

Julia A Mundy

List of Publications by Year in descending order

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36
papers

1,801
citations

331259

21
h-index

433756

31
g-index

37
all docs

37
docs citations

37
times ranked

3356
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomically engineered ferroic layers yield a room-temperature magnetoelectric multiferroic. Nature, 2016, 537, 523-527.	13.7	275
2	Exploiting dimensionality and defect mitigation to create tunable microwave dielectrics. Nature, 2013, 502, 532-536.	13.7	204
3	Functional electronic inversion layers at ferroelectric domain walls. Nature Materials, 2017, 16, 622-627.	13.3	127
4	Superconductivity in a quintuple-layer square-planar nickelate. Nature Materials, 2022, 21, 160-164.	13.3	117
5	Data Processing for Atomic Resolution Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2012, 18, 667-675.	0.2	103
6	Magnetic Structure and Ordering of Multiferroic Hexagonal LuFeO_3 Physical Review Letters, 2015, 114, 217602.	2.9	92
7	Atomically precise interfaces from non-stoichiometric deposition. Nature Communications, 2014, 5, 4530.	5.8	91
8	Visualizing the interfacial evolution from charge compensation to metallic screening across the manganite metal-insulator transition. Nature Communications, 2014, 5, 3464.	5.8	73
9	Intrinsic magnetic properties of hexagonal LuFeO_3 and the effects of nonstoichiometry. APL Materials, 2014, 2, 012106.	2.2	63
10	Electron Accumulation and Emergent Magnetism in LaMnO_3 Heterostructures. Physical Review Letters, 2017, 119, 156801.	2.9	63
11	Controlling band alignments by artificial interface dipoles at perovskite heterointerfaces. Nature Communications, 2015, 6, 6759.	5.8	58
12	Topological Defects in Hexagonal Manganites: Inner Structure and Emergent Electrostatics. Nano Letters, 2017, 17, 5883-5890.	4.5	56
13	Effect of reduced dimensionality on the optical band gap of SrTiO_3 . Applied Physics Letters, 2013, 102, .	1.5	52
14	Epitaxial growth of VO_2 by periodic annealing. Applied Physics Letters, 2014, 104, .	1.5	52
15	Enhanced Electrical Resistivity and Properties via Ion Bombardment of Ferroelectric Thin Films. Advanced Materials, 2016, 28, 10750-10756.	11.1	52
16	Monolithically Integrated Circuits from Functional Oxides. Advanced Materials Interfaces, 2014, 1, 1300031.	1.9	49
17	High-quality EuO thin films the easy way via topotactic transformation. Nature Communications, 2015, 6, 7716.	5.8	43
18	Atomic-resolution chemical imaging of oxygen local bonding environments by electron energy loss spectroscopy. Applied Physics Letters, 2012, 101, 042907.	1.5	39

#	ARTICLE	IF	CITATIONS
19	Direct band gaps in multiferroic h-LuFeO ₃ . Applied Physics Letters, 2015, 106, 082902.	1.5	39
20	The adsorption-controlled growth of LuFe ₂ O ₄ by molecular-beam epitaxy. Applied Physics Letters, 2012, 101, .	1.5	38
21	Hetero-epitaxial EuO interfaces studied by analytic electron microscopy. Applied Physics Letters, 2014, 104, .	1.5	26
22	Visualizing weak ferromagnetic domains in multiferroic hexagonal ferrite thin film. Physical Review B, 2017, 95, .	1.1	19
23	Liberating a hidden antiferroelectric phase with interfacial electrostatic engineering. Science Advances, 2022, 8, eabg5860.	4.7	18
24	Dimensionality-Induced Change in Topological Order in Multiferroic Oxide Superlattices. Physical Review Letters, 2021, 126, 157601.	2.9	12
25	Site-specific spectroscopic measurement of spin and charge in (LuFeO ₃) _m /(LuFe ₂ O ₄) ₁ multiferroic superlattices. Nature Communications, 2020, 11, 5582.	5.8	9
26	Exploring the intrinsic limit of the charge-carrier-induced increase of the Curie temperature of Lu- and La-doped EuO thin films. Physical Review Materials, 2020, 4, .	0.9	9
27	The Open-Source Cornell Spectrum Imager. Microscopy Today, 2013, 21, 40-44.	0.2	7
28	Synthesis and electronic properties of Nd ₃ N ₃ O ₃ Ruddlesden-Popper nickelate thin films. Physical Review Materials, 2022, 6, .	0.9	0
29	Nanometer-scale epitaxial strain release in perovskite heterostructures using SrAlOx sliding buffer layers. Applied Physics Letters, 2011, 98, 171901.	1.5	5
30	DyFe ₂ O ₄ : A new trigonal rare-earth ferrite grown by molecular-beam epitaxy. APL Materials, 2021, 9, 041106.	2.2	2
31	Fabrication of chemically and structurally abrupt Eu ₁ O/SrO/Si interfaces and their analysis by STEM-EELS. Physical Review Materials, 2021, 5, .	0.9	0
32	Oxide Microelectronics: Monolithically Integrated Circuits from Functional Oxides (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	1.9	0
33	Imaging Local Polarization and Domain Boundaries in Multiferroic (LuFeO ₃) _m /(LuFe ₂ O ₄) _n Superlattices. Microscopy and Microanalysis, 2015, 21, 1303-1304.	0.2	0
34	Imaging Local Polarization and Domain Boundaries with Picometer-Precision Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 898-899.	0.2	0
35	Measuring Ferroelectric Order Parameters at Domain Walls and Vortices in Hexagonal Manganites with Atomic Resolution STEM. Microscopy and Microanalysis, 2017, 23, 1636-1637.	0.2	0
36	Atomic-Resolution Electron Spectroscopy of Interfaces and Defects in Complex Oxides. , 0, , 32-32.		0