Ho Nyung Lee

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3439435/publications.pdf

Version: 2024-02-01

240	10,492	36203	40881
papers	citations	51 h-index	93 g-index

250	250	250	11609
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Strong polarization enhancement in asymmetric three-component ferroelectric superlattices. Nature, 2005, 433, 395-399.	13.7	627
2	Ferroelectric Bi3.25La0.75Ti3O12 Films of Uniform a-Axis Orientation on Silicon Substrates. Science, 2002, 296, 2006-2009.	6.0	518
3	Reversible redox reactions in an epitaxially stabilized SrCoOx oxygen sponge. Nature Materials, 2013, 12, 1057-1063.	13.3	349
4	Enhanced Bifunctional Oxygen Catalysis in Strained LaNiO₃ Perovskites. Journal of the American Chemical Society, 2016, 138, 2488-2491.	6.6	310
5	Wide bandgap tunability in complex transition metal oxides by site-specific substitution. Nature Communications, 2012, 3, 689.	5.8	237
6	Enhancing Perovskite Electrocatalysis through Strain Tuning of the Oxygen Deficiency. Journal of the American Chemical Society, 2016, 138, 7252-7255.	6.6	214
7	Topotactic Phase Transformation of the Brownmillerite SrCoO_{2.5} to the Perovskite SrCoO_{3â€“}_{Î´}. Advanced Materials, 2013, 25, 3651-3656.	11.1	208
8	Taming interfacial electronic properties of platinum nanoparticles on vacancy-abundant boron nitride nanosheets for enhanced catalysis. Nature Communications, 2017, 8, 15291.	5.8	200
9	Strain Control of Oxygen Vacancies in Epitaxial Strontium Cobaltite Films. Advanced Functional Materials, 2016, 26, 1564-1570.	7.8	199
10	Room-Temperature Multiferroic Hexagonal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LuFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Films. Physical Review Letters, 2013, 110, 237601.	2.9	195
11	Quantitative mapping of switching behavior in piezoresponse force microscopy. Review of Scientific Instruments, 2006, 77, 073702.	0.6	193
12	Strain-Induced Spin States in Atomically Ordered Cobaltites. Nano Letters, 2012, 12, 4966-4970.	4.5	160
13	Nonlinear Dynamics of Domain-Wall Propagation in Epitaxial Ferroelectric Thin Films. Physical Review Letters, 2009, 102, 045701.	2.9	155
14	Role of Strain and Conductivity in Oxygen Electrocatalysis on LaCoO₃ Thin Films. Journal of Physical Chemistry Letters, 2015, 6, 487-492.	2.1	152
15	Suppressed Dependence of Polarization on Epitaxial Strain in Highly Polar Ferroelectrics. Physical Review Letters, 2007, 98, 217602.	2.9	146
16	Atomic-Scale Compensation Phenomena at Polar Interfaces. Physical Review Letters, 2010, 105, 197602.	2.9	146
17	Nonlinear Hall effect and multichannel conduction in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow><mml:mtext>LaTiO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2010, 82, .	1.1	144
18	Effect of epitaxial strain on ferroelectric polarization in multiferroic BiFeO3 films. Applied Physics Letters, 2008, 92, .	1.5	137

#	Article	IF	Citations
19	Observation of Unconventional Charge Density Wave without Acoustic Phonon Anomaly in Kagome Superconductors <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>A</mml:mi><mml:mi mathvariant="normal">V</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow><mm:n		

