

# Shaomin Liu

## List of Publications by Year in descending order

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582  
papers

34,805  
citations

3334

91  
h-index

6996

154  
g-index

590  
all docs

590  
docs citations

590  
times ranked

27845  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single Cobalt Atoms with Precise Nâ€Coordination as Superior Oxygen Reduction Reaction Catalysts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10800-10805.	13.8	1,836
2	Mixed ionicâ€electronic conducting (MIEC) ceramic-based membranes for oxygen separation. <i>Journal of Membrane Science</i> , 2008, 320, 13-41.	8.2	1,006
3	Identification of single-atom active sites in carbon-based cobalt catalysts during electrocatalytic hydrogen evolution. <i>Nature Catalysis</i> , 2019, 2, 134-141.	34.4	629
4	Current status and development of membranes for CO <sub>2</sub> /CH <sub>4</sub> separation: A review. <i>International Journal of Greenhouse Gas Control</i> , 2013, 12, 84-107.	4.6	529
5	Bottom-up precise synthesis of stable platinum dimers on graphene. <i>Nature Communications</i> , 2017, 8, 1070.	12.8	466
6	Synthesis, characterization and evaluation of cation-ordered LnBaCo <sub>2</sub> O <sub>5+</sub> as materials of oxygen permeation membranes and cathodes of SOFCs. <i>Acta Materialia</i> , 2008, 56, 4876-4889.	7.9	461
7	Singleâ€Site Active Cobaltâ€Based Photocatalyst with a Long Carrier Lifetime for Spontaneous Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9312-9317.	13.8	393
8	Recent advances in nanostructured metal nitrides for water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19912-19933.	10.3	392
9	Mechanistic investigation of the enhanced NH <sub>3</sub> -SCR on cobalt-decorated Ce-Ti mixed oxide: In situ FTIR analysis for structure-activity correlation. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 297-308.	20.2	388
10	An insight into metal organic framework derived N-doped graphene for the oxidative degradation of persistent contaminants: formation mechanism and generation of singlet oxygen from peroxymonosulfate. <i>Environmental Science: Nano</i> , 2017, 4, 315-324.	4.3	372
11	Chemical Approaches toward Grapheneâ€Based Nanomaterials and their Applications in Energyâ€Related Areas. <i>Small</i> , 2012, 8, 630-646.	10.0	368
12	Recent advances in non-metal modification of graphitic carbon nitride for photocatalysis: a historic review. <i>Catalysis Science and Technology</i> , 2016, 6, 7002-7023.	4.1	350
13	Dye Adsorption on Layered Graphite Oxide. <i>Journal of Chemical &amp; Engineering Data</i> , 2011, 56, 138-141.	1.9	325
14	Facile assembly of Bi <sub>2</sub> O <sub>3</sub> /Bi <sub>2</sub> S <sub>3</sub> /MoS <sub>2</sub> n-p heterojunction with layered n-Bi <sub>2</sub> O <sub>3</sub> and p-MoS <sub>2</sub> for enhanced photocatalytic water oxidation and pollutant degradation. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 47-55.	20.2	314
15	Gaseous Heterogeneous Catalytic Reactions over Mn-Based Oxides for Environmental Applications: A Critical Review. <i>Environmental Science &amp; Technology</i> , 2017, 51, 8879-8892.	10.0	291
16	Catalytic combustion of 1,2-dichlorobenzene at low temperature over Mn-modified Co <sub>3</sub> O <sub>4</sub> catalysts. <i>Applied Catalysis B: Environmental</i> , 2015, 166-167, 393-405.	20.2	289
17	Synthesis of Single-Crystalline TiO <sub>2</sub> Nanotubes. <i>Chemistry of Materials</i> , 2002, 14, 1391-1397.	6.7	251
18	Oxidative Dehydrogenation on Nanocarbon: Identification and Quantification of Active Sites by Chemical Titration. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14224-14228.	13.8	246

