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	Tunable quadruple-well ferroelectric van der Waals crystals. Nature Materials, 2020, 19, 43-48.	27.5	140
2	Electronic and optical properties of NbO2. Journal of Applied Physics, 2014, 116, .	2.5	67
3	Structural, optical, and electrical properties of strained La-doped SrTiO3 films. Journal of Applied Physics, 2014, 116, .	2.5	53
4	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
5	Piezoelectric domain walls in van der Waals antiferroelectric CuInP2Se6. Nature Communications, 2020, 11, 3623.	12.8	47
6	Band gap of epitaxial in-plane-dimerized single-phase NbO₂films. Applied Physics Letters, 2014, 104, 092901.	3.3	40
7	Emergent interface vibrational structure of oxide superlattices. Nature, 2022, 601, 556-561.	27.8	40
8	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
9	Assessing hafnium on hafnia as an oxygen getter. Journal of Applied Physics, 2014, 115, .	2.5	37
10	Alignment of Polarization against an Electric Field in van der Waals Ferroelectrics. Physical Review Applied, 2020, 13, .	3.8	34
11	The Concept of Negative Capacitance in Ionically Conductive Van der Waals Ferroelectrics. Advanced Energy Materials, 2020, 10, 2001726.	19.5	30
12	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
13	Design of a Hole Trapping Ligand. Nano Letters, 2017, 17, 909-914.	9.1	24
14	Quantum prediction of ultra-low thermal conductivity in lithium intercalation materials. Nano Energy, 2020, 75, 104916.	16.0	24
15	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
16	Ionic Control over Ferroelectricity in 2D Layered van der Waals Capacitors. ACS Applied Materials & Interfaces, 2022, 14, 3018-3026.	8.0	16
17	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
18	Radiation-Induced Charge Trapping and Low-Frequency Noise of Graphene Transistors. IEEE Transactions on Nuclear Science, 2018, 65, 156-163.	2.0	15

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19	Local Strain and Polarization Mapping in Ferrielectric Materials. ACS Applied Materials & Interfaces, 2020, 12, 38546-38553.	8.0	14
20	Nanoscale Control of Polar Surface Phases in Layered van der Waals CuInP₂S₆. ACS Nano, 2022, 16, 2452-2460.	14.6	12
21	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
22	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
23	Detection of defects in atomic-resolution images of materials using cycle analysis. Advanced Structural and Chemical Imaging, 2020, 6, .	4.0	11
24	Atomic-resolution visualization and doping effects of complex structures in intercalated bilayer graphene. Physical Review Materials, 2019, 3, .	2.4	10
25	Oxygen and nitrogen diffusion in Î±-hafnium from first principles. Applied Physics Letters, 2014, 104, .	3.3	9
26	Unique Features of Polarization in Ferroelectric Ionic Conductors. Advanced Electronic Materials, 2022, 8, 2100810.	5.1	9
27	Contradictory nature of Co doping in ferroelectricBaTiO3. Physical Review B, 2016, 94, .	3.2	8
28	Tunable, Ferroelectricity-Inducing, Spin-Spiral Magnetic Ordering in Monolayer FeOCl. Nano Letters, 2022, 22, 3598-3603.	9.1	7
29	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
30	Total-Ionizing-Dose Response of MoS₂Transistors With ZrO₂and h-BN Gate Dielectrics. IEEE Transactions on Nuclear Science, 2019, 66, 1584-1591.	2.0	6
31	Defect-mediated leakage in lithium intercalated bilayer graphene. AIP Advances, 2017, 7, .	1.3	5
32	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
33	Preferential hole defect formation in monolayer WSe2 by electron-beam irradiation. Physical Review Materials, 2021, 5, .	2.4	4
34	Defect and Impurity-Complex Depassivation During Electron-Beam Irradiation of GaAs. IEEE Transactions on Nuclear Science, 2021, 68, 1548-1555.	2.0	2
35	Can nitrogen-based cobalt pnictides exist?. Journal of Applied Physics, 2013, 114, 093701.	2.5	0
36	Rapid Atomic-Resolution Image Analysis: Towards Near-Instant Feedback. Microscopy and Microanalysis, 2018, 24, 538-539.	0.4	0

#	Article	IF	Citations
37	First-Principles Modeling of Interface Effects in Oxides. , 2019, , 1-30.		0
38	First-Principles Modeling of Interface Effects in Oxides. , 2020, , 1119-1149.		0