

# 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	Two-step thermochemical electrolysis: An approach for green hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 24909-24918.	7.1	41
2	Pyrheliometer Control Design for the Solar Energy Research Facility at Valparaiso University. , 2020, , .		0
3	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
4	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
5	Heliostat Attitude Control Strategy in the Solar Energy Research Facility of Valparaiso University. Journal of Solar Energy Engineering, Transactions of the ASME, 2019, 141, .	1.8	4
6	Model of the solar-driven reduction of cobalt oxide in a particle suspension reactor. Solar Energy, 2019, 177, 713-723.	6.1	5
7	Heterogeneous oxidation of zinc vapor by steam and mixtures of steam and carbon dioxide. Chemical Engineering Science, 2018, 183, 223-230.	3.8	3
8	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	11
9	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
10	Technical and economic evaluation of a solar thermal MgO electrolysis process for magnesium production. Energy, 2017, 135, 182-194.	8.8	10
11	The thermal electrolytic production of Mg from MgO: A discussion of the electrochemical reaction kinetics and requisite mass transport processes. Chemical Engineering Science, 2016, 148, 155-169.	3.8	8
12	Design of a Solar Reactor to Split CO <sub>2</sub> Via Isothermal Redox Cycling of Ceria. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.8	52
13	Applicability of an Equilibrium Model To Predict the Conversion of CO <sub>2</sub> to CO via the Reduction and Oxidation of a Fixed Bed of Cerium Dioxide. Energy & Fuels, 2015, 29, 8168-8177.	5.1	29
14	A High-Flux Solar Furnace for Undergraduate Engineering Education and High-Temperature Thermochemistry Research. , 2014, , .		2
15	Ceria-based electrospun fibers for renewable fuel production via two-step thermal redox cycles for carbon dioxide splitting. Physical Chemistry Chemical Physics, 2014, 16, 14271-14280.	2.8	46
16	Efficient Splitting of CO <sub>2</sub> in an Isothermal Redox Cycle Based on Ceria. Energy & Fuels, 2014, 28, 2732-2742.	5.1	112
17	Enhanced Oxidation Kinetics in Thermochemical Cycling of CeO <sub>2</sub> through Templated Porosity. Journal of Physical Chemistry C, 2013, 117, 1692-1700.	3.1	72
18	The kinetics of the heterogeneous oxidation of zinc vapor by carbon dioxide. Chemical Engineering Science, 2013, 93, 163-172.	3.8	17

#	ARTICLE	IF	CITATIONS
19	Thermodynamic Analysis of Isothermal Redox Cycling of Ceria for Solar Fuel Production. Energy & Fuels, 2013, 27, 5533-5544.	5.1	187
20	High Temperature Measurements for Simulated Solar Thermal Reduction of Metal Oxides. ECS Meeting Abstracts, 2013, , .	0.0	0
21	The Effects of Morphology on the Oxidation of Ceria by Water and Carbon Dioxide. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, .	1.8	82
22	Rapid Production of Hydrogen and Carbon Monoxide via the Heterogeneous Oxidation of Zn(g). , 2012, , .		1
23	Control of Heterogeneity in Nanostructured Ce <sub>1-x</sub> Zr <sub>x</sub> O <sub>2</sub> Binary Oxides for Enhanced Thermal Stability and Water Splitting Activity. Journal of Physical Chemistry C, 2011, 115, 21022-21033.	3.1	127
24	The Oxidation of Macroporous Cerium and Cerium-Zirconium Oxide for the Solar Thermochemical Production of Fuels. , 2011, , .		3
25	Splitting Water and Carbon Dioxide via the Heterogeneous Oxidation of Zinc Vapor: Thermodynamic Considerations. Journal of Solar Energy Engineering, Transactions of the ASME, 2011, 133, .	1.8	20
26	Splitting Water and Carbon Dioxide via the Heterogeneous Oxidation of Zinc Vapor: Thermodynamic Considerations. , 2010, , .		2
27	Study of a Quench Device for the Synthesis and Hydrolysis of Zn Nanoparticles: Modeling and Experiments. Journal of Solar Energy Engineering, Transactions of the ASME, 2009, 131, .	1.8	27
28	A Discussion of the Measurement of Zn to ZnO Conversion in Aerosol Reactors. , 2009, , .		1