

Ehsan Nasr Esfahani

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

443
citations

758635

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940134

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824
citing authors

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