

Johney B Green Jr

List of Publications by Year in descending order

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47
papers

2,644
citations

257101

24
h-index

433756

31
g-index

47
all docs

47
docs citations

47
times ranked

2033
citing authors

#	ARTICLE	IF	CITATIONS
1	Grand challenges in the science of wind energy. <i>Science</i> , 2019, 366, .	6.0	482
2	Discovery of true electrochemical reactions for ultrahigh catalyst mass activity in water splitting. <i>Science Advances</i> , 2016, 2, e1600690.	4.7	161
3	Investigation of thin/well-tunable liquid/gas diffusion layers exhibiting superior multifunctional performance in low-temperature electrolytic water splitting. <i>Energy and Environmental Science</i> , 2017, 10, 166-175.	15.6	154
4	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
5	Thin liquid/gas diffusion layers for high-efficiency hydrogen production from water splitting. <i>Applied Energy</i> , 2016, 177, 817-822.	5.1	101
6	How Much Will Gallium Oxide Power Electronics Cost?. <i>Joule</i> , 2019, 3, 903-907.	11.7	96
7	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
8	Additive manufacturing of liquid/gas diffusion layers for low-cost and high-efficiency hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3128-3135.	3.8	79
9	A Simple Model for Cyclic Variations in a Spark-Ignition Engine. , 0, , .		78
10	Understanding the transition between conventional spark-ignited combustion and HCCI in a gasoline engine. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 2887-2894.	2.4	74
11	Invited Review: A review of deterministic effects in cyclic variability of internal combustion engines. <i>International Journal of Engine Research</i> , 2015, 16, 366-378.	1.4	74
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	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
14	Well-to-wheel analysis of direct and indirect use of natural gas in passenger vehicles. <i>Energy</i> , 2014, 75, 194-203.	4.5	67
15	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
16	Simultaneous Low Engine-Out NOx and Particulate Matter with Highly Diluted Diesel Combustion. , 0, , .		66
17	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
18	Thin film surface modifications of thin/tunable liquid/gas diffusion layers for high-efficiency proton exchange membrane electrolyzer cells. <i>Applied Energy</i> , 2017, 206, 983-990.	5.1	58

#	ARTICLE	IF	CITATIONS
19	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
20	Electrochemical investigation of stainless steel corrosion in a proton exchange membrane electrolyzer cell. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12506-12511.	3.8	54
21	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
22	On the Nature of Cyclic Dispersion in Spark Assisted HCCI Combustion. , 0, , .		45
23	Symbolic Time-Series Analysis of Engine Combustion Measurements. , 0, , .		40
24	Modeling Cyclic Variability in Spark-Assisted HCCI. <i>Journal of Engineering for Gas Turbines and Power</i> , 2008, 130, .	0.5	40
25	Building Electron/Proton Nanohighways for Full Utilization of Water Splitting Catalysts. <i>Advanced Energy Materials</i> , 2020, 10, 1903871.	10.2	38
26	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
27	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
28	Analysis of Cyclic Variability of Heat Release for High-EGR GDI Engine Operation with Observations on Implications for Effective Control. <i>SAE International Journal of Engines</i> , 0, 6, 132-141.	0.4	35
29	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
30	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
31	Time Irreversibility and Comparison of Cyclic-Variability Models. , 0, , .		23
32	Intra-fuel cell stack measurements of transient concentration distributions. <i>Journal of Power Sources</i> , 2006, 160, 454-461.	4.0	22
33	Using a phenomenological computer model to investigate advanced combustion trajectories in a CIDI engine. <i>Fuel</i> , 2011, 90, 1907-1918.	3.4	18
34	Experimental Evaluation of SI Engine Operation Supplemented by Hydrogen Rich Gas from a Compact Plasma Boosted Reformer. , 0, , .		17
35	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
36	Synchronization of combustion variations in a multicylinder spark ignition engine. <i>Proceedings of the Combustion Institute</i> , 2000, 28, 1249-1255.	2.4	13

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37	Low-Order Map Approximations of Lean Cyclic Dispersion in Premixed Spark Ignition Engines. , 0, , .		13
38	Microwave-Regenerated Diesel Exhaust Particulate Filter. , 2001, , .		12
39	Controlling Cyclic Combustion Variations in Lean-Fueled Spark-Ignition Engines. , 0, , .		12
40	In-Cylinder Regeneration of Lean NOx Trap Catalysts Using Low Temperature Combustion. , 2006, , .		11
41	Modeling Cyclic Variability in Spark-Assisted HCCI. , 2007, , .		10
42	Impacts of catalyst nanolayers on water permeation and swelling of polymer electrolyte membranes. Journal of Power Sources, 2020, 448, 227582.	4.0	8
43	A Hybrid 2-Zone/WAVE Engine Combustion Model for Simulating Combustion Instabilities During Dilute Operation. , 0, , .		7
44	Application of High Performance Computing for Simulating the Unstable Dynamics of Dilute Spark-Ignited Combustion. Understanding Complex Systems, 2014, , 259-270.	0.3	4
45	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
46	Electrocatalysts: Building Electron/Proton Nanohighways for Full Utilization of Water Splitting Catalysts (Adv. Energy Mater. 16/2020). Advanced Energy Materials, 2020, 10, 2070075.	10.2	3
47	Attracting and Retaining Top Scientists and Engineers at U.S. National Laboratories and Universities: Listening to the Next Generation. Electrochemical Society Interface, 2019, 28, 34-36.	0.3	0