

Luke J Venstrom

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

867
citations

759233

12
h-index

752698

20
g-index

28
all docs

28
docs citations

28
times ranked

645
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic Analysis of Isothermal Redox Cycling of Ceria for Solar Fuel Production. <i>Energy & Fuels</i> , 2013, 27, 5533-5544.	5.1	187
2	Control of Heterogeneity in Nanostructured Ce _{1-x} Zr _x O ₂ Binary Oxides for Enhanced Thermal Stability and Water Splitting Activity. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21022-21033.	3.1	127
3	Efficient Splitting of CO ₂ in an Isothermal Redox Cycle Based on Ceria. <i>Energy & Fuels</i> , 2014, 28, 2732-2742.	5.1	112
4	The Effects of Morphology on the Oxidation of Ceria by Water and Carbon Dioxide. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2012, 134, .	1.8	82
5	Enhanced Oxidation Kinetics in Thermochemical Cycling of CeO ₂ through Templated Porosity. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1692-1700.	3.1	72
6	Design of a Solar Reactor to Split CO ₂ Via Isothermal Redox Cycling of Ceria. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2015, 137, .	1.8	52
7	Ceria-based electrospun fibers for renewable fuel production via two-step thermal redox cycles for carbon dioxide splitting. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14271-14280.	2.8	46
8	Two-step thermochemical electrolysis: An approach for green hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24909-24918.	7.1	41
9	Applicability of an Equilibrium Model To Predict the Conversion of CO ₂ to CO via the Reduction and Oxidation of a Fixed Bed of Cerium Dioxide. <i>Energy & Fuels</i> , 2015, 29, 8168-8177.	5.1	29
10	Study of a Quench Device for the Synthesis and Hydrolysis of Zn Nanoparticles: Modeling and Experiments. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2009, 131, .	1.8	27
11	Splitting Water and Carbon Dioxide via the Heterogeneous Oxidation of Zinc Vapor: Thermodynamic Considerations. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2011, 133, .	1.8	20
12	The kinetics of the heterogeneous oxidation of zinc vapor by carbon dioxide. <i>Chemical Engineering Science</i> , 2013, 93, 163-172.	3.8	17
13	A parameter estimation method for stiff ordinary differential equations using particle swarm optimisation. <i>International Journal of Computing Science and Mathematics</i> , 2018, 9, 419.	0.3	11
14	Technical and economic evaluation of a solar thermal MgO electrolysis process for magnesium production. <i>Energy</i> , 2017, 135, 182-194.	8.8	10
15	The thermal electrolytic production of Mg from MgO: A discussion of the electrochemical reaction kinetics and requisite mass transport processes. <i>Chemical Engineering Science</i> , 2016, 148, 155-169.	3.8	8
16	Model of the solar-driven reduction of cobalt oxide in a particle suspension reactor. <i>Solar Energy</i> , 2019, 177, 713-723.	6.1	5
17	Heliostat Attitude Control Strategy in the Solar Energy Research Facility of Valparaiso University. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2019, 141, .	1.8	4
18	The Oxidation of Macroporous Cerium and Cerium-Zirconium Oxide for the Solar Thermochemical Production of Fuels. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
19	Heterogeneous oxidation of zinc vapor by steam and mixtures of steam and carbon dioxide. Chemical Engineering Science, 2018, 183, 223-230.	3.8	3
20	Solar thermal decoupled water electrolysis process III: The anodic electrochemical reaction in a rotating disc electrode cell. Chemical Engineering Science, 2020, 227, 115885.	3.8	3
21	Splitting Water and Carbon Dioxide via the Heterogeneous Oxidation of Zinc Vapor: Thermodynamic Considerations. , 2010, , .		2
22	A High-Flux Solar Furnace for Undergraduate Engineering Education and High-Temperature Thermochemistry Research. , 2014, , .		2
23	A parameter estimation method for stiff ordinary differential equations using particle swarm optimisation. International Journal of Computing Science and Mathematics, 2018, 9, 419.	0.3	2
24	A Discussion of the Measurement of Zn to ZnO Conversion in Aerosol Reactors. , 2009, , .		1
25	Rapid Production of Hydrogen and Carbon Monoxide via the Heterogeneous Oxidation of Zn(g). , 2012, , .		1
26	High Temperature Measurements for Simulated Solar Thermal Reduction of Metal Oxides. ECS Meeting Abstracts, 2013, , .	0.0	0
27	Pyrheliometer Control Design for the Solar Energy Research Facility at Valparaiso University. , 2020, , .		0
28	Measurement of the Natural Convection Heat Transfer in a Magnesium Oxide Electrolytic Cell Concept. Journal of Thermal Science and Engineering Applications, 2020, 12, .	1.5	0