Elizabeth M Tennyson

List of Publications by Year
in descending order

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	Optical emission from focused ion beam milled halide perovskite device crossâ€sections. Microscopy Research and Technique, 2022, 85, 2351-2355.	2.2	7
2	Multimodal Microscale Imaging of Textured Perovskiteâ€“Silicon Tandem Solar Cells. ACS Energy Letters, 2021, 6, 2293-2304.	17.4	25
3	Using pulsed mode scanning electron microscopy for cathodoluminescence studies on hybrid perovskite films. Nano Express, 2021, 2, 024002.	2.4	10
4	Protonâ€Radiation Tolerant Allâ€Perovskite Multijunction Solar Cells. Advanced Energy Materials, 2021, 11, 2102246.	19.5	25
5	Protonâ€Radiation Tolerant Allâ€Perovskite Multijunction Solar Cells (Adv. Energy Mater. 41/2021). Advanced Energy Materials, 2021, 11, 2170164.	19.5	0
6	Stabilized tilted-octahedra halide perovskites inhibit local formation of performance-limiting phases. Science, 2021, 374, 1598-1605.	12.6	115
7	Digging Deeper for an In-Depth Understanding of Energy Materials. Joule, 2020, 4, 1856-1858.	24.0	0
8	Correlated Electrical and Chemical Nanoscale Properties in Potassiumâ€Passivated, Tripleâ€Cation Perovskite Solar Cells. Advanced Materials Interfaces, 2020, 7, 2000515.	3.7	4
9	Proton Radiation Hardness of Perovskite Tandem Photovoltaics. Joule, 2020, 4, 1054-1069.	24.0	104
10	Performance-limiting nanoscale trap clusters at grain junctions in halide perovskites. Nature, 2020, 580, 360-366.	27.8	255
11	2050: A New Worldâ€”Observations from a Policy-Making Board Game for Climate Change Engagement. Biology and Life Sciences Forum, 2020, 4, .	0.6	0
12	Heterogeneity at multiple length scales in halide perovskite semiconductors. Nature Reviews Materials, 2019, 4, 573-587.	48.7	200
13	A Highly Emissive Surface Layer in Mixedâ€Halide Multication Perovskites. Advanced Materials, 2019, 31, e1902374.	21.0	57
14	The Effects of Incident Photon Energy on the Time-Dependent Voltage Response of Lead Halide Perovskites. Chemistry of Materials, 2019, 31, 8969-8976.	6.7	10
15	Cesium-Incorporated Triple Cation Perovskites Deliver Fully Reversible and Stable Nanoscale Voltage Response. ACS Nano, 2019, 13, 1538-1546.	14.6	21
16	Machine Learning for Perovskites' Reap-Rest-Recovery Cycle. Joule, 2019, 3, 325-337.	24.0	62
17	Active Control of Photon Recycling for Tunable Optoelectronic Materials. Advanced Optical Materials, 2018, 6, 1701323.	7.3	6
18	Near-IR Imaging Based on Hot Carrier Generation in Nanometer-Scale Optical Coatings. ACS Photonics, 2018, 5, 306-311.	6.6	29

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19	Humidity-Induced Photoluminescence Hysteresis in Variable Cs/Br Ratio Hybrid Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 3463-3469.	4.6	50
20	Real-Time Nanoscale Open-Circuit Voltage Dynamics of Perovskite Solar Cells. Nano Letters, 2017, 17, 2554-2560.	9.1	111
21	Imaging Energy Harvesting and Storage Systems at the Nanoscale. ACS Energy Letters, 2017, 2, 2761-2777.	17.4	39
22	Mesoscale Functional Imaging of Materials for Photovoltaics. ACS Energy Letters, 2017, 2, 1825-1834.	17.4	33
23	Nano-Imaging of Performance in Photovoltaics. , 2017, , .		0
24	Imaging the Effect of CdSe Window Layers in CdTe Photovoltaics. , 2017, , .		0
25	Mapping V<inf>oc</inf> in polycrystalline solar cells with nanoscale spatial resolution. , 2016, , .		0
26	Photovoltage Tomography in Polycrystalline Solar Cells. ACS Energy Letters, 2016, 1, 899-905.	17.4	12
27	Nanoimaging of Openâ€Circuit Voltage in Photovoltaic Devices. Advanced Energy Materials, 2015, 5, 1501142.	19.5	79
28	A novel method for mapping open-circuit voltage in solar cells with nanoscale resolution (Presentation Recording). Proceedings of SPIE, 2015, , .	0.8	0
29	Imaging EQE in CIGS solar cells with high spatial resolution. , 2015, , .		1
30	INTERSTELLAR H i SHELLS IDENTIFIED IN THE SETHi SURVEY. Astronomical Journal, 2015, 149, 189.	4.7	3
31	Assessing local voltage in CIGS solar cells by nanoscale resolved Kelvin Probe Force Microscopy and sub-micron photoluminescence. , 2014, , .		2
32	Radiation Hardness of Perovskite/Silicon and Perovskite/CIGS Tandem Solar Cells under Proton Irradiation. , 0, , .		1
33	Modulating Nanoscale Defect States in Halide Perovskite Films. , 0, , .		0
34	Radiation Tolerant All-Perovskite Multijunction Solar Cells for Moon, Mars and Deep Space Applications. , 0, , .		0
35	Radiation Hardness of Perovskite/Silicon and Perovskite/CIGS Tandem Solar Cells under Proton Irradiation. , 0, , .		1
36	Octahedral Tilt Engineering: Atomic-Level Picture of Stabilized Î±-FAPbI3. , 0, , .		0

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37	Tilted-octahedra stabilize FA rich halide perovskites. , 0, , .		0