#	Article	IF	Citations
37	Reversal of the Lattice Structure in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrCoO</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:math>Epitaxial Thin Films Studied by Real-Time Optical Spectroscopy and First-Principles Calculations. Physical Review Letters, 2013, 111, 097401.	2.9	73
38	Antiferroelectricity in multiferroic BiCrO3 epitaxial films. Applied Physics Letters, 2006, 89, 162904.	1.5	72
39	Thermal stability of epitaxial SrRuO3 films as a function of oxygen pressure. Applied Physics Letters, 2004, 84, 4107-4109.	1.5	71
40	Spatial resolution, information limit, and contrast transfer in piezoresponse force microscopy. Nanotechnology, 2006, 17, 3400-3411.	1.3	71
41	Measurement of optical functions of highly oriented pyrolytic graphite in the visible. Physical Review B, 2007, 76, .	1.1	70
42	Optical Study of the Free-Carrier Response of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml: Physical Review Letters, 2007, 99, 266801.	2.9	64
43	Oxygen diffusion pathways in brownmillerite SrCoO2.5: Influence of structure and chemical potential. Journal of Chemical Physics, 2014, 141, 084710.	1.2	64
44	Growth control of the oxidation state in vanadium oxide thin films. Applied Physics Letters, 2014, 105, .	1.5	61
45	Strain coupling of oxygen non-stoichiometry in perovskite thin films. Journal of Physics Condensed Matter, 2017, 29, 493001.	0.7	60
46	Domain wall motion in epitaxial Pb(Zr,Ti)O3 capacitors investigated by modified piezoresponse force microscopy. Applied Physics Letters, 2008, 92, .	1.5	59
47	Surface stability of epitaxial SrRuO3 films. Surface Science, 2005, 581, 118-132.	0.8	58
48	Large ferroelectric polarization in antiferromagnetic BiFe0.5Cr0.5O3 epitaxial films. Applied Physics Letters, 2007, 91, .	1.5	56
49	Charge transport and magnetization profile at the interface between the correlated metal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CaRuO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml: the antiferromagnetic insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CaMnO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml: Physical Review B, 2010, 81.	1.1	54
50	Kinetics of Oxygen Surface Exchange on Epitaxial Ruddlesdenâ€“Popper Phases and Correlations to First-Principles Descriptors. Journal of Physical Chemistry Letters, 2016, 7, 244-249.	2.1	54
51	Charge Transfer in Iridate-Manganite Superlattices. Nano Letters, 2017, 17, 2126-2130.	4.5	53
52	Active control of magnetoresistance of organic spin valves using ferroelectricity. Nature Communications, 2014, 5, 4396.	5.8	51
53	Comparison of memory effect between YMnO3 and SrBi2Ta2O9 ferroelectric thin films deposited on Si substrates. Applied Physics Letters, 2000, 76, 1066-1068.	1.5	50
54	Nonlinear Piezoelectricity in Epitaxial Ferroelectrics at High Electric Fields. Physical Review Letters, 2008, 100, 027604.	2.9	50

#	Article	IF	Citations
55	Controlling Octahedral Rotations in a Perovskite via Strain Doping. Scientific Reports, 2016, 6, 26491.	1.6	50
56	Interfacial tuning of chiral magnetic interactions for large topological Hall effects in LaMnO ₃ /SrIrO ₃ heterostructures. Science Advances, 2020, 6, eaaz3902.	4.7	50
57	An improved continuous compositional-spread technique based on pulsed-laser deposition and applicable to large substrate areas. Review of Scientific Instruments, 2003, 74, 4058-4062.	0.6	49
58	Atomic Layer Engineering of Perovskite Oxides for Chemically Sharp Heterointerfaces. Advanced Materials, 2012, 24, 6423-6428.	11.1	49
59	Initial growth stages of epitaxial BaTiO[sub 3] films on vicinal SrTiO[sub 3] (001) substrate surfaces. Journal of Applied Physics, 2002, 91, 10157.	1.1	48
60	Nanoscale ferroelastic twins formed in strained LaCoO ₃ films. Science Advances, 2019, 5, eaav5050.	4.7	48
61	Memory window of highly c-axis oriented ferroelectric YMnO3 thin films. Applied Physics Letters, 1999, 74, 3887-3889.	1.5	47
62	Local electronic and magnetic studies of an artificial La2FeCrO6 double perovskite. Applied Physics Letters, 2010, 97, 013105.	1.5	47
63	Octahedral rotations in strained LaAlO3/SrTiO3 (001) heterostructures. APL Materials, 2014, 2, 021102.	2.2	47
64	Electronic structure and insulating gap in epitaxial VO2 polymorphs. APL Materials, 2015, 3, .	2.2	47
65	Geometry of the charge density wave in the kagome metal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi><mml:msub><mml:mrow><mml:mi mathvariant="normal">V</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi>Sb</mml:mi> Physical Review B, 2021, 104, .	1.1	47
66	Electrochemically Triggered Metalâ€“Insulator Transition between VO₂ and V₂O₅. Advanced Functional Materials, 2018, 28, 1803024.	7.8	46
67	Resonant tunnelling in a quantum oxide superlattice. Nature Communications, 2015, 6, 7424.	5.8	44
68	Characteristics of Metal/Ferroelectric/Insulator/Semiconductor Field Effect Transistors Using a Pt/SrBi2Ta2O9/Y2O3/Si Structure. Japanese Journal of Applied Physics, 1998, 37, 1107-1109.	0.8	43
69	Oxygen-Vacancy-Induced Orbital Reconstruction of Ti Ions at the Interface of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:m A Resonant Soft-X-Ray Scattering Study. Physical Review Letters, 2013, 110, 017401.	2.9	43
70	Effects of oxygen-reducing atmosphere annealing on LaMnO₃epitaxial thin films. Journal Physics D: Applied Physics, 2009, 42, 165401.	1.3	41
71	Charge states and magnetic ordering in LaMnO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>/SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow	1.1	41
72	Direct observation of asymmetric domain wall motion in a ferroelectric capacitor. Acta Materialia, 2013, 61, 6765-6777.	3.8	41

