

Darrell G Schlom

List of Articles by Year in descending order

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2607

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citing authors

#	ARTICLE	IF	CITATIONS
1	Fully Transparent Epitaxial Oxide Thin-Film Transistor Fabricated at Back-Plane Temperature by Suboxide Molecular-Beam Epitaxy. <i>Advanced Electronic Materials</i> , 2025, 11, .	4.9	3
2	Observation of Mobility Above 2000 cm^2/Vs in 2DEG at $\text{LaInO}_3/\text{BaSnO}_3$ Interface by Electric-Double-Layer Gating. <i>Advanced Electronic Materials</i> , 2025, 11, .	4.9	4
3	Symmetry-Based Phenomenological Model for Magnon Transport in a Multiferroic. <i>Physical Review Letters</i> , 2025, 134, .	8.2	6
4	Corroborating the magnetic easy axis of epitaxial (100) Fe -iron and (0001) $\text{BaFe}_{12}\text{O}_{19}$ thin films by 57Fe μ -SR spectroscopy. <i>AIP Advances</i> , 2025, 15, .	1.2	0
5	Energy Relaxation and Dynamics in the Correlated Metal Sr_2RuO_4 via Terahertz Two-Dimensional Coherent Spectroscopy. <i>Physical Review Letters</i> , 2025, 134, .	8.2	6
6	Atomistic Understanding of Hydrogen Coverage on $\text{RuO}_2(110)$ Surface under Electrochemical Conditions from Ab Initio Statistical Thermodynamics. <i>Journal of Physical Chemistry C</i> , 2025, 129, 4043-4051.	3.1	3
7	Magnetic x-ray spectroscopy of Gd-doped EuO thin films. <i>Physical Review Materials</i> , 2025, 9, .	2.7	2
8	Low-energy electrodynamics and a hidden Fermi liquid in the heavy-fermion compound CeCoIn_5 . <i>Physical Review B</i> , 2025, 111, .	3.4	1
9	Unveiling the Interfacial Reconstruction Mechanism Enabling Stable Growth of the Delafossite PdCoO_2 on Al_2O_3 and LaAlO_3 . <i>ACS Applied Materials & Interfaces</i> , 2025, 17, 24620-24629.	8.0	4
10	Morphogenesis of spin cycloids in a noncollinear antiferromagnet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2025, 122, .	7.5	1
11	Superconductivity in the Parent Infinite-Layer Nickelate NdNiO_2 . <i>Physical Review X</i> , 2025, 15, .	11.8	7
12	Achieving 0.05 Ω -mm contact resistance in non-alloyed Ti/Au ohmics to $\text{In}_2\text{-Ga}_2\text{O}_3$ by removing surface carbon. <i>APL Materials</i> , 2025, 13, .	3.6	4
13	Strain-induced superconductivity in $\text{RuO}_2(100)$ thin-films. <i>Communications Materials</i> , 2025, 6, .	8.2	2
14	Anisotropic spin stripe domains in bilayer $\text{La}_3\text{Ni}_2\text{O}_7$. <i>Nature Communications</i> , 2025, 16, .	13.7	10
15	Ab Initio Design of Pb^{2+} -based Ternary Oxides for Phase Stable and Hole Dopable p-type Oxides. <i>Chemistry of Materials</i> , 2024, 36, 742-751.	6.7	4
16	Absence of $3a_0$ charge density wave order in the infinite-layer nickelate NdNiO_2 . <i>Nature Materials</i> , 2024, 23, 486-491.	33.3	54
17	Picosecond volume expansion drives a later-time insulator-to-metal transition in a nano-textured Mott insulator. <i>Nature Physics</i> , 2024, 20, 807-814.	16.0	13
18	In-Operando Spatiotemporal Imaging of Coupled Film-Substrate Elastodynamics During an Insulator-to-Metal Transition. <i>Advanced Materials</i> , 2024, 36, .	24.5	2

