

Eric S Muckley

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

668
citations

687363

13
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677142

22
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26
docs citations

26
times ranked

1154
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of trypsin activity at $\hat{\Gamma}^2$ -casein layers formed on hydrophobic surfaces using a multiharmonic acoustic method. <i>Analyst</i> , The, 2022, 147, 461-470.	3.5	7
2	Application of Multiharmonic QCM-D for Detection of Plasmin at Hydrophobic Surfaces Modified by $\hat{\Gamma}^2$ -Casein. <i>Chemosensors</i> , 2022, 10, 143.	3.6	4
3	Indirect electrochemical method for high accuracy quantification of protein adsorption on gold surfaces. <i>Electrochemistry Communications</i> , 2021, 124, 106961.	4.7	0
4	SMART transfer method to directly compare the mechanical response of water-supported and free-standing ultrathin polymeric films. <i>Nature Communications</i> , 2021, 12, 2347.	12.8	30
5	Exploring Transport Behavior in Hybrid Perovskites Solar Cells via Machine Learning Analysis of Environmental-Dependent Impedance Spectroscopy. <i>Advanced Science</i> , 2021, 8, e2002510.	11.2	23
6	Correlation of Spatiotemporal Dynamics of Polarization and Charge Transport in Blended Hybrid Organic-Inorganic Perovskites on Macro- and Nanoscales. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15380-15388.	8.0	5
7	Machine Learning-Enabled Correlation and Modeling of Multimodal Response of Thin Film to Environment on Macro and Nanoscale Using Lab-on-a-Crystal. <i>Advanced Functional Materials</i> , 2020, 30, 1908010.	14.9	12
8	Environmental Gating and Galvanic Effects in Single Crystals of Organic-Inorganic Halide Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14722-14733.	8.0	14
9	Hierarchical TiO_2 : Cu_2O Nanostructures for Gas/Vapor Sensing and CO_2 Sequestration. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48466-48475.	8.0	18
10	Multi-modal, ultrasensitive, wide-range humidity sensing with Ti_3C_2 film. <i>Nanoscale</i> , 2018, 10, 21689-21695.	5.6	74
11	Machine learning enabled acoustic detection of sub-nanomolar concentration of trypsin and plasmin in solution. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 282-288.	7.8	28
12	Light-Activated Hybrid Nanocomposite Film for Water and Oxygen Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31745-31754.	8.0	12
13	Dynamic Impact of Electrode Materials on Interface of Single-Crystalline Methylammonium Lead Bromide Perovskite. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800476.	3.7	31
14	New Insights on Electro-Optical Response of Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) Film to Humidity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15880-15886.	8.0	50
15	Functional two/three-dimensional assembly of monolayer WS_2 and nickel oxide. <i>Journal of Photonics for Energy</i> , 2017, 7, 014001.	1.3	1
16	Multimodality of Structural, Electrical, and Gravimetric Responses of Intercalated MXenes to Water. <i>ACS Nano</i> , 2017, 11, 11118-11126.	14.6	183
17	Multi-mode humidity sensing with water-soluble copper phthalocyanine for increased sensitivity and dynamic range. <i>Scientific Reports</i> , 2017, 7, 9921.	3.3	17
18	UV-activated ZnO films on a flexible substrate for room temperature O_2 and H_2O sensing. <i>Scientific Reports</i> , 2017, 7, 6053.	3.3	61

#	ARTICLE	IF	CITATIONS
19	Effect of UV irradiation on adsorption/desorption of oxygen and water on carbon nanotubes. Proceedings of SPIE, 2016, , .	0.8	2
20	PEDOT:PSS/QCM-based multimodal humidity and pressure sensor. Sensors and Actuators B: Chemical, 2016, 236, 91-98.	7.8	58
21	Low-cost scalable quartz crystal microbalance array for environmental sensing. , 2016, , .		8
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	Effect of film morphology on oxygen and water interaction with copper phthalocyanine. , 2016, , .		0
24	Morphology-defined interaction of copper phthalocyanine with O ₂ /H ₂ O. Journal of Photonics for Energy, 2016, 6, 045501.	1.3	8
25	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
26	Spatially resolved resistance of NiO nanostructures under humid environment. , 2016, , .		1