

Ning Han

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7622175/publications.pdf>

Version: 2024-02-01

80
papers

2,951
citations

159358

30
h-index

189595

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.	5.2	392
2	High-Quality Ruddlesden-Popper Perovskite Film Formation for High-Performance Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2002582.	11.1	182
3	Photocatalytic degradation of xanthate in flotation plant tailings by TiO ₂ /graphene nanocomposites. <i>Chemical Engineering Journal</i> , 2022, 431, 134104.	6.6	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.	5.2	97
5	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.	3.8	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.	2.9	79
7	Superior three-dimensional perovskite catalyst for catalytic oxidation. <i>EcoMat</i> , 2020, 2, e12044.	6.8	72
8	Valorisation of nuts biowaste: Prospects in sustainable bio(nano)catalysts and environmental applications. <i>Journal of Cleaner Production</i> , 2022, 347, 131220.	4.6	71
9	Perovskite and related oxide based electrodes for water splitting. <i>Journal of Cleaner Production</i> , 2021, 318, 128544.	4.6	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.	5.9	69
11	Efficient removal of organic and bacterial pollutants by Ag-La _{0.8} Ca _{0.2} Fe _{0.94} O _{3-δ} perovskite via catalytic peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , 2018, 356, 53-60.	6.5	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.	5.0	62
13	Perovskite oxides for oxygen transport: Chemistry and material horizons. <i>Science of the Total Environment</i> , 2022, 806, 151213.	3.9	58
14	Electrochemical Compression Technologies for High-Pressure Hydrogen: Current Status, Challenges and Perspective. <i>Electrochemical Energy Reviews</i> , 2020, 3, 690-729.	13.1	56
15	Critical Role of Phosphorus in Hollow Structures Cobalt-Based Phosphides as Bifunctional Catalysts for Water Splitting. <i>Small</i> , 2022, 18, e2103561.	5.2	54
16	Perovskite oxide for emerging photo(electro)catalysis in energy and environment. <i>Environmental Research</i> , 2022, 205, 112544.	3.7	50
17	Effect of enhanced oxygen reduction activity on oxygen permeation of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} membrane decorated by K ₂ NiF ₄ -type oxide. <i>Journal of Alloys and Compounds</i> , 2016, 654, 280-289.	2.8	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.	1.6	45

#	ARTICLE	IF	CITATIONS
19	Novel Ag ₃ PO ₄ /boron-carbon-nitrogen photocatalyst for highly efficient degradation of organic pollutants under visible-light irradiation. <i>Journal of Environmental Management</i> , 2021, 292, 112763.	3.8	44
20	Density functional theory calculations of atomic, electronic and thermodynamic properties of cubic LaCoO ₃ and La _{1-x} Sr _x CoO ₃ surfaces. <i>RSC Advances</i> , 2015, 5, 760-769.	1.7	43
21	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.	4.1	42
22	Fundamental understanding of oxygen content in activated carbon on acetone adsorption desorption. <i>Applied Surface Science</i> , 2020, 508, 145211.	3.1	39
23	Oxygen selective perovskite hollow fiber membrane bundles. <i>Journal of Membrane Science</i> , 2019, 581, 393-400.	4.1	37
24	Highly Stable Dual-Phase Membrane Based on Ce _{0.9} Gd _{0.1} O _{2-δ} / La ₂ NiO _{4+δ} for Oxygen Permeation under Pure CO ₂ Atmosphere. <i>Energy Technology</i> , 2019, 7, 1800701.	1.8	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.	3.2	37
26	Enhancing O ₂ -permeability and CO ₂ -tolerance of La ₂ NiO _{4+δ} membrane via internal ionic-path. <i>Materials Letters</i> , 2018, 230, 161-165.	1.3	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.	3.8	34
28	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-δ} for efficient oxygen evolution reaction. <i>Nano Research</i> , 2022, 15, 6977-6986.	5.8	34
29	Influence of nitric oxide on the oxygen permeation behavior of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} perovskite membranes. <i>Separation and Purification Technology</i> , 2019, 210, 900-906.	3.9	33
30	Novel oxygen permeable hollow fiber perovskite membrane with surface wrinkles. <i>Separation and Purification Technology</i> , 2021, 261, 118295.	3.9	33
31	Scientometric analysis and scientific trends on microplastics research. <i>Chemosphere</i> , 2022, 304, 135337.	4.2	32
32	Rational design via tailoring Mo content in La ₂ Ni _{1-x} Mo _x O _{4+δ} to improve oxygen permeation properties in CO ₂ atmosphere. <i>Journal of Alloys and Compounds</i> , 2019, 806, 153-162.	2.8	30
33	Efficient removal of organic pollutants by ceramic hollow fibre supported composite catalyst. <i>Sustainable Materials and Technologies</i> , 2019, 20, e00108.	1.7	30
34	Enhancement of oxygen permeation fluxes of La _{0.6} Sr _{0.4} CoO _{3-δ} hollow fiber membrane via macrostructure modification and (La _{0.5} Sr _{0.5}) ₂ CoO _{4+δ} decoration. <i>Chemical Engineering Research and Design</i> , 2018, 134, 487-496.	2.7	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.	6.6	27
36	Review of metal oxides as anode materials for lithium-ion batteries. <i>Dalton Transactions</i> , 2022, 51, 9584-9590.	1.6	26

