaCe _{0.8} Y _{0.2} O _{3-δ} /Ce _{0.8} Y _{0.2} O _{2-δ} /Hollow Fiber Membranes. <i>Energy & Fuels</i> , 2020 , 34, 683-689	4.1	3
476	Digital light processing-stereolithography three-dimensional printing of yttria-stabilized zirconia. <i>Ceramics International</i> , 2020 , 46, 8745-8753	5.1	16
475	Spinel-type oxygen-incorporated Ni self-doped NiS ultrathin nanosheets for highly efficient and stable oxygen evolution electrocatalysis. <i>Journal of Colloid and Interface Science</i> , 2020 , 564, 418-427	9.3	24
474	Effect of Ru and Ni nanocatalysts on water splitting and hydrogen oxidation reactions in oxygen-permeable membrane reactors. <i>Journal of Membrane Science</i> , 2020 , 599, 117702	9.6	11
473	Electro-confinement membrane desalination by nanoporous carbon membrane. <i>Desalination</i> , 2020 , 476, 114232	10.3	3
472	Catalysis of a Single Transition Metal Site for Water Oxidation: From Mononuclear Molecules to Single Atoms. <i>Advanced Materials</i> , 2020 , 32, e1904037	24	46

471	Three-dimensionally ordered macro-mesoporous CoMo bulk catalysts with superior performance in hydrodesulfurization of thiophene.. <i>RSC Advances</i> , 2020 , 10, 37280-37286	3.7	3
470	Pentaerythritol p-hydroxybenzoate ester-based zinc metal alkoxides as multifunctional antimicrobial thermal stabilizer for PVC. <i>Polymer Degradation and Stability</i> , 2020 , 181, 109340	4.7	9
469	Magnetic ZnO@Fe ₃ O ₄ composite for self-generated H ₂ O ₂ toward photo-Fenton-like oxidation of nitrophenol. <i>Composites Part B: Engineering</i> , 2020 , 200, 108345	10	19
468	PrBaCo _{2-x} Ta _x O _{5+δ} -based composite materials as cathodes for proton-conducting solid oxide fuel cells with high CO ₂ resistance. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 31017-31026	6.7	20
467	Impact of oxygen vacancy occupancy on piezo-catalytic activity of BaTiO ₃ nanobelt. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119340	21.8	72
466	Rationally Tailored Redox Properties of a Mesoporous MnFe Spinel Nanostructure for Boosting Low-Temperature Selective Catalytic Reduction of NO _x with NH ₃ . <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 17727-17739	8.3	12
465	Simultaneous production of hydrogen and carbon nanotubes from cracking of a waste cooking oil model compound over Ni-Co/SBA-15 catalysts. <i>International Journal of Energy Research</i> , 2020 , 44, 11564-11582 ¹⁰	4.5	10
464	Preparation of ZIF-8 Membranes on Porous ZnO Hollow Fibers by a Facile ZnO-Induced Method. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 15576-15585	3.9	7
463	Ultrafine copper nanoclusters and single sites for Fenton-like reactions with high atom utilities. <i>Environmental Science: Nano</i> , 2020 , 7, 2595-2606	7.1	8
462	Novel Two-Dimensional AgInS/SnS/RGO Dual Heterojunctions: High Spatial Charge and Toxicity Evaluation. <i>Langmuir</i> , 2020 , 36, 9709-9718	4	4
461	Roles of structure defect, oxygen groups and heteroatom doping on carbon in nonradical oxidation of water contaminants. <i>Water Research</i> , 2020 , 185, 116244	12.5	77
460	Facile directions for synthesis, modification and activation of MOFs. <i>Materials Today Chemistry</i> , 2020 , 17, 100343	6.2	22
459	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 ^{IV} Catalyst. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21396-21406 ^{3,8}	3.8	7
458	Self-detoxifying hollow zinc silica nanospheres with tunable Ag ion release-recapture capability: A nanoantibiotic for efficient MRSA inhibition. <i>Composites Part B: Engineering</i> , 2020 , 202, 108415	10	6
457	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	6.7	10
456	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	5.3	10
455	Metal-organic-framework-derived formation of Co ^{II} -doped carbon materials for efficient oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2020 , 40, 137-143	12	50
454	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	8.3	13

