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	Ammonia and related chemicals as potential indirect hydrogen storage materials. International Journal of Hydrogen Energy, 2012, 37, 1482-1494.	3.8	852
2	Synthesis of ammonia directly from air and water at ambient temperature and pressure. Scientific Reports, 2013, 3, 1145.	1.6	339
3	A direct urea fuel cell â€“ power from fertiliser and waste. Energy and Environmental Science, 2010, 3, 438.	15.6	335
4	Recent Progress in the Development of Anode Materials for Solid Oxide Fuel Cells. Advanced Energy Materials, 2011, 1, 314-332.	10.2	319
5	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
6	Solid-state electrochemical synthesis of ammonia: a review. Journal of Solid State Electrochemistry, 2011, 15, 1845-1860.	1.2	271
7	Development and Recent Progress on Ammonia Synthesis Catalysts for Haberâ€“Bosch Process. Advanced Energy and Sustainability Research, 2021, 2, 2000043.	2.8	188
8	Ammonia as a Suitable Fuel for Fuel Cells. Frontiers in Energy Research, 0, 2, .	1.2	163
9	Direct Ammonia Alkaline Anion-Exchange Membrane Fuel Cells. Electrochemical and Solid-State Letters, 2010, 13, B83.	2.2	139
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	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
12	Electrochemical synthesis of ammonia directly from air and water using a Li+/H+/NH4+ mixed conducting electrolyte. RSC Advances, 2013, 3, 18016.	1.7	105
13	Novel Proton Conductors in the Layered Oxide Material Li_xlAl_{0.5}Co_{0.5}O₂. Advanced Energy Materials, 2014, 4, 1301683.	10.2	95
14	Synthesis of ammonia directly from wet air at intermediate temperature. Applied Catalysis B: Environmental, 2014, 152-153, 212-217.	10.8	91
15	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
16	Electrochemical synthesis of ammonia based on doped-ceria-carbonate composite electrolyte and perovskite cathode. Solid State Ionics, 2011, 201, 94-100.	1.3	89
17	Electrochemical synthesis of ammonia based on a carbonate-oxide composite electrolyte. Solid State Ionics, 2011, 182, 133-138.	1.3	84
18	Highly active Niâ€“Fe double hydroxides as anode catalysts for electrooxidation of urea. New Journal of Chemistry, 2017, 41, 4190-4196.	1.4	79

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19	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
20	Preparation of a hybrid Cu₂O/CuMoO₄ nanosheet electrode for high-performance asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 17749-17756.	5.2	71
21	Synthesis of NiMoS₄for High-Performance Hybrid Supercapacitors. Journal of the Electrochemical Society, 2017, 164, A2881-A2888.	1.3	55
22	Electrochemical synthesis of ammonia from N2 and H2O based on (Li,Na,K)2CO3â€“Ce0.8Gd0.18Ca0.02O2â^Î´ composite electrolyte and CoFe2O4 cathode. International Journal of Hydrogen Energy, 2014, 39, 4322-4330.	3.8	52
23	Durability study of an intermediate temperature fuel cell based on an oxideâ€“carbonate composite electrolyte. International Journal of Hydrogen Energy, 2010, 35, 6934-6940.	3.8	46
24	A stable intermediate temperature fuel cell based on doped-ceriaâ€“carbonate composite electrolyte and perovskite cathode. Electrochemistry Communications, 2011, 13, 582-585.	2.3	45
25	Synthesis of ammonia directly from wet air using new perovskite oxide La0.8Cs0.2Fe0.8Ni0.2O3-Î´ as catalyst. Electrochimica Acta, 2014, 123, 582-587.	2.6	45
26	Preparation of nanoporous nickel copper sulfide on carbon cloth for high-performance hybrid supercapacitors. Electrochimica Acta, 2018, 273, 170-180.	2.6	45
27	A perovskite oxide with high conductivities in both air and reducing atmosphere for use as electrode for solid oxide fuel cells. Scientific Reports, 2016, 6, 31839.	1.6	41
28	Achieving Both High Selectivity and Current Density for CO₂ Reduction to Formate on Nanoporous Tin Foam Electrocatalysts. ChemistrySelect, 2016, 1, 1711-1715.	0.7	38
29	Electrochemical Synthesis of Ammonia Based on Co3Mo3N Catalyst and LiAlO2â€“(Li,Na,K)2CO3 Composite Electrolyte. Electrocatalysis, 2015, 6, 286-294.	1.5	37
30	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 3â^' Î´ -Ce 0.8 Gd 0.18 Ca 0.02 O 2â^Î´ composite cathode. Catalysis Today, 2017, 286, 51-56.	2.2	37
31	Promotion effect of proton-conducting oxide BaZr0.1Ce0.7Y0.2O3â^Î´ 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
32	Perchlorate Based â€œOversaturated Gel Electrolyteâ€•for an Aqueous Rechargeable Hybrid Znâ€“Li Battery. ACS Applied Energy Materials, 2020, 3, 2526-2536.	2.5	31
33	Conductivity and redox stability of perovskite oxide SrFe1-xTixO3-Î´ (xÂâ‰Â0.3). Solid State Sciences, 2015, 46, 62-70.	1.5	30
34	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_{2â^Î´} for the efficient synthesis of ammonia. Journal of Materials Chemistry A, 2020, 8, 16676-16689.	5.2	30
35	Synthesis of ammonia directly from wet nitrogen using a redox stable La_{0.75}Sr_{0.25}Cr_{0.5}Fe_{0.5}O_{3â^Î´}â€“Ce_{0.8}Gd_{0.18} cathode. RSC Advances, 2015, 5, 38977-38983.	3.9	30
36	High Ionic Conductivity in a LiFeO₂â€“LiAlO₂ Composite Under H₂/Air Fuel Cell Conditions. Chemistry - A European Journal, 2015, 21, 1350-1358.	1.7	28

