

# Ning Han

## List of Publications by Year in descending order

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80  
papers

2,951  
citations

159585

30  
h-index

189892

50  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1953  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in nanostructured metal nitrides for water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19912-19933.	10.3	392
2	High-Quality Ruddlesden-Popper Perovskite Film Formation for High-Performance Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2002582.	21.0	182
3	Photocatalytic degradation of xanthate in flotation plant tailings by TiO <sub>2</sub> /graphene nanocomposites. <i>Chemical Engineering Journal</i> , 2022, 431, 134104.	12.7	124
4	A cation selective separator induced cathode protective layer and regulated zinc deposition for zinc ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4734-4743.	10.3	97
5	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
6	Hydrogen production through methane reforming processes using promoted-Ni/mesoporous silica: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 107, 20-30.	5.8	79
7	Superior three-dimensional perovskite catalyst for catalytic oxidation. <i>EcoMat</i> , 2020, 2, e12044.	11.9	72
8	Valorisation of nuts biowaste: Prospects in sustainable bio(nano)catalysts and environmental applications. <i>Journal of Cleaner Production</i> , 2022, 347, 131220.	9.3	71
9	Perovskite and related oxide based electrodes for water splitting. <i>Journal of Cleaner Production</i> , 2021, 318, 128544.	9.3	70
10	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.	12.0	69
11	Efficient removal of organic and bacterial pollutants by Ag-La <sub>0.8</sub> Ca <sub>0.2</sub> Fe <sub>0.94</sub> O <sub>3-<math>\delta</math></sub> perovskite via catalytic peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , 2018, 356, 53-60.	12.4	67
12	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
13	Perovskite oxides for oxygen transport: Chemistry and material horizons. <i>Science of the Total Environment</i> , 2022, 806, 151213.	8.0	58
14	Electrochemical Compression Technologies for High-Pressure Hydrogen: Current Status, Challenges and Perspective. <i>Electrochemical Energy Reviews</i> , 2020, 3, 690-729.	25.5	56
15	Critical Role of Phosphorus in Hollow Structures Cobalt-Based Phosphides as Bifunctional Catalysts for Water Splitting. <i>Small</i> , 2022, 18, e2103561.	10.0	54
16	Perovskite oxide for emerging photo(electro)catalysis in energy and environment. <i>Environmental Research</i> , 2022, 205, 112544.	7.5	50
17	Effect of enhanced oxygen reduction activity on oxygen permeation of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> membrane decorated by K <sub>2</sub> NiF <sub>4</sub> -type oxide. <i>Journal of Alloys and Compounds</i> , 2016, 654, 280-289.	5.5	47
18	Insights into the Adsorption of VOCs on a Cobalt-Adeninate Metal-Organic Framework (Bio-MOF-11). <i>ACS Omega</i> , 2020, 5, 15402-15408.	3.5	45

