Andrew O'hara

List of Publications by Year
in descending order

38 papers	844 citations	567281 15 h-index	501196 28 g-index
39 all docs	39 docs citations	39 times ranked	1086 citing authors

#	Article	IF	Citations
1	Unique Features of Polarization in Ferroelectric Ionic Conductors. Advanced Electronic Materials, 2022, 8, 2100810.	5.1	9
2	Ionic Control over Ferroelectricity in 2D Layered van der Waals Capacitors. ACS Applied Materials & Interfaces, 2022, 14, 3018-3026.	8.0	16
3	Emergent interface vibrational structure of oxide superlattices. Nature, 2022, 601, 556-561.	27.8	40
4	Nanoscale Control of Polar Surface Phases in Layered van der Waals CuInP₂S₆. ACS Nano, 2022, 16, 2452-2460.	14.6	12
5	Origin of insulating and nonferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrRuO</mml:mi><mml:mn>3</mml:mn></mml:msub></m monolayers. Physical Review B, 2022, 105, .	3.2	12
6	Tunable, Ferroelectricity-Inducing, Spin-Spiral Magnetic Ordering in Monolayer FeOCl. Nano Letters, 2022, 22, 3598-3603.	9.1	7
7	Preferential hole defect formation in monolayer WSe2 by electron-beam irradiation. Physical Review Materials, 2021, 5, .	2.4	4
8	3-D Full-Band Monte Carlo Simulation of Hot-Electron Energy Distributions in Gate-All-Around Si Nanowire MOSFETs. IEEE Transactions on Electron Devices, 2021, 68, 2556-2563.	3.0	11
9	Defect and Impurity-Complex Depassivation During Electron-Beam Irradiation of GaAs. IEEE Transactions on Nuclear Science, 2021, 68, 1548-1555.	2.0	2
10	Tunable quadruple-well ferroelectric van der Waals crystals. Nature Materials, 2020, 19, 43-48.	27.5	140
11	Total-Ionizing-Dose Effects and Low-Frequency Noise in 16-nm InGaAs FinFETs With HfO₂/Al₂O₃ Dielectrics. IEEE Transactions on Nuclear Science, 2020, 67, 210-220.	2.0	26
12	Piezoelectric domain walls in van der Waals antiferroelectric CuInP2Se6. Nature Communications, 2020, 11, 3623.	12.8	47
13	Local Strain and Polarization Mapping in Ferrielectric Materials. ACS Applied Materials & Interfaces, 2020, 12, 38546-38553.	8.0	14
14	The Concept of Negative Capacitance in Ionically Conductive Van der Waals Ferroelectrics. Advanced Energy Materials, 2020, 10, 2001726.	19.5	30
15	Alignment of Polarization against an Electric Field in van der Waals Ferroelectrics. Physical Review Applied, 2020, 13, .	3.8	34
16	Quantum prediction of ultra-low thermal conductivity in lithium intercalation materials. Nano Energy, 2020, 75, 104916.	16.0	24
17	Detection of defects in atomic-resolution images of materials using cycle analysis. Advanced Structural and Chemical Imaging, 2020, 6, .	4.0	11
18	First-Principles Modeling of Interface Effects in Oxides. , 2020, , 1119-1149.		0

#	Article	IF	Citations
19	First-Principles Modeling of Interface Effects in Oxides. , 2019, , 1-30.		0
20	Total Ionizing Dose Effects and Proton-Induced Displacement Damage on MoS₂-Interlayer-MoS₂Tunneling Junctions. IEEE Transactions on Nuclear Science, 2019, 66, 420-427.	2.0	6
21	Total-Ionizing-Dose Response of MoS₂Transistors With ZrO₂and h-BN Gate Dielectrics. IEEE Transactions on Nuclear Science, 2019, 66, 1584-1591.	2.0	6
22	Atomic-resolution visualization and doping effects of complex structures in intercalated bilayer graphene. Physical Review Materials, 2019, 3, .	2.4	10
23	Defects and Low-Frequency Noise in Irradiated Black Phosphorus MOSFETs With HfO₂ Gate Dielectrics. IEEE Transactions on Nuclear Science, 2018, 65, 1227-1238.	2.0	39
24	Radiation-Induced Charge Trapping and Low-Frequency Noise of Graphene Transistors. IEEE Transactions on Nuclear Science, 2018, 65, 156-163.	2.0	15
25	Transformation of the Anion Sublattice in the Cation-Exchange Synthesis of Au2S from Cu2â€“xS Nanocrystals. Chemistry of Materials, 2018, 30, 8843-8851.	6.7	17
26	Rapid Atomic-Resolution Image Analysis: Towards Near-Instant Feedback. Microscopy and Microanalysis, 2018, 24, 538-539.	0.4	0
27	Theory-assisted determination of nano-rippling and impurities in atomic resolution images of angle-mismatched bilayer graphene. 2D Materials, 2018, 5, 041008.	4.4	5
28	Design of a Hole Trapping Ligand. Nano Letters, 2017, 17, 909-914.	9.1	24
29	Defect-mediated leakage in lithium intercalated bilayer graphene. AIP Advances, 2017, 7, .	1.3	5
30	Contradictory nature of Co doping in ferroelectricBaTiO3. Physical Review B, 2016, 94, .	3.2	8
31	Nature of the metal-insulator transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Nb</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 91, .	3.2	47
32	Electronic and optical properties of NbO2. Journal of Applied Physics, 2014, 116, .	2.5	67
33	Band gap of epitaxial in-plane-dimerized single-phase NbO₂films. Applied Physics Letters, 2014, 104, 092901.	3.3	40
34	Oxygen and nitrogen diffusion in Î±-hafnium from first principles. Applied Physics Letters, 2014, 104, .	3.3	9
35	Assessing hafnium on hafnia as an oxygen getter. Journal of Applied Physics, 2014, 115, .	2.5	37
36	Structural, optical, and electrical properties of strained La-doped SrTiO3 films. Journal of Applied Physics, 2014, 116, .	2.5	53

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37	Monolithic integration of rare-earth oxides and semiconductors for on-silicon technology. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, .	2.1	15
38	Can nitrogen-based cobalt pnictides exist?. Journal of Applied Physics, 2013, 114, 093701.	2.5	0