

# Elizabeth M Tennyson

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,262  
citations

567281

15  
h-index

677142

22  
g-index

41  
all docs

41  
docs citations

41  
times ranked

2188  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance-limiting nanoscale trap clusters at grain junctions in halide perovskites. <i>Nature</i> , 2020, 580, 360-366.	27.8	255
2	Heterogeneity at multiple length scales in halide perovskite semiconductors. <i>Nature Reviews Materials</i> , 2019, 4, 573-587.	48.7	200
3	Stabilized tilted-octahedra halide perovskites inhibit local formation of performance-limiting phases. <i>Science</i> , 2021, 374, 1598-1605.	12.6	115
4	Real-Time Nanoscale Open-Circuit Voltage Dynamics of Perovskite Solar Cells. <i>Nano Letters</i> , 2017, 17, 2554-2560.	9.1	111
5	Proton Radiation Hardness of Perovskite Tandem Photovoltaics. <i>Joule</i> , 2020, 4, 1054-1069.	24.0	104
6	Nanoimaging of Open-Circuit Voltage in Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2015, 5, 1501142.	19.5	79
7	Machine Learning for Perovskites' Reap-Rest-Recovery Cycle. <i>Joule</i> , 2019, 3, 325-337.	24.0	62
8	A Highly Emissive Surface Layer in Mixed-Halide Multication Perovskites. <i>Advanced Materials</i> , 2019, 31, e1902374.	21.0	57
9	Humidity-Induced Photoluminescence Hysteresis in Variable Cs/Br Ratio Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3463-3469.	4.6	50
10	Imaging Energy Harvesting and Storage Systems at the Nanoscale. <i>ACS Energy Letters</i> , 2017, 2, 2761-2777.	17.4	39
11	Mesoscale Functional Imaging of Materials for Photovoltaics. <i>ACS Energy Letters</i> , 2017, 2, 1825-1834.	17.4	33
12	Near-IR Imaging Based on Hot Carrier Generation in Nanometer-Scale Optical Coatings. <i>ACS Photonics</i> , 2018, 5, 306-311.	6.6	29
13	Multimodal Microscale Imaging of Textured Perovskite-Silicon Tandem Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 2293-2304.	17.4	25
14	Proton-Radiation Tolerant All-Perovskite Multijunction Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2102246.	19.5	25
15	Cesium-Incorporated Triple Cation Perovskites Deliver Fully Reversible and Stable Nanoscale Voltage Response. <i>ACS Nano</i> , 2019, 13, 1538-1546.	14.6	21
16	Photovoltage Tomography in Polycrystalline Solar Cells. <i>ACS Energy Letters</i> , 2016, 1, 899-905.	17.4	12
17	The Effects of Incident Photon Energy on the Time-Dependent Voltage Response of Lead Halide Perovskites. <i>Chemistry of Materials</i> , 2019, 31, 8969-8976.	6.7	10
18	Using pulsed mode scanning electron microscopy for cathodoluminescence studies on hybrid perovskite films. <i>Nano Express</i> , 2021, 2, 024002.	2.4	10

#	ARTICLE	IF	CITATIONS
19	Optical emission from focused ion beam milled halide perovskite device cross-sections. <i>Microscopy Research and Technique</i> , 2022, 85, 2351-2355.	2.2	7
20	Active Control of Photon Recycling for Tunable Optoelectronic Materials. <i>Advanced Optical Materials</i> , 2018, 6, 1701323.	7.3	6
21	Correlated Electrical and Chemical Nanoscale Properties in Potassium-Passivated, Triple-Cation Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000515.	3.7	4
22	INTERSTELLAR H I SHELLS IDENTIFIED IN THE SETHi SURVEY. <i>Astronomical Journal</i> , 2015, 149, 189.	4.7	3
23	Assessing local voltage in CIGS solar cells by nanoscale resolved Kelvin Probe Force Microscopy and sub-micron photoluminescence. , 2014, , .		2
24	Imaging EQE in CIGS solar cells with high spatial resolution. , 2015, , .		1
25	Radiation Hardness of Perovskite/Silicon and Perovskite/CIGS Tandem Solar Cells under Proton Irradiation. , 0, , .		1
26	Radiation Hardness of Perovskite/Silicon and Perovskite/CIGS Tandem Solar Cells under Proton Irradiation. , 0, , .		1
27	A novel method for mapping open-circuit voltage in solar cells with nanoscale resolution (Presentation Recording). <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
28	Mapping $V_{oc}$ in polycrystalline solar cells with nanoscale spatial resolution. , 2016, , .		0
29	Nano-Imaging of Performance in Photovoltaics. , 2017, , .		0
30	Imaging the Effect of CdSe Window Layers in CdTe Photovoltaics. , 2017, , .		0
31	Digging Deeper for an In-Depth Understanding of Energy Materials. <i>Joule</i> , 2020, 4, 1856-1858.	24.0	0
32	Modulating Nanoscale Defect States in Halide Perovskite Films. , 0, , .		0
33	2050: A New World—Observations from a Policy-Making Board Game for Climate Change Engagement. <i>Biology and Life Sciences Forum</i> , 2020, 4, .	0.6	0
34	Radiation Tolerant All-Perovskite Multijunction Solar Cells for Moon, Mars and Deep Space Applications. , 0, , .		0
35	Proton-Radiation Tolerant All-Perovskite Multijunction Solar Cells ( <i>Adv. Energy Mater.</i> 41/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170164.	19.5	0
36	Octahedral Tilt Engineering: Atomic-Level Picture of Stabilized $\hat{\pm}$ -FAPbI <sub>3</sub> . , 0, , .		0

#	ARTICLE	IF	CITATIONS
37	Tilted-octahedra stabilize FA rich halide perovskites. , 0, , .		0