

# 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  | Designing the next generation of proton-exchange membrane fuel cells. <i>Nature</i> , 2021, 595, 361-369.  | 13.7 | 1,012     |
| 2  | 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       |
| 3  | 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        |
| 4  | 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        |
| 5  | 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        |
| 6  | 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        |
| 7  | 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        |
| 8  | 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        |
| 9  | 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        |
| 10 | 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        |
| 11 | 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        |
| 12 | 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        |
| 13 | 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        |
| 14 | 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        |
| 15 | 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        |
| 16 | Open-source CFD Elucidating Mechanism of 3D Pillar Electrode in Improving All-solid-state Battery Performance. <i>Advanced Science</i> , 2022, 9, e21105454.                                 | 5.6  | 6         |