

Tae Won Noh

List of Publications by Year in descending order

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papers

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87723

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8171
citing authors

#	ARTICLE	IF	CITATIONS
1	Dimensionality-Controlled Insulator-Metal Transition and Correlated Metallic State in IrO_2 Thin Films. Physical Review Letters, 2008, 101, 226402.	2.9	1,332
2	Dimensionality-Controlled Insulator-Metal Transition and Correlated Metallic State in IrO_2 Thin Films. Physical Review Letters, 2008, 101, 226402.	2.9	425
3	Giant Flexoelectric Effect in Ferroelectric Epitaxial Thin Films. Physical Review Letters, 2011, 107, 057602.	2.9	369
4	Resistive switching phenomena: A review of statistical physics approaches. Applied Physics Reviews, 2015, 2, .	5.5	338
5	Random Circuit Breaker Network Model for Unipolar Resistance Switching. Advanced Materials, 2008, 20, 1154-1159.	11.1	330
6	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
7	Polarity control of carrier injection at ferroelectric/metal interfaces for electrically switchable diode and photovoltaic effects. Physical Review B, 2011, 84, .	1.1	279
8	Ferroelectrically tunable magnetic skyrmions in ultrathin oxide heterostructures. Nature Materials, 2018, 17, 1087-1094.	13.3	265
9	Domain Switching Kinetics in Disordered Ferroelectric Thin Films. Physical Review Letters, 2007, 99, 267602.	2.9	234
10	Occurrence of Both Unipolar Memory and Threshold Resistance Switching in a NiO Film. Physical Review Letters, 2009, 102, 026801.	2.9	226
11	Spin-orbit coupling in iridium-based 5d compounds probed by x-ray absorption spectroscopy. Physical Review B, 2012, 86, .	1.1	187
12	Nonlinear Dynamics of Domain-Wall Propagation in Epitaxial Ferroelectric Thin Films. Physical Review Letters, 2009, 102, 045701.	2.9	155
13	Fundamental Thickness Limit of Itinerant Ferromagnetic Thin Films. Physical Review Letters, 2009, 103, 057201.	2.9	151
14	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
15	Multilevel Data Storage Memory Using Deterministic Polarization Control. Advanced Materials, 2012, 24, 402-406.	11.1	129
16	Selective control of multiple ferroelectric switching pathways using a trailing flexoelectric field. Nature Nanotechnology, 2018, 13, 366-370.	15.6	124
17	Charge-Spin Correlation in van der Waals Antiferromagnet NiPS_3 . Physical Review Letters, 2018, 120, 136402.	2.9	120
18	Oxide Double-Layer Nanocrossbar for Ultrahigh-Density Bipolar Resistive Memory. Advanced Materials, 2011, 23, 4063-4067.	11.1	108

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19	Epitaxial Stabilization of a New Multiferroic Hexagonal Phase of TbMnO ₃ Thin Films. <i>Advanced Materials</i> , 2006, 18, 3125-3129.	11.1	95
20	Thickness-dependent structural phase transition of strained SrRuO ₃ ultrathin films: The role of octahedral tilt. <i>Physical Review B</i> , 2011, 84, .	1.1	94
21	Controlled manipulation of oxygen vacancies using nanoscale flexoelectricity. <i>Nature Communications</i> , 2017, 8, 615.	5.8	93
22	Electronic structures of layered perovskite Sr ₂ MO ₄ (M=Ru, Rh, and Ir). <i>Physical Review B</i> , 2006, 74, .	1.1	91
23	Active Control of Ferroelectric Switching Using Defect Dipole Engineering. <i>Advanced Materials</i> , 2012, 24, 6490-6495.	11.1	76
24	Scaling Theory for Unipolar Resistance Switching. <i>Physical Review Letters</i> , 2010, 105, 205701.	2.9	74
25	Controllable Thickness Inhomogeneity and Berry Curvature Engineering of Anomalous Hall Effect in SrRuO ₃ Ultrathin Films. <i>Nano Letters</i> , 2020, 20, 2468-2477.	4.5	74
26	Giant flexoelectric effect through interfacial strain relaxation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 4944-4957.	1.6	65
27	Optical Study of the Free-Carrier Response of LaTiO ₃ . <i>Physical Review Letters</i> , 2007, 99, 266801.	2.9	64
28	Enhanced flexoelectricity at reduced dimensions revealed by mechanically tunable quantum tunnelling. <i>Nature Communications</i> , 2019, 10, 537.	5.8	64
29	Nanoscale Observation of Time-Dependent Domain Wall Pinning as the Origin of Polarization Fatigue. <i>Advanced Functional Materials</i> , 2012, 22, 2310-2317.	7.8	62
30	Flexoelectric Rectification of Charge Transport in Strain-Graded Dielectrics. <i>Nano Letters</i> , 2012, 12, 6436-6440.	4.5	57
31	Interface Control of Ferroelectricity in an SrRuO ₃ /BaTiO ₃ /SrRuO ₃ Capacitor and its Critical Thickness. <i>Advanced Materials</i> , 2017, 29, 1602795.	11.1	57
32	Two-channel anomalous Hall effect in SrRuO ₃ . <i>Physical Review Materials</i> , 2020, 4, .	1.1	53
33	Strong spin-phonon coupling in the geometrically frustrated pyrochlore Y ₂ Ru ₂ O ₇ . <i>Physical Review B</i> , 2004, 69, .	1.1	52
34	Direct penetration of spin-triplet superconductivity into a ferromagnet in Au/SrRuO ₃ /Sr ₂ RuO ₄ junctions. <i>Nature Communications</i> , 2016, 7, 13220.	5.8	46
35	Mixing between $J_{eff}=12$ and 32 orbitals in Na ₂ IrO ₃ : A spectroscopic and density functional calculation study. <i>Physical Review B</i> , 2013, 88, .	1.1	43
36	Dual character of magnetism in EuFe ₂ . <i>Physical Review B</i> , 2010, 81, .	1.1	42

