

# Chan-Ho Yang

## List of Publications by Year in descending order

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97  
papers

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116194

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docs citations

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10528  
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman spectroscopy of the Jahn-Teller phonons in a magnetic LaMnO <sub>3</sub> thin film grown on KTaO <sub>3</sub> . Journal of Applied Physics, 2022, 131, 025302.	1.1	2
2	Orbital Order Melting at Reduced Dimensions. Nano Letters, 2022, 22, 1059-1066.	4.5	2
3	Electric-field-induced epitaxial breakdown and emergent magnetoresistance due to strong oxygen reduction in Ca-doped $\text{BiFeO}_3$ . Physical Review Materials, 2022, 6, .	0.9	1
4	The role of intermediate S-polymorph towards high piezoelectricity in La-doped BiFeO <sub>3</sub> epitaxial thin films. Acta Materialia, 2021, 207, 116683.	3.8	3
5	Raman imaging of ferroelastically configurable Jahn-Teller domains in LaMnO <sub>3</sub> . Npj Quantum Materials, 2021, 6, .	1.8	10
6	Complementary study of anisotropic ion conduction in (110)-oriented Ca-doped BiFeO <sub>3</sub> films using electrochromism and impedance spectroscopy. Applied Physics Letters, 2021, 119, .	1.5	5
7	Flexopiezoelectricity at ferroelastic domain walls in WO <sub>3</sub> films. Nature Communications, 2020, 11, 4898.	5.8	25
8	Harnessing the topotactic transition in oxide heterostructures for fast and high-efficiency electrochromic applications. Science Advances, 2020, 6, .	4.7	17
9	Electrically driven transient and permanent phase transformations in highly strained epitaxial BiFeO <sub>3</sub> thin films. APL Materials, 2020, 8, .	2.2	2
10	Charge-neutral defects control conductivity. Nature Materials, 2020, 19, 1132-1133.	13.3	3
11	Film-thickness-driven superconductor to insulator transition in cuprate superconductors. Scientific Reports, 2020, 10, 3236.	1.6	10
12	Non-Ohmic conduction in exfoliated La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> thin films. Applied Physics Letters, 2020, 116, 022401.	1.5	8
13	Electret formation in transition metal oxides by electrochemical amorphization. NPG Asia Materials, 2020, 12, .	3.8	151
14	Observation of a stable fractionalized polar skyrmionlike texture with giant piezoelectric response enhancement. Physical Review B, 2020, 102, .	1.1	11
15	Real-time observation of filamentary conduction pathways in Ca-doped BiFeO <sub>3</sub> . Applied Physics Letters, 2019, 115, .	1.5	14
16	Artificial creation and separation of a single vortex-antivortex pair in a ferroelectric flatland. Npj Quantum Materials, 2019, 4, .	1.8	36
17	First Observation of Ferroelectricity in $\sim 1/4$ nm Ultrathin Semiconducting BaTiO <sub>3</sub> Films. Nano Letters, 2019, 19, 2243-2250.	4.5	32
18	Proton-irradiated Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> thick films for flexible non-volatile memory applications. Current Applied Physics, 2019, 19, 728-732.	1.1	6

