Andreas BÃ¼chler

List of Publications by Year
in descending order

21 papers	355 citations	840776 11 h-index	794594 19 g-index
21 all docs	21 docs citations	21 times ranked	505 citing authors

#	Article	IF	Citations
1	Cerium Oxide Decorated Polymer Nanofibers as Effective Membrane Reinforcement for Durable, Highâ€Performance Fuel Cells. Advanced Energy Materials, 2017, 7, 1602100.	19.5	56
2	A fully spray-coated fuel cell membrane electrode assembly using Aquivion ionomer with a graphene oxide/cerium oxide interlayer. Journal of Power Sources, 2017, 351, 145-150.	7.8	51
3	Electrospun sulfonated poly(ether ketone) nanofibers as proton conductive reinforcement for durable Nafion composite membranes. Journal of Power Sources, 2017, 361, 237-242.	7.8	41
4	Directly deposited Nafion/TiO₂ composite membranes for high power medium temperature fuel cells. RSC Advances, 2016, 6, 24261-24266.	3.6	39
5	Electrical and Mechanical Properties of Plated Ni/Cu Contacts for Si Solar Cells. Energy Procedia, 2015, 77, 733-743.	1.8	25
6	Enabling the measurement of thermomechanical stress in solar cells and PV modules by confocal micro-Raman spectroscopy. Solar Energy Materials and Solar Cells, 2019, 193, 351-360.	6.2	23
7	Micro characterization of laser structured solar cells with plated Niâ€“Ag contacts. Solar Energy Materials and Solar Cells, 2014, 120, 323-331.	6.2	22
8	Interface oxides in femtosecond laser structured plated Ni-Cu-Ag contacts for silicon solar cells. Solar Energy Materials and Solar Cells, 2017, 166, 197-203.	6.2	22
9	Localization and characterization of annealingâ€induced shunts in Niâ€plated monocrystalline silicon solar cells. Physica Status Solidi - Rapid Research Letters, 2014, 8, 385-389.	2.4	14
10	Thermomechanical stress analysis of PV module production processes by Raman spectroscopy and FEM simulation. Energy Procedia, 2017, 124, 464-469.	1.8	13
11	Easy Platingâ€”A Simple Approach to Suppress Parasitically Metallized Areas in Front Side Ni/Cu Plated Crystalline Si Solar Cells. IEEE Journal of Photovoltaics, 2017, 7, 1270-1277.	2.5	12
12	Enabling stress determination on alkaline textured silicon using Raman spectroscopy. Energy Procedia, 2017, 124, 18-23.	1.8	10
13	Analysis of solar cell cross sections with micro-light beam induced current (ÂµLBIC). Solar Energy Materials and Solar Cells, 2014, 131, 124-128.	6.2	9
14	Optimizing Adhesion of Laser Structured Plated Ni-Cu Contacts with Insights from Micro Characterization. Energy Procedia, 2016, 92, 913-918.	1.8	8
15	Benefits of different process routes for industrial direct front side plating. Energy Procedia, 2017, 124, 823-828.	1.8	4
16	Micro Characterization and Imaging of Spikes in Nickel Plated Solar Cells. Energy Procedia, 2014, 55, 624-632.	1.8	2
17	Advances in PassDop technology: recombination and optics. Energy Procedia, 2017, 124, 313-320.	1.8	1
18	Stress Mapping by Confocal Raman Spectroscopy on Solar Cells and Modules. , 2018, , .		1

#	Article	IF	Citations
19	Optimized Adhesion of Plated Silicon Solar Cell Contacts by F₂â€Based Dry Atmospheric Pressure Nanoâ€Roughening. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800173.	1.8	1
20	Microcharacterization of Interface Oxide Layer on Laser-Structured Silicon Surfaces of Plated Niâ€“Cu Solar Cells. IEEE Journal of Photovoltaics, 2019, 9, 1532-1540.	2.5	1
21	Fuel Cells: Cerium Oxide Decorated Polymer Nanofibers as Effective Membrane Reinforcement for Durable, Highâ€Performance Fuel Cells (Adv. Energy Mater. 6/2017). Advanced Energy Materials, 2017, 7, .	19.5	0