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19	Novel Ag <sub>3</sub> PO <sub>4</sub> /boron-carbon-nitrogen photocatalyst for highly efficient degradation of organic pollutants under visible-light irradiation. <i>Journal of Environmental Management</i> , 2021, 292, 112763.	7.8	44
20	Density functional theory calculations of atomic, electronic and thermodynamic properties of cubic LaCoO <sub>3</sub> and La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3</sub> surfaces. <i>RSC Advances</i> , 2015, 5, 760-769.	3.6	43
21	Re-evaluation of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> hollow fiber membranes for oxygen separation after long-term storage of five and ten years. <i>Journal of Membrane Science</i> , 2019, 587, 117180.	8.2	42
22	Fundamental understanding of oxygen content in activated carbon on acetone adsorption desorption. <i>Applied Surface Science</i> , 2020, 508, 145211.	6.1	39
23	Oxygen selective perovskite hollow fiber membrane bundles. <i>Journal of Membrane Science</i> , 2019, 581, 393-400.	8.2	37
24	Highly Stable Dual-Phase Membrane Based on Ce <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>2-<math>\delta</math></sub> and La <sub>2</sub> NiO <sub>4+<math>\delta</math></sub> for Oxygen Permeation under Pure CO <sub>2</sub> Atmosphere. <i>Energy Technology</i> , 2019, 7, 1800701.	3.8	37
25	A Novel Approach to Fabricate Membrane Electrode Assembly by Directly Coating the Nafion Ionomer on Catalyst Layers for Proton-Exchange Membrane Fuel Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9803-9812.	6.7	37
26	Enhancing O <sub>2</sub> -permeability and CO <sub>2</sub> -tolerance of La <sub>2</sub> NiO <sub>4+<math>\delta</math></sub> membrane via internal ionic-path. <i>Materials Letters</i> , 2018, 230, 161-165.	2.6	34
27	Boosting the oxygen evolution electrocatalysis of layered nickel hydroxidenitrate nanosheets by iron doping. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 10627-10636.	7.1	34
28	Exsolution of CoFe(Ru) nanoparticles in Ru-doped (La <sub>0.8</sub> Sr <sub>0.2</sub> ) <sub>0.9</sub> Co <sub>0.1</sub> Fe <sub>0.8</sub> Ru <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> for efficient oxygen evolution reaction. <i>Nano Research</i> , 2022, 15, 6977-6986.	10.4	34
29	Influence of nitric oxide on the oxygen permeation behavior of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> perovskite membranes. <i>Separation and Purification Technology</i> , 2019, 210, 900-906.	7.9	33
30	Novel oxygen permeable hollow fiber perovskite membrane with surface wrinkles. <i>Separation and Purification Technology</i> , 2021, 261, 118295.	7.9	33
31	Scientometric analysis and scientific trends on microplastics research. <i>Chemosphere</i> , 2022, 304, 135337.	8.2	32
32	Rational design via tailoring Mo content in La <sub>2</sub> Ni <sub>1-x</sub> Mo <sub>x</sub> O <sub>4+<math>\delta</math></sub> to improve oxygen permeation properties in CO <sub>2</sub> atmosphere. <i>Journal of Alloys and Compounds</i> , 2019, 806, 153-162.	5.5	30
33	Efficient removal of organic pollutants by ceramic hollow fibre supported composite catalyst. <i>Sustainable Materials and Technologies</i> , 2019, 20, e00108.	3.3	30
34	Enhancement of oxygen permeation fluxes of La <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3-<math>\delta</math></sub> hollow fiber membrane via macrostructure modification and (La <sub>0.5</sub> Sr <sub>0.5</sub> ) <sub>2</sub> CoO <sub>4+<math>\delta</math></sub> decoration. <i>Chemical Engineering Research and Design</i> , 2018, 134, 487-496.	5.6	29
35	A novel cobalt chloride hydrate modified Co-MOF derived carbon microspheres as anode materials for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2022, 433, 133568.	12.7	27
36	Review of metal oxides as anode materials for lithium-ion batteries. <i>Dalton Transactions</i> , 2022, 51, 9584-9590.	3.3	26