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19	Accumulation and removal of Si impurities on $\text{In}^{2-}\text{Ga}_2\text{O}_3$ arising from ambient air exposure. Applied Physics Letters, 2024, 124, .	3.0	17
20	Synthesis of thin film infinite-layer nickelates by atomic hydrogen reduction: Clarifying the role of the capping layer. APL Materials, 2024, 12, .	3.6	18
21	Epitaxial growth of $\text{In}^{1-x}(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$ by suboxide molecular-beam epitaxy at 1 \AA $\mu\text{m}/\text{h}$. APL Materials, 2024, 12, .	3.6	10
22	Over 6 \AA \% MV/cm operation in $\text{In}^{2-}\text{Ga}_2\text{O}_3$ Schottky barrier diodes with IrO_2 and RuO_2 anodes deposited by molecular beam epitaxy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2024, 42, .	1.8	10
23	Imaging of voltage-controlled switching of magnetization in highly magnetostrictive epitaxial Fe^{2+}Ga microstructures. Nanoscale, 2024, 16, 9021-9028.	5.0	3
24	Manipulating chiral spin transport with ferroelectric polarization. Nature Materials, 2024, 23, 898-904.	33.3	41
25	Epitaxial Rare-Earth-Doped Complex Oxide Thin Films for Infrared Applications. ACS Applied Electronic Materials, 2024, 6, 3539-3544.	4.6	4
26	Ultrafast Optically Induced Perturbation of Oxygen Octahedral Rotations in Multiferroic BiFeO_3 Thin Films. Nano Letters, 2024, 24, 6417-6424.	8.7	1
27	Spontaneous Supercrystal Formation During a Strain-Engineered Metal-Insulator Transition. Advanced Materials, 2024, 36, .	24.5	1
28	Magnon interactions in a moderately correlated Mott insulator. Nature Communications, 2024, 15, .	13.7	8
29	3D oxygen vacancy distribution and defect-property relations in an oxide heterostructure. Nature Communications, 2024, 15, .	13.7	7
30	Tuning the electronic and magnetic states of Ca_2RuO_4 with proton evolution. Physical Review Materials, 2024, 8, .	2.7	2
31	Resolving Chemically Driven Charge Ordering in Infinite Layer Nickelates with Multislice Electron Ptychography and 4D-STEM. Microscopy and Microanalysis, 2024, 30, .	0.4	1
32	Designed Spin-Texture Lattice to Control Anisotropic Magnon Transport in Antiferromagnets. Advanced Materials, 2024, 36, .	24.5	11
33	Ellingham diagrams of binary oxides. APL Materials, 2024, 12, .	3.6	23
34	Surface reconstructions and electronic structure of metallic delafossite thin films. APL Materials, 2024, 12, .	3.6	11
35	Controllable suppression of the unconventional superconductivity in bulk and thin-film Sr_2RuO_4 via high-energy electron irradiation. Physical Review Research, 2024, 6, .	4.0	2
36	Adsorption-controlled growth of homoepitaxial c-plane sapphire films. APL Materials, 2024, 12, .	3.6	4