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19	Optimizing the electromechanical response in morphotropic BiFeO <sub>3</sub> . <i>Nanotechnology</i> , 2018, 29, 205703.	1.3	10
20	Configurable topological textures in strain graded ferroelectric nanoplates. <i>Nature Communications</i> , 2018, 9, 403.	5.8	91
21	Enhanced Switchable Ferroelectric Photovoltaic Effects in Hexagonal Ferrite Thin Films via Strain Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1846-1853.	4.0	47
22	Periodic Giant Polarization Gradients in Doped BiFeO <sub>3</sub> Thin Films. <i>Nano Letters</i> , 2018, 18, 717-724.	4.5	54
23	Multiple relaxations of the cluster surface diffusion in a homoepitaxial SrTiO <sub>3</sub> layer. <i>Applied Physics Letters</i> , 2018, 112, 131602.	1.5	0
24	Largely enhanced coercivity of cobalt adjacent to straight-stripe mixed-phase bismuth ferrites. <i>Physical Review B</i> , 2018, 97, .	1.1	2
25	Uniaxial Strain-Controlled Ferroelastic Domain Evolution in BiFeO <sub>3</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 11768-11775.	4.0	28
26	Deterministic domain reorientations in the BiFeO <sub>3</sub> thin film upon the thermal phase transitions. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	5
27	Local magnetostriction measurement in a cobalt thin film using scanning probe microscopy. <i>AIP Advances</i> , 2018, 8, 105125.	0.6	2
28	High-resolution angle-resolved lateral piezoresponse force microscopy: Visualization of in-plane piezoresponse vectors. <i>Review of Scientific Instruments</i> , 2018, 89, 123704.	0.6	12
29	Ultrafast collective oxygen-vacancy flow in Ca-doped BiFeO <sub>3</sub> . <i>NPG Asia Materials</i> , 2018, 10, 943-955.	3.8	21
30	Ferroelastically protected polarization switching pathways to control electrical conductivity in strain-graded ferroelectric nanoplates. <i>Physical Review Materials</i> , 2018, 2, .	0.9	14
31	Impact of Isovalent and Aliovalent Doping on Mechanical Properties of Mixed Phase BiFeO <sub>3</sub> . <i>ACS Nano</i> , 2017, 11, 2805-2813.	7.3	23
32	Ferroelectric domain states of a tetragonal BiFeO <sub>3</sub> thin film investigated by second harmonic generation microscopy. <i>Nanoscale Research Letters</i> , 2017, 12, 353.	3.1	10
33	Atomically flat single terminated oxide substrate surfaces. <i>Progress in Surface Science</i> , 2017, 92, 117-141.	3.8	68
34	Nonlinear flexoelectricity in noncentrosymmetric crystals. <i>Physical Review B</i> , 2017, 96, .	1.1	15
35	Strain-gradient-induced magnetic anisotropy in straight-stripe mixed-phase bismuth ferrites: Insight into flexomagnetism. <i>Physical Review B</i> , 2017, 96, .	1.1	14
36	Disordered ferroelectricity in the PbTiO <sub>3</sub> /SrTiO <sub>3</sub> superlattice thin film. <i>APL Materials</i> , 2017, 5, 066104.	2.2	14

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37	Downward self-polarization of lead-free (K <sub>0.5</sub> Na <sub>0.5</sub> )(Mn <sub>0.005</sub> Nb <sub>0.995</sub> )O <sub>3</sub> ferroelectric thin films on Nb:SrTiO <sub>3</sub> substrate. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600235.	1.2	2
38	Electric-field-induced spin disorder-to-order transition near a multiferroic triple phase point. Nature Physics, 2017, 13, 189-196.	6.5	41
39	Poisson's ratio of BiFeO <sub>3</sub> thin films: X-ray reciprocal space mapping under variable uniaxial strain. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600356.	0.8	13
40	Morphotropic Phase Elasticity of Strained BiFeO <sub>3</sub> . Advanced Materials Interfaces, 2016, 3, 1600033.	1.9	39
41	Orientation control of the orbital ordering plane in epitaxial LaMnO <sub>3</sub> thin films by misfit strain. Europhysics Letters, 2016, 116, 27003.	0.7	5
42	Enhanced conductivity at orthorhombic-rhombohedral phase boundaries in BiFeO <sub>3</sub> thin films. NPG Asia Materials, 2016, 8, e297-e297.	3.8	22
43	Out-of-plane three-stable-state ferroelectric switching: Finding the missing middle states. Physical Review B, 2016, 93, .	1.1	14
44	Electric-field-induced insulator to Coulomb glass transition via oxygen-vacancy migration in Ca-doped BiFeO <sub>3</sub> . Physical Review B, 2016, 94, .	1.1	20
45	Unraveling Elastic Anomalies during Morphotropic Phase Transitions. Advanced Electronic Materials, 2016, 2, 1600283.	2.6	21
46	Structural and electronic transformation pathways in morphotropic BiFeO <sub>3</sub> . Scientific Reports, 2016, 6, 32347.	1.6	16
47	Ferroelastic twin structures in epitaxial WO <sub>3</sub> thin films. Applied Physics Letters, 2015, 107, .	1.5	14
48	Growth and Properties of Fully Strained SrCoO <sub>x</sub> (x ≈ 2.8) Thin Films on DyScO <sub>3</sub> . Advanced Materials Interfaces, 2015, 2, 1500012.	1.9	24
49	Orbital Reconstruction in a Self-assembled Oxygen Vacancy Nanostructure. Scientific Reports, 2015, 5, 12402.	1.6	14
50	Enhancement of the anisotropic photocurrent in ferroelectric oxides by strain gradients. Nature Nanotechnology, 2015, 10, 972-979.	15.6	134
51	Nanoscale Mechanical Softening of Morphotropic BiFeO <sub>3</sub> . Advanced Materials, 2014, 26, 7568-7572.	11.1	54
52	Phase separation and electrical switching between two isosymmetric multiferroic phases in tensile strained BiFeO <sub>3</sub> films. Physical Review B, 2014, 89, .	11.1	26
53	Investigation of continuous changes in the electric-field-induced electronic state in Bi <sub>1-x</sub> Ca <sub>x</sub> FeO <sub>3</sub> . Physical Chemistry Chemical Physics, 2014, 16, 17412-17416.	1.3	19
54	Electric control of straight stripe conductive mixed-phase nanostructures in La-doped BiFeO <sub>3</sub> . NPG Asia Materials, 2014, 6, e81-e81.	3.8	49

