

# Jonas Bartsch

## List of Publications by Year in descending order

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39  
papers

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citations

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39  
docs citations

39  
times ranked

326  
citing authors

#	ARTICLE	IF	CITATIONS
1	21.8% Efficient n-type Solar Cells with Industrially Feasible Plated Metallization. Energy Procedia, 2014, 55, 400-409.	1.8	29
2	Long term stability of copper front side contacts for crystalline silicon solar cells. Solar Energy Materials and Solar Cells, 2015, 136, 25-31.	6.2	27
3	Nickel-plated Front Contacts for Front and Rear Emitter Silicon Solar Cells. Energy Procedia, 2013, 38, 449-458.	1.8	25
4	Electrical and Mechanical Properties of Plated Ni/Cu Contacts for Si Solar Cells. Energy Procedia, 2015, 77, 733-743.	1.8	25
5	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
6	Laser Transfer and Firing of NiV Seed Layer for the Metallization of Silicon Heterojunction Solar Cells by Cu-Plating. Solar Rrl, 2017, 1, 1700085.	5.8	21
7	Native Oxide Barrier Layer for Selective Electroplated Metallization of Silicon Heterojunction Solar Cells. Solar Rrl, 2019, 3, 1900006.	5.8	20
8	High efficiency n-type PERT and PERL solar cells. , 2014, , .		16
9	Zincate processes for silicon solar cell metallization. Solar Energy Materials and Solar Cells, 2014, 120, 332-338.	6.2	16
10	Novel Plating Processes for Silicon Heterojunction Solar Cell Metallization Using a Structured Seed Layer. IEEE Journal of Photovoltaics, 2017, 7, 1569-1573.	2.5	14
11	Hydrophobic AlO <sub>x</sub> Surfaces by Adsorption of a SAM on Large Areas for Application in Solar Cell Metallization Patterning. ACS Applied Materials & Interfaces, 2021, 13, 5803-5813.	8.0	14
12	Characterization of Copper Diffusion in Silicon Solar Cells. Energy Procedia, 2015, 67, 93-100.	1.8	13
13	Long Term Stability Analysis of Copper Front Side Metallization for Silicon Solar Cells. Energy Procedia, 2014, 55, 478-485.	1.8	12
14	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
15	Novel mask-less plating metallization route for bifacial silicon heterojunction solar cells. AIP Conference Proceedings, 2018, , .	0.4	11
16	Optimizing Adhesion of Laser Structured Plated Ni-Cu Contacts with Insights from Micro Characterization. Energy Procedia, 2016, 92, 913-918.	1.8	8
17	Electroplated Copper Metal Contacts on Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100381.	5.8	8
18	Selective plating concept for silicon heterojunction solar cell metallization. Energy Procedia, 2017, 124, 901-906.	1.8	7

#	ARTICLE	IF	CITATIONS
19	Structuring of Metal Layers by Electrochemical Screen Printing for Back-Contact Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 676-682.	2.5	7
20	Selective seed layer patterning of PVD metal stacks by electrochemical screen printing for solar cell applications. Progress in Photovoltaics: Research and Applications, 2020, 28, 538-544.	8.1	7
21	Plating Processes on Aluminum and Application to Novel Solar Cell Concepts. Energy Procedia, 2014, 55, 679-687.	1.8	5
22	Advances with resist-free copper plating approaches for the metallization of silicon heterojunction solar cells. AIP Conference Proceedings, 2019, , .	0.4	5
23	Establishing the "native oxide barrier layer for selective electroplated" metallization for bifacial silicon heterojunction solar cells. AIP Conference Proceedings, 2019, , .	0.4	5
24	Electrochemical Contact Separation for PVD Aluminum Back Contact Solar Cells. Energy Procedia, 2015, 67, 70-75.	1.8	4
25	Origin of corrosion effects in solar cell contacts during electrochemical nickel deposition. Journal of Applied Electrochemistry, 2015, 45, 95-104.	2.9	4
26	High-Efficiency n-Type Silicon Solar Cells: Advances in PassDop Technology and NiCu Plating on Boron Emitter. IEEE Journal of Photovoltaics, 2016, 6, 419-425.	2.5	4
27	Novel Approach for the Bonding of III-V on Silicon Tandem Solar Cells with a Transparent Conductive Adhesive. , 2018, , .		4
28	Electrical and optical analysis of a spray coated transparent conductive adhesive for two-terminal silicon based tandem solar cells. AIP Conference Proceedings, 2019, , .	0.4	4
29	Thin film GaAs solar cell enabled by direct rear side plating and patterned epitaxial lift-off. , 2021, , .		4
30	Conductive Highly Filled Suspensions for an Electrochemical Dispensing Approach to Pattern Full-Area Thin Metal Layers by Physical Vapour Deposition. Scientific Reports, 2020, 10, 7409.	3.3	3
31	Development and characterization of multifunctional PECVD SiNX:P layers for laser-doped selective emitters. AIP Conference Proceedings, 2018, , .	0.4	2
32	The First Glued Tandem Solar Cell Using a ZnO Based Adhesive. , 2020, , .		2
33	Advances in PassDop technology: recombination and optics. Energy Procedia, 2017, 124, 313-320.	1.8	1
34	Optimized Adhesion of Plated Silicon Solar Cell Contacts by F <sub>2</sub> -Based Dry Atmospheric Pressure Nano-Roughening. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800173.	1.8	1
35	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
36	Application of hydrosilane-free atmospheric pressure chemical vapor deposition of SiOx films in the manufacture of crystalline silicon solar cells. Thin Solid Films, 2020, 713, 138338.	1.8	1

#	ARTICLE	IF	CITATIONS
37	Challenges in the Fabrication of a Glued III-V on Si Tandem Solar Cell Using a ZnO-Based TCA. , 2021, , .		1
38	Low-cost Cu-plated metallization on TCOs for SHJ Solar Cells - Optimization of PVD Contacting-layer. , 2020, , .		1
39	Perovskite Silicon Tandem Solar Cells for Resource Efficient Photovoltaics. , 0, , .		0