

Andreas BÃ¼chler

List of Publications by Year in descending order

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21
papers

355
citations

840776

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all docs

21
docs citations

21
times ranked

505
citing authors

#	ARTICLE	IF	CITATIONS
1	Microcharacterization of Interface Oxide Layer on Laser-Structured Silicon Surfaces of Plated Ni-Cu Solar Cells. IEEE Journal of Photovoltaics, 2019, 9, 1532-1540.	2.5	1
2	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
3	Stress Mapping by Confocal Raman Spectroscopy on Solar Cells and Modules. , 2018, , .		1
4	Optimized Adhesion of Plated Silicon Solar Cell Contacts by F ₂ -Based Dry Atmospheric Pressure Nano-Roughening. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800173.	1.8	1
5	Cerium Oxide Decorated Polymer Nanofibers as Effective Membrane Reinforcement for Durable, High-Performance Fuel Cells. Advanced Energy Materials, 2017, 7, 1602100.	19.5	56
6	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
7	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
8	Fuel Cells: Cerium Oxide Decorated Polymer Nanofibers as Effective Membrane Reinforcement for Durable, High-Performance Fuel Cells (Adv. Energy Mater. 6/2017). Advanced Energy Materials, 2017, 7, .	19.5	0
9	Thermomechanical stress analysis of PV module production processes by Raman spectroscopy and FEM simulation. Energy Procedia, 2017, 124, 464-469.	1.8	13
10	Advances in PassDop technology: recombination and optics. Energy Procedia, 2017, 124, 313-320.	1.8	1
11	Enabling stress determination on alkaline textured silicon using Raman spectroscopy. Energy Procedia, 2017, 124, 18-23.	1.8	10
12	Benefits of different process routes for industrial direct front side plating. Energy Procedia, 2017, 124, 823-828.	1.8	4
13	Easy Plating—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
14	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
15	Optimizing Adhesion of Laser Structured Plated Ni-Cu Contacts with Insights from Micro Characterization. Energy Procedia, 2016, 92, 913-918.	1.8	8
16	Directly deposited Nafion/TiO ₂ composite membranes for high power medium temperature fuel cells. RSC Advances, 2016, 6, 24261-24266.	3.6	39
17	Electrical and Mechanical Properties of Plated Ni/Cu Contacts for Si Solar Cells. Energy Procedia, 2015, 77, 733-743.	1.8	25
18	Micro Characterization and Imaging of Spikes in Nickel Plated Solar Cells. Energy Procedia, 2014, 55, 624-632.	1.8	2

#	ARTICLE	IF	CITATIONS
19	Micro characterization of laser structured solar cells with plated Ni/Ag contacts. Solar Energy Materials and Solar Cells, 2014, 120, 323-331.	6.2	22
20	Localization and characterization of annealing-induced shunts in Ni-plated monocrystalline silicon solar cells. Physica Status Solidi - Rapid Research Letters, 2014, 8, 385-389.	2.4	14
21	Analysis of solar cell cross sections with micro-light beam induced current (μ LBIC). Solar Energy Materials and Solar Cells, 2014, 131, 124-128.	6.2	9