453	A novel UiO-66 encapsulated 12-silicotungstic acid catalyst for dimethyl ether synthesis from syngas. <i>Catalysis Today</i> , 2020 , 355, 3-9	5.3	6
452	Photocatalytic activation of peroxydisulfate by surface-tailored carbon quantum dots. <i>Journal of Hazardous Materials</i> , 2020 , 395, 122695	12.8	36
451	Disordered layers on WO ₃ nanoparticles enable photochemical generation of hydrogen from water. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 221-227	13	37
450	Functionalized nitrogen-doped carbon dot-modified yolk-shell ZnFeO nanospheres with highly efficient light harvesting and superior catalytic activity. <i>Nanoscale</i> , 2019 , 11, 3877-3887	7.7	29
449	Nickel hollow fiber membranes for hydrogen separation from reformat gases and water gas shift reactions operated at high temperatures. <i>Journal of Membrane Science</i> , 2019 , 575, 89-97	9.6	13
448	Dolomite: a low cost thermochemical energy storage material. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1206-1215	13	29
447	Re-evaluation of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} hollow fiber membranes for oxygen separation after long-term storage of five and ten years. <i>Journal of Membrane Science</i> , 2019 , 587, 117180	9.6	23
446	Improving hydrogen permeation and interface property of ceramic-supported graphene oxide membrane via embedding of silicalite-1 zeolite into Al ₂ O ₃ hollow fiber. <i>Separation and Purification Technology</i> , 2019 , 227, 115712	8.3	8
445	Highly Dispersed NiCo ₂ O ₄ Nanodots Decorated Three-Dimensional g-C ₃ N ₄ for Enhanced Photocatalytic H ₂ Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 ,	8.3	11
444	Water and gas barrier properties of polyvinyl alcohol (PVA)/starch (ST)/ glycerol (GL)/halloysite nanotube (HNT) bionanocomposite films: Experimental characterisation and modelling approach. <i>Composites Part B: Engineering</i> , 2019 , 174, 107033	10	35
443	Perovskite-derived trimetallic Co-Ni-Cu catalyst for higher alcohol synthesis from syngas. <i>Fuel Processing Technology</i> , 2019 , 193, 141-148	7.2	15
442	A Pd-TSH composite membrane reactor for one-step oxidation of benzene to phenol. <i>Chemical Communications</i> , 2019 , 55, 7745-7748	5.8	2
441	Why Do Colloidal Wurtzite Semiconductor Nanoplatelets Have an Atomically Uniform Thickness of Eight Monolayers?. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3465-3471	6.4	12
440	Surfactant-modified graphene oxide membranes with tunable structure for gas separation. <i>Carbon</i> , 2019 , 152, 144-150	10.4	12
439	One-step reducing and dispersing graphene oxide via hydroxypropyl hydrazine and its applications in Cu removal. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10947-10954	3.6	5
438	One-step thermal processing to prepare BaCo _{0.95-x} Bi _{0.05} Zr _x O _{3-δ} membranes for oxygen separation. <i>Ceramics International</i> , 2019 , 45, 12579-12585	5.1	14
437	A novel cobalt-free cathode with triple-conduction for proton-conducting solid oxide fuel cells with unprecedented performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16136-16148	13	82
436	Efficient removal of organic pollutants by ceramic hollow fibre supported composite catalyst. <i>Sustainable Materials and Technologies</i> , 2019 , 20, e00108	5.3	12

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434	Asymmetric nickel hollow fibres as the catalytic membrane reactor for CO hydrogenation into syngas. <i>Chemical Communications</i> , 2019 , 55, 4226-4229	5.8	6
433	Enhanced CO selectivity for reverse water-gas shift reaction using Ti ₄ O ₇ -doped SrCe _{0.9} Y _{0.1} O _{3-δ} hollow fibre membrane reactor. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 1619-1626	2.3	6
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427	Fundamental Understanding of Photocurrent Hysteresis in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1803017	21.8	148
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4 ¹⁴	Role of electronic properties in partition of radical and nonradical processes of carbocatalysis toward peroxymonosulfate activation. <i>Carbon</i> , 2019 , 153, 73-80	10.4	47
4 ¹³	Visible-light-driven sonophotocatalysis and peroxymonosulfate activation over 3D urchin-like MoS ₂ /C nanoparticles for accelerating levofloxacin elimination: Optimization and kinetic study. <i>Chemical Engineering Journal</i> , 2019 , 378, 122039	14.7	46
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4 ⁰⁹	Theoretical and Experimental Insights into the Mechanism for Gas Separation through Nanochannels in 2D Lamellar MXene Membranes. <i>Processes</i> , 2019 , 7, 751	2.9	9
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4 ⁰¹	Identification of single-atom active sites in carbon-based cobalt catalysts during electrocatalytic hydrogen evolution. <i>Nature Catalysis</i> , 2019 , 2, 134-141	36.5	409
4 ⁰⁰	Highly Stable Dual-Phase Membrane Based on Ce _{0.9} Gd _{0.1} O ₂ //a ₂ NiO ₄ +Γfor Oxygen Permeation under Pure CO ₂ Atmosphere. <i>Energy Technology</i> , 2019 , 7, 1800701	3.5	26

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163	Photocatalytic degradation of gaseous toluene over hollow spindle-like Fe ₂ O ₃ loaded with Ag. <i>Materials Research Bulletin</i> , 2012 , 47, 1459-1466	5.1	18
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27	Oxygen permeation and stability of $\text{Zr}_{0.8}\text{Y}_{0.2}\text{O}_2$ - $\text{La}_{0.8}\text{Sr}_{0.2}\text{CrO}_3$ dual-phase composite. <i>Journal of Solid State Electrochemistry</i> , 2006 , 10, 625-628	2.6	29
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25	Oxygen Permeability and Stability of $\text{Sr}_{0.95}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_3$ in a CO_2 - and H_2O -Containing Atmosphere. <i>Chemistry of Materials</i> , 2005 , 17, 5856-5861	9.6	97
24	Oxygen selective ceramic hollow fiber membranes. <i>Journal of Membrane Science</i> , 2005 , 246, 103-108	9.6	160
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12	Synthesis of Single-Crystalline TiO ₂ Nanotubes. <i>Chemistry of Materials</i> , 2002 , 14, 1391-1397	9.6	233
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