Michel Suermann

List of Publications by Year
in descending order

16	1,075	687220 13	940416 16
papers	citations	h-index	g-index

16	16	16	910
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energetic Evaluation and Optimization of Hydrogen Generation and Compression Pathways Considering PEM Water Electrolyzers and Electrochemical Hydrogen Compressors. Journal of the Electrochemical Society, 2021, 168, 014504.	1.3	8
2	Is iridium demand a potential bottleneck in the realization of large-scale PEM water electrolysis?. International Journal of Hydrogen Energy, 2021, 46, 23581-23590.	3.8	153
3	Femtosecond laser-induced surface structuring of the porous transport layers in proton exchange membrane water electrolysis. Journal of Materials Chemistry A, 2020, 8, 4898-4910.	5.2	24
4	Modeling Overpotentials Related to Mass Transport Through Porous Transport Layers of PEM Water Electrolysis Cells. Journal of the Electrochemical Society, 2020, 167, 114511.	1.3	31
5	OrtsaufgelÃ¶ste Stromdichtemessung in PEMâ€Elektrolyseâ€Zellen. Chemie-Ingenieur-Technik, 2019, 91, 907-918.	0.4	4
6	Degradation of Proton Exchange Membrane (PEM) Water Electrolysis Cells: Looking Beyond the Cell Voltage Increase. Journal of the Electrochemical Society, 2019, 166, F645-F652.	1.3	50
7	Understanding Electrical Under- and Overshoots in Proton Exchange Membrane Water Electrolysis Cells. Journal of the Electrochemical Society, 2019, 166, F1200-F1208.	1.3	9
8	Optimization of anodic porous transport electrodes for proton exchange membrane water electrolyzers. Journal of Materials Chemistry A, 2019, 7, 26984-26995.	5.2	51
9	Local Current Density and Electrochemical Impedance Measurements within 50 cm Single-Channel PEM Electrolysis Cell. Journal of the Electrochemical Society, 2018, 165, F1292-F1299.	1.3	39
10	Comparing the kinetic activation energy of the oxygen evolution and reduction reactions. Electrochimica Acta, 2018, 281, 466-471.	2.6	50
11	Critical Reviewâ€"Identifying Critical Gaps for Polymer Electrolyte Water Electrolysis Development. Journal of the Electrochemical Society, 2017, 164, F387-F399.	1.3	347
12	High pressure polymer electrolyte water electrolysis: Test bench development and electrochemical analysis. International Journal of Hydrogen Energy, 2017, 42, 12076-12086.	3.8	56
13	Electrochemical Hydrogen Compression: Efficient Pressurization Concept Derived from an Energetic Evaluation. Journal of the Electrochemical Society, 2017, 164, F1187-F1195.	1.3	53
14	Influence of Operating Conditions and Material Properties on the Mass Transport Losses of Polymer Electrolyte Water Electrolysis. Journal of the Electrochemical Society, 2017, 164, F973-F980.	1.3	69
15	Cell Performance Determining Parameters in High Pressure Water Electrolysis. Electrochimica Acta, 2016, 211, 989-997.	2.6	83
16	Investigation of Mass Transport Losses in Polymer Electrolyte Electrolysis Cells. ECS Transactions, 2015, 69, 1141-1148.	0.3	48