#	Article	IF	Citations
73	Persistent Electrochemical Performance in Epitaxial VO₂(B). Nano Letters, 2017, 17, 2229-2233.	4.5	41
74	Nanoscale Control of Oxygen Defects and Metalâ€“Insulator Transition in Epitaxial Vanadium Dioxides. ACS Nano, 2018, 12, 7159-7166.	7.3	41
75	Oxygen Diode Formed in Nickelate Heterostructures by Chemical Potential Mismatch. Advanced Materials, 2018, 30, e1705904.	11.1	40
76	Colossal oxygen vacancy formation at a fluorite-bixbyite interface. Nature Communications, 2020, 11, 1371.	5.8	39
77	Growth and characterization of non-c-oriented epitaxial ferroelectric SrBi2Ta2O9 films on buffered Si(100). Applied Physics Letters, 2000, 77, 3260-3262.	1.5	38
78	High-Resolution Field Effect Sensing of Ferroelectric Charges. Nano Letters, 2011, 11, 1428-1433.	4.5	38
79	Band gap tuning in ferroelectric Bi4Ti3O12 by alloying with LaTMO3 (TMâ€‰=â€‰Ti, V, Cr, Mn, Co.) Tj ETQq1 1 0.784	1.5	38
80	Stretching Epitaxial La_{0.6}Sr_{0.4}CoO_{3â^'Î´} for Fast Oxygen Reduction. Journal of Physical Chemistry C, 2017, 121, 25651-25658.	1.5	38
81	Strain control of oxygen kinetics in the Ruddlesden-Popper oxide La1.85Sr0.15CuO4. Nature Communications, 2018, 9, 92.	5.8	38
82	Violet/blue light-emitting cerium silicates. Applied Physics Letters, 1999, 75, 2389-2391.	1.5	37
83	Large orbital polarization in nickelate-cuprate heterostructures by dimensional control of oxygen coordination. Nature Communications, 2019, 10, 589.	5.8	37
84	Determination of ferroelectric contributions to electromechanical response by frequency dependent piezoresponse force microscopy. Scientific Reports, 2016, 6, 30579.	1.6	37
85	Fractionally Î´-Doped Oxide Superlattices for Higher Carrier Mobilities. Nano Letters, 2012, 12, 4590-4594.	4.5	36
86	Growth control of stoichiometry in LaMnO3 epitaxial thin films by pulsed laser deposition. Journal of Crystal Growth, 2010, 312, 2923-2927.	0.7	35
87	Growth of metallic delafossite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>PdCo</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> by molecular beam epitaxy. Physical Review Materials, 2019, 3, .	0.9	35
88	Enhancing interfacial magnetization with a ferroelectric. Physical Review B, 2016, 94, .	1.1	34
89	Growth of uniformly a-axis-oriented ferroelectric lanthanum-substituted bismuth titanate films on silicon substrates. Journal of Applied Physics, 2003, 93, 5592-5601.	1.1	33
90	Ferroelectric-like hysteresis loop originated from non-ferroelectric effects. Applied Physics Letters, 2016, 109, .	1.5	32

#	Article	IF	Citations
91	Dynamics of Step Bunching in Heteroepitaxial Growth on Vicinal Substrates. Physical Review Letters, 2007, 99, 055503.	2.9	31
92	Strain-relaxation and critical thickness of epitaxial La1.85Sr0.15CuO4 films. APL Materials, 2015, 3, .	2.2	31
93	Design Synthesis of Nitrogen-Doped TiO₂@Carbon Nanosheets toward Selective Nitroaromatics Reduction under Mild Conditions. ACS Catalysis, 2017, 7, 6991-6998.	5.5	31
94	Epitaxial growth of (103)-oriented ferroelectric SrBi2Ta2O9 thin films on Si(100). Applied Physics Letters, 2001, 78, 2922-2924.	1.5	29
95	Strongly coupled phase transition in ferroelectric/correlated electron oxide heterostructures. Applied Physics Letters, 2012, 101, 042902.	1.5	29
96	Near-Ambient Pressure XPS of High-Temperature Surface Chemistry in Sr2Co2O5 Thin Films. Topics in Catalysis, 2016, 59, 574-582.	1.3	29
97	Spatially Resolved Large Magnetization in Ultrathin BiFeO₃. Advanced Materials, 2017, 29, 1700790.	11.1	29
98	Effects of Morphological Changes of Pt/SrBi2Ta2O9Interface on the Electrical Properties of Ferroelectric Capacitor. Japanese Journal of Applied Physics, 1998, 37, 5189-5191.	0.8	28
99	Piezoelectricity in the Dielectric Component of Nanoscale Dielectric-Ferroelectric Superlattices. Physical Review Letters, 2010, 104, 207601.	2.9	28
100	Dimensionality Control of d-orbital Occupation in Oxide Superlattices. Scientific Reports, 2014, 4, 6124.	1.6	28
101	Reversible Control of Interfacial Magnetism through Ionic-Liquid-Assisted Polarization Switching. Nano Letters, 2017, 17, 1665-1669.	4.5	28
102	Room-temperature relaxor ferroelectricity and photovoltaic effects in tin titanate directly deposited on a silicon substrate. Physical Review B, 2018, 97, .	1.1	28
103	Electronic structure of negative charge transfer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CaFeO</mml:mi><mml:mn>3</mml:mn></mml:msub> across the metal-insulator transition. Physical Review Materials, 2018, 2, .	0.9	28
104	Switchable orbital polarization and magnetization in strained <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LaCo</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> films. Physical Review Materials, 2019, 3, .	0.9	28
105	Thermopower Enhancement by Fractional Layer Control in 2D Oxide Superlattices. Advanced Materials, 2014, 26, 6701-6705.	11.1	27
106	Surface Control of Epitaxial Manganite Films via Oxygen Pressure. ACS Nano, 2015, 9, 4316-4327.	7.3	27
107	Exploiting Symmetry Mismatch to Control Magnetism in a Ferroelastic Heterostructure. Physical Review Letters, 2019, 122, 187202.	2.9	27
108	Orientation Control of Interfacial Magnetism at La_{0.67}Sr_{0.33}MnO₃/SrTiO₃ Interfaces. ACS Applied Materials & Interfaces, 2017, 9, 19307-19312.	4.0	26