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37	Near infrared to vacuum ultraviolet optical properties of GdScO ₃ . Journal of Applied Physics, 2024, 136, .	2.0	2
38	Local magnetic response of superconducting Sr_2RuO_4 thin films. Physical Review B, 2024, 110, .	3.4	0
39	Route to Enhancing Remote Epitaxy of Perovskite Complex Oxide Thin Films. ACS Nano, 2024, 18, 31225-31233.	15.3	5
40	Colossal Strain Tuning of Ferroelectric Transitions in KNbO ₃ Thin Films. Advanced Materials, 2024, 36, .	24.5	7
41	Tracking Water Dissociation on RuO ₂ (110) Using Atomic Force Microscopy and First-Principles Simulations. Journal of the American Chemical Society, 2024, 146, 32080-32087.	15.0	13
42	In situ etching of $\hat{\Gamma}^2$ -Ga ₂ O ₃ using tert-butyl chloride in an MOCVD system. Applied Physics Letters, 2024, 125, .	3.0	11
43	Amorphous Ta ₂ SnO ₆ : A hole-dopable p-type oxide. Applied Surface Science, 2023, 613, 155981.	6.7	10
44	Nanoscale Surface Structure of Nanometer-Thick Ferroelectric BaTiO ₃ Films Revealed by Synchrotron X-ray Scanning Tunneling Microscopy: Implications for Catalytic Adsorption Reactions. ACS Applied Nano Materials, 2023, 6, 2162-2170.	5.3	5
45	Ilmenite and amorphous SnTiO ₃ as p-type oxide semiconductors. Journal of Materials Chemistry C, 2023, 11, 4830-4836.	5.1	9
46	Molecular beam epitaxy of KTaO ₃ . Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2023, 41, .	1.8	22
47	Epitaxial Na _x CoO ₂ Thin Films via Molecular-Beam Epitaxy and Topotactic Transformation: A Model System for Sodium Intercalation. Journal of Physical Chemistry C, 2023, 127, 6638-6644.	3.1	3
48	Silicon-doped $\hat{\Gamma}^2$ -Ga ₂ O ₃ films grown at 1 Å μ m/h by suboxide molecular-beam epitaxy. APL Materials, 2023, 11, .	3.6	48
49	Battery Management System to Find Accurate Timing. International Journal for Research in Applied Science and Engineering Technology, 2023, 11, 1799-1805.	0.1	0
50	Topological phases in polar oxide nanostructures. Reviews of Modern Physics, 2023, 95, .	40.8	140
51	Why thermal laser epitaxy aluminum sources yield reproducible fluxes in oxidizing environments. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2023, 41, .	1.8	8
52	Employing high-temperature-grown SrZrO ₃ buffer to enhance the electron mobility in La:BaSnO ₃ -based heterostructures. Applied Physics Letters, 2023, 122, .	3.0	5
53	A model heterostructure with engineered Berry curvature. APL Materials, 2023, 11, .	3.6	2
54	Dislocation-Assisted Quasi-Two-Dimensional Semiconducting Nanochannels Embedded in Perovskite Thin Films. Nano Letters, 2023, 23, 5409-5416.	8.7	3

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55	Real-space imaging of periodic nanotextures in thin films via phasing of diffraction data. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	7.5	8
56	Visualizing Polar Distortions and Interface Effects with Multislice Ptychography. Microscopy and Microanalysis, 2023, 29, 1626-1627.	0.4	3
57	Revealing the Short and Long-range Structural Distortions at Nb-doped KTaO ₃ . Microscopy and Microanalysis, 2023, 29, 1728-1730.	0.4	1
58	Electronic nematic order in the normal state of strontium ruthenate. Physical Review B, 2023, 108, .	3.4	3
59	Band gap energy and near infrared to ultraviolet complex optical properties of single crystal TbScO ₃ . Applied Physics Letters, 2023, 123, .	3.0	8
60	Remote epitaxial interaction through graphene. Science Advances, 2023, 9, .	10.9	48
61	Atomically smooth films of CsSb: A chemically robust visible light photocathode. APL Materials, 2023, 11, .	3.6	6
62	Enhanced TC in SrRuO ₃ /DyScO ₃ (110) thin films with high residual resistivity ratio. APL Materials, 2023, 11, .	3.6	2
63	Growth of $\hat{\Gamma}^2$ -Ga ₂ O ₃ and $\hat{\Gamma}^2$ -Ga ₂ O ₃ on AlN(0001) by molecular-beam epitaxy. APL Materials, 2023, 11, .	3.6	27
64	Non-alloyed ohmic contacts to (010) $\hat{\Gamma}^2$ -Ga ₂ O ₃ with low contact resistance. Applied Physics Letters, 2023, 123, .	3.0	8
65	Integration of epitaxial La ₂ /3Sr ₁ /3MnO ₃ thin films on silicon-on-sapphire substrate for MEMS applications. Applied Surface Science, 2022, 579, 152095.	6.7	7
66	Correlation-induced emergent charge order in metallic vanadium dioxide. Physical Review B, 2022, 105, .	3.4	5
67	Liberating a hidden antiferroelectric phase with interfacial electrostatic engineering. Science Advances, 2022, 8, .	10.9	46
68	Interfacial charge transfer and persistent metallicity of ultrathin SrIrO ₃ /SrRuO ₃ heterostructures. Science Advances, 2022, 8, .	10.9	24
69	Growth of Ta ₂ SnO ₆ Films, a Candidate Wide-Band-Gap p-Type Oxide. Journal of Physical Chemistry C, 2022, 126, 3764-3775.	3.1	18
70	Oxide Two-dimensional Electron Gas with High Mobility at Room Temperature. Advanced Science, 2022, 9, .	12.6	21
71	Comparing Thickness and Doping-Induced Effects on the Normal States of Infinite-Layer Electron-Doped Cuprates: Is There Anything to Learn?. Nanomaterials, 2022, 12, 1092.	4.0	1
72	Extending the Kinetic and Thermodynamic Limits of Molecular-Beam Epitaxy Utilizing Suboxide Sources or Metal-Oxide-Catalyzed Epitaxy. Physical Review Applied, 2022, 17, .	3.9	20