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37	Two-Dimensional Confinement of $3d$ Electrons in $1d$ LaTiO_3 . <i>Physical Review Letters</i> , 2010, 104, 036401.	2.9	41
38	Continuous Control of Charge Transport in BiFeO_3 Films Through Local Ferroelectric Switching. <i>Advanced Functional Materials</i> , 2012, 22, 4962-4968.	7.8	40
39	Temperature Evolution of Itinerant Ferromagnetism in $3d$ SrRuO_3 Probed by Optical Spectroscopy. <i>Physical Review Letters</i> , 2013, 110, 247202.	2.9	38
40	Unconventional spin-phonon coupling via the Dzyaloshinskii-Moriya interaction. <i>Npj Quantum Materials</i> , 2019, 4, .	1.8	38
41	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. <i>Physical Review Letters</i> , 2007, 98, 097403.	2.9	36
42	Dimensional crossover of polaron dynamics in $3d$ NbS_2 : Possible mechanism of thermopower enhancement. <i>Physical Review B</i> , 2010, 82, .	1.1	36
43	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
44	Strong Spin-Phonon Coupling Mediated by Single Ion Anisotropy in the All-In-All-Out Pyrochlore Magnet $\text{Cd}_2\text{Os}_2\text{O}_7$. <i>Physical Review Letters</i> , 2017, 118, 117201.	2.9	34
45	Two-magnon scattering in the 5d all-in-all-out pyrochlore magnet $\text{Cd}_2\text{Os}_2\text{O}_7$. <i>Nature Communications</i> , 2017, 8, 251.	5.8	32
46	Phase Instability amid Dimensional Crossover in Artificial Oxide Crystal. <i>Physical Review Letters</i> , 2020, 124, 026401.	2.9	32
47	Suppression of Three-Dimensional Charge Density Wave Ordering via Thickness Control. <i>Physical Review Letters</i> , 2015, 115, 226402.	2.9	28
48	Constructing Polymorphic Nanodomains in BaTiO_3 Films via Epitaxial Symmetry Engineering. <i>Advanced Functional Materials</i> , 2020, 30, 1910569.	7.8	28
49	Thickness-dependent electronic structure in ultrathin $3d$ LaNiO_3 films under tensile strain. <i>Physical Review B</i> , 2016, 93, .	1.1	27
50	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
51	Observation of metallic electronic structure in a single-atomic-layer oxide. <i>Nature Communications</i> , 2021, 12, 6171.	5.8	26
52	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
53	Stabilizing hidden room-temperature ferroelectricity via a metastable atomic distortion pattern. <i>Nature Communications</i> , 2020, 11, 4944.	5.8	25
54	Orbital-dependent polaron formation in the relativistic Mott insulator $2d$ SrIrO_4 . <i>Physical Review B</i> , 2014, 90, .	1.1	24

