

Tae Won Noh

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Tunable Two-Channel Magnetotransport in SrRuO ₃ Ultrathin Films Achieved by Controlling the Kinetics of Heterostructure Deposition. <i>Advanced Electronic Materials</i> , 2022, 8, 2100804.	2.6	3
2	Terahertz-driven hot Dirac fermion and plasmon dynamics in the bulk-insulating topological insulator Bi_2Te_3 . <i>Physical Review B</i> , 2022, 105, .	11.1	21
3	Growth and Atomically Resolved Polarization Mapping of Ferroelectric Bi ₂ WO ₆ Thin Films. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1023-1030.	2.0	6
4	Correlated Magnetic Weyl Semimetal State in Strained Pr ₂ Ir ₂ O ₇ . <i>Advanced Materials</i> , 2021, 33, e2008528.	11.1	21
5	Superconducting Sr ₂ RuO ₄ Thin Films without Out-of-Phase Boundaries by Higher-Order Ruddlesden-Popper Intergrowth. <i>Nano Letters</i> , 2021, 21, 4185-4192.	4.5	13
6	Oxygen vacancy-induced topological nanodomains in ultrathin ferroelectric films. <i>Npj Quantum Materials</i> , 2021, 6, .	1.8	23
7	Structural symmetry evolution in surface and interface of SrRuO ₃ thin films. <i>Applied Surface Science</i> , 2021, 553, 149574.	3.1	8
8	Sign-tunable anomalous Hall effect induced by two-dimensional symmetry-protected nodal structures in ferromagnetic perovskite thin films. <i>Nature Materials</i> , 2021, 20, 1643-1649.	13.3	36
9	In Situ Cryogenic HAADF-STEM Observation of Spontaneous Transition of Ferroelectric Polarization Domain Structures at Low Temperatures. <i>Nano Letters</i> , 2021, 21, 8679-8686.	4.5	5
10	Observation of metallic electronic structure in a single-atomic-layer oxide. <i>Nature Communications</i> , 2021, 12, 6171.	5.8	26
11	Bulk Metamaterials Exhibiting Chemically Tunable Hyperbolic Responses. <i>Journal of the American Chemical Society</i> , 2021, 143, 20725-20734.	6.6	13
12	Topological Magnon Band Crossing in Y_2O_7 . <i>Physical Review Letters</i> , 2021, 127, 267203.	2.0	4
13	Flexoelectric control of physical properties by atomic force microscopy. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	19
14	Observation of Spin-Dependent Dual Ferromagnetism in Perovskite Ruthenates. <i>Physical Review Letters</i> , 2021, 127, 256401.	2.9	15
15	Atomic-Scale Metal-Insulator Transition in SrRuO ₃ Ultrathin Films Triggered by Surface Termination Conversion. <i>Advanced Materials</i> , 2020, 32, e1905815.	11.1	25
16	Stabilizing hidden room-temperature ferroelectricity via a metastable atomic distortion pattern. <i>Nature Communications</i> , 2020, 11, 4944.	5.8	25
17	Strain engineering of the magnetic multipole moments and anomalous Hall effect in pyrochlore iridate thin films. <i>Science Advances</i> , 2020, 6, eabb1539.	4.7	24
18	Oxygen Vacancy Engineering for Highly Tunable Ferromagnetic Properties: A Case of SrRuO ₃ Ultrathin Film with a SrTiO ₃ Capping Layer. <i>Advanced Functional Materials</i> , 2020, 30, 2001486.	7.8	26