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73	Revisiting the Growth of Large (Mg,Zr):SrGa ₂ O ₁₉ Single Crystals: Core Formation and Its Impact on Structural Homogeneity Revealed by Correlative X-ray Imaging. <i>Crystal Growth and Design</i> , 2022, 22, 2557-2568.	3.4	12
74	Single-Crystal Alkali Antimonide Photocathodes: High Efficiency in the Ultrathin Limit. <i>Physical Review Letters</i> , 2022, 128, .	8.2	36
75	Canonical approach to cation flux calibration in oxide molecular-beam epitaxy. <i>Physical Review Materials</i> , 2022, 6, .	2.7	17
76	Disentangling types of lattice disorder impacting superconductivity in Sr ₂ RuO ₄ by quantitative local probes. <i>APL Materials</i> , 2022, 10, .	3.6	11
77	Ferroelectric Modulation of Surface Electronic States in BaTiO ₃ for Enhanced Hydrogen Evolution Activity. <i>Nano Letters</i> , 2022, 22, 4276-4284.	8.7	47
78	Tilted spin current generated by the collinear antiferromagnet ruthenium dioxide. <i>Nature Electronics</i> , 2022, 5, 267-274.	33.3	331
79	Interlayer Engineering of Band Gap and Hole Mobility in p-Type Oxide SnO. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 25670-25679.	8.0	30
80	Normal-State Transport Properties of Infinite-Layer Sr _{1-x} LaxCuO ₂ Electron-Doped Cuprates in Optimal- and Over-Doped Regimes. <i>Nanomaterials</i> , 2022, 12, 1709.	4.0	1
81	Subpicosecond Optical Stress Generation in Multiferroic BiFeO ₃ . <i>Nano Letters</i> , 2022, 22, 4294-4300.	8.7	7
82	Gapped Collective Charge Excitations and Interlayer Hopping in Cuprate Superconductors. <i>Physical Review Letters</i> , 2022, 129, .	8.2	27
83	Synthesis of metastable Ruddlesden-Popper titanates, (ATiO ₃) _n AO, with n ≈ 20 by molecular-beam epitaxy. <i>APL Materials</i> , 2022, 10, .	3.6	10
84	Growth of PdCoO ₂ films with controlled termination by molecular-beam epitaxy and determination of their electronic structure by angle-resolved photoemission spectroscopy. <i>APL Materials</i> , 2022, 10, .	3.6	12
85	Visualization of defects in single-crystal and thin-film PdCoO ₂ using aberration-corrected scanning transmission electron microscopy. <i>Physical Review Materials</i> , 2022, 6, .	2.7	6
86	X-ray nano-imaging of defects in thin film catalysts via cluster analysis. <i>Applied Physics Letters</i> , 2022, 121, .	3.0	7
87	Epitaxial growth of the first two members of the Ba _{n+1} InnO _{2.5n+1} Ruddlesden-Popper homologous series. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, .	1.8	7
88	Strain-induced orbital-energy shift in antiferromagnetic RuO ₂ revealed by resonant elastic x-ray scattering. <i>Physical Review B</i> , 2022, 106, .	3.4	16
89	Epitaxial Synthesis of a Vertically Aligned Two-Dimensional van der Waals Crystal: (110)-Oriented SnO. <i>Crystal Growth and Design</i> , 2022, 22, 7248-7254.	3.4	1
90	Non-volatile electric-field control of inversion symmetry. <i>Nature Materials</i> , 2022, 22, 207-215.	33.3	41

