

Rong Lan

List of Publications by Year in descending order

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56
papers

4,921
citations

159358

30
h-index

149479

56
g-index

59
all docs

59
docs citations

59
times ranked

5015
citing authors

#	ARTICLE	IF	CITATIONS
1	(Digital Presentation) Fabrication and Electrochemical Characterization of Inkjet Printed IrO ₂ Electrodes for Water Electrolysis. ECS Meeting Abstracts, 2022, MA2022-01, 2512-2512.	0.0	0
2	Development and Recent Progress on Ammonia Synthesis Catalysts for Haber-Bosch Process. Advanced Energy and Sustainability Research, 2021, 2, 2000043.	2.8	188
3	Cation doped cerium oxynitride with anion vacancies for Fe-based catalyst with improved activity and oxygenate tolerance for efficient synthesis of ammonia. Applied Catalysis B: Environmental, 2021, 285, 119843.	10.8	25
4	Recent development of perovskite oxide-based electrocatalysts and their applications in low to intermediate temperature electrochemical devices. Materials Today, 2021, 49, 351-377.	8.3	91
5	Improved stability and activity of Fe-based catalysts through strong metal support interactions due to extrinsic oxygen vacancies in Ce _{0.8} Sm _{0.2} O ₂ for the efficient synthesis of ammonia. Journal of Materials Chemistry A, 2020, 8, 16676-16689.	5.2	30
6	Perchlorate Based Oversaturated Gel Electrolyte for an Aqueous Rechargeable Hybrid Zn-Li Battery. ACS Applied Energy Materials, 2020, 3, 2526-2536.	2.5	31
7	Investigation of perovskite oxide SrFe _{0.8} Co _{0.2} O ₃ as a Cathode Material for Room Temperature Direct Ammonia Fuel Cells. International Journal of Hydrogen Energy, 2019, 44, 26554-26564.	3.6	19
8	Investigation of Perovskite Oxide SrCo _{0.8} Cu _{0.1} Nb _{0.1} O ₃ as a Cathode Material for Room Temperature Direct Ammonia Fuel Cells. ChemSusChem, 2019, 12, 2788-2794.	3.6	19
9	Preparation of nanoporous nickel copper sulfide on carbon cloth for high-performance hybrid supercapacitors. Electrochimica Acta, 2018, 273, 170-180.	2.6	45
10	Electrodeposited NiCu bimetal on carbon paper as stable non-noble anode for efficient electrooxidation of ammonia. Applied Catalysis B: Environmental, 2018, 237, 1101-1109.	10.8	130
11	Advances in reforming and partial oxidation of hydrocarbons for hydrogen production and fuel cell applications. Renewable and Sustainable Energy Reviews, 2018, 82, 761-780.	8.2	307
12	Promotion effect of proton-conducting oxide BaZr _{0.1} Ce _{0.7} Y _{0.2} O ₃ on the catalytic activity of Ni towards ammonia synthesis from hydrogen and nitrogen. International Journal of Hydrogen Energy, 2018, 43, 17726-17736.	3.8	32
13	Conductivity and redox stability of new perovskite oxides SrFe _{0.7} Ti _{0.2} Mn _{0.1} O ₃ (TM = Mn, Fe, Co, Ni). Tj ETQq1 1.0.784314 rgBT / O _{1.3}	1.3	4
14	Synthesis of Li ₂ Ni ₂ (MoO ₄) ₃ as a high-performance positive electrode for asymmetric supercapacitors. RSC Advances, 2017, 7, 13304-13311.	1.7	28
15	Highly active Ni-Fe double hydroxides as anode catalysts for electrooxidation of urea. New Journal of Chemistry, 2017, 41, 4190-4196.	1.4	79
16	Progress in inorganic cathode catalysts for electrochemical conversion of carbon dioxide into formate or formic acid. Journal of Applied Electrochemistry, 2017, 47, 661-678.	1.5	75
17	Synthesis of NiMoS ₄ for High-Performance Hybrid Supercapacitors. Journal of the Electrochemical Society, 2017, 164, A2881-A2888.	1.3	55
18	Directly growing hierarchical nickel-copper hydroxide nanowires on carbon fibre cloth for efficient electrooxidation of ammonia. Applied Catalysis B: Environmental, 2017, 218, 470-479.	10.8	122