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19	Pair suppression caused by mosaic-twist defects in superconducting Sr ₂ RuO ₄ thin-films prepared using pulsed laser deposition. Communications Materials, 2020, 1, .	2.9	6
20	Colossal flexoresistance in dielectrics. Nature Communications, 2020, 11, 2586.	5.8	21
21	Controllable Thickness Inhomogeneity and Berry Curvature Engineering of Anomalous Hall Effect in SrRuO ₃ Ultrathin Films. Nano Letters, 2020, 20, 2468-2477.	4.5	74
22	Electronic band structure of (111) SrRuO ₃ thin films: An angle-resolved photoemission spectroscopy study. Physical Review B, 2020, 102, .	1.1	3
23	Constructing Polymorphic Nanodomains in BaTiO ₃ Films via Epitaxial Symmetry Engineering. Advanced Functional Materials, 2020, 30, 1910569.	7.8	28
24	Phase Instability amid Dimensional Crossover in Artificial Oxide Crystal. Physical Review Letters, 2020, 124, 026401.	2.9	32
25	Rotation of reflectivity anisotropy due to uniaxial strain along [110] _{tetr} in the electron-doped Fe-based superconductor Ba(Fe _{0.955} Co _{0.045}) ₂ As ₂ . Physical Review B, 2020, 101, .	1.1	2
26	Two-channel anomalous Hall effect in SrRuO_3 . Physical Review Materials, 2020, 4, .	1.1	13
27	Observation of superconducting gap spectra of long-range proximity effect in $\text{Au}/\text{SrRuO}_3/\text{Sr}_2\text{RuO}_4$ tunnel junctions. Physical Review B, 2019, 100, .	1.1	13
28	Anomalous anisotropic behaviour of spin-triplet proximity effect in $\text{Au}/\text{SrRuO}_3/\text{Sr}_2\text{RuO}_4$ junctions. Scientific Reports, 2019, 9, 15827.	1.6	2
29	Ultrafast dynamics in the Lifshitz-type 5d pyrochlore antiferromagnet Cd ₂ Os ₂ O ₇ . Physical Review B, 2019, 100, .	1.1	5
30	Enhanced flexoelectricity at reduced dimensions revealed by mechanically tunable quantum tunnelling. Nature Communications, 2019, 10, 537.	5.8	64
31	Unconventional spin-phonon coupling via the Dzyaloshinskii-Moriya interaction. Npj Quantum Materials, 2019, 4, .	1.8	38
32	In-operando spectroscopic ellipsometry studies of IrO ₂ dynamic instabilities: Guide to in-situ growth of pyrochlore iridate thin films. Current Applied Physics, 2019, 19, 400-405.	1.1	6
33	Evidence of structural evolution in Sr ₂ RhO ₄ studied by time-resolved optical reflectivity spectroscopy. Physical Review B, 2019, 100, .	1.1	3
34	Orbital-selective confinement effect of Ru orbitals in SrRuO_3 ultrathin film. Physical Review B, 2019, 99, .	1.1	16
35	Coherent strained superconducting $\text{LaAlO}_3/\text{BaPb}_2\text{O}_7$ heterostructure. Physical Review B, 2019, 100, .	0.9	7
36	Coherent strained superconducting $\text{LaAlO}_3/\text{BaPb}_2\text{O}_7$ heterostructure. Physical Review B, 2019, 100, .	0.9	8

