

Manuel Schnabel

List of Publications by Year in descending order

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31
papers

1,045
citations

623734

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752698

20
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docs citations

31
times ranked

1454
citing authors

#	ARTICLE	IF	CITATIONS
1	Raising the one-sun conversion efficiency of III-V/Si solar cells to 32.8% for two junctions and 35.9% for three junctions. <i>Nature Energy</i> , 2017, 2, .	39.5	424
2	A Review of Existing and Emerging Methods for Lithium Detection and Characterization in Li-Ion and Li-Metal Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100372.	19.5	114
3	Hydrogen passivation of poly-Si/SiO _x contacts for Si solar cells using Al ₂ O ₃ studied with deuterium. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	80
4	On the hydrogenation of Poly-Si passivating contacts by Al ₂ O ₃ and SiN thin films. <i>Solar Energy Materials and Solar Cells</i> , 2020, 215, 110592.	6.2	53
5	Three-terminal III-V/Si tandem solar cells enabled by a transparent conductive adhesive. <i>Sustainable Energy and Fuels</i> , 2020, 4, 549-558.	4.9	46
6	Nonpassivated Silicon Anode Surface. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26593-26600.	8.0	45
7	Enhanced Interfacial Stability of Si Anodes for Li-Ion Batteries via Surface SiO ₂ Coating. <i>ACS Applied Energy Materials</i> , 2020, 3, 8842-8849.	5.1	38
8	Surface SiO ₂ Thickness Controls Uniform-to-Localized Transition in Lithiation of Silicon Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27017-27028.	8.0	37
9	A Membrane Device for Substrate-Free Photovoltaic Characterization of Quantum Dot Based p-i-n Solar Cells. <i>Advanced Materials</i> , 2012, 24, 3124-3129.	21.0	34
10	Equivalent Performance in Three-Terminal and Four-Terminal Tandem Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1584-1589.	2.5	31
11	Back-contacted bottom cells with three terminals: Maximizing power extraction from current-mismatched tandem cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 410-423.	8.1	31
12	Effect of Water Concentration in LiPF ₆ -Based Electrolytes on the Formation, Evolution, and Properties of the Solid Electrolyte Interphase on Si Anodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49563-49573.	8.0	27
13	Microscopic Observation of Solid Electrolyte Interphase Bilayer Inversion on Silicon Oxide. <i>ACS Energy Letters</i> , 2020, 5, 3657-3662.	17.4	26
14	Transparent Conductive Adhesives for Tandem Solar Cells Using Polymer-Particle Composites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8086-8091.	8.0	25
15	Monolithic Si nanocrystal/crystalline Si tandem cells involving Si nanocrystals in SiC. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 1165-1177.	8.1	6
16	Nanocrystalline SiC formed by annealing of a-SiC:H on Si substrates: A study of dopant interdiffusion. <i>Journal of Applied Physics</i> , 2014, 116, 024315.	2.5	5
17	Structural and optical properties of silicon nanocrystals embedded in silicon carbide: Comparison of single layers and multilayer structures. <i>Applied Surface Science</i> , 2015, 351, 550-557.	6.1	5
18	Transparent Conductive Adhesives for Tandem Solar Cells. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
19	Operating principles of three-terminal solar cells. , 2018, , .		4
20	Stable SEI Formation on Al-Si-Mn Metallic Glass Li-Ion Anode. Journal of the Electrochemical Society, 2021, 168, 100521.	2.9	3
21	Yield analysis and comparison of GaInP/Si and GaInP/GaAs multi-terminal tandem solar cells. AIP Conference Proceedings, 2018, , .	0.4	2
22	III-V/Si Tandem Cells Utilizing Interdigitated Back Contact Si Cells and Varying Terminal Configurations. , 2019, , .		2
23	Formation of silicon nanocrystals in silicon carbide using flash lamp annealing. Journal of Applied Physics, 2016, 120, .	2.5	1
24	III-V/Si tandem cell to module interconnection - comparison between different operation modes. , 2017, , .		1
25	An Isotope Study of Hydrogen Passivation of poly-Si/SiOx Passivated Contacts for Si Solar Cells. , 2017, , .		0
26	HVPE-Grown GaAs//Si Tandem Device Performance. , 2018, , .		0
27	The Decoupling of Solid-Electrolyte Interphase Formation from the Mechanical Deformation of Silicon Electrodes. ECS Meeting Abstracts, 2019, , .	0.0	0
28	Lithiation of Oxidised Silicon. ECS Meeting Abstracts, 2019, , .	0.0	0
29	The Effect of Water Concentration in Carbonate-Based Electrolytes on the Si Anode/Electrolyte Interface. ECS Meeting Abstracts, 2019, , .	0.0	0
30	Stable SEI Formation on Al-Si-Mn Metallic Glass Li-Ion Anode. ECS Meeting Abstracts, 2021, MA2021-02, 1822-1822.	0.0	0
31	Kinetics of Lithium Insertion and Plating on Basal and Edge Planes of Graphite. ECS Meeting Abstracts, 2020, MA2020-02, 543-543.	0.0	0