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19	Electrochemical synthesis of ammonia from wet nitrogen via a dual-chamber reactor using La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} -Ce _{0.8} Gd _{0.18} Ca _{0.02} O _{2-δ} composite cathode. <i>Catalysis Today</i> , 2017, 286, 51-56.	2.2	37
20	Achieving Both High Selectivity and Current Density for CO ₂ Reduction to Formate on Nanoporous Tin Foam Electrocatalysts. <i>ChemistrySelect</i> , 2016, 1, 1711-1715.	0.7	38
21	A simple high-performance matrix-free biomass molten carbonate fuel cell without CO ₂ recirculation. <i>Science Advances</i> , 2016, 2, e1600772.	4.7	21
22	Preparation of a hybrid Cu ₂ O/CuMoO ₄ nanosheet electrode for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17749-17756.	5.2	71
23	A perovskite oxide with high conductivities in both air and reducing atmosphere for use as electrode for solid oxide fuel cells. <i>Scientific Reports</i> , 2016, 6, 31839.	1.6	41
24	Conductivity and redox stability of new double perovskite oxide Sr _{1.6} K _{0.4} Fe _{1+x} Mo _{1-x} O ₆ (x=0.2, 0.4). <i>Journal of Materials Chemistry B</i> , 2015, 3, 1179-1185.	1.7	12
25	Conductivity and redox stability of perovskite oxide SrFe _{1-x} Ti _x O _{3-δ} (x=0.3). <i>Solid State Sciences</i> , 2015, 46, 62-70.	1.5	30
26	High Ionic Conductivity in a LiFeO ₂ /LiAlO ₂ Composite Under H ₂ /Air Fuel Cell Conditions. <i>Chemistry - A European Journal</i> , 2015, 21, 1350-1358.	1.7	28
27	Synthesis of ammonia directly from wet nitrogen using a redox stable La _{0.75} Sr _{0.25} Cr _{0.5} Fe _{0.5} O _{3-δ} -Ce _{0.8} Gd _{0.18} Ca _{0.02} O _{2-δ} composite cathode. <i>RSC Advances</i> , 2015, 5, 38977-38983.		
28	Synthesis of ammonia directly from wet air using Sm _{0.6} Ba _{0.4} Fe _{0.8} Cu _{0.2} O _{3-δ} as the catalyst. <i>Faraday Discussions</i> , 2015, 182, 353-363.	1.6	19
29	Electrochemical Synthesis of Ammonia Based on Co ₃ Mo ₃ N Catalyst and LiAlO ₂ -(Li,Na,K)2CO ₃ Composite Electrolyte. <i>Electrocatalysis</i> , 2015, 6, 286-294.	1.5	37
30	Electrochemical Synthesis of Ammonia Directly from Wet N ₂ Using La _{0.6} Sr _{0.4} Fe _{0.8} Cu _{0.2} O _{3-δ} -Ce _{0.8} Gd _{0.18} Ca _{0.02} O _{2-δ} Composite Catalyst. <i>Journal of the Electrochemical Society</i> , 2014, 161, H350-H354.	1.3	20
31	New Layered Proton-Conducting Oxides Li _x Al _{0.6} Co _{0.4} O ₂ and Li _x Al _{0.7} Co _{0.3} O ₂ . <i>ChemElectroChem</i> , 2014, 1, 2098-2103.	1.7	11
32	Electrochemical synthesis of ammonia from N ₂ and H ₂ O based on (Li,Na,K)2CO ₃ -Ce _{0.8} Gd _{0.18} Ca _{0.02} O _{2-δ} composite electrolyte and CoFe ₂ O ₄ cathode. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4322-4330.	3.8	52
33	Novel Proton Conductors in the Layered Oxide Material Li _x Al _{0.5} Co _{0.5} O ₂ . <i>Advanced Energy Materials</i> , 2014, 4, 1301683.	10.2	95
34	Synthesis of ammonia directly from wet air at intermediate temperature. <i>Applied Catalysis B: Environmental</i> , 2014, 152-153, 212-217.	10.8	91
35	Electrochemical synthesis of ammonia from wet nitrogen using La _{0.6} Sr _{0.4} FeO _{3-δ} -Ce _{0.8} Gd _{0.18} Ca _{0.02} O _{2-δ} composite cathode. <i>RSC Advances</i> , 2014, 4, 18749-18754.	1.7	22
36	Preparation of dense La _{0.5} Sr _{0.5} Fe _{0.8} Cu _{0.2} O _{3-δ} -(Li,Na)2CO ₃ -LiAlO ₂ composite membrane for CO ₂ separation. <i>Journal of Membrane Science</i> , 2014, 468, 380-388.	4.1	25