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37	Charge-Spin Correlation in van der Waals Antiferromagnet $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{display}=\text{"inline"} \rangle \langle \text{mml:mrow} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mrow} \langle \text{mml:mi} \text{NiPS} \rangle \rangle \rangle \rangle \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 3 \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \rangle \rangle \rangle \rangle$ Physical Review Letters, 2018, 120, 136402.	2.9	120
38	Selective control of multiple ferroelectric switching pathways using a trailing flexoelectric field. Nature Nanotechnology, 2018, 13, 366-370.	15.6	124
39	Ferroelectrically tunable magnetic skyrmions in ultrathin oxide heterostructures. Nature Materials, 2018, 17, 1087-1094.	13.3	265
40	Unconventional anomalous Hall effect from antiferromagnetic domain walls of $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \text{mathvariant}=\text{"normal"} \rangle N \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant}=\text{"normal"} \rangle d \rangle \langle \text{mml:mn} \rangle 2 \rangle \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant}=\text{"normal"} \rangle I \rangle \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant}=\text{"normal"} \rangle r \rangle \langle \text{mml:mn} \rangle 2 \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant}=\text{"normal"} \rangle \rangle \rangle \rangle$ Physical Review Letters, 2017, 118, 117201.	1.1	24
41	Spectroscopic Studies on the Metal-Insulator Transition Mechanism in Correlated Materials. Advanced Materials, 2018, 30, e1704777.	11.1	18
42	Interface Control of Ferroelectricity in an $\text{SrRuO}_3/\text{BaTiO}_3/\text{SrRuO}_3$ Capacitor and its Critical Thickness. Advanced Materials, 2017, 29, 1602795.	11.1	57
43	Strong Spin-Phonon Coupling Mediated by Single Ion Anisotropy in the All-In-All-Out Pyrochlore Magnet $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{display}=\text{"inline"} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mrow} \langle \text{mml:mi} \text{Cd} \rangle \rangle \rangle \langle \text{mml:mrow} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant}=\text{"normal"} \rangle \text{O} \rangle \rangle \rangle \rangle \rangle$ Physical Review Letters, 2017, 118, 117201.	1.1	10
44	Electrodynamics properties of the semimetallic Dirac material SrMnBi_2 : Two-carrier-model analysis. Physical Review B, 2017, 96, .	1.1	10
45	Electronic Reconstruction Enhanced Tunneling Conductance at Terrace Edges of Ultrathin Oxide Films. Advanced Materials, 2017, 29, 1702001.	11.1	7
46	Two-magnon scattering in the 5d all-in-all-out pyrochlore magnet $\text{Cd}_2\text{Os}_2\text{O}_7$. Nature Communications, 2017, 8, 251.	5.8	32
47	Controlled manipulation of oxygen vacancies using nanoscale flexoelectricity. Nature Communications, 2017, 8, 615.	5.8	93
48	Oxygen Partial Pressure during Pulsed Laser Deposition: Deterministic Role on Thermodynamic Stability of Atomic Termination Sequence at $\text{SrRuO}_3/\text{BaTiO}_3$ Interface. ACS Applied Materials & Interfaces, 2017, 9, 27305-27312.	4.0	12
49	Element-Specific Orbital Character in a Nearly-Free-Electron Superconductor $\text{Ag}_5\text{Pb}_2\text{O}_6$ Revealed by Core-Level Photoemission. Scientific Reports, 2017, 7, 4528.	1.6	0
50	Thickness-dependent electronic structure in ultrathin LaNiO_3 films under tensile strain. Physical Review B, 2016, 93, .	1.1	27
51	Thermally activated heavy states and anomalous optical properties in a multiband metal: The case of SrMnSb_2 . Physical Review B, 2016, 93, .	1.1	19
52	Direct penetration of spin-triplet superconductivity into a ferromagnet in $\text{Au/SrRuO}_3/\text{Sr}_2\text{RuO}_4$ junctions. Nature Communications, 2016, 7, 13220.	5.8	46
53	Suppression of Three-Dimensional Charge Density Wave Ordering via Thickness Control. Physical Review Letters, 2015, 115, 226402.	2.9	28
54	Publisher's Note: Ferromagnetic SrRuO_3 thin-film deposition on a spin-triplet superconductor Sr_2RuO_4 with a highly conducting interface. Applied Physics Express, 2015, 8, 019202.	1.1	7

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55	Resistive switching phenomena: A review of statistical physics approaches. Applied Physics Reviews, 2015, 2, .	5.5	338
56	Orbital-dependent polaron formation in the relativistic Mott insulator Sr_2IrO_4 . Physical Review B, 2014, 90, .	1.1	24
57	Flexoelectric Effect in the Reversal of Self-Polarization and Associated Changes in the Electronic Functional Properties of BiFeO_3 Thin Films. Advanced Materials, 2013, 25, 5643-5649.	11.1	133
58	Enhanced tunnelling electroresistance effect due to a ferroelectrically induced phase transition at a magnetic complex oxide interface. Nature Materials, 2013, 12, 397-402.	13.3	283
59	Temperature Evolution of Itinerant Ferromagnetism in SrRuO_3 Probed by Optical Spectroscopy. Physical Review Letters, 2013, 110, 247202.	2.9	38
60	Mixing between $J_{\text{eff}}=12$ and 32 orbitals in Na_2IrO_3 : A spectroscopic and density functional calculation study. Physical Review B, 2013, 88, .	1.1	43
61	Giant flexoelectric effect through interfacial strain relaxation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 4944-4957.	1.6	65
62	Active Control of Ferroelectric Switching Using Defect Dipole Engineering. Advanced Materials, 2012, 24, 6490-6495.	11.1	76
63	Spin-orbit coupling in iridium-based d^5 compounds probed by x-ray absorption spectroscopy. Physical Review B, 2012, 86, .	1.1	187
64	Flexoelectric Rectification of Charge Transport in Strain-Graded Dielectrics. Nano Letters, 2012, 12, 6436-6440.	4.5	57
65	Nanoscale Observation of Time-Dependent Domain Wall Pinning as the Origin of Polarization Fatigue. Advanced Functional Materials, 2012, 22, 2310-2317.	7.8	62
66	Continuous Control of Charge Transport in BiFeO_3 Films Through Local Ferroelectric Switching. Advanced Functional Materials, 2012, 22, 4962-4968.	7.8	40
67	Multilevel Data Storage Memory Using Deterministic Polarization Control. Advanced Materials, 2012, 24, 402-406.	11.1	129
68	Giant Flexoelectric Effect in Ferroelectric Epitaxial Thin Films. Physical Review Letters, 2011, 107, 057602.	2.9	369
69	Polarity control of carrier injection at ferroelectric/metal interfaces for electrically switchable diode and photovoltaic effects. Physical Review B, 2011, 84, .	1.1	279
70	Oxide Double-Layer Nanocrossbar for Ultrahigh-Density Bipolar Resistive Memory. Advanced Materials, 2011, 23, 4063-4067.	11.1	108
71	Optical spectroscopy of the carrier dynamics in LaVO_3 and SrVO_3 . Physical Review B, 2011, 84, .	1.1	11
72	Thickness-dependent structural phase transition of strained SrRuO_3 ultrathin films: The role of octahedral tilt. Physical Review B, 2011, 84, .	1.1	94

