

Timothy C Davenport

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

640
citations

933447

10
h-index

1058476

14
g-index

14
all docs

14
docs citations

14
times ranked

861
citing authors

#	ARTICLE	IF	CITATIONS
1	Protonic ceramic electrochemical cells for hydrogen production and electricity generation: exceptional reversibility, stability, and demonstrated faradaic efficiency. <i>Energy and Environmental Science</i> , 2019, 12, 206-215.	30.8	257
2	Dipolar truncation in magic-angle spinning NMR recoupling experiments. <i>Journal of Chemical Physics</i> , 2009, 130, 114506.	3.0	162
3	Maximizing fuel production rates in isothermal solar thermochemical fuel production. <i>Applied Energy</i> , 2016, 183, 1098-1111.	10.1	35
4	Interplay of material thermodynamics and surface reaction rate on the kinetics of thermochemical hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16932-16945.	7.1	33
5	Extreme high temperature redox kinetics in ceria: exploration of the transition from gas-phase to material-kinetic limitations. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21554-21561.	2.8	26
6	Impact of enhanced oxide reducibility on rates of solar-driven thermochemical fuel production. <i>MRS Communications</i> , 2017, 7, 873-878.	1.8	26
7	Bulk Properties of the Oxygen Reduction Catalyst $\text{SrCo}_{0.9}\text{Nb}_{0.1}\text{O}_{3-\delta}$. <i>Chemistry of Materials</i> , 2016, 28, 2599-2608.	6.7	24
8	Implications of Exceptional Material Kinetics on Thermochemical Fuel Production Rates. <i>Energy Technology</i> , 2016, 4, 764-770.	3.8	23
9	Gas-phase vs. material-kinetic limits on the redox response of nonstoichiometric oxides. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7420-7430.	2.8	18
10	A piezomicrobalance system for high-temperature mass relaxation characterization of metal oxides: A case study of Pr-doped ceria. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1161-1171.	3.8	12
11	Rapid and controlled electrochemical synthesis of crystalline niobium oxide microcones. <i>MRS Communications</i> , 2015, 5, 495-501.	1.8	9
12	Hydrolysis of 3-carboxy-6,8-difluoro-7-hydroxycoumarin (Pacific Blue [®] , [†]) succinimidyl ester under acidic and basic conditions. <i>Dyes and Pigments</i> , 2013, 96, 148-151.	3.7	7
13	Experimental protocols for the assessment of redox thermodynamics of nonstoichiometric oxides: A case study of $\text{YMnO}_{3-\delta}$. <i>Journal of the American Ceramic Society</i> , 2022, 105, 4375-4386.	3.8	6
14	High-throughput characterization of Lu-doped zirconia. <i>Solid State Ionics</i> , 2021, 368, 115698.	2.7	2