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55	Multiferroic Bismuth-Ferrite Thin Films: Progress and Perspectives. Physics and High Technology, 2014, 23, 15-22.	0.1	0
56	Detection of electrically formed photosensitive area in Ca-doped BiFeO <sub>3</sub> thin films. Applied Physics Letters, 2013, 102, .	1.5	31
57	Single ferroelectric-domain photovoltaic switch based on lateral BiFeO <sub>3</sub> cells. NPG Asia Materials, 2013, 5, e38-e38.	3.8	20
58	Selective A- or B-site single termination on surfaces of layered oxide SrLaAlO <sub>4</sub> . Applied Physics Letters, 2013, 102, .	1.5	17
59	Interface control of bulk ferroelectric polarization. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9710-9715.	3.3	212
60	Suppression of mixed-phase areas in highly elongated BiFeO <sub>3</sub> thin films on NdAlO <sub>3</sub> substrates. Physical Review B, 2012, 86, .	1.1	34
61	Prominent electrochromism through vacancy-order melting in a complex oxide. Nature Communications, 2012, 3, 799.	5.8	85
62	Doping BiFeO <sub>3</sub> : approaches and enhanced functionality. Physical Chemistry Chemical Physics, 2012, 14, 15953.	1.3	344
63	Spatially Resolved Photodetection in Leaky Ferroelectric BiFeO <sub>3</sub> . Advanced Materials, 2012, 24, OP49-53.	11.1	29
64	Near-field examination of perovskite-based superlenses and superlens-enhanced probe-object coupling. Nature Communications, 2011, 2, 249.	5.8	95
65	Concurrent transition of ferroelectric and magnetic ordering near room temperature. Nature Communications, 2011, 2, 567.	5.8	141
66	Universal Ti-rich termination of atomically flat SrTiO <sub>3</sub> (001), (110), and (111) surfaces. Applied Physics Letters, 2011, 98, .	1.5	112
67	Anomalous low-energy phonons in nearly tetragonal BiFeO <sub>3</sub> thin films. Physical Review B, 2011, 84, .	1.1	26
68	Atomically Defined Rare-Earth Scandate Crystal Surfaces. Advanced Functional Materials, 2010, 20, 3490-3496.	7.8	72
69	Above-bandgap voltages from ferroelectric photovoltaic devices. Nature Nanotechnology, 2010, 5, 143-147.	15.6	1,496
70	Domain Wall Conductivity in La-Doped BiFeO <sub>3</sub> . Physical Review Letters, 2010, 105, 197603.	2.9	357
71	Probing the evolution of antiferromagnetism in multiferroics. Physical Review B, 2010, 81, .	1.1	70
72	Interface Ferromagnetism and Orbital Reconstruction in BiFeO <sub>3</sub> /La <sub>0.7</sub> Bi <sub>0.3</sub> FeO <sub>3</sub> . Physical Review Letters, 2010, 105, 027201.	2.9	335

