Caroline Willich

List of Publications by Year
in descending order

22 papers	250 citations	1163117 8 h-index	996975 15 g-index
22 all docs	22 docs citations	22 times ranked	234 citing authors

#	Article	IF	Citations
1	Spatial Distribution of Electrochemical Performance in a Segmented SOFC: AÂCombined Modeling and Experimental Study. Fuel Cells, 2010, 10, 411-418.	2.4	50
2	Theoretical study on pressurized operation of solid oxide electrolysis cells. International Journal of Hydrogen Energy, 2014, 39, 12434-12439.	7.1	39
3	Power management control and delivery module for a hybrid electric aircraft using fuel cell and battery. Energy Conversion and Management, 2021, 244, 114445.	9.2	30
4	Effect of pressure variation on power density and efficiency of solid oxide fuel cells. Electrochimica Acta, 2012, 66, 158-163.	5.2	29
5	Influence of pressure losses on compressor performance in a pressurized fuel cell air supply system for airplane applications. International Journal of Hydrogen Energy, 2021, 46, 21151-21159.	7.1	22
6	An investigation of heat transfer losses in reciprocating devices. Applied Thermal Engineering, 2017, 111, 903-913.	6.0	18
7	Pressurized Solid Oxide Fuel Cells with Reformate as Fuel. Journal of the Electrochemical Society, 2012, 159, F711-F716.	2.9	14
8	Spatially Resolved Electrochemical Performance in a Segmented Planar SOFC. ECS Transactions, 2009, 17, 79-87.	0.5	8
9	A Novel Re-configurable LLC Converter for Electric Aircraft. , 2021, , .		8
10	Solid Oxide Fuel Cell â€“ Gas Turbine Hybrid Power Plant. ECS Transactions, 2013, 57, 67-72.	0.5	7
11	Influence of Low Inlet Pressure and Temperature on the Compressor Map Limits of Electrical Turbo Chargers for Airborne Fuel Cell Applications. Energies, 2022, 15, 2896.	3.1	5
12	Operational Aspects for Direct Coupling of Gas Turbine and Solid Oxide Fuel Cells. ECS Transactions, 2015, 68, 79-84.	0.5	4
13	Development of a novel AC hybrid concept for a fuel cell-battery hybrid electric aircraft with power electronics switches. , 2018, , .		4
14	Spatially Resolved Measuring Technique for Solid Oxide Fuel Cells. Journal of Fuel Cell Science and Technology, 2009, 6, .	0.8	3
15	Design and Demonstration of a 540 V/28 V SiC-Based Resonant DCâ€“DC Converter for Auxiliary Power Supply in More Electric Aircraft. Electronics (Switzerland), 2022, 11, 1382.	3.1	3
16	Pressurized Solid Oxide Fuel Cells with Reformate as Fuel. ECS Transactions, 2012, 41, 43-53.	0.5	2
17	Temperature Effect due to Internal Reforming in Pressurized SOFC. Journal of the Electrochemical Society, 2014, 161, F674-F678.	2.9	2
18	High Efficient Energy System for Electric Passenger Aircraft Propulsion. , 2019, , .		1

#	Article	IF	Citations
19	Simulation Model of Lithium Ion Battery Cells for Electrical Aircraft Applications Considering Electrical and Thermal Behavior. ECS Meeting Abstracts, 2021, MA2021-02, 417-417.	0.0	1
20	Theoretical Study on Pressurized Operation of Solid Oxide Electrolysis Cells. ECS Meeting Abstracts, 2012, , .	0.0	0
21	Temperature Effect Due to Internal Reforming in Pressurized SOFC. ECS Transactions, 2013, 57, 401-409.	0.5	0
22	Demonstration of a Novel Alternating Current Hybrid Concept for a Fuel Cellâ€“Battery Hybrid Electric Aircraft. Energies, 2021, 14, 7350.	3.1	0