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37	Synthesis of Li₂Ni₂(MoO₄)₃ as a high-performance positive electrode for asymmetric supercapacitors. RSC Advances, 2017, 7, 13304-13311.	1.7	28
38	Cost-effective solid oxide fuel cell prepared by single step co-press-firing process with lithiated NiO cathode. Electrochemistry Communications, 2010, 12, 1589-1592.	2.3	27
39	Novel redox reversible oxide, Sr-doped cerium orthovanadate to metavanadate. Journal of Materials Chemistry, 2011, 21, 525-531.	6.7	26
40	Preparation of dense La0.5Sr0.5Fe0.8Cu0.2O3â^'Î´â€“(Li,Na)2CO3â€“LiAlO2 composite membrane for CO2 separation. Journal of Membrane Science, 2014, 468, 380-388.	4.1	25
41	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
42	Electrochemical synthesis of ammonia from wet nitrogen using La0.6Sr0.4FeO3â^'Î´â€“Ce0.8Gd0.18Ca0.02O2â^'Î´ composite cathode. RSC Advances, 2014, 4, 18749-18754.	1.7	22
43	A simple high-performance matrix-free biomass molten carbonate fuel cell without CO ₂ recirculation. Science Advances, 2016, 2, e1600772.	4.7	21
44	Electrochemical Synthesis of Ammonia Directly from Wet N2Using La0.6Sr0.4Fe0.8Cu0.2O3-Î´-Ce0.8Gd0.18Ca0.02O2-Î´Composite Catalyst. Journal of the Electrochemical Society, 2014, 161, H350-H354.	1.3	20
45	Synthesis of ammonia directly from wet air using Sm_{0.6}Ba_{0.4}Fe_{0.8}Cu_{0.2}O_{3â^'Î´} as the catalyst. Faraday Discussions, 2015, 182, 353-363.	1.6	19
46	Investigation of Perovskite Oxide SrCo 0.8 Cu 0.1 Nb 0.1 O 3â€“ Î´ as a Cathode Material for Room Temperature Direct Ammonia Fuel Cells. ChemSusChem, 2019, 12, 2788-2794.	3.6	19
47	Structure, conductivity and redox reversibility of Ca-doped cerium metavanadate. Journal of Materials Chemistry, 2011, 21, 8854.	6.7	18
48	Study on conductivity and redox stability of iron orthovanadate. Materials Chemistry and Physics, 2011, 126, 614-618.	2.0	17
49	Structure, conductivity and redox stability of solid solution Ce1â^'x Ca x VO4 (0Ââ‰ÂxÂâ‰Â0.4125). Journal of Materials Science, 2011, 46, 316-326.	1.7	16
50	Conductivity and redox stability of new double perovskite oxide Sr1.6K0.4Fe1+x Mo1â^'x O6â^'Î´ (xÂ=Â0.2, 0.4,) Tj ETQq0 0 0 rgBT /Over	1.7	12
51	Investigation of perovskite oxide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrFe</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.8</mml:mn> International Journal of Hydrogen Energy, 2019, 44, 26554-26564.	3.8	12
52	Conductivity and stability of cobalt pyrovanadate. Journal of Alloys and Compounds, 2011, 509, 4117-4121.	2.8	11
53	New Layered Protonâ€Conducting Oxides Li_xAl_{0.6}Co_{0.4}O₂ and Li_xAl_{0.7}Co_{0.3}O₂. ChemElectroChem, 2014, 1, 2098-2103.	1.7	11
54	Stability and conductivity study of NH4PO3â€“PTFE composites at intermediate temperatures. Journal of Alloys and Compounds, 2009, 480, 874-877.	2.8	9

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55	Conductivity and redox stability of new perovskite oxides SrFe0.7TM0.2Ti0.1O3-Î´ (TM = Mn, Fe, Co, Ni,) Tj ETQq1 1 0.784314 rgBT /Ove	1.3	9
56	(Digital Presentation) Fabrication and Electrochemical Characterization of Inkjet Printed IrO₂ Electrodes for Water Electrolysis. ECS Meeting Abstracts, 2022, MA2022-01, 2512-2512.	0.0	0