

# Gideon Segev

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

980  
citations

394421

19  
h-index

610901

24  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1519  
citing authors

#	ARTICLE	IF	CITATIONS
1	Equivalent circuit models for triple-junction concentrator solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 98, 57-65.	6.2	106
2	The electronic structure of metal oxide/organo metal halide perovskite junctions in perovskite based solar cells. <i>Scientific Reports</i> , 2015, 5, 8704.	3.3	91
3	High Solar Flux Concentration Water Splitting with Hematite ( $\text{Fe}_2\text{O}_3$ ) Photoanodes. <i>Advanced Energy Materials</i> , 2016, 6, 1500817.	19.5	72
4	Composition-Dependent Functionality of Copper Vanadate Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 10627-10633.	8.0	65
5	Efficiency of photon enhanced thermionic emission solar converters. <i>Solar Energy Materials and Solar Cells</i> , 2012, 107, 125-130.	6.2	58
6	Limit of efficiency for photon-enhanced thermionic emission vs. photovoltaic and thermal conversion. <i>Solar Energy Materials and Solar Cells</i> , 2015, 140, 464-476.	6.2	58
7	The 2022 solar fuels roadmap. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 323003.	2.8	58
8	Hybrid photoelectrochemical and photovoltaic cells for simultaneous production of chemical fuels and electrical power. <i>Nature Materials</i> , 2018, 17, 1115-1121.	27.5	56
9	Solar energy conversion with photon-enhanced thermionic emission. <i>Journal of Optics (United Kingdom)</i> 11 0784314. <a href="#">https://doi.org/10.1088/1751-8751/11/7/0784314</a>	2.2	43
10	High performance isothermal photo-thermionic solar converters. <i>Solar Energy Materials and Solar Cells</i> , 2013, 113, 114-123.	6.2	42
11	Loss mechanisms and back surface field effect in photon enhanced thermionic emission converters. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	40
12	Revealing the Dynamics of Hybrid Metal Halide Perovskite Formation via Multimodal In Situ Probes. <i>Advanced Functional Materials</i> , 2020, 30, 1908337.	14.9	40
13	The Spatial Collection Efficiency of Charge Carriers in Photovoltaic and Photoelectrochemical Cells. <i>Joule</i> , 2018, 2, 210-224.	24.0	36
14	Performance of CPV modules based on vertical multi-junction cells under non-uniform illumination. <i>Solar Energy</i> , 2013, 88, 120-128.	6.1	35
15	Vertical junction Si cells for concentrating photovoltaics. <i>Progress in Photovoltaics: Research and Applications</i> , 2012, 20, 197-208.	8.1	33
16	Fabrication and optical characterization of polystyrene opal templates for the synthesis of scalable, nanoporous (photo)electrocatalytic materials by electrodeposition. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11601-11614.	10.3	32
17	Negative space charge effects in photon-enhanced thermionic emission solar converters. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	26
18	Hybrid Composite Coatings for Durable and Efficient Solar Hydrogen Generation under Diverse Operating Conditions. <i>Advanced Energy Materials</i> , 2017, 7, 1602791.	19.5	25

#	ARTICLE	IF	CITATIONS
19	Quantification of the loss mechanisms in emerging water splitting photoanodes through empirical extraction of the spatial charge collection efficiency. Energy and Environmental Science, 2018, 11, 904-913.	30.8	24
20	Multiple State Electrostatically Formed Nanowire Transistors. IEEE Electron Device Letters, 2015, 36, 651-653.	3.9	17
21	Investigation of contact grid geometry for photon-enhanced thermionic emission (PETE) silicon based solar converters. Solar Energy, 2016, 133, 259-273.	6.1	10
22	Dynamic and Power Performance of Multiple State Electrostatically Formed Nanowire Transistors. IEEE Transactions on Electron Devices, 2017, 64, 571-578.	3.0	5
23	Three-dimensional object recognition using a quasi-correlator invariant to imaging distances. Optics Express, 2008, 16, 17148.	3.4	3
24	A simulation of a medical ventilator with a realistic lungs model. F1000Research, 0, 9, 1302.	1.6	3
25	Single bandgap solar converters unbounded by the Shockley Queisser limit. , 2013, , .		1
26	Non-unity photogeneration yield of mobile charge carriers in transition metal-oxides. Journal Physics D: Applied Physics, 2022, 55, 023001.	2.8	1
27	Vertical Junction Si Photovoltaic Cells for Concentrating PV. , 2010, , .		0
28	Vertical junction high-efficiency concentrator photovoltaic cells. , 2010, , .		0
29	High performance photo-thermionic solar converters. , 2012, , .		0
30	Solar electricity with photon-enhanced thermionic emission (PETE). , 2014, , .		0