#	Article	IF	Citations
109	Temporal and thermal evolutions of surface Sr-segregation in pristine and atomic layer deposition modified La_{0.6}Sr_{0.4}CoO_{3â˜Î´} epitaxial films. Journal of Materials Chemistry A, 2018, 6, 24378-24388.	5.2	26
110	Thickness and strain dependence of piezoelectric coefficient in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m thin films. Physical Review Materials, 2020, 4, .	3.1	26
111	Pulsed-laser epitaxy of metallic delafossite PdCrO2 films. APL Materials, 2020, 8, .	2.2	25
112	Epitaxial Growth of Intermetallic MnPt Films on Oxides and Large Exchange Bias. Advanced Materials, 2016, 28, 118-123.	11.1	24
113	Pulsed-laser epitaxy of topological insulator Bi2Te3 thin films. APL Materials, 2019, 7, .	2.2	24
114	Metalâ€“insulator transition tuned by oxygen vacancy migration across TiO2/VO2 interface. Scientific Reports, 2020, 10, 18554.	1.6	24
115	Strain-coupled ferroelectric polarization in BaTiO3â€“CaTiO3 superlattices. Applied Physics Letters, 2009, 94, .	1.5	23
116	Nanocone Tipâ€“Film Solar Cells with Efficient Charge Transport. Advanced Materials, 2011, 23, 4381-4385.	11.1	23
117	Symmetryâ€Driven Atomic Rearrangement at a Brownmilleriteâ€“Perovskite Interface. Advanced Electronic Materials, 2016, 2, 1500201.	2.6	23
118	Valence-state reflectometry of complex oxide heterointerfaces. Npj Quantum Materials, 2016, 1, .	1.8	23
119	Direct Probing of Polarization Charge at Nanoscale Level. Advanced Materials, 2018, 30, 1703675.	11.1	23
120	Effect of strain on structure and charge order transitions in epitaxial Bi0.4Ca0.6MnO3 films on perovskite (001) and (011) substrates. Applied Physics Letters, 2006, 88, 202503.	1.5	22
121	Fabrication and Characterization of Pt-Oxide Electrode for Ferroelectric Random Access Memory Application. Japanese Journal of Applied Physics, 2000, 39, 7097-7099.	0.8	21
122	Ferroelectricity in Artificial Bicolor Oxide Superlattices. Advanced Materials, 2007, 19, 2460-2464.	11.1	21
123	Removal of the Magnetic Dead Layer by Geometric Design. Advanced Functional Materials, 2018, 28, 1800922.	7.8	21
124	Roomâ€Temperature Ferromagnetic Insulating State in Cationâ€Ordered Doubleâ€Perovskite Sr₂Fe₁₊_xRe_{1â˜}_xO₆Films. Advanced Materials, 2019, 31, e1805389.	11.1	21
125	Epitaxial growth of ferroelectric SrBi2Ta2O9 thin films of mixed (100) and (116) orientation on SrLaGaO4(110). Applied Physics Letters, 2001, 79, 2961-2963.	1.5	20
126	Giant phonon anomalies in the proximate Kitaev quantum spin liquid Î±-RuCl3. Nature Communications, 2021, 12, 3513.	5.8	20

