

Ehsan Nasr Esfahani

List of Publications by Year in descending order

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17
papers

443
citations

758635

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docs citations

17
times ranked

824
citing authors

#	ARTICLE	IF	CITATIONS
1	High-throughput sequential excitation for nanoscale mapping of electrochemical strain in granular ceria. <i>Nanoscale</i> , 2019, 11, 23188-23196.	2.8	10
2	Mapping intrinsic electromechanical responses at the nanoscale via sequential excitation scanning probe microscopy empowered by deep data. <i>National Science Review</i> , 2019, 6, 55-63.	4.6	27
3	Quadratic electromechanical strain in silicon investigated by scanning probe microscopy. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	42
4	Tuning Fe concentration in epitaxial gallium ferrite thin films for room temperature multiferroic properties. <i>Acta Materialia</i> , 2018, 145, 488-495.	3.8	26
5	Quantitative nanoscale mapping of three-phase thermal conductivities in filled skutterudites via scanning thermal microscopy. <i>National Science Review</i> , 2018, 5, 59-69.	4.6	26
6	Multifield Control of Domains in a Room-Temperature Multiferroic $0.85\text{BiTi}_{0.1}\text{Fe}_{0.8}\text{Mg}_{0.1}\text{O}_3 \approx 0.15\text{CaTiO}_3$ Thin Film. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20712-20719.	4.0	17
7	Ferroic domains regulate photocurrent in single-crystalline $\text{CH}_3\text{NH}_3\text{PbI}_3$ films self-grown on FTO/ TiO_2 substrate. <i>Npj Quantum Materials</i> , 2018, 3, .	1.8	76
8	Piezoelectricity of atomically thin WSe_2 via laterally excited scanning probe microscopy. <i>Nano Energy</i> , 2018, 52, 117-122.	8.2	43
9	Non-equilibrium microstructure of $\text{Li}_{1.4}\text{Al}_{0.4}\text{Ti}_{1.6}(\text{PO}_4)_3$ superionic conductor by spark plasma sintering for enhanced ionic conductivity. <i>Nano Energy</i> , 2018, 51, 19-25.	8.2	24
10	Electromechanical Coupling of Murine Lung Tissues Probed by Piezoresponse Force Microscopy. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1827-1835.	2.6	23
11	Interaction of highly nonlinear solitary waves with elastic solids containing a spherical void. <i>International Journal of Solids and Structures</i> , 2017, 118-119, 204-212.	1.3	38
12	Touching is believing: interrogating halide perovskite solar cells at the nanoscale via scanning probe microscopy. <i>Npj Quantum Materials</i> , 2017, 2, .	1.8	43
13	Imaging Space Charge Regions in Sm-Doped Ceria Using Strain-Based Scanning Probe Techniques. <i>ECS Transactions</i> , 2017, 78, 335-342.	0.3	3
14	Imaging ferroelectric domains via charge gradient microscopy enhanced by principal component analysis. <i>Journal of Materiomics</i> , 2017, 3, 280-285.	2.8	6
15	Scanning Thermo-Ionic Microscopy: Probing Nanoscale Electrochemistry via Thermal Stress-Induced Oscillation. <i>Microscopy Today</i> , 2017, 25, 12-19.	0.2	11
16	Scanning thermo-ionic microscopy for probing local electrochemistry at the nanoscale. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	28
17	Interaction of Acoustic Solitons with Inhomogeneous Media Containing a Spherical Shape Defect. , 2014, , .		0