

Nicholas AuYeung

List of Publications by Year in descending order

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29
papers

526
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687363

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docs citations

31
times ranked

521
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation into SrO/SrCO ₃ for high temperature thermochemical energy storage. <i>Solar Energy</i> , 2018, 160, 85-93.	6.1	72
2	Solar Thermochemical Energy Storage Through Carbonation Cycles of SrCO ₃ /SrO Supported on SrZrO ₃ . <i>ChemSusChem</i> , 2015, 8, 3793-3798.	6.8	58
3	Lattice Boltzmann method for conjugate heat and mass transfer with interfacial jump conditions. <i>International Journal of Heat and Mass Transfer</i> , 2015, 88, 306-322.	4.8	52
4	Magnesium-manganese oxides for high temperature thermochemical energy storage. <i>Journal of Energy Storage</i> , 2019, 21, 599-610.	8.1	50
5	Cobalt Ferrite in YSZ for Use as Reactive Material in Solar Thermochemical Water and Carbon Dioxide Splitting, Part I: Material Characterization. <i>Jom</i> , 2013, 65, 1670-1681.	1.9	27
6	Al ₂ O ₃ coated LiCoO ₂ as cathode for high-capacity and long-cycling Li-ion batteries. <i>Chinese Chemical Letters</i> , 2018, 29, 1768-1772.	9.0	27
7	A transient heat transfer model for high temperature solar thermochemical reactors. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 2307-2325.	7.1	25
8	Thermal Reduction of Iron Oxide under Reduced Pressure and Implications on Thermal Conversion Efficiency for Solar Thermochemical Fuel Production. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 6793-6803.	3.7	22
9	Energy storage based on SrCO ₃ and Sorbents – A probabilistic analysis towards realizing solar thermochemical power plants. <i>Renewable Energy</i> , 2019, 133, 770-786.	8.9	19
10	Rare-earth and precious-metal free Cu-based metallic glasses with superior glass-forming ability and processability. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	17
11	Magnesioferrites for solar thermochemical fuel production. <i>Solar Energy</i> , 2018, 163, 1-15.	6.1	16
12	Thermochemical reduction modeling in a high-temperature moving-bed reactor for energy storage: 1D model. <i>Applied Energy</i> , 2022, 306, 118009.	10.1	16
13	A continuum model for heat and mass transfer in moving-bed reactors for thermochemical energy storage. <i>Applied Energy</i> , 2022, 313, 118842.	10.1	15
14	Cobalt Ferrite in YSZ for Use as Reactive Material in Solar Thermochemical Water and Carbon Dioxide Splitting, Part II: Kinetic Modeling. <i>Jom</i> , 2013, 65, 1682-1693.	1.9	13
15	An in-depth investigation of BaO ₂ /BaO redox oxides for reversible solar thermochemical energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2021, 223, 110957.	6.2	13
16	Hafnium based metallic glasses with high density and high glass-forming ability. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160896.	5.5	13
17	Steam reformation of hydrogen sulfide. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6304-6313.	7.1	9
18	Effects of tangential-type boundary condition discontinuities on the accuracy of the lattice Boltzmann method for heat and mass transfer. <i>Physical Review E</i> , 2016, 94, 023307.	2.1	9

#	ARTICLE	IF	CITATIONS
19	Thermochemical heat recuperation for compressed air energy storage. <i>Energy Conversion and Management</i> , 2021, 250, 114889.	9.2	9
20	Effects of Dopant Metal Variation and Material Synthesis Method on the Material Properties of Mixed Metal Ferrites in Yttria Stabilized Zirconia for Solar Thermochemical Fuel Production. <i>International Journal of Photoenergy</i> , 2015, 2015, 1-10.	2.5	7
21	Non-catalytic ethane cracking using concentrated solar energy. <i>Chemical Engineering Journal</i> , 2019, 355, 58-64.	12.7	7
22	Experimental modeling of hydrogen producing steps in a novel sulfur-sulfur thermochemical water splitting cycle. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2484-2492.	7.1	6
23	Methane Coupling to Ethylene and Longer-Chain Hydrocarbons by Low-Energy Electrical Discharge in Microstructured Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6950-6958.	3.7	6
24	Reactive Phase Change Materials for Enhanced Thermal Energy Storage. <i>Energy Technology</i> , 2018, 6, 351-356.	3.8	5
25	CO ₂ Reduction by Multiple Low-Energy Electric Discharges in a Microstructured Reactor: Experiments and Modeling. <i>Industrial & Engineering Chemistry Research</i> , 0, , .	3.7	4
26	Controlled dehumidification to extract clean water from a multicomponent gaseous mixture of organic contaminants. <i>Journal of Water Process Engineering</i> , 2021, 43, 102229.	5.6	3
27	Dry Reforming in a Milli-Scale Reactor Driven by Simulated Sunlight. <i>ChemEngineering</i> , 2018, 2, 50.	2.4	2
28	Parametric Study of Hydrocarbon Chain Growth from Methane via a Nonthermal Plasma Discharge Microreactor. <i>Industrial & Engineering Chemistry Research</i> , 0, , .	3.7	2
29	Development of a small-scale solar thermochemical energy storage system. , 2017, , .		0