#	Article	IF	Citations
127	LaMnO3 Thin Films Grown by Using Pulsed Laser Deposition and Their Simple Recovery to a Stoichiometric Phase by Annealing. Journal of the Korean Physical Society, 2011, 58, 569-574.	0.3	20
128	Insight into the Selectivity of Isopropanol Conversion at Strontium Titanate (100) Surfaces: A Combination Kinetic and Spectroscopic Study. ACS Catalysis, 2017, 7, 8118-8129.	5.5	19
129	Correlated oxide Dirac semimetal in the extreme quantum limit. Science Advances, 2021, 7, eabf9631.	4.7	19
130	Tuning the interfacial spin-orbit coupling with ferroelectricity. Nature Communications, 2020, 11, 2627.	5.8	19
131	Electrical Properties of Pt/SrBi2Ta2O9/CeO2/SiO2/Si Structure for Nondestructive Readout Memory. Japanese Journal of Applied Physics, 1998, 37, 4373-4376.	0.8	18
132	Enhanced metallic properties of SrRuO3 thin films via kinetically controlled pulsed laser epitaxy. Applied Physics Letters, 2016, 109, .	1.5	18
133	Nanoscale self-templating for oxide epitaxy with large symmetry mismatch. Scientific Reports, 2016, 6, 38168.	1.6	18
134	Absolute Molecular Orientation of Isopropanol at Ceria (100) Surfaces: Insight into Catalytic Selectivity from the Interfacial Structure. Journal of Physical Chemistry C, 2017, 121, 14137-14146.	1.5	18
135	CO₂ Reactivity on Cobalt-Based Perovskites. Journal of Physical Chemistry C, 2018, 122, 20391-20401.	1.5	18
136	Strain tuning of electronic structure in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant	1.1	17
137	Structural instability of the CoO4 tetrahedral chain in SrCoO3â^Î´ thin films. Journal of Applied Physics, 2015, 118, .	1.1	17
138	Dynamic Scaling and Island Growth Kinetics in Pulsed Laser Deposition of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SrTiO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></ Physical Review Letters, 2016, 117, 206102.	2.9	17
139	Luminescence from the Thermally Treated Cerium Oxide on Silicon. Japanese Journal of Applied Physics, 1999, 38, 6392-6393.	0.8	16
140	Directional Solidification of TiAl-based Alloys and Properties of Directionally Solidified Ingots. Advanced Engineering Materials, 2001, 3, 391-394.	1.6	16
141	Stability of the unswitched polarization state of ultrathin epitaxial<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Pb</mml:mtext><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mtext>Zr</mml: large electric fields. Physical Review B, 2009, 80, .	1.1	16
142	Stabilization of Highly Polar<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>BiFeO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></ Structure: A New Interface Design Route for Enhanced Ferroelectricity in Artificial Perovskite Superlattices. Physical Review X, 2016, 6, .	2.8	16
143	Doped NiO: The mottness of a charge transfer insulator. Physical Review B, 2020, 101, .	1.1	16
144	High rectification and photovoltaic effect in oxide nano-junctions. New Journal of Physics, 2012, 14, 093056.	1.2	15

#	Article	IF	Citations
145	Metal-insulator transition in (111) SrRuO₃ ultrathin films. APL Materials, 2019, 7, 091106.	2.2	15
146	Strain-Induced Atomic-Scale Building Blocks for Ferromagnetism in Epitaxial LaCoO₃. Nano Letters, 2021, 21, 4006-4012.	4.5	15
147	Adsorption-controlled growth of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>MnTe</mml:mi><mml:msub><mml:mrow><mml:mo>(by molecular beam epitaxy exhibiting stoichiometry-controlled magnetism. Physical Review Materials, 2020, 4, .	0.9	15
148	Surface stability of epitaxial SrRuO3 thin films in vacuum. Journal of Materials Research, 2004, 19, 3447-3450.	1.2	14
149	Structural evolution of epitaxial SrCoOx films near topotactic phase transition. AIP Advances, 2015, 5, .	0.6	14
150	Selfâ€Assembled Room Temperature Multiferroic BiFeO₃â€“LiFe₅O₈ Nanocomposites. Advanced Functional Materials, 2020, 30, 1906849.	7.8	14
151	Post-synthesis control of Berry phase driven magnetotransport in <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> films. Physical Review B, 2021, 103, .	1.1	14
152	Ground-state and spin-wave dynamics in Brownmillerite SrCoO_{2.5}â€”a combined hybrid functional and LSDA + U study. Journal of Physics Condensed Matter, 2014, 26, 036004.	0.7	13
153	Growth Mode Transition in Complex Oxide Heteroepitaxy: Atomically Resolved Studies. Crystal Growth and Design, 2016, 16, 2708-2716.	1.4	13
154	Strongly Coupled Magnetic and Electronic Transitions in Multivalent Strontium Cobaltites. Scientific Reports, 2017, 7, 16066.	1.6	13
155	Structural, electronic, and magnetic properties of bulk and epitaxial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">LaCoO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> through diffusion Monte Carlo. Physical Review Materials, 2019, 3, .	0.9	13
156	Infrared spectroscopy of CaTiO3, SrTiO3, BaTiO3, Ba0.5Sr0.5TiO3 thin films, and (BaTiO3)5/(SrTiO3)5 superlattice grown on SrRuO3/SrTiO3(001) substrates. Thin Solid Films, 2005, 486, 94-97.	0.8	12
157	Direct observation of fatigue in epitaxially grown Pb(Zr,Ti)O3 thin films using second harmonic piezoresponse force microscopy. Applied Physics Letters, 2011, 99, .	1.5	12
158	Evidence for impact ionization in vanadium dioxide. Physical Review B, 2016, 94, .	1.1	12
159	Experimental setup combining in situ hard X-ray photoelectron spectroscopy and real-time surface X-ray diffraction for characterizing atomic and electronic structure evolution during complex oxide heterostructure growth. Review of Scientific Instruments, 2019, 90, 093902.	0.6	12
160	Epitaxial growth of non-c-oriented ferroelectric SrBi2Ta2O9 thin films on SrTiO3 substrates. Journal of the European Ceramic Society, 2001, 21, 1565-1568.	2.8	11
161	Transparent conducting oxides: A Î´-doped superlattice approach. Scientific Reports, 2014, 4, 6021.	1.6	11
162	Atomically flat reconstructed rutile TiO2(001) surfaces for oxide film growth. Applied Physics Letters, 2016, 108, .	1.5	11