#	ARTICLE	IF	CITATIONS
19	N-Doped Graphene from Metal-Organic Frameworks for Catalytic Oxidation of p-Hydroxybenzoic Acid: N-Functionality and Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2693-2701.	6.7	243
20	Preparation and characterization of inorganic hollow fiber membranes. <i>Journal of Membrane Science</i> , 2001, 188, 87-95.	8.2	240
21	Preparation, characterization and activity evaluation of p-n junction photocatalyst p-ZnO/n-TiO <sub>2</sub> . <i>Applied Surface Science</i> , 2008, 255, 2478-2484.	6.1	236
22	Fabrication of complex-shaped zirconia ceramic parts via a DLP- stereolithography-based 3D printing method. <i>Ceramics International</i> , 2018, 44, 3412-3416.	4.8	235
23	Fabrication and characterization of polyamide thin film nanocomposite (TFN) nanofiltration membrane impregnated with TiO <sub>2</sub> nanoparticles. <i>Desalination</i> , 2013, 313, 176-188.	8.2	229
24	Re-evaluation of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> perovskite as oxygen semi-permeable membrane. <i>Journal of Membrane Science</i> , 2007, 291, 148-156.	8.2	226
25	Impact of oxygen vacancy occupancy on piezo-catalytic activity of BaTiO <sub>3</sub> nanobelt. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119340.	20.2	226
26	Fundamental Understanding of Photocurrent Hysteresis in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1803017.	19.5	224
27	Optimization of High-Speed DNA Sequencing on Microfabricated Capillary Electrophoresis Channels. <i>Analytical Chemistry</i> , 1999, 71, 566-573.	6.5	221
28	Boosting Fenton-Like Reactions via Single Atom Fe Catalysis. <i>Environmental Science &amp; Technology</i> , 2019, 53, 11391-11400.	10.0	210
29	Active Centers of Catalysts for Higher Alcohol Synthesis from Syngas: A Review. <i>ACS Catalysis</i> , 2018, 8, 7025-7050.	11.2	206
30	Roles of structure defect, oxygen groups and heteroatom doping on carbon in nonradical oxidation of water contaminants. <i>Water Research</i> , 2020, 185, 116244.	11.3	194
31	In Situ Investigation of Reversible Exsolution/Dissolution of CoFe Alloy Nanoparticles in a Co-Doped Sr <sub>2</sub> Fe <sub>1.5</sub> Mo <sub>0.5</sub> O <sub>6</sub> Cathode for CO <sub>2</sub> Electrolysis. <i>Advanced Materials</i> , 2020, 32, e1906193.	21.0	185
32	Oxygen selective ceramic hollow fiber membranes. <i>Journal of Membrane Science</i> , 2005, 246, 103-108.	8.2	184
33	Assessment of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>1-y</sub> Fe <sub>y</sub> O <sub>3-<math>\delta</math></sub> (y=0-1.0) for prospective application as cathode for IT-SOFCs or oxygen permeating membrane. <i>Electrochimica Acta</i> , 2007, 52, 7343-7351.	5.2	182
34	Graphene facilitated visible light photodegradation of methylene blue over titanium dioxide photocatalysts. <i>Chemical Engineering Journal</i> , 2013, 214, 298-303.	12.7	181
35	A comparative study of reduced graphene oxide modified TiO <sub>2</sub> , ZnO and Ta <sub>2</sub> O <sub>5</sub> in visible light photocatalytic/photochemical oxidation of methylene blue. <i>Applied Catalysis B: Environmental</i> , 2014, 146, 162-168.	20.2	178
36	Understanding of the Oxidation Behavior of Benzyl Alcohol by Peroxymonosulfate via Carbon Nanotubes Activation. <i>ACS Catalysis</i> , 2020, 10, 3516-3525.	11.2	178