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55	Intentional anomalous Hall effect from antiferromagnetic domain walls of Nd_2MnO_7 . <i>Physical Review B</i> , 2016, 93, .	1.1	24
56	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
57	Oxygen vacancy-induced topological nanodomains in ultrathin ferroelectric films. <i>Npj Quantum Materials</i> , 2021, 6, .	1.8	23
58	Ferroelectricity in Artificial Bicolor Oxide Superlattices. <i>Advanced Materials</i> , 2007, 19, 2460-2464.	11.1	21
59	Colossal flexoresistance in dielectrics. <i>Nature Communications</i> , 2020, 11, 2586.	5.8	21
60	Correlated Magnetic Weyl Semimetal State in Strained $Pr_2Ir_2O_7$. <i>Advanced Materials</i> , 2021, 33, e2008528.	11.1	21
61	Thermally activated heavy states and anomalous optical properties in a multiband metal: The case of $SrMnSb$. <i>Physical Review B</i> , 2016, 93, .	1.1	19
62	Flexoelectric control of physical properties by atomic force microscopy. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	19
63	Spectroscopic Studies on the Metal-Insulator Transition Mechanism in Correlated Materials. <i>Advanced Materials</i> , 2018, 30, e1704777.	11.1	18
64	Orbital-selective confinement effect of Ru d orbitals in $SrRuO_3$ ultrathin film. <i>Physical Review B</i> , 2019, 99, .	1.1	16
65	Observation of Spin-Dependent Dual Ferromagnetism in Perovskite Ruthenates. <i>Physical Review Letters</i> , 2021, 127, 256401.	2.9	15
66	Orbital-Driven Electronic Structure Changes and the Resulting Optical Anisotropy of the Quasi-Two-Dimensional Spin Gap Compound Ru_4O_{10} . <i>Physical Review Letters</i> , 2008, 100, 116404.	2.9	13
67	Superconducting Sr_2RuO_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
68	Bulk Metamaterials Exhibiting Chemically Tunable Hyperbolic Responses. <i>Journal of the American Chemical Society</i> , 2021, 143, 20725-20734.	6.6	13
69	Oxygen Partial Pressure during Pulsed Laser Deposition: Deterministic Role on Thermodynamic Stability of Atomic Termination Sequence at $SrRuO_3/BaTiO_3$ Interface. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27305-27312.	4.0	12
70	Optical spectroscopy of the carrier dynamics in $LaVO_3$ superlattices. <i>Physical Review B</i> , 2011, 84, .	1.1	11
71	Electrodynamics properties of the semimetallic Dirac material $SrMnBi_2$: Two-carrier-model analysis. <i>Physical Review B</i> , 2017, 96, .	1.1	10
72	Observation of superconducting gap spectra of long-range proximity effect in Au tunnel junctions. <i>Physical Review B</i> , 2019, 100, .	1.1	10

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73	Structural symmetry evolution in surface and interface of SrRuO ₃ thin films. Applied Surface Science, 2021, 553, 149574. Coherent-strained superconducting $\text{BaPb}_{1-x}\text{Bi}_x\text{O}_3$ thin films. Applied Surface Science, 2021, 553, 149574.	3.1	8
74	Coherent-strained superconducting $\text{BaPb}_{1-x}\text{Bi}_x\text{O}_3$ thin films. Applied Surface Science, 2021, 553, 149574.	0.9	8
75	Publisher's Note: 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
76	Electronic Reconstruction Enhanced Tunneling Conductance at Terrace Edges of Ultrathin Oxide Films. Advanced Materials, 2017, 29, 1702001. Experimental realization of atomically flat and LaAlO_3 thin films. Applied Surface Science, 2017, 332, 100-105.	11.1	7
77	Experimental realization of atomically flat and LaAlO_3 thin films. Applied Surface Science, 2017, 332, 100-105.	0.9	7
78	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
79	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
80	Growth and Atomically Resolved Polarization Mapping of Ferroelectric Bi ₂ WO ₆ Thin Films. ACS Applied Electronic Materials, 2021, 3, 1023-1030.	2.0	6
81	Formation of hexagonal phase of TbMnO ₃ thin film and its multiferroic properties. Journal of Materials Research, 2007, 22, 2156-2162.	1.2	5
82	Ultrafast dynamics in the Lifshitz-type 5d pyrochlore antiferromagnet Cd ₂ Os ₂ O ₇ . Physical Review B, 2019, 100, .	1.1	5
83	In Situ Cryogenic HAADF-STEM Observation of Spontaneous Transition of Ferroelectric Polarization Domain Structures at Low Temperatures. Nano Letters, 2021, 21, 8679-8686.	4.5	5
84	Topological Magnon Band Crossing in $\text{YBaCu}_3\text{O}_{7-x}$. Physical Review Letters, 2021, 127, 267203.	2.0	5
85	Evidence of structural evolution in Sr ₂ RhO ₄ studied by time-resolved optical reflectivity spectroscopy. Physical Review B, 2019, 100, .	1.1	3
86	Electronic band structure of (111) SrRuO ₃ thin films: An angle-resolved photoemission spectroscopy study. Physical Review B, 2020, 102, .	1.1	3
87	Tunable Two-Channel Magnetotransport in SrRuO ₃ Ultrathin Films Achieved by Controlling the Kinetics of Heterostructure Deposition. Advanced Electronic Materials, 2022, 8, 2100804.	2.6	3
88	Anomalous anisotropic behaviour of spin-triplet proximity effect in Au/SrRuO ₃ /Sr ₂ RuO ₄ junctions. Scientific Reports, 2019, 9, 15827.	1.6	2
89	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
90	Terahertz-driven hot Dirac fermion and plasmon dynamics in the bulk-insulating topological insulator Bi_2Te_3 . Physical Review B, 2022, 105, .	1.1	2

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91	Thickness-Driven Morphotropic Phase Transition in Metastable Ferroelectric CaTiO ₃ Films. <i>Advanced Electronic Materials</i> , 0, , 2101398.	2.6	2
92	Element-Specific Orbital Character in a Nearly-Free-Electron Superconductor Ag ₅ Pb ₂ O ₆ Revealed by Core-Level Photoemission. <i>Scientific Reports</i> , 2017, 7, 4528.	1.6	0