Julia A Mundy

List of Publications by Year
in descending order

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	Superconductivity in a quintuple-layer square-planar nickelate. Nature Materials, 2022, 21, 160-164.	13.3	117
2	Liberating a hidden antiferroelectric phase with interfacial electrostatic engineering. Science Advances, 2022, 8, eabg5860.	4.7	18
3	Synthesis and electronic properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi><mml:mrow><mml:mi>n</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mi>n</mml:mi><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Ruddlesden-Popper nickelate thin films. Physical Review Materials, 2022, 6, .	0.9	7
4	DyFe₂O₄: A new trigonal rare-earth ferrite grown by molecular-beam epitaxy. APL Materials, 2021, 9, 041106.	2.2	2
5	Dimensionality-Induced Change in Topological Order in Multiferroic Oxide Superlattices. Physical Review Letters, 2021, 126, 157601.	2.9	12
6	Fabrication of chemically and structurally abrupt <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Eu</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mo>/</mml:mo><mml:mi>SrO</mml:mi><mml:mo>/</mml:mo><mml:mi>Si</mml:mi></mml:mrow></mml:math> interfaces and their analysis by STEM-EELS. Physical Review Materials, 2021, 5, .	0.9	1
7	Site-specific spectroscopic measurement of spin and charge in (LuFeO3)m/(LuFe2O4)1 multiferroic superlattices. Nature Communications, 2020, 11, 5582.	5.8	9
8	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
9	Functional electronic inversion layers at ferroelectric domain walls. Nature Materials, 2017, 16, 622-627.	13.3	127
10	Electron Accumulation and Emergent Magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>LaMnO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> Heterostructures. Physical Review Letters, 2017, 119, 156801.	2.9	63
11	Topological Defects in Hexagonal Manganites: Inner Structure and Emergent Electrostatics. Nano Letters, 2017, 17, 5883-5890.	4.5	56
12	Visualizing weak ferromagnetic domains in multiferroic hexagonal ferrite thin film. Physical Review B, 2017, 95, .	1.1	19
13	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
14	Imaging Local Polarization and Domain Boundaries with Picometer-Precision Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 898-899.	0.2	0
15	Enhanced Electrical Resistivity and Properties via Ion Bombardment of Ferroelectric Thin Films. Advanced Materials, 2016, 28, 10750-10756.	11.1	52
16	Atomically engineered ferroic layers yield a room-temperature magnetoelectric multiferroic. Nature, 2016, 537, 523-527.	13.7	275
17	Imaging Local Polarization and Domain Boundaries in Multiferroic (LuFeO3)m/(LuFe2O4)n Superlattices. Microscopy and Microanalysis, 2015, 21, 1303-1304.	0.2	0
18	Magnetic Structure and Ordering of Multiferroic Hexagonal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>LuFeO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2015, 114, 217602.	2.9	92

#	Article	IF	Citations
19	Controlling band alignments by artificial interface dipoles at perovskite heterointerfaces. Nature Communications, 2015, 6, 6759.	5.8	58
20	Direct band gaps in multiferroic h-LuFeO3. Applied Physics Letters, 2015, 106, 082902.	1.5	39
21	High-quality EuO thin films the easy way via topotactic transformation. Nature Communications, 2015, 6, 7716.	5.8	43
22	Epitaxial growth of VO2 by periodic annealing. Applied Physics Letters, 2014, 104, .	1.5	52
23	Intrinsic magnetic properties of hexagonal LuFeO₃ and the effects of nonstoichiometry. APL Materials, 2014, 2, 012106.	2.2	63
24	Monolithically Integrated Circuits from Functional Oxides. Advanced Materials Interfaces, 2014, 1, 1300031.	1.9	49
25	Oxide Microelectronics: Monolithically Integrated Circuits from Functional Oxides (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	1.9	0
26	Visualizing the interfacial evolution from charge compensation to metallic screening across the manganite metalâ€“insulator transition. Nature Communications, 2014, 5, 3464.	5.8	73
27	Hetero-epitaxial EuO interfaces studied by analytic electron microscopy. Applied Physics Letters, 2014, 104, .	1.5	26
28	Atomically precise interfaces from non-stoichiometric deposition. Nature Communications, 2014, 5, 4530.	5.8	91
29	Exploiting dimensionality and defect mitigation to create tunable microwave dielectrics. Nature, 2013, 502, 532-536.	13.7	204
30	Effect of reduced dimensionality on the optical band gap of SrTiO3. Applied Physics Letters, 2013, 102, .	1.5	52
31	The Open-Source Cornell Spectrum Imager. Microscopy Today, 2013, 21, 40-44.	0.2	7
32	Data Processing for Atomic Resolution Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2012, 18, 667-675.	0.2	103
33	The adsorption-controlled growth of LuFe2O4 by molecular-beam epitaxy. Applied Physics Letters, 2012, 101, .	1.5	38
34	Atomic-resolution chemical imaging of oxygen local bonding environments by electron energy loss spectroscopy. Applied Physics Letters, 2012, 101, 042907.	1.5	39
35	Nanometer-scale epitaxial strain release in perovskite heterostructures using â€œSrAlOxâ€•sliding buffer layers. Applied Physics Letters, 2011, 98, 171901.	1.5	5
36	Atomic-Resolution Electron Spectroscopy of Interfaces and Defects in Complex Oxides. , 0, , 32-32.		0