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37	Synthesis of ammonia directly from wet air using new perovskite oxide $\text{La}_{0.8}\text{Cs}_{0.2}\text{Fe}_{0.8}\text{Ni}_{0.2}\text{O}_{3-\delta}$ as catalyst. <i>Electrochimica Acta</i> , 2014, 123, 582-587.	2.6	45
38	Electrochemical synthesis of ammonia directly from air and water using a $\text{Li}^+/\text{H}^+/\text{NH}_4^+$ mixed conducting electrolyte. <i>RSC Advances</i> , 2013, 3, 18016.	1.7	105
39	Synthesis of ammonia directly from air and water at ambient temperature and pressure. <i>Scientific Reports</i> , 2013, 3, 1145.	1.6	339
40	Ammonia and related chemicals as potential indirect hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 1482-1494.	3.8	852
41	Structure, conductivity and redox reversibility of Ca-doped cerium metavanadate. <i>Journal of Materials Chemistry</i> , 2011, 21, 8854.	6.7	18
42	Novel redox reversible oxide, Sr-doped cerium orthovanadate to metavanadate. <i>Journal of Materials Chemistry</i> , 2011, 21, 525-531.	6.7	26
43	Conductivity and stability of cobalt pyrovanadate. <i>Journal of Alloys and Compounds</i> , 2011, 509, 4117-4121.	2.8	11
44	Electrochemical synthesis of ammonia based on doped-ceria-carbonate composite electrolyte and perovskite cathode. <i>Solid State Ionics</i> , 2011, 201, 94-100.	1.3	89
45	Study on conductivity and redox stability of iron orthovanadate. <i>Materials Chemistry and Physics</i> , 2011, 126, 614-618.	2.0	17
46	Structure, conductivity and redox stability of solid solution $\text{Ce}_{1-x}\text{Ca}_x\text{VO}_4$ ($0 \leq x \leq 0.4125$). <i>Journal of Materials Science</i> , 2011, 46, 316-326.	1.7	16
47	Solid-state electrochemical synthesis of ammonia: a review. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 1845-1860.	1.2	271
48	Recent Progress in the Development of Anode Materials for Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2011, 1, 314-332.	10.2	319
49	A stable intermediate temperature fuel cell based on doped-ceria-carbonate composite electrolyte and perovskite cathode. <i>Electrochemistry Communications</i> , 2011, 13, 582-585.	2.3	45
50	Electrochemical synthesis of ammonia based on a carbonate-oxide composite electrolyte. <i>Solid State Ionics</i> , 2011, 182, 133-138.	1.3	84
51	Durability study of an intermediate temperature fuel cell based on an oxide-carbonate composite electrolyte. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6934-6940.	3.8	46
52	Cost-effective solid oxide fuel cell prepared by single step co-press-firing process with lithiated NiO cathode. <i>Electrochemistry Communications</i> , 2010, 12, 1589-1592.	2.3	27
53	A direct urea fuel cell – power from fertiliser and waste. <i>Energy and Environmental Science</i> , 2010, 3, 438.	15.6	335
54	Direct Ammonia Alkaline Anion-Exchange Membrane Fuel Cells. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, B83.	2.2	139

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55	Stability and conductivity study of NH ₄ PO ₃ â€“PTFE composites at intermediate temperatures. Journal of Alloys and Compounds, 2009, 480, 874-877.	2.8	9
56	Ammonia as a Suitable Fuel for Fuel Cells. Frontiers in Energy Research, 0, 2, .	1.2	163