

Sang Mo Yang

List of Publications by Year in descending order

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54
papers

2,679
citations

218677

26
h-index

175258

52
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55
all docs

55
docs citations

55
times ranked

3932
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear domain wall velocity in ferroelectric Si-doped HfO ₂ thin film capacitors. Applied Physics Letters, 2021, 118, .	3.3	10
2	Flexoelectric control of physical properties by atomic force microscopy. Applied Physics Reviews, 2021, 8, .	11.3	19
3	Optimized annealing conditions to enhance stability of polarization in sputtered HfZrO _x layers for non-volatile memory applications. Current Applied Physics, 2020, 20, 1441-1446.	2.4	15
4	Distinct ferroelectric domain switching dynamics in epitaxial BiFeO ₃ (001) capacitors depending on the bias polarity. Current Applied Physics, 2020, 20, 1185-1189.	2.4	3
5	Ferroelectric Polarization-Switching Dynamics and Wake-Up Effect in Si-Doped HfO ₂ . ACS Applied Materials & Interfaces, 2019, 11, 3142-3149.	8.0	80
6	Superdomain structure and high conductivity at the vertices in the (111)-oriented epitaxial tetragonal Pb(Zr,Ti)O ₃ thin film. Current Applied Physics, 2019, 19, 418-423.	2.4	6
7	Enhanced ferroelectricity in perovskite oxysulfides. Physical Review Materials, 2019, 3, .	2.4	4
8	Nanoscale Probing of Ferroelectric Domain Switching Using Piezoresponse Force Microscopy. Journal of the Korean Ceramic Society, 2019, 56, 340-349.	2.3	8
9	Dynamic mechanical control of local vacancies in NiO thin films. Nanotechnology, 2018, 29, 275709.	2.6	8
10	Selective control of multiple ferroelectric switching pathways using a trailing flexoelectric field. Nature Nanotechnology, 2018, 13, 366-370.	31.5	124
11	Localised nanoscale resistive switching in GaP thin films with low power consumption. Journal of Materials Chemistry C, 2017, 5, 2153-2159.	5.5	7
12	Interface Control of Ferroelectricity in an SrRuO ₃ /BaTiO ₃ /SrRuO ₃ Capacitor and its Critical Thickness. Advanced Materials, 2017, 29, 1602795.	21.0	57
13	Mixed electrochemicalâ€“ferroelectric states in nanoscale ferroelectrics. Nature Physics, 2017, 13, 812-818.	16.7	98
14	Electronicâ€“Reconstructionâ€“Enhanced Tunneling Conductance at Terrace Edges of Ultrathin Oxide Films. Advanced Materials, 2017, 29, 1702001.	21.0	7
15	Controlled manipulation of oxygen vacancies using nanoscale flexoelectricity. Nature Communications, 2017, 8, 615.	12.8	93
16	Oxygen Partial Pressure during Pulsed Laser Deposition: Deterministic Role on Thermodynamic Stability of Atomic Termination Sequence at SrRuO ₃ /BaTiO ₃ Interface. ACS Applied Materials & Interfaces, 2017, 9, 27305-27312.	8.0	12
17	Decoupling indirect topographic cross-talk in band excitation piezoresponse force microscopy imaging and spectroscopy. Applied Physics Letters, 2016, 108, .	3.3	17
18	Solid-state electrochemistry on the nanometer and atomic scales: the scanning probe microscopy approach. Nanoscale, 2016, 8, 13838-13858.	5.6	27

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19	Nanoparticle Shape Evolution and Proximity Effects During Tip-Induced Electrochemical Processes. ACS Nano, 2016, 10, 663-671.	14.6	11
20	Energy landscape scheme for an intuitive understanding of complex domain dynamics in ferroelectric thin films. Scientific Reports, 2015, 5, 11625.	3.3	3
21	Suppression of creep-regime dynamics in epitaxial ferroelectric BiFeO ₃ films. Scientific Reports, 2015, 5, 10485.	3.3	14
22	Multiferroic tunnel junctions and ferroelectric control of magnetic state at interface (invited). Journal of Applied Physics, 2015, 117, .	2.5	26
23	Big data and deep data in scanning and electron microscopies: deriving functionality from multidimensional data sets. Advanced Structural and Chemical Imaging, 2015, 1, 6.	4.0	74
24	Humidity Effect on Nanoscale Electrochemistry in Solid Silver Ion Conductors and the Dual Nature of Its Locality. Nano Letters, 2015, 15, 1062-1069.	9.1	27
25	A review of molecular beam epitaxy of ferroelectric BaTiO ₃ films on Si, Ge and GaAs substrates and their applications. Science and Technology of Advanced Materials, 2015, 16, 036005.	6.1	89
26	Strongly enhanced oxygen ion transport through samarium-doped CeO ₂ nanopillars in nanocomposite films. Nature Communications, 2015, 6, 8588.	12.8	145
27	Second harmonic detection in the electrochemical strain microscopy of Ag-ion conducting glass. Applied Physics Letters, 2014, 105, 193106.	3.3	10
28	Observation of ferroelectricity induced by defect dipoles in the strain-free epitaxial CaTiO ₃ thin film. Current Applied Physics, 2014, 14, 757-760.	2.4	17
29	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.	21.0	133
30	Ferroelectric and magnetic properties of Fe-doped BaTiO ₃ thin films grown by the pulsed laser deposition. Journal of Applied Physics, 2013, 113, .	2.5	40
31	Enhanced tunnelling electroresistance effect due to a ferroelectrically induced phase transition at a magnetic complex oxide interface. Nature Materials, 2013, 12, 397-402.	27.5	283
32	Active Control of Ferroelectric Switching Using Defect-Dipole Engineering. Advanced Materials, 2012, 24, 6490-6495.	21.0	76
33	Reversible changes between bipolar and unipolar resistance-switching phenomena in a Pt/SrTiO ₃ /Pt cell. Current Applied Physics, 2012, 12, 1515-1517.	2.4	16
34	Inhomogeneous nucleation and domain wall motion with Barkhausen avalanches in epitaxial PbZr _{0.4} Ti _{0.6} O ₃ thin films. Journal of the Korean Physical Society, 2012, 60, 249-253.	0.7	1
35	Flexoelectric Rectification of Charge Transport in Strain-Graded Dielectrics. Nano Letters, 2012, 12, 6436-6440.	9.1	57
36	Nanoscale Observation of Time-Dependent Domain Wall Pinning as the Origin of Polarization Fatigue. Advanced Functional Materials, 2012, 22, 2310-2317.	14.9	62

