

# Eric S Muckley

## List of Publications by Year in descending order

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26  
papers

668  
citations

687363

13  
h-index

677142

22  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1154  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multimodality of Structural, Electrical, and Gravimetric Responses of Intercalated MXenes to Water. ACS Nano, 2017, 11, 11118-11126.	14.6	183
2	Multi-modal, ultrasensitive, wide-range humidity sensing with Ti <sub>3</sub> C <sub>2</sub> film. Nanoscale, 2018, 10, 21689-21695.	5.6	74
3	UV-activated ZnO films on a flexible substrate for room temperature O <sub>2</sub> and H <sub>2</sub> O sensing. Scientific Reports, 2017, 7, 6053.	3.3	61
4	PEDOT:PSS/QCM-based multimodal humidity and pressure sensor. Sensors and Actuators B: Chemical, 2016, 236, 91-98.	7.8	58
5	New Insights on Electro-Optical Response of Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) Film to Humidity. ACS Applied Materials & Interfaces, 2017, 9, 15880-15886.	8.0	50
6	Dynamic Impact of Electrode Materials on Interface of Single-Crystalline Methylammonium Lead Bromide Perovskite. Advanced Materials Interfaces, 2018, 5, 1800476.	3.7	31
7	SMART transfer method to directly compare the mechanical response of water-supported and free-standing ultrathin polymeric films. Nature Communications, 2021, 12, 2347.	12.8	30
8	Machine learning enabled acoustic detection of sub-nanomolar concentration of trypsin and plasmin in solution. Sensors and Actuators B: Chemical, 2018, 272, 282-288.	7.8	28
9	Exploring Transport Behavior in Hybrid Perovskites Solar Cells via Machine Learning Analysis of Environmental-Dependent Impedance Spectroscopy. Advanced Science, 2021, 8, e2002510.	11.2	23
10	Multimodal probing of oxygen and water interaction with metallic and semiconducting carbon nanotube networks under ultraviolet irradiation. Journal of Photonics for Energy, 2016, 6, 025506.	1.3	19
11	Hierarchical TiO <sub>2</sub> :Cu <sub>2</sub> O Nanostructures for Gas/Vapor Sensing and CO <sub>2</sub> Sequestration. ACS Applied Materials & Interfaces, 2019, 11, 48466-48475.	8.0	18
12	Multi-mode humidity sensing with water-soluble copper phthalocyanine for increased sensitivity and dynamic range. Scientific Reports, 2017, 7, 9921.	3.3	17
13	Environmental Gating and Galvanic Effects in Single Crystals of Organic-Inorganic Halide Perovskites. ACS Applied Materials & Interfaces, 2019, 11, 14722-14733.	8.0	14
14	Light-Activated Hybrid Nanocomposite Film for Water and Oxygen Sensing. ACS Applied Materials & Interfaces, 2018, 10, 31745-31754.	8.0	12
15	Machine Learning-Enabled Correlation and Modeling of Multimodal Response of Thin Film to Environment on Macro and Nanoscale Using a Lab-on-a-Crystal. Advanced Functional Materials, 2020, 30, 1908010.	14.9	12
16	Low-cost scalable quartz crystal microbalance array for environmental sensing. , 2016, , .		8
17	Morphology-defined interaction of copper phthalocyanine with O <sub>2</sub> /H <sub>2</sub> O. Journal of Photonics for Energy, 2016, 6, 045501.	1.3	8
18	Analysis of trypsin activity at Î <sup>2</sup> -casein layers formed on hydrophobic surfaces using a multiharmonic acoustic method. Analyst, The, 2022, 147, 461-470.	3.5	7

#	ARTICLE	IF	CITATIONS
19	Correlation of Spatiotemporal Dynamics of Polarization and Charge Transport in Blended Hybrid Organic-Inorganic Perovskites on Macro- and Nanoscales. ACS Applied Materials & Interfaces, 2020, 12, 15380-15388.	8.0	5
20	Application of Multiharmonic QCM-D for Detection of Plasmin at Hydrophobic Surfaces Modified by Î²-Casein. Chemosensors, 2022, 10, 143.	3.6	4
21	Effect of UV irradiation on adsorption/desorption of oxygen and water on carbon nanotubes. Proceedings of SPIE, 2016, , .	0.8	2
22	Imaging of electrical response of NiO x under controlled environment with sub-25-nm resolution. Journal of Photonics for Energy, 2016, 6, 038001.	1.3	2
23	Spatially resolved resistance of NiO nanostructures under humid environment. , 2016, , .		1
24	Functional two/three-dimensional assembly of monolayer WS <sub>2</sub> and nickel oxide. Journal of Photonics for Energy, 2017, 7, 014001.	1.3	1
25	Effect of film morphology on oxygen and water interaction with copper phthalocyanine. , 2016, , .		0
26	Indirect electrochemical method for high accuracy quantification of protein adsorption on gold surfaces. Electrochemistry Communications, 2021, 124, 106961.	4.7	0