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37	Upconversion carbon quantum dots as visible light responsive component for efficient enhancement of photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 425-433.	9.4	176
38	Preparation of porous aluminium oxide (Al <sub>2</sub> O <sub>3</sub> ) hollow fibre membranes by a combined phase-inversion and sintering method. <i>Ceramics International</i> , 2003, 29, 875-881.	4.8	173
39	Effect of the particle size and the debinding process on the density of alumina ceramics fabricated by 3D printing based on stereolithography. <i>Ceramics International</i> , 2016, 42, 17290-17294.	4.8	170
40	Designing CO <sub>2</sub> -resistant oxygen-selective mixed ionic-electronic conducting membranes: guidelines, recent advances, and forward directions. <i>Chemical Society Reviews</i> , 2017, 46, 2941-3005.	38.1	164
41	Magnetic Ni-Co alloy encapsulated N-doped carbon nanotubes for catalytic membrane degradation of emerging contaminants. <i>Chemical Engineering Journal</i> , 2019, 362, 251-261.	12.7	164
42	Cathode processes and materials for solid oxide fuel cells with proton conductors as electrolytes. <i>Journal of Materials Chemistry</i> , 2010, 20, 6218.	6.7	163
43	Development of mixed conducting membranes for clean coal energy delivery. <i>International Journal of Greenhouse Gas Control</i> , 2009, 3, 357-367.	4.6	159
44	Fabrication of dense zirconia-toughened alumina ceramics through a stereolithography-based additive manufacturing. <i>Ceramics International</i> , 2017, 43, 968-972.	4.8	157
45	Conversion of Methane to Syngas by a Membrane-Based Oxidation-Reforming Process. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5196-5198.	13.8	152
46	Preparation of a defect-free alumina cutting tool via additive manufacturing based on stereolithography - Optimization of the drying and debinding processes. <i>Ceramics International</i> , 2016, 42, 11598-11602.	4.8	152
47	Surface-Nitrided Nickel with Bifunctional Structure As Low-Cost Counter Electrode for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13397-13401.	3.1	149
48	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.	10.3	145
49	Nanosized perovskite-type oxides La <sub>1-x</sub> Sr <sub>x</sub> MO <sub>3</sub> (M=Co, Mn; x=0, 0.4) for the catalytic removal of ethylacetate. <i>Catalysis Today</i> , 2007, 126, 420-429.	4.4	143
50	Research progress and materials selection guidelines on mixed conducting perovskite-type ceramic membranes for oxygen production. <i>RSC Advances</i> , 2011, 1, 1661.	3.6	143
51	Amphiphobic PVDF composite membranes for anti-fouling direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016, 505, 61-69.	8.2	141
52	Oxygen Vacancies in Shape Controlled Cu <sub>2</sub> O/Reduced Graphene Oxide/In <sub>2</sub> O <sub>3</sub> Hybrid for Promoted Photocatalytic Water Oxidation and Degradation of Environmental Pollutants. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 11678-11688.	8.0	137
53	Properties of polyvinyl chloride (PVC) ultrafiltration membrane improved by lignin: Hydrophilicity and antifouling. <i>Journal of Membrane Science</i> , 2019, 575, 50-59.	8.2	136
54	Efficient stabilization of cubic perovskite SrCoO <sub>3</sub> by B-site low concentration scandium doping combined with sol-gel synthesis. <i>Journal of Alloys and Compounds</i> , 2008, 455, 465-470.	5.5	132