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37	Continuous Control of Charge Transport in Bi-Deficient BiFeO ₃ Films Through Local Ferroelectric Switching. <i>Advanced Functional Materials</i> , 2012, 22, 4962-4968.	14.9	40
38	Multilevel Data Storage Memory Using Deterministic Polarization Control. <i>Advanced Materials</i> , 2012, 24, 402-406.	21.0	129
39	Oxide Double-Layer Nanocrossbar for Ultrahigh-Density Bipolar Resistive Memory. <i>Advanced Materials</i> , 2011, 23, 4063-4067.	21.0	108
40	Nanoscale studies of defect-mediated polarization switching dynamics in ferroelectric thin film capacitors. <i>Current Applied Physics</i> , 2011, 11, 1111-1125.	2.4	60
41	Polarity-dependent kinetics of ferroelectric switching in epitaxial BiFeO ₃ (111) capacitors. <i>Applied Physics Letters</i> , 2011, 99, 012905.	3.3	25
42	Step bunching-induced vertical lattice mismatch and crystallographic tilt in vicinal BiFeO ₃ (001) films. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	22
43	Scaling Behavior of Amplitude-dependent Ferroelectric Hysteresis Loops in an Epitaxial PbZr _{0.2} Ti _{0.8} O ₃ Thin Film. <i>Journal of the Korean Physical Society</i> , 2011, 58, 599-603.	0.7	1
44	Suppressed magnetoelectric effect in epitaxially grown multiferroic Pb(Zr _{0.57} Ti _{0.43})O ₃ -Pb(Fe _{2/3} W _{1/3})O ₃ solid-solution thin films. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 455403.	2.9	9
45	ac dynamics of ferroelectric domains from an investigation of the frequency dependence of hysteresis loops. <i>Physical Review B</i> , 2010, 82, .	3.2	96
46	Polarization Switching Behaviors in Multiferroic BiFeO ₃ (001) Thin Film Capacitors under In-Plane Magnetic Field. <i>Journal of the Korean Physical Society</i> , 2010, 56, 503-507.	0.7	4
47	Effect of NiO Growth Conditions on the Bipolar Resistance Memory Switching of Pt/NiO/SRO Structure. <i>Journal of the Korean Physical Society</i> , 2010, 57, 1856-1861.	0.7	12
48	Room-temperature Multiferroic Properties of Pb(Zr _{0.57} Ti _{0.43})O ₃ -Pb(Fe _{0.67} W _{0.33})O ₃ Solid-solution Epitaxial Thin Films. <i>Journal of the Korean Physical Society</i> , 2010, 57, 1914-1918.	0.7	9
49	Nonlinear Dynamics of Domain-Wall Propagation in Epitaxial Ferroelectric Thin Films. <i>Physical Review Letters</i> , 2009, 102, 045701.	7.8	155
50	Electric-field-controlled directional motion of ferroelectric domain walls in multiferroic BiFeO ₃ films. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	29
51	Ferroelectricity in Highly Ordered Arrays of Ultra-Thin-Walled Pb(Zr,Ti)O ₃ Nanotubes Composed of Nanometer-Sized Perovskite Crystallites. <i>Nano Letters</i> , 2008, 8, 1813-1818.	9.1	112
52	Composition-dependent polarization switching behaviors of (111)-preferred polycrystalline Pb(Zr _x Ti _{1-x})O ₃ thin films. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	23
53	Domain wall motion in epitaxial Pb(Zr,Ti)O ₃ capacitors investigated by modified piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	59
54	Observation of inhomogeneous domain nucleation in epitaxial Pb(Zr,Ti)O ₃ capacitors. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	106