

# Thomas G Allen

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

2,714  
citations

361045

20  
h-index

552369

26  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2285  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrode metallization for scaled perovskite/silicon tandem solar cells: Challenges and opportunities. <i>Progress in Photovoltaics: Research and Applications</i> , 2023, 31, 429-442.	4.4	18
2	Mechanical Reliability of Fullerene/Tin Oxide Interfaces in Monolithic Perovskite/Silicon Tandem Cells. <i>ACS Energy Letters</i> , 2022, 7, 827-833.	8.8	25
3	Scaled Deposition of Ti <sub>3</sub> C <sub>2</sub> MXene on Complex Surfaces: Application Assessment as Rear Electrodes for Silicon Heterojunction Solar Cells. <i>ACS Nano</i> , 2022, 16, 2419-2428.	7.3	28
4	Unleashing the Full Power of Perovskite/Silicon Tandem Modules with Solar Trackers. <i>ACS Energy Letters</i> , 2022, 7, 1604-1610.	8.8	18
5	Damp heat-stable perovskite solar cells with tailored-dimensionality 2D/3D heterojunctions. <i>Science</i> , 2022, 376, 73-77.	6.0	366
6	Photoactivated p-Doping of Organic Interlayer Enables Efficient Perovskite/Silicon Tandem Solar Cells. <i>ACS Energy Letters</i> , 2022, 7, 1987-1993.	8.8	14
7	Monolithic Perovskite/Silicon Tandem Photovoltaics with Minimized Cell-to-Module Losses by Refractive-Index Engineering. <i>ACS Energy Letters</i> , 2022, 7, 2370-2372.	8.8	20
8	Efficient and stable perovskite-silicon tandem solar cells through contact displacement by MgF <sub>2</sub> . <i>Science</i> , 2022, 377, 302-306.	6.0	141
9	Efficient bifacial monolithic perovskite/silicon tandem solar cells via bandgap engineering. <i>Nature Energy</i> , 2021, 6, 167-175.	19.8	164
10	Tin Oxide Electron-Selective Layers for Efficient, Stable, and Scalable Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2005504.	11.1	196
11	Concurrent cationic and anionic perovskite defect passivation enables 27.4% perovskite/silicon tandems with suppression of halide segregation. <i>Joule</i> , 2021, 5, 1566-1586.	11.7	119
12	Toward Stable Monolithic Perovskite/Silicon Tandem Photovoltaics: A Six-Month Outdoor Performance Study in a Hot and Humid Climate. <i>ACS Energy Letters</i> , 2021, 6, 2944-2951.	8.8	42
13	Linked Nickel Oxide/Perovskite Interface Passivation for High-Performance Textured Monolithic Tandem Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2101662.	10.2	77
14	3D Modeling of Ultrathin Solar Cells with Nanostructured Dielectric Passivation: Case Study of Chalcogenide Solar Cells. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100191.	1.3	4
15	Ligand-bridged charge extraction and enhanced quantum efficiency enable efficient n-i-p perovskite/silicon tandem solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 4377-4390.	15.6	79
16	Photon recycling in perovskite solar cells and its impact on device design. <i>Nanophotonics</i> , 2021, 10, 2023-2042.	2.9	29
17	Linked Nickel Oxide/Perovskite Interface Passivation for High-Performance Textured Monolithic Tandem Solar Cells ( <i>Adv. Energy Mater.</i> 40/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170160.	10.2	2
18	Sputtered transparent electrodes for optoelectronic devices: Induced damage and mitigation strategies. <i>Matter</i> , 2021, 4, 3549-3584.	5.0	43

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19	28.2%-efficient, outdoor-stable perovskite/silicon tandem solar cell. <i>Joule</i> , 2021, 5, 3169-3186.	11.7	99
20	High-Performance Perovskite Single-Junction and Textured Perovskite/Silicon Tandem Solar Cells via Slot-Die-Coating. <i>ACS Energy Letters</i> , 2020, 5, 3034-3040.	8.8	134
21	Interplay between temperature and bandgap energies on the outdoor performance of perovskite/silicon tandem solar cells. <i>Nature Energy</i> , 2020, 5, 851-859.	19.8	177
22	Recombination junctions for efficient monolithic perovskite-based tandem solar cells: physical principles, properties, processing and prospects. <i>Materials Horizons</i> , 2020, 7, 2791-2809.	6.4	65
23	Efficient tandem solar cells with solution-processed perovskite on textured crystalline silicon. <i>Science</i> , 2020, 367, 1135-1140.	6.0	525
24	Enhanced optical path and electron diffusion length enable high-efficiency perovskite tandems. <i>Nature Communications</i> , 2020, 11, 1257.	5.8	180
25	Zr-Doped Indium Oxide (IZRO) Transparent Electrodes for Perovskite-Based Tandem Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1901741.	7.8	124
26	Interfacial Dynamics and Contact Passivation in Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , 2019, 5, 1800500.	2.6	25
27	The multiple ways of making perovskite/silicon tandem solar cells: Which way to go?. , 0, , .		0
28	Monolithic perovskite/silicon tandem solar cells: combining stability with high performance. , 0, , .		0