#	Article	IF	Citations
163	Nonvolatile Multilevel States in Multiferroic Tunnel Junctions. Physical Review Applied, 2019, 12, .	1.5	11
164	Component-specific electromechanical response in a ferroelectric/dielectric superlattice. Physical Review B, 2010, 82, .	1.1	10
165	Observation of a chiral wave function in the twofold-degenerate quadruple Weyl system BaPtGe. Physical Review B, 2021, 103, .	1.1	10
166	Reversible Hydrogen-Induced Phase Transformations in La_{0.7}Sr_{0.3}MnO₃ Thin Films Characterized by In Situ Neutron Reflectometry. ACS Applied Materials & Interfaces, 2022, 14, 10898-10906.	4.0	10
167	Effect of chemical pressure on the electronic phase transition in Ca1âˆ'xSrxMn7O12 films. APL Materials, 2017, 5, 096105.	2.2	9
168	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mn	1.1	9
169	Far-infrared and dc magnetotransport of CaMnO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>-CaRuO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mro	1.1	8
170	Competing phases in epitaxial vanadium dioxide at nanoscale. APL Materials, 2019, 7, .	2.2	8
171	Ionic Gating of Ultrathin and Leaky Ferroelectrics. Advanced Materials Interfaces, 2019, 6, 1801723.	1.9	8
172	Templated epitaxy of TiO2(B) on a perovskite. Applied Physics Letters, 2020, 117, .	1.5	8
173	Interfacial stabilization for epitaxial CuCrO2 delafossites. Scientific Reports, 2020, 10, 11375.	1.6	8
174	Extremely large magnetoresistance in high-mobility <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">SrNbO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi mathvariant="normal">SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> heterostructures. Physical Review B, 2021, 104, .	1.1	8
175	Semi-Dirac and Weyl fermions in transition metal oxides. Physical Review B, 2021, 104, .	1.1	8
176	Highly insulating ferromagnetic cobaltite heterostructures. Current Applied Physics, 2017, 17, 722-726.	1.1	7
177	Epitaxial Stabilization of Metastable 3C BaRuO₃ Thin Film with Ferromagnetic Nonâ€Fermi Liquid Phase. Advanced Electronic Materials, 2021, 7, 2001111.	2.6	7
178	Twin-Domain Formation in Epitaxial Triangular Lattice Delafossites. ACS Applied Materials & Interfaces, 2021, 13, 22059-22064.	4.0	7
179	Surface reconstructions and modified surface states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi>	0.9	7
180	Influence of chemical composition and crystallographic orientation on the interfacial magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BiFe</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> / <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow	0.9	7