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73	Electric modulation of conduction in multiferroic Ca-doped BiFeO <sub>3</sub> films. Nature Materials, 2009, 8, 485-493.	13.3	481
74	Nanoscale Control of Domain Architectures in BiFeO <sub>3</sub> Thin Films. Nano Letters, 2009, 9, 1726-1730.	4.5	210
75	Photovoltaic effects in BiFeO <sub>3</sub> . Applied Physics Letters, 2009, 95, .	1.5	460
76	A Strain-Driven Morphotropic Phase Boundary in BiFeO <sub>3</sub> . Science, 2009, 326, 977-980.	6.0	1,065
77	Room-temperature Ferromagnetism in the Bi Transition-metal-oxide Bilayer BiMnO <sub>3</sub> /BiFeO <sub>3</sub> . Journal of the Korean Physical Society, 2009, 55, 80-83.	0.3	7
78	Electric-field control of local ferromagnetism using a magnetoelectric multiferroic. Nature Materials, 2008, 7, 478-482.	13.3	1,219
79	Multiferroics and magnetoelectrics: thin films and nanostructures. Journal of Physics Condensed Matter, 2008, 20, 434220.	0.7	292
80	Low voltage performance of epitaxial BiFeO <sub>3</sub> films on Si substrates through lanthanum substitution. Applied Physics Letters, 2008, 92, .	1.5	103
81	Non-Resonant and Resonant X-Ray Scattering Studies on Multiferroic $TbMn_2O_5$ . Physical Review Letters, 2007, 99, 197601.		49
82	Magnetic control of spin reorientation and magnetodielectric effect below the spin compensation temperature in TmFeO <sub>3</sub> . Applied Physics Letters, 2007, 90, 012506.	1.5	32
83	Synthesis of nanoscale composites of exchange biased MnFe <sub>2</sub> O <sub>4</sub> and Mn-doped BiFeO <sub>3</sub> . Applied Physics Letters, 2007, 90, 163116.	1.5	17
84	Ferroelectric size effects in multiferroic BiFeO <sub>3</sub> thin films. Applied Physics Letters, 2007, 90, 252906.	1.5	180
85	Dynamically enhanced magnetodielectric effect and magnetic-field-controlled electric relaxations in La-doped BiMnO <sub>3</sub> . Physical Review B, 2007, 75, .	1.1	60
86	Domain Control in Multiferroic BiFeO <sub>3</sub> through Substrate Vicinality. Advanced Materials, 2007, 19, 2662-2666.	11.1	245
87	Control of multiferroic phase in Tb <sub>1-x</sub> (Bi,La,Y) <sub>x</sub> MnO <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 2007, 310, 1171-1173.	1.0	1
88	Resonant x-ray scattering study on multiferroic BiMnO <sub>3</sub> . Physical Review B, 2006, 73, .	1.1	44
89	Magnetoresistance in Fe and Cu co-doped ZnO thin films. Physica B: Condensed Matter, 2006, 383, 28-30.	1.3	6
90	Piezoelectric coefficient of thin films measured by piezoresponse force microscopy. Physica B: Condensed Matter, 2006, 383, 31-32.	1.3	6

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91	Orbital ordering and enhanced magnetic frustration of strained BiMnO <sub>3</sub> thin films. Europhysics Letters, 2006, 74, 348-354.	0.7	49
92	How to obtain magnetocapacitance effects at room temperature: The case of Mn-doped BiFeO <sub>3</sub> . Solid State Communications, 2005, 134, 299-301.	0.9	87
93	New materials search for spintronics applications: Synthesis of BiMn <sup>1-x</sup> Fe <sup>x</sup> O <sub>3</sub> films via combinatorial chemistry. Physica Status Solidi (B): Basic Research, 2004, 241, 1453-1457.	0.7	5
94	High Resolution Neutron Powder Diffraction and Elastic Constant Measurements of La <sub>0.625</sub> Ca <sub>0.375</sub> MnO <sub>3</sub> at High Temperatures. Journal of the Physical Society of Japan, 2004, 73, 3051-3058.	0.7	2
95	A key to room-temperature ferromagnetism in Fe-doped ZnO: Cu. Applied Physics Letters, 2002, 81, 4212-4214.	1.5	290
96	Stripe phase orders of charge and spin for the 2-D systems of strongly correlated electrons at and near half-filling. Physica B: Condensed Matter, 1999, 259-261, 764-765.	1.3	0
97	Nano-characterizations of low-dimensional nanostructural materials. Journal of the Korean Physical Society, 0, , 1.	0.3	1