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55	Preparation and characterisation of SrCe <sub>0.95</sub> Yb <sub>0.05</sub> O <sub>2.975</sub> hollow fibre membranes. <i>Journal of Membrane Science</i> , 2001, 193, 249-260.	8.2	130
56	Combustion synthesis of high-performance Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> for secondary Li-ion battery. <i>Ceramics International</i> , 2009, 35, 1757-1768.	4.8	130
57	Photocatalytic CO <sub>2</sub> conversion over single-atom MoN <sub>2</sub> sites of covalent organic framework. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120146.	20.2	130
58	High performance perovskite hollow fibres for oxygen separation. <i>Journal of Membrane Science</i> , 2011, 368, 64-68.	8.2	129
59	Surface charging of layered double hydroxides during dynamic interactions of anions at the interfaces. <i>Journal of Colloid and Interface Science</i> , 2008, 326, 522-529.	9.4	128
60	Mixed-Matrix Membranes with Metal-Organic Framework-Decorated CNT Fillers for Efficient CO <sub>2</sub> Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 14750-14757.	8.0	124
61	Improved activity of W-modified MnO-TiO <sub>2</sub> catalysts for the selective catalytic reduction of NO with NH <sub>3</sub> . <i>Chemical Engineering Journal</i> , 2016, 288, 216-222.	12.7	123
62	Oxygen permeation behavior of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> hollow fibre membranes with highly concentrated CO <sub>2</sub> exposure. <i>Journal of Membrane Science</i> , 2012, 389, 216-222.	8.2	122
63	Improved separation and antifouling performance of PVA thin film nanocomposite membranes incorporated with carboxylated TiO <sub>2</sub> nanoparticles. <i>Journal of Membrane Science</i> , 2015, 485, 48-59.	8.2	121
64	Facile synthesis of N-doped 3D graphene aerogel and its excellent performance in catalytic degradation of antibiotic contaminants in water. <i>Carbon</i> , 2019, 144, 781-790.	10.3	121
65	Significant effects of sintering temperature on the performance of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> oxygen selective membranes. <i>Journal of Membrane Science</i> , 2007, 302, 171-179.	8.2	120
66	The potent antimicrobial properties of cell penetrating peptide-conjugated silver nanoparticles with excellent selectivity for Gram-positive bacteria over erythrocytes. <i>Nanoscale</i> , 2013, 5, 3834.	5.6	120
67	Enhancement of oxygen permeation through La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> hollow fibre membranes by surface modifications. <i>Journal of Membrane Science</i> , 2008, 324, 128-135.	8.2	115
68	Hydrothermal stability of cobalt silica membranes in a water gas shift membrane reactor. <i>Separation and Purification Technology</i> , 2009, 66, 299-305.	7.9	115
69	Highly Dispersed NiCo <sub>2</sub> O <sub>4</sub> Nanodots Decorated Three-Dimensional g-C <sub>3</sub> N <sub>4</sub> for Enhanced Photocatalytic H <sub>2</sub> Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 12428-12438.	6.7	115
70	Preparation and functionality of clay-containing films. <i>Journal of Materials Chemistry</i> , 2011, 21, 15132.	6.7	114
71	A high performance cathode for proton conducting solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8405-8412.	10.3	113
72	Oxygen Vacancy-rich Porous Co <sub>3</sub> O <sub>4</sub> Nanosheets toward Boosted NO Reduction by CO and CO Oxidation: Insights into the Structure-Activity Relationship and Performance Enhancement Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 41988-41999.	8.0	113

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73	Properties and performance of A-site deficient $(\text{Ba}_{0.5}\text{Sr}_{0.5})_{1-x}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ for oxygen permeating membrane. <i>Journal of Membrane Science</i> , 2007, 306, 318-328.	8.2	111
74	A numerical study on thermo-hydraulic characteristics of turbulent flow in a circular tube fitted with conical strip inserts. <i>Applied Thermal Engineering</i> , 2011, 31, 2819-2828.	6.0	111
75	Synthesis and optical property of one-dimensional spinel $\text{ZnMn}_2\text{O}_4$ nanorods. <i>Nanoscale Research Letters</i> , 2011, 6, 323.	5.7	111
76	Steam reforming of acetic acid over Ni/ZrO <sub>2</sub> catalysts: Effects of nickel loading and particle size on product distribution and coke formation. <i>Applied Catalysis A: General</i> , 2012, 417-418, 281-289.	4.3	107
77	$\text{BaNb}_{0.05}\text{Fe}_{0.95}\text{O}_{3-\delta}$ as a new oxygen reduction electrocatalyst for intermediate temperature solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9781.	10.3	107
78	Factors That Determine the Performance of Carbon Fuels in the Direct Carbon Fuel Cell. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 9670-9677.	3.7	106
79	Oxygen Permeability and Stability of $\text{Sr}_{0.95}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ in a CO <sub>2</sub> - and H <sub>2</sub> O-Containing Atmosphere. <i>Chemistry of Materials</i> , 2005, 17, 5856-5861.	6.7	104
80	Fabrication and characterization of an anode-supported hollow fiber SOFC. <i>Journal of Power Sources</i> , 2009, 187, 90-92.	7.8	103
81	Effects of amino functionality on uptake of CO <sub>2</sub> , CH <sub>4</sub> and selectivity of CO <sub>2</sub> /CH <sub>4</sub> on titanium based MOFs. <i>Fuel</i> , 2015, 160, 318-327.	6.4	99
82	Metal doped silica membrane reactor: Operational effects of reaction and permeation for the water gas shift reaction. <i>Journal of Membrane Science</i> , 2008, 316, 46-52.	8.2	98
83	Novel cobalt-free cathode materials $\text{BaCe}_x\text{Fe}_{1-x}\text{O}_{3-\delta}$ for proton-conducting solid oxide fuel cells. <i>Journal of Power Sources</i> , 2009, 194, 801-804.	7.8	98
84	Cobalt-doped silica membranes for gas separation. <i>Journal of Membrane Science</i> , 2009, 326, 316-321.	8.2	98
85	Enhancement photocatalytic activity of the graphite-like C <sub>3</sub> N <sub>4</sub> coated hollow pencil-like ZnO. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 381-387.	9.4	98
86	Preparation of AgInS <sub>2</sub> /TiO <sub>2</sub> composites for enhanced photocatalytic degradation of gaseous o-dichlorobenzene under visible light. <i>Applied Catalysis B: Environmental</i> , 2016, 185, 1-10.	20.2	98
87	Directing Charge Transfer in a Chemical-Bonded BaTiO <sub>3</sub> @ReS <sub>2</sub> Schottky Heterojunction for Piezoelectric Enhanced Photocatalysis. <i>Advanced Materials</i> , 2022, 34, e2202508.	21.0	98
88	Construction of p-n heterojunction $\text{Bi}_2\text{O}_3/\text{BiVO}_4$ nanocomposite with improved photoinduced charge transfer property and enhanced activity in degradation of ortho-dichlorobenzene. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 259-268.	20.2	97
89	Bimetallic Ni-M (M = Co, Cu and Zn) supported on attapulgite as catalysts for hydrogen production from glycerol steam reforming. <i>Applied Catalysis A: General</i> , 2018, 550, 214-227.	4.3	96
90	MXene as a non-metal charge mediator in 2D layered CdS@Ti <sub>3</sub> C <sub>2</sub> @TiO <sub>2</sub> composites with superior Z-scheme visible light-driven photocatalytic activity. <i>Environmental Science: Nano</i> , 2019, 6, 3158-3169.	4.3	95

