

# Manuel Schnabel

## List of Publications by Year in descending order

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31  
papers

1,045  
citations

623734

14  
h-index

752698

20  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1454  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Stable SEI Formation on Al-Si-Mn Metallic Glass Li-Ion Anode. <i>Journal of the Electrochemical Society</i> , 2021, 168, 100521.	2.9	3
3	Stable SEI Formation on Al-Si-Mn Metallic Glass Li-Ion Anode. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1822-1822.	0.0	0
4	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
5	Effect of Water Concentration in LiPF <sub>6</sub> -Based Electrolytes on the Formation, Evolution, and Properties of the Solid Electrolyte Interphase on Si Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 49563-49573.	8.0	27
6	Microscopic Observation of Solid Electrolyte Interphase Bilayer Inversion on Silicon Oxide. <i>ACS Energy Letters</i> , 2020, 5, 3657-3662.	17.4	26
7	Enhanced Interfacial Stability of Si Anodes for Li-Ion Batteries via Surface SiO <sub>2</sub> Coating. <i>ACS Applied Energy Materials</i> , 2020, 3, 8842-8849.	5.1	38
8	Surface SiO <sub>2</sub> Thickness Controls Uniform-to-Localized Transition in Lithiation of Silicon Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 27017-27028.	8.0	37
9	Nonpassivated Silicon Anode Surface. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26593-26600.	8.0	45
10	On the hydrogenation of Poly-Si passivating contacts by Al <sub>2</sub> O <sub>3</sub> and SiN thin films. <i>Solar Energy Materials and Solar Cells</i> , 2020, 215, 110592.	6.2	53
11	Kinetics of Lithium Insertion and Plating on Basal and Edge Planes of Graphite. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 543-543.	0.0	0
12	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
13	The Decoupling of Solid-Electrolyte Interphase Formation from the Mechanical Deformation of Silicon Electrodes. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
14	Lithiation of Oxidised Silicon. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
15	The Effect of Water Concentration in Carbonate-Based Electrolytes on the Si Anode/Electrolyte Interface. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
16	III-V/Si Tandem Cells Utilizing Interdigitated Back Contact Si Cells and Varying Terminal Configurations. , 2019, , .		2
17	Transparent Conductive Adhesives for Tandem Solar Cells Using Polymer-Particle Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 8086-8091.	8.0	25
18	HVPE-Grown GaAs/Si Tandem Device Performance. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Operating principles of three-terminal solar cells. , 2018, , .		4
20	Equivalent Performance in Three-Terminal and Four-Terminal Tandem Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 1584-1589.	2.5	31
21	Hydrogen passivation of poly-Si/SiOx contacts for Si solar cells using Al2O3 studied with deuterium. Applied Physics Letters, 2018, 112, .	3.3	80
22	Yield analysis and comparison of GaInP/Si and GaInP/GaAs multi-terminal tandem solar cells. AIP Conference Proceedings, 2018, , .	0.4	2
23	Raising the one-sun conversion efficiency of III-V/Si solar cells to 32.8% for two junctions and 35.9% for three junctions. Nature Energy, 2017, 2, .	39.5	424
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	Transparent Conductive Adhesives for Tandem Solar Cells. , 2017, , .		5
27	Formation of silicon nanocrystals in silicon carbide using flash lamp annealing. Journal of Applied Physics, 2016, 120, .	2.5	1
28	Monolithic Si nanocrystal/crystalline Si tandem cells involving Si nanocrystals in SiC. Progress in Photovoltaics: Research and Applications, 2016, 24, 1165-1177.	8.1	6
29	Structural and optical properties of silicon nanocrystals embedded in silicon carbide: Comparison of single layers and multilayer structures. Applied Surface Science, 2015, 351, 550-557.	6.1	5
30	Nanocrystalline SiC formed by annealing of a-SiC:H on Si substrates: A study of dopant interdiffusion. Journal of Applied Physics, 2014, 116, 024315.	2.5	5
31	A Membrane Device for Substrate-Free Photovoltaic Characterization of Quantum Dot Based p-n Solar Cells. Advanced Materials, 2012, 24, 3124-3129.	21.0	34