

Everett D Grimley

List of Publications by Year in descending order

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29
papers

1,949
citations

687363

13
h-index

713466

21
g-index

29
all docs

29
docs citations

29
times ranked

1693
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical Mechanisms behind the Field-Cycling Behavior of HfO ₂ -Based Ferroelectric Capacitors. <i>Advanced Functional Materials</i> , 2016, 26, 4601-4612.	14.9	586
2	On the structural origins of ferroelectricity in HfO ₂ thin films. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	447
3	Structural Changes Underlying Field-Cycling Phenomena in Ferroelectric HfO ₂ Thin Films. <i>Advanced Electronic Materials</i> , 2016, 2, 1600173.	5.1	301
4	Si Doped Hafnium Oxide "A "Fragile" Ferroelectric System. <i>Advanced Electronic Materials</i> , 2017, 3, 1700131.	5.1	136
5	Atomic Structure of Domain and Interphase Boundaries in Ferroelectric HfO ₂ . <i>Advanced Materials Interfaces</i> , 2018, 5, 1701258.	3.7	114
6	Ferroelectric phenomena in Si-doped HfO ₂ thin films with TiN and Ir electrodes. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014, 32, .	1.2	110
7	Analysis of Performance Instabilities of Hafnia-Based Ferroelectrics Using Modulus Spectroscopy and Thermally Stimulated Depolarization Currents. <i>Advanced Electronic Materials</i> , 2018, 4, 1700547.	5.1	51
8	Structure of Ultrathin Native Oxides on III-Nitride Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10607-10611.	8.0	34
9	Direct observation of charge mediated lattice distortions in complex oxide solid solutions. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	33
10	Multiple Epsilon-Near-Zero Resonances in Multilayered Cadmium Oxide: Designing Metamaterial-Like Optical Properties in Monolithic Materials. <i>ACS Photonics</i> , 2019, 6, 1139-1145.	6.6	33
11	Unleashing Strain Induced Ferroelectricity in Complex Oxide Thin Films via Precise Stoichiometry Control. <i>Advanced Functional Materials</i> , 2016, 26, 7271-7279.	14.9	30
12	Growth of SrVO ₃ thin films by hybrid molecular beam epitaxy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, .	2.1	22
13	In-situ real-space imaging of single crystal surface reconstructions via electron microscopy. <i>Applied Physics Letters</i> , 2016, 109, 201601.	3.3	17
14	An Ultrathin Single Crystalline Relaxor Ferroelectric Integrated on a High Mobility Semiconductor. <i>Nano Letters</i> , 2017, 17, 6248-6257.	9.1	11
15	Polarization-dependent electric potential distribution across nanoscale ferroelectric Hf _{0.5} Zr _{0.5} O ₂ in functional memory capacitors. <i>Nanoscale</i> , 2019, 11, 19814-19822.	5.6	11
16	Insights into Texture and Phase Coexistence in Polycrystalline and Polyphasic Ferroelectric HfO ₂ Thin Films using 4D-STEM. <i>Microscopy and Microanalysis</i> , 2018, 24, 184-185.	0.4	4
17	Origin of Ferroelectricity in Thin Film HfO ₂ Probed by Revolving STEM and PACBED. <i>Microscopy and Microanalysis</i> , 2015, 21, 779-780.	0.4	2
18	Complexities of atomic structure at CdO/MgO and CdO/Al ₂ O ₃ interfaces. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	2

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19	Charge confinement and thermal transport processes in modulation-doped epitaxial crystals lacking lattice interfaces. <i>Physical Review Materials</i> , 2019, 3, .	2.4	2
20	In-situ-by-Ex-situ: FIB-less Preparation of Bulk Samples on Heating Membranes for Atomic Resolution STEM Imaging. <i>Microscopy and Microanalysis</i> , 2016, 22, 774-775.	0.4	1
21	Extracting Thickness and Tilt From 4D-STEM Datasets to Model the Influence on ABF Images. <i>Microscopy and Microanalysis</i> , 2018, 24, 216-217.	0.4	1
22	Transmission Electron Microscopy (STEM and TEM). , 2019, , 317-340.		1
23	Application of the Projective Standard Deviation to STEM Imaging and Analysis. <i>Microscopy and Microanalysis</i> , 2014, 20, 118-119.	0.4	0
24	Putting a New Spin on Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2014, 20, 140-141.	0.4	0
25	Revealing Unit Cell Level Distortions in Random Oxide Solid Solutions by Scanning Transmission Electron Microscopy and the Projected Pair Distribution Function. <i>Microscopy and Microanalysis</i> , 2015, 21, 1239-1240.	0.4	0
26	Observing Misfit Dislocation Interactions Across Thin Film Oxide Heterostructures. <i>Microscopy and Microanalysis</i> , 2016, 22, 1506-1507.	0.4	0
27	Structure and Chemistry of Oxide Surface Reconstructions in III-Nitrides Observed using STEM EELS. <i>Microscopy and Microanalysis</i> , 2017, 23, 1444-1445.	0.4	0
28	Compositional Ordering and Polar Nano-Regions: Physical Effects of Sn Alloying in SrTiO ₃ Thin Films. <i>Microscopy and Microanalysis</i> , 2017, 23, 1582-1583.	0.4	0
29	Utilizing High-temperature Atomic-resolution STEM and EELS to Determine Reconstructed Surface Structure of Complex Oxide. <i>Microscopy and Microanalysis</i> , 2017, 23, 1596-1597.	0.4	0