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91	Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> ceramic hollow-fiber membranes for oxygen permeation. <i>AIChE Journal</i> , 2006, 52, 3452-3461.	3.6	93
92	Improved ZIF-8 membrane: Effect of activation procedure and determination of diffusivities of light hydrocarbons. <i>Journal of Membrane Science</i> , 2015, 493, 88-96.	8.2	93
93	Rapid microwave synthesis of I-doped Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> with significantly enhanced visible-light photocatalysis for degradation of multiple parabens. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 398-408.	20.2	93
94	Role of electronic properties in partition of radical and nonradical processes of carbocatalysis toward peroxymonosulfate activation. <i>Carbon</i> , 2019, 153, 73-80.	10.3	93
95	Self-assembly of 3D MnO <sub>2</sub> /N-doped graphene hybrid aerogel for catalytic degradation of water pollutants: Structure-dependent activity. <i>Chemical Engineering Journal</i> , 2019, 369, 1049-1058.	12.7	93
96	Perovskite Oxide Catalysts for Advanced Oxidation Reactions. <i>Advanced Functional Materials</i> , 2021, 31, 2102089.	14.9	93
97	The enhancement of oxygen flux on Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> (BSCF) hollow fibers using silver surface modification. <i>Journal of Membrane Science</i> , 2009, 340, 148-153.	8.2	91
98	FePO <sub>4</sub> based single chamber air-cathode microbial fuel cell for online monitoring levofloxacin. <i>Biosensors and Bioelectronics</i> , 2017, 91, 367-373.	10.1	91
99	Morphology control of the perovskite hollow fibre membranes for oxygen separation using different bore fluids. <i>Journal of Membrane Science</i> , 2011, 378, 308-318.	8.2	90
100	Hierarchically ordered meso/macroporous $\gamma$ -alumina for enhanced hydrodesulfurization performance. <i>Microporous and Mesoporous Materials</i> , 2012, 158, 1-6.	4.4	89
101	Catalytic perovskite hollow fibre membrane reactors for methane oxidative coupling. <i>Journal of Membrane Science</i> , 2007, 302, 109-114.	8.2	88
102	Photocatalytic activation of peroxymonosulfate by surface-tailored carbon quantum dots. <i>Journal of Hazardous Materials</i> , 2020, 395, 122695.	12.4	88
103	An unprecedented high-temperature-tolerance 2D laminar MXene membrane for ultrafast hydrogen sieving. <i>Journal of Membrane Science</i> , 2019, 569, 117-123.	8.2	87
104	The role of copper species on Cu/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalysts for NH <sub>3</sub> -SCO reaction. <i>Applied Surface Science</i> , 2012, 258, 3738-3743.	6.1	86
105	Perovskite-based proton conducting membranes for hydrogen separation: A review. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 15281-15305.	7.1	86
106	Preparation TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> composite hollow fibre membranes. <i>Journal of Membrane Science</i> , 2003, 218, 269-277.	8.2	85
107	Synthesis of cobalt-aluminate spinels via glycine chelated precursors. <i>Materials Chemistry and Physics</i> , 2006, 96, 361-370.	4.0	85
108	Adsorption of Anionic Dyes on Boron Industry Waste in Single and Binary Solutions Using Batch and Fixed-Bed Systems. <i>Journal of Chemical &amp; Engineering Data</i> , 2011, 56, 508-516.	1.9	85

