

# Joseph L Garrett

## List of Publications by Year in descending order

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25  
papers

669  
citations

687363

13  
h-index

713466

21  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1131  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Nanoscale Open-Circuit Voltage Dynamics of Perovskite Solar Cells. <i>Nano Letters</i> , 2017, 17, 2554-2560.	9.1	111
2	Nanoimaging of Open-Circuit Voltage in Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2015, 5, 1501142.	19.5	79
3	Measurement of the Casimir torque. <i>Nature</i> , 2018, 564, 386-389.	27.8	72
4	Measurement of the Casimir Force between Two Spheres. <i>Physical Review Letters</i> , 2018, 120, 040401.	7.8	64
5	Fast, high-resolution surface potential measurements in air with heterodyne Kelvin probe force microscopy. <i>Nanotechnology</i> , 2016, 27, 245705.	2.6	60
6	Mid-infrared time-resolved photoconduction in black phosphorus. <i>2D Materials</i> , 2016, 3, 041006.	4.4	52
7	The effect of patch potentials in Casimir force measurements determined by heterodyne Kelvin probe force microscopy. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 214012.	1.8	42
8	Quantitative measurement of radiation pressure on a microcantilever in ambient environment. <i>Applied Physics Letters</i> , 2015, 106, 091107.	3.3	36
9	Ocean Color Hyperspectral Remote Sensing With High Resolution and Low Latency—The HYPSON-1 CubeSat Mission. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-19.	6.3	25
10	Cesium-Incorporated Triple Cation Perovskites Deliver Fully Reversible and Stable Nanoscale Voltage Response. <i>ACS Nano</i> , 2019, 13, 1538-1546.	14.6	21
11	Measuring the effect of electrostatic patch potentials in Casimir force experiments. <i>Physical Review Research</i> , 2020, 2, .	3.6	17
12	Optoelectronic Devices on Index-near-Zero Substrates. <i>ACS Photonics</i> , 2019, 6, 2238-2244.	6.6	15
13	A Satellite-USV System for Persistent Observation of Mesoscale Oceanographic Phenomena. <i>Remote Sensing</i> , 2021, 13, 3229.	4.0	15
14	Multiscale Functional Imaging of Interfaces through Atomic Force Microscopy Using Harmonic Mixing. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28850-28859.	8.0	13
15	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
16	Effect of lateral tip motion on multifrequency atomic force microscopy. <i>Applied Physics Letters</i> , 2017, 111, 043105.	3.3	8
17	Sensitivity and accuracy of Casimir force measurements in air. <i>Physical Review A</i> , 2019, 100, .	2.5	7
18	Self-Organizing Maps for Clustering Hyperspectral Images On-Board a CubeSat. <i>Remote Sensing</i> , 2021, 13, 4174.	4.0	7

#	ARTICLE	IF	CITATIONS
19	Detection of different chemical binders in coatings using hyperspectral imaging. Journal of Coatings Technology Research, 2022, 19, 559-574.	2.5	5
20	Interfacial Defect-Mediated Near-Infrared Silicon Photodetection with Metal Oxides. ACS Applied Materials & Interfaces, 2019, 11, 47516-47524.	8.0	4
21	Correlated Electrical and Chemical Nanoscale Properties in Potassium-Passivated, Triple-Cation Perovskite Solar Cells. Advanced Materials Interfaces, 2020, 7, 2000515.	3.7	4
22	Assessing local voltage in CIGS solar cells by nanoscale resolved Kelvin Probe Force Microscopy and sub-micron photoluminescence. , 2014, , .		2
23	Mapping $V_{oc}$ in polycrystalline solar cells with nanoscale spatial resolution. , 2016, , .		0
24	An Agile Systems Engineering Analysis of Socio-Technical Aspects of a University-Built CubeSat. Insight, 2021, 24, 21-26.	0.3	0
25	Radiation Pressure Measurement under Ambient Conditions Using a Microcantilever. , 2015, , .		0