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91	Atomic-Scale Mapping and Quantification of Local Ruddlesden-Popper Phase Variations. Nano Letters, 2022, 22, 10095-10101.	8.7	11
92	First Principles Design of High Hole Mobility p-Type Sn ²⁺ Ternary Oxides: Valence Orbital Engineering of Sn ²⁺ in Sn ²⁺ by Selection of Appropriate Elements X. Chemistry of Materials, 2021, 33, 212-225.	6.7	42
93	Amorphization mechanism of SrIrO ₃ electrocatalyst: How oxygen redox initiates ionic diffusion and structural reorganization. Science Advances, 2021, 7, .	10.9	200
94	Crystal orientation dictated epitaxy of ultrawide-bandgap 5.4- to 8.6-eV Γ - Γ -(AlGa)O ₃ on m-plane sapphire. Science Advances, 2021, 7, .	10.9	123
95	Strain-stabilized superconductivity. Nature Communications, 2021, 12, .	13.7	97
96	Improved control of atomic layering in perovskite-related homologous series. APL Materials, 2021, 9, .	3.6	24
97	a-axis YBa ₂ Cu ₃ O _{7-x} /PrBa ₂ Cu ₃ O _{7-x} /YBa ₂ Cu ₃ O _{7-x} trilayers with subnanometer rms roughness. APL Materials, 2021, 9, .	3.6	10
98	Epitaxial Ferroelectric Hf _{0.5} Zr _{0.5} O ₂ with Metallic Pyrochlore Oxide Electrodes. Advanced Materials, 2021, 33, .	24.5	41
99	Structural Phase Transitions of NbO ₂ : Bulk versus Surface. Chemistry of Materials, 2021, 33, 1416-1425.	6.7	26
100	Digital Tuning of the Transition Temperature of Epitaxial VO ₂ Thin Films on MgF ₂ Substrates by Strain Engineering. Advanced Materials Interfaces, 2021, 8, .	4.0	24
101	Adsorption-controlled growth of Ga ₂ O ₃ by suboxide molecular-beam epitaxy. APL Materials, 2021, 9, .	3.6	66
102	Utilizing complex oxide substrates to control carrier concentration in large-area monolayer MoS ₂ films. Applied Physics Letters, 2021, 118, .	3.0	23
103	Thermal conductivity of the n=5 and 10 members of the (SrTiO ₃) _n SrO Ruddlesden-Popper superlattices. Applied Physics Letters, 2021, 118, .	3.0	13
104	DyFe ₂ O ₄ : A new trigonal rare-earth ferrite grown by molecular-beam epitaxy. APL Materials, 2021, 9, 041106.	3.6	3
105	Dimensionality-Induced Change in Topological Order in Multiferroic Oxide Superlattices. Physical Review Letters, 2021, 126, .	8.2	21
106	Engineering new limits to magnetostriction through metastability in iron-gallium alloys. Nature Communications, 2021, 12, .	13.7	39
107	Epitaxial stannate pyrochlore thin films: Limitations of cation stoichiometry and electron doping. APL Materials, 2021, 9, .	3.6	10
108	Separated transport relaxation scales and interband scattering in thin films of SrRuO ₃ , CaRuO ₃ , and Sr ₂ RuO ₄ . Physical Review B, 2021, 103, .	3.4	10

