

Johney B Green Jr

List of Publications by Year in descending order

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47
papers

2,644
citations

257101

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433756

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47
docs citations

47
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Impacts of catalyst nanolayers on water permeation and swelling of polymer electrolyte membranes. <i>Journal of Power Sources</i> , 2020, 448, 227582.	4.0	8
2	Experimental studies on the effects of sheet resistance and wettability of catalyst layer on electro-catalytic activities for oxygen evolution reaction in proton exchange membrane electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26595-26603.	3.8	14
3	Building Electron/Proton Nanohighways for Full Utilization of Water Splitting Catalysts. <i>Advanced Energy Materials</i> , 2020, 10, 1903871.	10.2	38
4	Electrocatalysts: Building Electron/Proton Nanohighways for Full Utilization of Water Splitting Catalysts (<i>Adv. Energy Mater.</i> 16/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070075.	10.2	3
5	Grand challenges in the science of wind energy. <i>Science</i> , 2019, 366, .	6.0	482
6	Performance improvement of proton exchange membrane electrolyzer cells by introducing in-plane transport enhancement layers. <i>Electrochimica Acta</i> , 2019, 316, 43-51.	2.6	56
7	How Much Will Gallium Oxide Power Electronics Cost?. <i>Joule</i> , 2019, 3, 903-907.	11.7	96
8	Attracting and Retaining Top Scientists and Engineers at U.S. National Laboratories and Universities: Listening to the Next Generation. <i>Electrochemical Society Interface</i> , 2019, 28, 34-36.	0.3	0
9	A novel PEMEC with 3D printed non-conductive bipolar plate for low-cost hydrogen production from water electrolysis. <i>Energy Conversion and Management</i> , 2019, 182, 108-116.	4.4	65
10	Fully printed and integrated electrolyzer cells with additive manufacturing for high-efficiency water splitting. <i>Applied Energy</i> , 2018, 215, 202-210.	5.1	69
11	Novel thin/tunable gas diffusion electrodes with ultra-low catalyst loading for hydrogen evolution reactions in proton exchange membrane electrolyzer cells. <i>Nano Energy</i> , 2018, 47, 434-441.	8.2	118
12	Bipolar plate development with additive manufacturing and protective coating for durable and high-efficiency hydrogen production. <i>Journal of Power Sources</i> , 2018, 396, 590-598.	4.0	74
13	Developing titanium micro/nano porous layers on planar thin/tunable LGDLs for high-efficiency hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14618-14628.	3.8	52
14	Additive Manufacturing Integrated Energy—Enabling Innovative Solutions for Buildings of the Future. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2017, 139, .	1.1	36
15	Development of a range-extended electric vehicle powertrain for an integrated energy systems research printed utility vehicle. <i>Applied Energy</i> , 2017, 191, 99-110.	5.1	36
16	Additive manufactured bipolar plate for high-efficiency hydrogen production in proton exchange membrane electrolyzer cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14734-14740.	3.8	67
17	Study on corrosion migrations within catalyst-coated membranes of proton exchange membrane electrolyzer cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27343-27349.	3.8	24
18	In situ investigation on ultrafast oxygen evolution reactions of water splitting in proton exchange membrane electrolyzer cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18469-18475.	5.2	87

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19	Thin film surface modifications of thin/tunable liquid/gas diffusion layers for high-efficiency proton exchange membrane electrolyzer cells. Applied Energy, 2017, 206, 983-990.	5.1	58
20	Investigation of thin/well-tunable liquid/gas diffusion layers exhibiting superior multifunctional performance in low-temperature electrolytic water splitting. Energy and Environmental Science, 2017, 10, 166-175.	15.6	154
21	Overview of the Oak Ridge National Laboratory Advanced Manufacturing Integrated Energy Demonstration Project: Case Study of Additive Manufacturing as a Tool to Enable Rapid Innovation in Integrated Energy Systems. , 2016, , .		3
22	Thin liquid/gas diffusion layers for high-efficiency hydrogen production from water splitting. Applied Energy, 2016, 177, 817-822.	5.1	101
23	Discovery of true electrochemical reactions for ultrahigh catalyst mass activity in water splitting. Science Advances, 2016, 2, e1600690.	4.7	161
24	Additive manufacturing of liquid/gas diffusion layers for low-cost and high-efficiency hydrogen production. International Journal of Hydrogen Energy, 2016, 41, 3128-3135.	3.8	79
25	Invited Review: A review of deterministic effects in cyclic variability of internal combustion engines. International Journal of Engine Research, 2015, 16, 366-378.	1.4	74
26	Electrochemical investigation of stainless steel corrosion in a proton exchange membrane electrolyzer cell. International Journal of Hydrogen Energy, 2015, 40, 12506-12511.	3.8	54
27	Well-to-wheel analysis of direct and indirect use of natural gas in passenger vehicles. Energy, 2014, 75, 194-203.	4.5	67
28	Application of High Performance Computing for Simulating the Unstable Dynamics of Dilute Spark-Ignited Combustion. Understanding Complex Systems, 2014, , 259-270.	0.3	4
29	Using a phenomenological computer model to investigate advanced combustion trajectories in a CIDI engine. Fuel, 2011, 90, 1907-1918.	3.4	18
30	Modeling Cyclic Variability in Spark-Assisted HCCI. Journal of Engineering for Gas Turbines and Power, 2008, 130, .	0.5	40
31	Understanding the transition between conventional spark-ignited combustion and HCCI in a gasoline engine. Proceedings of the Combustion Institute, 2007, 31, 2887-2894.	2.4	74
32	Modeling Cyclic Variability in Spark-Assisted HCCI. , 2007, , .		10
33	In-Cylinder Regeneration of Lean NOx Trap Catalysts Using Low Temperature Combustion. , 2006, , .		11
34	Intra-fuel cell stack measurements of transient concentration distributions. Journal of Power Sources, 2006, 160, 454-461.	4.0	22
35	Microwave-Regenerated Diesel Exhaust Particulate Filter. , 2001, , .		12
36	Synchronization of combustion variations in a multicylinder spark ignition engine. Proceedings of the Combustion Institute, 2000, 28, 1249-1255.	2.4	13

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37	A Simple Model for Cyclic Variations in a Spark-Ignition Engine. , 0, , .		78
38	Symbolic Time-Series Analysis of Engine Combustion Measurements. , 0, , .		40
39	Time Irreversibility and Comparison of Cyclic-Variability Models. , 0, , .		23
40	Experimental Evaluation of SI Engine Operation Supplemented by Hydrogen Rich Gas from a Compact Plasma Boosted Reformer. , 0, , .		17
41	Low-Order Map Approximations of Lean Cyclic Dispersion in Premixed Spark Ignition Engines. , 0, , .		13
42	Controlling Cyclic Combustion Variations in Lean-Fueled Spark-Ignition Engines. , 0, , .		12
43	Simultaneous Low Engine-Out NOx and Particulate Matter with Highly Diluted Diesel Combustion. , 0, , .		66
44	A Hybrid 2-Zone/WAVE Engine Combustion Model for Simulating Combustion Instabilities During Dilute Operation. , 0, , .		7
45	On the Nature of Cyclic Dispersion in Spark Assisted HCCI Combustion. , 0, , .		45
46	Analysis of Cyclic Variability of Heat Release for High-EGR GDI Engine Operation with Observations on Implications for Effective Control. SAE International Journal of Engines, 0, 6, 132-141.	0.4	35
47	Big Area Additive Manufacturing and Hardware-in-the-Loop for Rapid Vehicle Powertrain Prototyping: A Case Study on the Development of a 3-D-Printed Shelby Cobra. , 0, , .		28