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73	Dimensional crossover of polaron dynamics in NbSrTiO_3 . Possible mechanism of thermopower enhancement. Physical Review B, 2010, 82, .	1.1	36
74	Scaling Theory for Unipolar Resistance Switching. Physical Review Letters, 2010, 105, 205701.	2.9	74
75	Dual character of magnetism in EuFe_2O_7 . Optical spectroscopic and density-functional calculation study. Physical Review B, 2010, 81, .	2.9	41
76	Two-Dimensional Confinement of LaTiO_3 Electrons in LaTiO_3 . Physical Review Letters, 2010, 104, 036401.	2.9	41
77	Nonlinear Dynamics of Domain-Wall Propagation in Epitaxial Ferroelectric Thin Films. Physical Review Letters, 2009, 102, 045701.	2.9	155
78	Fundamental Thickness Limit of Itinerant Ferromagnetic Thin Films. Physical Review Letters, 2009, 103, 057201.	2.9	151
79	Occurrence of Both Unipolar Memory and Threshold Resistance Switching in a NiO Film. Physical Review Letters, 2009, 102, 026801.	2.9	226
80	Random Circuit Breaker Network Model for Unipolar Resistance Switching. Advanced Materials, 2008, 20, 1154-1159.	11.1	330
81	Orbital-Driven Electronic Structure Changes and the Resulting Optical Anisotropy of the Quasi-Two-Dimensional Spin Gap Compound LaRuO_3 . Physical Review Letters, 2008, 101, 226402.	2.9	1,332
82	Transition Metal Oxides SrRuO_3 . Physical Review Letters, 2008, 101, 226402.	2.9	13
83	Domain Switching Kinetics in Disordered Ferroelectric Thin Films. Physical Review Letters, 2007, 99, 267602.	2.9	234
84	Pseudogap Dependence of the Optical Conductivity Spectra of $\text{Ca}_3\text{Ru}_2\text{O}_7$: A Possible Contribution of the Orbital Flip Excitation. Physical Review Letters, 2007, 98, 097403.	2.9	36
85	Formation of hexagonal phase of TbMnO_3 thin film and its multiferroic properties. Journal of Materials Research, 2007, 22, 2156-2162.	1.2	5
86	Ferroelectricity in Artificial Bicolor Oxide Superlattices. Advanced Materials, 2007, 19, 2460-2464.	11.1	21
87	Optical Study of the Free-Carrier Response of LaTiO_3 . Physical Review Letters, 2007, 99, 266801.	2.9	64
88	Electronic structures of layered perovskite Sr_2MO_4 (M=Ru, Rh, and Ir). Physical Review B, 2006, 74, .	1.1	91
89	Epitaxial Stabilization of a New Multiferroic Hexagonal Phase of TbMnO_3 Thin Films. Advanced Materials, 2006, 18, 3125-3129.	11.1	95

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91	Strong spin-phonon coupling in the geometrically frustrated pyrochlore $\text{Y}_2\text{Ru}_2\text{O}_7$. <i>Physical Review B</i> , 2004, 69, .	1.1	52
92	Thickness-Driven Morphotropic Phase Transition in Metastable Ferroelectric CaTiO_3 Films. <i>Advanced Electronic Materials</i> , 0, , 2101398.	2.6	2