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37	The effect of microstructure and surface decoration with $K_2NiF_4$ -type oxide upon the oxygen permeability of perovskite-type $La_{0.7}Sr_{0.3}FeO_{3-\delta}$ hollow fiber membranes. <i>RSC Advances</i> , 2015, 5, 88602-88611.	3.6	25
38	Recent Breakthroughs in the Bottleneck of Cathode Materials for Li-S Batteries. <i>Energy &amp; Fuels</i> , 2021, 35, 15455-15471.	5.1	25
39	Rational design of Ruddlesden-Popper perovskite electrocatalyst for oxygen reduction to hydrogen peroxide. <i>SusMat</i> , 2022, 2, 456-465.	14.9	25
40	A new concept of Al-Si alloy with core-shell structure as phase change materials for thermal energy storage. <i>Materials Letters</i> , 2019, 237, 193-196.	2.6	24
41	One-step thermal processing to prepare $BaCo_{0.95}Bi_{0.05}ZrO_{3-\delta}$ membranes for oxygen separation. <i>Ceramics International</i> , 2019, 45, 12579-12585.	4.8	23
42	Enhancing Oxygen Permeation via the Incorporation of Silver Inside Perovskite Oxide Membranes. <i>Processes</i> , 2019, 7, 199.	2.8	23
43	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
44	A novel lanthanum strontium cobalt iron composite membrane synthesised through beneficial phase reaction for oxygen separation. <i>Ceramics International</i> , 2019, 45, 18924-18930.	4.8	21
45	Perovskite oxide and carbonate composite membrane for carbon dioxide transport. <i>Materials Letters</i> , 2019, 236, 329-333.	2.6	21
46	Heavy metals pollution characteristics and risk assessment in sediments and waters: The case of Tianjin, China. <i>Environmental Research</i> , 2022, 212, 113162.	7.5	21
47	Supramolecular assemblies working as both artificial light-harvesting system and nanoreactor for efficient organic dehalogenation in aqueous environment. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 118-128.	9.4	20
48	The effect of cleaner and sustainable sewage fee-to-tax on business innovation. <i>Journal of Cleaner Production</i> , 2022, 361, 132287.	9.3	20
49	Experimental and theoretical exploration of gas permeation mechanism through 2D graphene (not Tj ETQq1 1 0.784314 rgBT /Overlo	8.2	19
50	Insights into electrochemical hydrogen compressor operating parameters and membrane electrode assembly degradation mechanisms. <i>Journal of Power Sources</i> , 2021, 484, 229249.	7.8	18
51	Perovskite oxide based composite hollow fiber membrane for CO <sub>2</sub> transport. <i>Ceramics International</i> , 2020, 46, 2538-2544.	4.8	17
52	Artificial light-harvesting systems and their applications in photocatalysis and cell labeling. <i>ChemPhysMater</i> , 2022, 1, 281-293.	2.8	17
53	Novel applications of perovskite oxide via catalytic peroxydisulfate advanced oxidation in aqueous systems for trace L-cysteine detection. <i>Journal of Colloid and Interface Science</i> , 2019, 545, 311-316.	9.4	16
54	Biodiesel synthesis from <i>Prunus bokhariensis</i> non-edible seed oil by using green silver oxide nanocatalyst. <i>Chemosphere</i> , 2022, 291, 132780.	8.2	16

