

Zhiming Bao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3149380/publications.pdf>

Version: 2024-02-01

16
papers

1,836
citations

566801

15
h-index

940134

16
g-index

16
all docs

16
docs citations

16
times ranked

734
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid transport in gas diffusion layer of proton exchange membrane fuel cells: Effects of micro-porous layer cracks. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 6247-6258.	3.8	21
2	Open-source CFD Elucidating Mechanism of 3D Pillar Electrode in Improving All-solid-state Battery Performance. <i>Advanced Science</i> , 2022, 9, e2105454.	5.6	6
3	Three-dimensional multi-phase simulation of PEM fuel cell considering the full morphology of metal foam flow field. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 2978-2989.	3.8	86
4	Designing the next generation of proton-exchange membrane fuel cells. <i>Nature</i> , 2021, 595, 361-369.	13.7	1,012
5	Transport properties of gas diffusion layer of proton exchange membrane fuel cells: Effects of compression. <i>International Journal of Heat and Mass Transfer</i> , 2021, 178, 121608.	2.5	33
6	A 3-D multiphase model of proton exchange membrane electrolyzer based on open-source CFD. <i>Digital Chemical Engineering</i> , 2021, 1, 100004.	1.2	15
7	Liquid droplet detachment and dispersion in metal foam flow field of polymer electrolyte membrane fuel cell. <i>Journal of Power Sources</i> , 2020, 480, 229150.	4.0	34
8	Gas distribution and droplet removal of metal foam flow field for proton exchange membrane fuel cells. <i>Applied Energy</i> , 2020, 280, 116011.	5.1	20
9	Effects of surface wettability on two-phase flow in the compressed gas diffusion layer microstructures. <i>International Journal of Heat and Mass Transfer</i> , 2020, 151, 119370.	2.5	37
10	Analysis of single- and two-phase flow characteristics of 3-D fine mesh flow field of proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2019, 438, 226995.	4.0	77
11	Two-phase flow in compressed gas diffusion layer: Finite element and volume of fluid modeling. <i>Journal of Power Sources</i> , 2019, 437, 226933.	4.0	49
12	Two-phase flow and oxygen transport in the perforated gas diffusion layer of proton exchange membrane fuel cell. <i>International Journal of Heat and Mass Transfer</i> , 2019, 139, 58-68.	2.5	59
13	Numerical simulation for metal foam two-phase flow field of proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6229-6244.	3.8	72
14	Multi-phase simulation of proton exchange membrane fuel cell with 3D fine mesh flow field. <i>International Journal of Energy Research</i> , 2018, 42, 4697-4709.	2.2	158
15	Two-phase flow in the mixed-wettability gas diffusion layer of proton exchange membrane fuel cells. <i>Applied Energy</i> , 2018, 232, 443-450.	5.1	87
16	Numerical investigation of innovative 3D cathode flow channel in proton exchange membrane fuel cell. <i>International Journal of Energy Research</i> , 2018, 42, 3328-3338.	2.2	70