Lili Cai

List of Publications by Year
in descending order

18	347	840776 11	839539 18
papers	citations	h-index	g-index

18	18	18	265
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	H₂S-tolerant oxygen-permeable ceramic membranes for hydrogen separation with a performance comparable to those of palladium-based membranes. Energy and Environmental Science, 2017, 10, 101-106.	30.8	53
2	Improving oxygen permeation of MIEC membrane reactor by enhancing the electronic conductivity under intermediate-low oxygen partial pressures. Journal of Membrane Science, 2016, 520, 607-615.	8.2	47
3	Detrimental phase evolution triggered by Ni in perovskite-type cathodes for CO2 electroreduction. Journal of Energy Chemistry, 2019, 36, 87-94.	12.9	38
4	Structure and electrochemical properties of cobalt-free perovskite cathode materials for intermediate-temperature solid oxide fuel cells. Electrochimica Acta, 2018, 279, 224-230.	5.2	33
5	Dualâ€phase membrane reactor for hydrogen separation with high tolerance to CO₂ and H₂S impurities. AICHE Journal, 2019, 65, 1088-1096.	3.6	31
6	Effect of Ru and Ni nanocatalysts on water splitting and hydrogen oxidation reactions in oxygen-permeable membrane reactors. Journal of Membrane Science, 2020, 599, 117702.	8.2	22
7	Iron stabilized 1/3 A-site deficient Laâ€“Tiâ€“O perovskite cathodes for efficient CO₂ electroreduction. Journal of Materials Chemistry A, 2020, 8, 21053-21061.	10.3	22
8	<scp>Highâ€performance</scp> oxygen transport membrane reactors integrated with IGCC for carbon capture. AICHE Journal, 2020, 66, e16427.	3.6	22
9	Non-noble metal catalysts coated on oxygen-permeable membrane reactors for hydrogen separation. Journal of Membrane Science, 2020, 594, 117463.	8.2	21
10	Platinum Group Metal Catalyst (RuO_x, PtO_x, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td Solar Thermochemical CO₂ Splitting. ACS Catalysis, 2022, 12, 7719-7736.	11.2	16
11	A highâ€efficiency novel <scp>IGCCâ€OTM</scp> carbon capture power plant design. Journal of Advanced Manufacturing and Processing, 2020, 2, .	2.4	11
12	Improved hydrogen separation performance of asymmetric oxygen transport membranes by grooving in the porous support layer. Green Chemical Engineering, 2021, 2, 96-103.	6.3	7
13	Universally applicable kinetic model for mixed ionic-electronic conducting membranes. Chemical Engineering Science, 2020, 215, 115455.	3.8	6
14	Effects of catalysts on water decomposition and hydrogen oxidation reactions in oxygen transport membrane reactors. Journal of Membrane Science, 2021, 634, 119394.	8.2	6
15	A permeation model study of oxygen transport kinetics of Ba x Sr 1â€x Co 0 . 8 Fe 0 . 2 O 3 â€ŕ. AICHE Journal, 2020, 66, e16291.	3.6	5
16	Effect of inner strain on the performance of dual-phase oxygen permeable membranes. Journal of Membrane Science, 2022, 644, 120142.	8.2	5
17	Recent Progress on Mixed Conducting Oxygen Transport Membrane Reactors for Water Splitting Reaction. Acta Chimica Sinica, 2021, 79, 588.	1.4	1
18	Effect of Phase Ratio on Hydrogen Separation ofÂDualâ€phase Membrane Reactors. Chemie-Ingenieur-Technik, 2022, 94, 145-151.	0.8	1