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109	Epitaxial Thin-Film Spinel Oxides as Oxygen Reduction Electrocatalysts in Alkaline Media. <i>Chemistry of Materials</i> , 2021, 33, 4006-4013.	6.7	17
110	Electromechanical Manipulation of Topological Defects to Yield Giant Piezoelectric Response in Epitaxial Lead Zirconate Titanate Bilayers on Silicon. <i>Advanced Electronic Materials</i> , 2021, 7, .	4.9	5
111	Interfacial Electron-Phonon Coupling Constants Extracted from Intrinsic Replica Bands in Monolayer FeSe/SrTiO ₃ . <i>Physical Review Letters</i> , 2021, 127, .	8.2	20
112	Impact of 2D-3D Heterointerface on Remote Epitaxial Interaction through Graphene. <i>ACS Nano</i> , 2021, 15, 10587-10596.	15.3	92
113	Incoherent Cooper Pairing and Pseudogap Behavior in Single-Layer FeSe/SrTiO ₃ . <i>Physical Review X</i> , 2021, 11, .	11.8	46
114	Role of V-V dimers on structural, electronic, magnetic, and vibrational properties of VO ₂ by first-principles simulations and Raman spectroscopic analysis. <i>Physical Review B</i> , 2021, 103, .	3.4	23
115	Quantum oscillations and quasiparticle properties of thin film Sr ₂ RuO ₄ . <i>Physical Review B</i> , 2021, 104, .	3.4	7
116	An Ising Hamiltonian solver based on coupled stochastic phase-transition nano-oscillators. <i>Nature Electronics</i> , 2021, 4, 502-512.	33.3	139
117	Thermal stability of epitaxial $\text{In}_x\text{Ga}_{1-x}\text{O}_3$ and (Al,Ga) ₂ O ₃ layers on m-plane sapphire. <i>Applied Physics Letters</i> , 2021, 119, .	3.0	61
118	Mechanical reading of ferroelectric polarization. <i>Journal of Applied Physics</i> , 2021, 130, .	2.0	19
119	Deconvolution of Phonon Scattering by Ferroelectric Domain Walls and Point Defects in a PbTiO ₃ Thin Film Deposited in a Composition-Spread Geometry. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45679-45685.	8.0	8
120	THz electrodynamics of mixed-valent YbAl ₃ and LuAl ₃ thin films. <i>European Physical Journal B</i> , 2021, 94, .	1.6	1
121	Stromataxic Stabilization of a Metastable Layered ScFeO ₃ Polymorph. <i>Chemistry of Materials</i> , 2021, 33, 7423-7431.	6.7	9
122	Optical transient grating pumped X-ray diffraction microscopy for studying mesoscale structural dynamics. <i>Scientific Reports</i> , 2021, 11, .	3.4	11
123	Single-defect phonons imaged by electron microscopy. <i>Nature</i> , 2021, 589, 65-69.	37.9	170
124	Electro-thermal and optical characterization of an uncooled suspended bolometer based on an epitaxial La _{0.7} Sr _{0.3} MnO	2.9	9
125	Direct observation of polarization-induced two-dimensional electron/hole gases at ferroelectric-insulator interface. <i>Npj Quantum Materials</i> , 2021, 6, .	6.0	11
126	Deep level defect spectroscopies of complex oxide surfaces and interfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	1.8	5