#	Article	IF	Citations
181	Quantitative Analysis of Nucleation and Growth of Ferroelectric Domain in Epitaxial Pb(Zr,Ti)O3 Thin Films. Journal of the Korean Physical Society, 2009, 55, 820-824.	0.3	7
182	Microstructure of (110)-oriented epitaxial SrRuO3 thin films grown on off-cut single crystal YSZ(100) substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 118, 60-65.	1.7	6
183	Influence of miscut Y2O3-stabilized ZrO2 substrates on the azimuthal domain structure and ferroelectric properties of epitaxial La-substituted Bi4Ti3O12 films. Journal of Applied Physics, 2006, 100, 064101.	1.1	6
184	Ferroelectric phase transitions in three-component short-period superlattices studied by ultraviolet Raman spectroscopy. Journal of Applied Physics, 2009, 105, 054106.	1.1	6
185	Nonequilibrium Synthesis of Highly Porous Singleâ€Crystalline Oxide Nanostructures. Advanced Materials Interfaces, 2017, 4, 1601034.	1.9	6
186	Electronic and magnetic properties of epitaxial SrRhO3 films. Physical Review B, 2017, 95, .	1.1	6
187	Design and Realization of Ohmic and Schottky Interfaces for Oxide Electronics. Small Science, 2022, 2, 2100087.	5.8	6
188	Domain- and symmetry-transition origins of reduced nanosecond piezoelectricity in ferroelectric/dielectric superlattices. New Journal of Physics, 2012, 14, 013034.	1.2	5
189	Structural and magnetic phase transitions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CeCu</mml:mi><mml:mrow><mml:mn>6</mml:mn>		

#	Article	IF	Citations
199	Effects of bottom electrode on the structural and electrical properties of PbTiO3ferroelectric thin films. Ferroelectrics, 1997, 197, 97-103.	0.3	3
200	Reducing azimuthal domains in epitaxial ferroelectric lanthanum-substituted bismuth titanate films using miscut yttria-stabilized zirconia substrates. Applied Physics Letters, 2005, 86, 142903.	1.5	3
201	Strain effects on the electronic properties in Î´-doped oxide superlattices. Journal Physics D: Applied Physics, 2015, 48, 085303.	1.3	3
202	Perovskite: Strain Control of Oxygen Vacancies in Epitaxial Strontium Cobaltite Films (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	7.8	3
203	Multimodal Responses of Selfâ€Organized Circuitry in Electronically Phase Separated Materials. Advanced Electronic Materials, 2016, 2, 1600189.	2.6	3
204	Self-regulated growth of candidate topological superconducting parkerite by molecular beam epitaxy. APL Materials, 2021, 9, 101110.	2.2	3
205	Binary Oxide Superlattices: Versatile Tunability of the Metal Insulator Transition in (TiO₂)_m/(VO₂)_m Superlattices (Adv.) Tj ETQq1 1 0.784314 rgBT /Ov	7.8	4
206	Comparing Crystallography and Ferroelectric Properties of a -Axis Oriented Bi 3.25 La 0.75 Ti 3 O 12 versus Non- c -Axis Oriented SrBi 2 Ta 2 O 9 Thin Films on Si(100). Ferroelectrics, 2003, 288, 287-301.	0.3	2
207	Publisherâ€™s Note: Suppressed Dependence of Polarization on Epitaxial Strain in Highly Polar Ferroelectrics [Phys. Rev. Lett.98, 217602 (2007)]. Physical Review Letters, 2007, 98, .	2.9	2
208	Room temperature optical anisotropy of a LaMnO3 thin-film induced by ultra-short pulse laser. Applied Physics Letters, 2015, 106, 092907.	1.5	2
209	Helical magnetism in Sr-doped CaMn7O12 films. Physical Review B, 2018, 98, .	1.1	2
210	Vertically Aligned Single-Crystalline CoFe2O4 Nanobrush Architectures with High Magnetization and Tailored Magnetic Anisotropy. Nanomaterials, 2020, 10, 472.	1.9	2
211	Hund's superconductor Li(Fe,Co)As. Physical Review B, 2021, 103, .	1.1	2
212	Ferroelectricity in epitaxial pulsed laser deposited bismuth-layered perovskite thin films of different crystallographic orientations. Ferroelectrics, 2001, 258, 197-208.	0.3	1
213	Initial Growth Stages of Epitaxial BaTiO₃ Films on Vicinal SrTiO³:Nb (001) Substrates. Materials Research Society Symposia Proceedings, 2001, 688, 1.	0.1	1
214	Reducing Azimuthal Domains in (100)or (118)-Oriented Ferroelectric Bi3.25La0.75Ti3O12 Films Using Off-Cut Single Crystal Substrates. Integrated Ferroelectrics, 2004, 68, 179-188.	0.3	1
215	Simultaneous Z-Contrast/Phase Contrast Imaging of Ferroelectric Thin Films. Microscopy and Microanalysis, 2009, 15, 1464-1465.	0.2	1
216	Oxide Epitaxy with Large Symmetry Mismatch: Bronze-phase VO2 on SrTiO3. Microscopy and Microanalysis, 2017, 23, 1580-1581.	0.2	1

