

Xiao-Yu Wu

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

512
citations

759233

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839539

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24
all docs

24
docs citations

24
times ranked

557
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed ionic-electronic conducting (MIEC) membranes for thermochemical reduction of CO ₂ : A review. <i>Progress in Energy and Combustion Science</i> , 2019, 74, 1-30.	31.2	67
2	Exergy analysis of an integrated solid oxide electrolysis cell-methanation reactor for renewable energy storage. <i>Applied Energy</i> , 2018, 215, 371-383.	10.1	66
3	Falling water film evaporation on newly-designed enhanced tube bundles. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 2990-2997.	4.8	63
4	Direct ammonia synthesis from the air via gliding arc plasma integrated with single atom electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120667.	20.2	55
5	Heat transfer characteristics of falling film evaporation on horizontal tube arrays. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 1986-1993.	4.8	48
6	Enhancing CO ₂ production of H ₂ and syngas via water splitting and POM on surface-modified oxygen permeable membranes. <i>AIChE Journal</i> , 2016, 62, 4427-4435.	3.6	35
7	Toward enhanced hydrogen generation from water using oxygen permeating LCF membranes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10093-10107.	2.8	30
8	Experimental study on heat transfer of aviation kerosene in a vertical upward tube at supercritical pressures. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 425-434.	3.5	26
9	Hydrogen-assisted Carbon Dioxide Thermochemical Reduction on La _{0.9} Ca _{0.1} FeO _{3-δ} Membranes: A Kinetics Study. <i>ChemSusChem</i> , 2018, 11, 483-493.	6.8	23
10	High-performance oxygen transport membrane reactors integrated with IGCC for carbon capture. <i>AIChE Journal</i> , 2020, 66, e16427.	3.6	22
11	CeO ₂ -promotion of NiAl ₂ O ₄ reduction via CeAlO ₃ formation for efficient methane reforming. <i>Journal of the Energy Institute</i> , 2020, 93, 991-999.	5.3	15
12	Electrified ammonia production as a commodity and energy storage medium to connect the food, energy, and trade sectors. <i>IScience</i> , 2022, 25, 104724.	4.1	13
13	A high-efficiency novel IGCC-OTM carbon capture power plant design. <i>Journal of Advanced Manufacturing and Processing</i> , 2020, 2, .	2.4	11
14	Hydrogen economy transition plan: A case study on Ontario. <i>AIMS Energy</i> , 2021, 9, 775-811.	1.9	11
15	CO ₂ reduction and methane partial oxidation on surface catalyzed La _{0.9} Ca _{0.1} FeO _{3-δ} oxygen transport membranes. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 5517-5524.	3.9	9
16	Experimental study on heat transfer of nanofluids in a vertical tube at supercritical pressures. <i>International Communications in Heat and Mass Transfer</i> , 2015, 63, 54-61.	5.6	6
17	Falling Film Evaporation of Water on Horizontal Configured Tube Bundles. , 2010, , .		4
18	Editorial: Sustainable Hydrogen for Energy, Fuel and Commodity Applications. <i>Frontiers in Energy Research</i> , 2021, 9, .	2.3	4

#	ARTICLE	IF	CITATIONS
19	Exergy Efficiency Analysis of a Power-to-Methane System Coupling Water Electrolysis and Sabatier Reaction. ECS Transactions, 2017, 78, 2965-2973.	0.5	3
20	Falling Water Film Evaporation on Horizontal Finned Tube Arrays at Low Pressure. , 2011, , .		1
21	Experimental Study on Heat Transfer of Fuel-Particle Mixtures in a Vertical Tube at Supercritical Pressure. , 2013, , .		0
22	Unique identities. Science, 2019, 364, 22-24.	12.6	0
23	Funding fix: Spend time. Science, 2020, 370, 30-31.	12.6	0
24	Rules all PIs should follow. Science, 2022, 376, 24-26.	12.6	0