

# Dana B Sulas

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

664  
citations

686830

13  
h-index

752256

20  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1310  
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2020 photovoltaic technologies roadmap. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 493001.	1.3	274
2	Photoinduced charge transfer in transition metal dichalcogenide heterojunctions towards next generation energy technologies. <i>Energy and Environmental Science</i> , 2020, 13, 2684-2740.	15.6	67
3	Toward All-Solid-State Lithium Batteries: Three-Dimensional Visualization of Lithium Migration in $\text{Li}_2\text{Li}_3\text{PS}_4$ Ceramic Electrolyte. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3732-A3737.	1.3	46
4	Open-Circuit Voltage Losses in Selenium-Substituted Organic Photovoltaic Devices from Increased Density of Charge-Transfer States. <i>Chemistry of Materials</i> , 2015, 27, 6583-6591.	3.2	42
5	Preferential Charge Generation at Aggregate Sites in Narrow Band Gap Infrared Photoresponsive Polymer Semiconductors. <i>Advanced Optical Materials</i> , 2018, 6, 1701138.	3.6	29
6	Modulation of hybrid organic perovskite photovoltaic performance by controlling the excited dynamics of fullerenes. <i>Materials Horizons</i> , 2015, 2, 414-419.	6.4	24
7	Failure analysis of field-failed bypass diodes. <i>Progress in Photovoltaics: Research and Applications</i> , 2020, 28, 909-918.	4.4	18
8	Kinetic Competition between Charge Separation and Triplet Formation in Small-Molecule Photovoltaic Blends. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26667-26676.	1.5	17
9	Microsecond charge separation at heterojunctions between transition metal dichalcogenide monolayers and single-walled carbon nanotubes. <i>Materials Horizons</i> , 2019, 6, 2103-2111.	6.4	17
10	Effect of nanotube coupling on exciton transport in polymer-free monochiral semiconducting carbon nanotube networks. <i>Nanoscale</i> , 2019, 11, 21196-21206.	2.8	17
11	A Comprehensive Methodology to Evaluate Losses and Process Variations in Silicon Solar Cell Manufacturing. <i>IEEE Journal of Photovoltaics</i> , 2019, 9, 1350-1359.	1.5	16
12	Comparison of photovoltaic module luminescence imaging techniques: Assessing the influence of lateral currents in high-efficiency device structures. <i>Solar Energy Materials and Solar Cells</i> , 2019, 192, 81-87.	3.0	16
13	Dark Lock-in Thermography Identifies Solder Bond Failure as the Root Cause of Series Resistance Increase in Fielded Solar Modules. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 1409-1416.	1.5	15
14	Direct Measurement of Acceptor Group Localization on Donor-Acceptor Polymers Using Resonant Auger Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5570-5578.	1.5	13
15	Methods for <i>In Situ</i> Electroluminescence Imaging of Photovoltaic Modules Under Varying Environmental Conditions. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 1254-1261.	1.5	10
16	Thin-Film Module Reverse-Bias Breakdown Sites Identified by Thermal Imaging. , 2018, , .		9
17	Defect Detection in Solid-State Battery Electrolytes Using Lock-In Thermal Imaging. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3205-A3211.	1.3	7
18	Laser Cutting and Micromachining for Localized and Targeted Solar Cell Characterization. , 2019, , .		7

#	ARTICLE	IF	CITATIONS
19	Large-Area Material and Junction Damage in c-Si Solar Cells by Potential-Induced Degradation. Solar Rrl, 2019, 3, 1800303.	3.1	7
20	GaAs Solar Cells Grown on Unpolished, Spalled Ge Substrates. , 2018, , .		4
21	Imaging Lateral Drift Kinetics to Understand Causes of Outdoor Degradation in Silicon Heterojunction Photovoltaic Modules. Solar Rrl, 2019, 3, 1900102.	3.1	4
22	Interplay between microstructure, defect states, and mobile charge generation in transition metal dichalcogenide heterojunctions. Nanoscale, 2021, 13, 8188-8198.	2.8	2
23	Comparison of PID Shunting in Polycrystalline and Single-Crystal Silicon Modules via Multi-Scale, Multi-Technique Characterization. , 2019, , .		1
24	Unique Photophysical Properties of Infrared Absorbing Polymers. , 2019, , .		0