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109	Investigation of Gas Permeability in Carbon Nanotube (CNT)-Polymer Matrix Membranes via Modifying CNTs with Functional Groups/Metals and Controlling Modification Location. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6661-6670.	3.1	83
110	Facile synthesis of tube-shaped Mn-Ni-Ti solid solution and preferable Langmuir-Hinshelwood mechanism for selective catalytic reduction of NO by NH <sub>3</sub> . <i>Applied Catalysis A: General</i> , 2018, 549, 289-301.	4.3	83
111	An experimental and numerical study on the laminar heat transfer and flow characteristics of a circular tube fitted with multiple conical strips inserts. <i>International Journal of Heat and Mass Transfer</i> , 2018, 117, 691-709.	4.8	82
112	Oxygen permeation through a Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>2</sub> -La <sub>0.8</sub> Sr <sub>0.2</sub> CrO <sub>3</sub> dual-phase composite membrane. <i>Journal of Membrane Science</i> , 2006, 280, 849-855.	8.2	81
113	Research into the mechanical properties, sintering mechanism and microstructure evolution of Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> composites fabricated by a stereolithography-based 3D printing method. <i>Materials Chemistry and Physics</i> , 2018, 207, 1-10.	4.0	81
114	Thermal-hydraulic performance and entropy generation analysis of a parabolic trough receiver with conical strip inserts. <i>Energy Conversion and Management</i> , 2019, 179, 30-45.	9.2	81
115	Synthesis and hydrogen permeation of Ni-Ba(Zr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.2</sub> )O <sub>3</sub> metal-ceramic asymmetric membranes. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 6337-6342.	7.1	80
116	Quantum-sized BiVO <sub>4</sub> modified TiO <sub>2</sub> microflower composite heterostructures: efficient production of hydroxyl radicals towards visible light-driven degradation of gaseous toluene. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21655-21663.	10.3	79
117	Photocatalysis of C, N-doped ZnO derived from ZIF-8 for dye degradation and water oxidation. <i>RSC Advances</i> , 2016, 6, 95903-95909.	3.6	79
118	TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> photocatalyst for the purification of potassium butyl xanthate in mineral processing wastewater. <i>Journal of Environmental Management</i> , 2021, 297, 113311.	7.8	79
119	The Mechanism of Piezocatalysis: Energy Band Theory or Screening Charge Effect?. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202110429.	13.8	79
120	Indium as an ideal functional dopant for a proton-conducting solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2421-2425.	7.1	78
121	Novel CO <sub>2</sub> -tolerant ion-transporting ceramic membranes with an external short circuit for oxygen separation at intermediate temperatures. <i>Energy and Environmental Science</i> , 2012, 5, 5257-5264.	30.8	78
122	A new cobalt-free proton-blocking composite cathode La <sub>2</sub> NiO <sub>4</sub> -LaNi <sub>0.6</sub> Fe <sub>0.4</sub> O <sub>3</sub> for BaZr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.2</sub> O <sub>3</sub> -based solid oxide fuel cells. <i>Journal of Power Sources</i> , 2014, 264, 67-75.	7.8	78
123	The Development of Yolk-Shell Structured Pd&ZnO@Carbon Submicroreactors with High Selectivity and Stability. <i>Advanced Functional Materials</i> , 2018, 28, 1801737.	14.9	78
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