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127	Microscopic piezoelectric behavior of clamped and membrane (001) PMN-30PT thin films. Applied Physics Letters, 2021, 119, .	3.0	10
128	Fabrication of chemically and structurally abrupt $\text{Eu}_{1-x}\text{La}_x\text{O}/\text{SrO}/\text{Si}$ interfaces and their analysis by STEM-EELS. Physical Review Materials, 2021, 5, .	2.7	2
129	Domain structure of epitaxial PbTiO_3 films grown on vicinal (001) SrTiO_3 . Journal of Materials Research, 2020, 12, 1297-1305.	2.5	6
130	REScO_3 Substrates as Purveyors of Strain Engineering. Crystal Research and Technology, 2020, 55, .	1.7	2
131	Growth of CuFeO_2 single crystals by the optical floating-zone technique. Journal of Crystal Growth, 2020, 532, 125426.	1.9	19
132	Light-Induced Currents at Domain Walls in Multiferroic BiFeO_3 . Nano Letters, 2020, 20, 145-151.	8.7	44
133	Mechanical Softness of Ferroelectric 180° Domain Walls. Physical Review X, 2020, 10, .	11.8	14
134	Breakdown of the Small Polaron Hopping Model in Higher Order Spinels. Advanced Materials, 2020, 32, .	24.5	39
135	Realization of Epitaxial Thin Films of the Topological Crystalline Insulator Sr_3SnO . Advanced Materials, 2020, 32, .	24.5	22
136	Effects of Anisotropic Strain on Spin-Orbit Torque Produced by the Dirac Nodal Line Semimetal IrO_2 . ACS Applied Materials & Interfaces, 2020, 12, 55411-55416.	8.0	49
137	Subterahertz Momentum Drag and Violation of Matthiessen's Rule in an Ultraclean Ferromagnetic SrRuO_3 Metallic Thin Film. Physical Review Letters, 2020, 125, .	8.2	9
138	Site-specific spectroscopic measurement of spin and charge in $(\text{LuFeO}_3)_m/(\text{LuFe}_2\text{O}_4)_1$ multiferroic superlattices. Nature Communications, 2020, 11, .	13.7	16
139	Strain relaxation induced transverse resistivity anomalies in SrRuO_3 thin films. Physical Review B, 2020, 102, .	3.4	17
140	Control of polymorphism during epitaxial growth of hyperferroelectric candidate LiZnSb on $\text{GaSb}(111)\text{B}$. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, .	1.0	9
141	Making EuO multiferroic by epitaxial strain engineering. Communications Materials, 2020, 1, .	8.2	30
142	Directly measuring the structural transition pathways of strain-engineered VO_2 thin films. Nanoscale, 2020, 12, 18857-18863.	5.0	34
143	Suitability of binary oxides for molecular-beam epitaxy source materials: A comprehensive thermodynamic analysis. APL Materials, 2020, 8, .	3.6	55
144	Defect accommodation in off-stoichiometric $(\text{SrTiO}_3)_n\text{SrO}$ Ruddlesden-Popper superlattices studied with positron annihilation spectroscopy. Applied Physics Letters, 2020, 117, .	3.0	12

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145	Electronic nematicity in Sr ₂ RuO ₄ . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10654-10659.	7.5	23
146	Simultaneous Structural and Electronic Transitions in Epitaxial VO ₂ /TiO ₂ (001). Physical Review Letters, 2020, 124, .	8.2	46
147	Multiferroic behavior in EuTiO ₃ films constrained by symmetry. Physical Review B, 2020, 101, .	3.4	5
148	Spin-orbit torque field-effect transistor (SOTFET): Proposal for a magnetoelectric memory. Applied Physics Letters, 2020, 116, .	3.0	11
149	Multiferroic LuFeO ₃ on GaN by molecular-beam epitaxy. Applied Physics Letters, 2020, 116, .	3.0	10
150	Enthalpy and entropy of oxygen electroadsorption on RuO ₂ (110) in alkaline media. Journal of Chemical Physics, 2020, 152, .	2.8	18
151	The exit-wave power-spectrum transform for scanning nanobeam electron diffraction: robust strain mapping at subnanometer resolution and subpicometer precision. Ultramicroscopy, 2020, 214, 112994.	2.1	76
152	Czochralski growth and characterization of perovskite-type (La,Nd)(Lu,Sc)O ₃ single crystals with a pseudocubic lattice parameter of about 4.09Å.... Journal of Crystal Growth, 2020, 536, 125526.	1.9	5
153	Mott gap collapse in lightly hole-doped Sr _{2-x} K _x IrO ₄ . Nature Communications, 2020, 11, .	13.7	16
154	Fully transparent field-effect transistor with high drain current and on-off ratio. APL Materials, 2020, 8, .	3.6	29
155	Defect-Enhanced Polarization Switching in the Improper Ferroelectric LuFeO ₃ . Advanced Materials, 2020, 32, .	24.5	34
156	Local Photothermal Control of Phase Transitions for On-Demand Room-Temperature Rewritable Magnetic Patterning. Advanced Materials, 2020, 32, .	24.5	17
157	Strain-Engineered Ferroelastic Structures in PbTiO ₃ Films and Their Control by Electric Fields. ACS Applied Materials & Interfaces, 2020, 12, 20691-20703.	8.0	19
158	Heterogeneous integration of single-crystalline complex-oxide membranes. Nature, 2020, 578, 75-81.	37.9	326
159	Inhomogeneous ferromagnetism mimics signatures of the topological Hall effect in SrRuO ₃ films. Physical Review Materials, 2020, 4, .	2.7	32
160	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, .	2.7	10
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