#	Article	IF	Citations
217	Photoemission and dynamical mean field theory study of electronic correlations in a t2g5 metal SrRhO3 thin film. Physical Review B, 2020, 101, .	1.1	1
218	Atomic Structure of the Initial Nucleation Layer in Hexagonal Perovskite BaRuO 3 Thin Films. Advanced Materials Interfaces, 2021, 8, 2100023.	1.9	1
219	Scaling Behavior of Amplitude-dependent Ferroelectric Hysteresis Loops in an Epitaxial PbZr0.2Ti0.8O3 Thin Film. Journal of the Korean Physical Society, 2011, 58, 599-603.	0.3	1
220	Optically Induced Picosecond Lattice Compression in the Dielectric Component of a Strongly Coupled Ferroelectric/Dielectric Superlattice. Advanced Electronic Materials, 0, , 2101051.	2.6	1
221	Optical properties and characterization of oxide thin films and heterostructures. , 2022, , 401-448.		1
222	Enhancement of memory window in the metal/ferroelectric (YMnO/sub 3/)/insulator/semiconductor capacitor. , 0, , .		0
223	The Phase Transition of Bi-Pt Alloys at the Interface of Pt/SrBi2Ta2O9 and its Effect on Interface Roughness. Materials Research Society Symposia Proceedings, 1998, 541, 173.	0.1	0
224	Effect of Cerium Silicate Formation on the Structural and Electrical Properties of Pt/SrBi2Ta2O9/CeO2/Si Capacitors. Materials Research Society Symposia Proceedings, 1998, 541, 543.	0.1	0
225	The Origin of Luminescence From Cerium Oxide on Silicon. Materials Research Society Symposia Proceedings, 1999, 560, 227.	0.1	0
226	Direct Comparison of Structural and Electrical Properties of Epitaxial (001)-, (116)-, and (103)-Oriented SrBi₂Ta₂O₉ Thin Films on SrTiO₃ and Silicon Substrates. Materials Research Society Symposia Proceedings, 2000, 655, 21.	0.1	0
227	Fabrication and characterization of Pt-oxide electrode for FeRAM application. , 0, , .		0
228	Structure and Morphology of Epitaxially Intergrown (100)- and (116)-Oriented SrBi2Ta2O9 Ferroelectric Thin Films on SrLaGaO4(110) Substrates. Materials Research Society Symposia Proceedings, 2001, 688, 1.	0.1	0
229	Growth, Structure, and Properties of Uniformly a-Axis Oriented Ferroelectric Bi3.25La0.75Ti3O12 Thin Films on Si(100) Substrates. Materials Research Society Symposia Proceedings, 2002, 748, 1.	0.1	0
230	Growth, Structure, and Properties of Uniformly a-Axis Oriented Ferroelectric Bi3.25La0.75Ti3O12 Thin Films on Si(100) Substrates. Materials Research Society Symposia Proceedings, 2002, 747, 1.	0.1	0
231	Effects of the Variation in Î±-Phase Volume Fraction on the Thermal Stability of TiAl Alloys with Lamellar Microstructures. Materials Research Society Symposia Proceedings, 2002, 753, 1.	0.1	0
232	Compositionally Asymmetric Tri-Color Superlattices Grown by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2003, 784, 3241.	0.1	0
233	Structural Response of BaTiO3/CaTiO3 Superlattice to Applied Electric Fields. Materials Research Society Symposia Proceedings, 2009, 1199, 18.	0.1	0
234	Nanoengineering: Atomic Layer Engineering of Perovskite Oxides for Chemically Sharp Heterointerfaces (Adv. Mater. 48/2012). Advanced Materials, 2012, 24, 6422-6422.	11.1	0

#	Article	IF	Citations
235	Thermoelectrics: Thermopower Enhancement by Fractional Layer Control in 2D Oxide Superlattices (Adv. Mater. 39/2014). Advanced Materials, 2014, 26, 6799-6799.	11.1	0
236	Ferromagnetism: Epitaxial Growth of Intermetallic MnPt Films on Oxides and Large Exchange Bias (Adv. Mater. 1/2016). Advanced Materials, 2016, 28, 204-204.	11.1	0
237	Publisherâ€™s Note: Stabilization of Highly PolarBiFeO3-Like Structure: A New Interface Design Route for Enhanced Ferroelectricity in Artificial Perovskite Superlattices [Phys. Rev. X6, 011027 (2016)]. Physical Review X, 2016, 6, .	2.8	0
238	Hexagonal Perovskites: Atomic Structure of the Initial Nucleation Layer in Hexagonal Perovskite BaRuO₃ Thin Films (Adv. Mater. Interfaces 7/2021). Advanced Materials Interfaces, 2021, 8, 2170037.	1.9	0
239	van der Waals Epitaxy Growth of Bi2Se3 on a Freestanding Monolayer Graphene Membrane: Implications for Layered Materials and Heterostructures. ACS Applied Nano Materials, 2021, 4, 7607-7613.	2.4	0
240	A STEM/EELS study of interfaces in delafossite-based quantum heterostructures. Microscopy and Microanalysis, 2021, 27, 1208-1209.	0.2	0