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55	Boosting the electrochemical nitrogen reduction by rhenium-doping modulated TiO <sub>2</sub> nanofibers. <i>Chemical Engineering Journal</i> , 2022, 434, 134648.	12.7	16
56	Electrochemical layered double hydroxide (LDH)-based biosensors for pesticides detection in food and environment samples: A review of status and prospects. <i>Food and Chemical Toxicology</i> , 2022, 164, 113010.	3.6	16
57	Nanoporous silver-modified LaCoO <sub>3-<math>\delta</math></sub> perovskite for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2021, 391, 138908.	5.2	15
58	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
59	Adjusting the interfacial adhesion via surface modification to prepare high-performance fibers. <i>Nano Materials Science</i> , 2023, 5, 1-14.	8.8	15
60	Rational design of mixed ionic-electronic conducting membranes for oxygen transport. <i>Chemosphere</i> , 2022, 305, 135483.	8.2	15
61	Insights into MXenes-based electrocatalysts for oxygen reduction. <i>Energy</i> , 2022, 255, 124465.	8.8	15
62	Effects of AlB <sub>2</sub> /AlP phase and electromagnetic stirring on impurity B/P removal in the solidification process of Al-30Si alloy. <i>Separation and Purification Technology</i> , 2018, 207, 151-157.	7.9	13
63	Enhanced CO selectivity for reverse water-gas shift reaction using Ti <sub>4</sub> O <sub>7</sub> -doped SrCe <sub>0.9</sub> Y <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> hollow fibre membrane reactor. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 1619-1626.	1.7	13
64	Investigation of perovskite BaCe <sub>1-x</sub> Mn <sub>x</sub> O <sub>3-<math>\delta</math></sub> for methane combustion. <i>Ceramics International</i> , 2021, 47, 8762-8768.	4.8	13
65	Numerical simulation of liquid jet atomization in subsonic crossflow. <i>Energy</i> , 2022, 257, 124676.	8.8	13
66	Arsenite (III) removal via manganese-decoration on cellulose nanocrystal-grafted polyethyleneimine nanocomposite. <i>Chemosphere</i> , 2022, 303, 134925.	8.2	12
67	A novel heterogeneous La <sub>0.8</sub> Sr <sub>0.2</sub> CoO <sub>3-<math>\delta</math></sub> /(La <sub>0.5</sub> Sr <sub>0.5</sub> ) <sub>2</sub> CoO <sub>4-<math>\delta</math></sub> dual-phase membrane for oxygen separation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018, 13, e2239.	1.5	11
68	Enhancing Segregation Behavior of Impurity by Electromagnetic Stirring in the Solidification Process of Al-30Si Alloy. <i>Metals</i> , 2020, 10, 155.	2.3	11
69	Vanadium Metaphosphate V(PO <sub>3</sub> ) <sub>3</sub> Derived from V-MOF as a Novel Anode for Lithium-ion Batteries. <i>ChemistrySelect</i> , 2021, 6, 8150-8157.	1.5	11
70	Nitrogen-Doped Porous Ag-C@Co <sub>3</sub> O <sub>4</sub> Nanocomposite for Boosting Lithium Ion Batteries. <i>Energy &amp; Fuels</i> , 2022, 36, 2861-2871.	5.1	11
71	Electromagnetic self-encapsulation strategy to develop Al-matrix composite phase change material for thermal energy storage. <i>Chemical Engineering Journal</i> , 2021, 425, 131664.	12.7	10
72	Cobalt-doped TaOCl <sub>3</sub> nanoparticles/carbon compounds with advanced specific capacity for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 897, 163193.	5.5	10

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73	Novel SrCo <sub>0.9</sub> W <sub>0.1</sub> O <sub>3</sub> Hollow Fiber Ceramic Membrane with Enhanced Oxygen Delivery Performance and CO <sub>2</sub> Resistance Ability. ChemistrySelect, 2018, 3, 13700-13704.	1.5	9
74	Novel La <sub>0.7</sub> Sr <sub>0.3</sub> FeO <sub>3</sub> /(La <sub>0.5</sub> Sr <sub>0.5</sub> ) <sub>2</sub> CoO <sub>4</sub> + $\gamma$ composite hollow fiber membrane for O <sub>2</sub> separation with high CO <sub>2</sub> resistance. International Journal of Energy Research, 2019, 43, 8890-8897.	4.5	9
75	Controlling Segregation Behavior of Primary Si in Hypereutectic Al-Si Alloy by Electromagnetic Stirring. Metals, 2020, 10, 1129.	2.3	9
76	Thermal Analysis and Energy Efficiency Improvements in Tunnel Kiln for Sustainable Environment. Processes, 2021, 9, 1629.	2.8	6
77	Insight into Steam Permeation through Perovskite Membrane via Transient Modeling. Membranes, 2020, 10, 164.	3.0	5
78	Facile preparation of visible light-sensitive layered g-C <sub>3</sub> N <sub>4</sub> for photocatalytic removal of organic pollutants. Chemosphere, 2022, 307, 135718.	8.2	5
79	Electromagnetic construction and mechanical properties of in-situ Si reinforced Al matrix functionally graded material with Si-rich—Si-poor coating structure. Composites Part B: Engineering, 2021, 226, 109341.	12.0	4
80	Rational design of ceramic hollow fibre catalyst, a new option for efficient removal of organic pollutants. IOP Conference Series: Earth and Environmental Science, 2020, 514, 052018.	0.3	1