#	ARTICLE	IF	CITATIONS
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.	1.7	25
38	Recent Breakthroughs in the Bottleneck of Cathode Materials for Li-S Batteries. <i>Energy & Fuels</i> , 2021, 35, 15455-15471.	2.5	25
39	Rational design of Ruddlesden-Popper perovskite electrocatalyst for oxygen reduction to hydrogen peroxide. <i>SusMat</i> , 2022, 2, 456-465.	7.8	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.	1.3	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.	2.3	23
42	Enhancing Oxygen Permeation via the Incorporation of Silver Inside Perovskite Oxide Membranes. <i>Processes</i> , 2019, 7, 199.	1.3	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.	3.7	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.	2.3	21
45	Perovskite oxide and carbonate composite membrane for carbon dioxide transport. <i>Materials Letters</i> , 2019, 236, 329-333.	1.3	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.	3.7	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.	5.0	20
48	The effect of cleaner and sustainable sewage fee-to-tax on business innovation. <i>Journal of Cleaner Production</i> , 2022, 361, 132287.	4.6	20
49	Experimental and theoretical exploration of gas permeation mechanism through 2D graphene (not) Tj ETQq1 1 0.784314 rgBT /Overlo	4.1	19
50	Insights into electrochemical hydrogen compressor operating parameters and membrane electrode assembly degradation mechanisms. <i>Journal of Power Sources</i> , 2021, 484, 229249.	4.0	18
51	Perovskite oxide based composite hollow fiber membrane for CO ₂ transport. <i>Ceramics International</i> , 2020, 46, 2538-2544.	2.3	17
52	Artificial light-harvesting systems and their applications in photocatalysis and cell labeling. <i>ChemPhysMater</i> , 2022, 1, 281-293.	1.4	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.	5.0	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.	4.2	16

#	ARTICLE	IF	CITATIONS
55	Boosting the electrochemical nitrogen reduction by rhenium-doping modulated TiO ₂ nanofibers. <i>Chemical Engineering Journal</i> , 2022, 434, 134648.	6.6	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.	1.8	16
57	Nanoporous silver-modified LaCoO _{3-δ} perovskite for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2021, 391, 138908.	2.6	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.	3.7	15
59	Adjusting the interfacial adhesion via surface modification to prepare high-performance fibers. <i>Nano Materials Science</i> , 2023, 5, 1-14.	3.9	15
60	Rational design of mixed ionic-electronic conducting membranes for oxygen transport. <i>Chemosphere</i> , 2022, 305, 135483.	4.2	15
61	Insights into MXenes-based electrocatalysts for oxygen reduction. <i>Energy</i> , 2022, 255, 124465.	4.5	15
62	Effects of AlB ₂ /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.	3.9	13
63	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.	0.9	13
64	Investigation of perovskite BaCe _{1-x} Mn _x O _{3-δ} for methane combustion. <i>Ceramics International</i> , 2021, 47, 8762-8768.	2.3	13
65	Numerical simulation of liquid jet atomization in subsonic crossflow. <i>Energy</i> , 2022, 257, 124676.	4.5	13
66	Arsenite (III) removal via manganese-decoration on cellulose nanocrystal-grafted polyethyleneimine nanocomposite. <i>Chemosphere</i> , 2022, 303, 134925.	4.2	12
67	A novel heterogeneous dual-phase membrane for oxygen separation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018, 13, e2239.	0.8	11
68	Enhancing Segregation Behavior of Impurity by Electromagnetic Stirring in the Solidification Process of Al-30Si Alloy. <i>Metals</i> , 2020, 10, 155.	1.0	11
69	Vanadium Metaphosphate V(PO ₃) ₃ Derived from V-MOF as a Novel Anode for Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2021, 6, 8150-8157.	0.7	11
70	Nitrogen-Doped Porous Ag-C@Co ₃ O ₄ Nanocomposite for Boosting Lithium Ion Batteries. <i>Energy & Fuels</i> , 2022, 36, 2861-2871.	2.5	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.	6.6	10
72	Cobalt-doped TaOCl ₃ nanoparticles/carbon compounds with advanced specific capacity for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 897, 163193.	2.8	10

#	ARTICLE	IF	CITATIONS
73	Novel SrCo _{0.9} W _{0.1} O ₃ Hollow Fiber Ceramic Membrane with Enhanced Oxygen Delivery Performance and CO ₂ Resistance Ability. ChemistrySelect, 2018, 3, 13700-13704.	0.7	9
74	Novel La _{0.7} Sr _{0.3} FeO ₃ /(La _{0.5} Sr _{0.5}) ₂ CoO ₄ + λ composite hollow fiber membrane for O ₂ separation with high CO ₂ resistance. International Journal of Energy Research, 2019, 43, 8890-8897.	2.2	9
75	Controlling Segregation Behavior of Primary Si in Hypereutectic Al-Si Alloy by Electromagnetic Stirring. Metals, 2020, 10, 1129.	1.0	9
76	Thermal Analysis and Energy Efficiency Improvements in Tunnel Kiln for Sustainable Environment. Processes, 2021, 9, 1629.	1.3	6
77	Insight into Steam Permeation through Perovskite Membrane via Transient Modeling. Membranes, 2020, 10, 164.	1.4	5
78	Facile preparation of visible light-sensitive layered g-C ₃ N ₄ for photocatalytic removal of organic pollutants. Chemosphere, 2022, 307, 135718.	4.2	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.	5.9	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.	0.2	1