Martin MÃ¼ller

List of Publications by Year
in descending order

27 papers	914 citations	567281 15 h-index	501196 28 g-index
31 all docs	31 docs citations	31 times ranked	1193 citing authors

#	Article	IF	Citations
1	The investment costs of electrolysis â€“ A comparison of cost studies from the past 30 years. International Journal of Hydrogen Energy, 2018, 43, 1209-1223.	7.1	305
2	Validation and characterization of suitable materials for bipolar plates in PEM water electrolysis. International Journal of Hydrogen Energy, 2015, 40, 11385-11391.	7.1	78
3	In-situ two-phase flow investigation of different porous transport layer for a polymer electrolyte membrane (PEM) electrolyzer with neutron spectroscopy. Journal of Power Sources, 2018, 390, 108-115.	7.8	71
4	Dealloyed PtNi-Coreâ€“Shell Nanocatalysts Enable Significant Lowering of Pt Electrode Content in Direct Methanol Fuel Cells. ACS Catalysis, 2019, 9, 3764-3772.	11.2	66
5	PEM water electrolysis: Innovative approaches towards catalyst separation, recovery and recycling. International Journal of Hydrogen Energy, 2019, 44, 3450-3455.	7.1	54
6	Exploring the Interface of Skinâ€Layered Titanium Fibers for Electrochemical Water Splitting. Advanced Energy Materials, 2021, 11, 2002926.	19.5	48
7	Reduction of methanol crossover in a flowing electrolyte-direct methanol fuel cell. International Journal of Hydrogen Energy, 2017, 42, 21530-21545.	7.1	32
8	Manufacturing of Largeâ€Scale Titaniumâ€Based Porous Transport Layers for Polymer Electrolyte Membrane Electrolysis by Tape Casting. Advanced Engineering Materials, 2019, 21, 1801201.	3.5	30
9	Direct methanol fuel cell systems for backup power â€“ Influence of the standby procedure on the lifetime. International Journal of Hydrogen Energy, 2014, 39, 21739-21745.	7.1	27
10	Impact of clamping pressure and stress relaxation on the performance of different polymer electrolyte membrane water electrolysis cell designs. International Journal of Hydrogen Energy, 2019, 44, 23556-23567.	7.1	27
11	Semiempirical thermodynamic modeling of a direct methanol fuel cell system. International Journal of Energy Research, 2019, 43, 3601-3615.	4.5	19
12	Simulation of a hybrid vehicle powertrain having direct methanol fuel cell system through a semi-theoretical approach. International Journal of Hydrogen Energy, 2019, 44, 18981-18992.	7.1	19
13	Comparison of single-cell testing, short-stack testing and mathematical modeling methods for a direct methanol fuel cell. International Journal of Hydrogen Energy, 2021, 46, 4844-4856.	7.1	19
14	Experimental and numerical study of flow in expanded metal plate for water electrolysis applications. Journal of Power Sources, 2018, 397, 334-342.	7.8	17
15	Influence of Stoichiometry on the Two-Phase Flow Behavior of Proton Exchange Membrane Electrolyzers. Energies, 2019, 12, 350.	3.1	16
16	Challenges and important considerations when benchmarking single-cell alkaline electrolyzers. International Journal of Hydrogen Energy, 2022, 47, 4294-4303.	7.1	14
17	The impact of flow field plate misalignment on the gas diffusion layer intrusion and performance of a high-temperature polymer electrolyte fuel cell. Journal of Power Sources, 2021, 501, 230036.	7.8	13
18	Characteristics of a New Polymer Electrolyte Electrolysis Technique with Only Cathodic Media Supply Coupled to a Photovoltaic Panel. Energies, 2019, 12, 4150.	3.1	9

#	Article	IF	Citations
19	A robust methanol concentration sensing technique in direct methanol fuel cells and stacks using cell dynamics. International Journal of Hydrogen Energy, 2022, 47, 6237-6246.	7.1	9
20	Longâ€Term Operation of Nbâ€Coated Stainless Steel Bipolar Plates for Proton Exchange Membrane Water Electrolyzers. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	8
21	Slot-Die Coating: A New Preparation Method for Direct Methanol Fuel Cells Catalyst Layers. Journal of Fuel Cell Science and Technology, 2013, 10, .	0.8	6
22	Fabrication of High Performing and Durable Nickel-Based Catalyst Coated Diaphragms for Alkaline Water Electrolyzers. Journal of the Electrochemical Society, 2022, 169, 054502.	2.9	6
23	Non-destructive in-operando investigation of catalyst layer degradation for water electrolyzers using synchrotron radiography. Materials Today Energy, 2020, 16, 100394.	4.7	5
24	Validation of a novel method for detecting and stabilizing malfunctioning areas in fuel cell stacks. Journal of Power Sources, 2014, 272, 225-232.	7.8	2
25	An analysis of the imperfections and defects inside composite bipolar plates using X-Ray computer tomography and resistivity simulations. International Journal of Hydrogen Energy, 2021, 46, 25677-25688.	7.1	2
26	A Holistic Consideration of Megawatt Electrolysis as a Key Component of Sector Coupling. Energies, 2022, 15, 3656.	3.1	2
27	Design and Modeling of Metallic Bipolar Plates for a Fuel Cell Range Extender. Energies, 2021, 14, 5484.	3.1	1