

Yulan Li

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116
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94
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122
ext. papers

9,644
ext. citations

5.2
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5.42
L-index

#	Paper	IF	Citations
116	Room-temperature ferroelectricity in strained SrTiO ₃ . <i>Nature</i> , 2004 , 430, 758-61	50.4	1631
115	Enhancement of ferroelectricity in strained BaTiO ₃ thin films. <i>Science</i> , 2004 , 306, 1005-9	33.3	1459
114	Effect of substrate constraint on the stability and evolution of ferroelectric domain structures in thin films. <i>Acta Materialia</i> , 2002 , 50, 395-411	8.4	392
113	Ferroelastic switching for nanoscale non-volatile magnetoelectric devices. <i>Nature Materials</i> , 2010 , 9, 309-14	27	344
112	A ferroelectric oxide made directly on silicon. <i>Science</i> , 2009 , 324, 367-70	33.3	320
111	A phenomenological thermodynamic potential for BaTiO ₃ single crystals. <i>Journal of Applied Physics</i> , 2005 , 98, 064101	2.5	310
110	Phase-field model of domain structures in ferroelectric thin films. <i>Applied Physics Letters</i> , 2001 , 78, 3878-3880	3.4	276
109	Probing nanoscale ferroelectricity by ultraviolet Raman spectroscopy. <i>Science</i> , 2006 , 313, 1614-6	33.3	272
108	Phase-field simulations of ferroelectric/ferroelastic polarization switching. <i>Acta Materialia</i> , 2004 , 52, 749-764	8.4	248
107	Effect of electrical boundary conditions on ferroelectric domain structures in thin films. <i>Applied Physics Letters</i> , 2002 , 81, 427-429	3.4	195
106	Temperature-strain phase diagram for BaTiO ₃ thin films. <i>Applied Physics Letters</i> , 2006 , 88, 072905	3.4	168
105	Phase transitions and domain structures in strained pseudocubic (100) SrTiO ₃ thin films. <i>Physical Review B</i> , 2006 , 73,	3.3	133
104	Phase-field simulation of polarization switching and domain evolution in ferroelectric polycrystals. <i>Acta Materialia</i> , 2005 , 53, 5313-5321	8.4	122
103	Ferroelectricity in ultrathin BaTiO ₃ films: probing the size effect by ultraviolet Raman spectroscopy. <i>Physical Review Letters</i> , 2009 , 103, 177601	7.4	110
102	Effect of grain orientation and grain size on ferroelectric domain switching and evolution: Phase field simulations. <i>Acta Materialia</i> , 2007 , 55, 1415-1426	8.4	110
101	Effect of substrate-induced strains on the spontaneous polarization of epitaxial BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2007 , 101, 114105	2.5	105
100	c-axis oriented epitaxial BaTiO ₃ films on (001) Si. <i>Journal of Applied Physics</i> , 2006 , 100, 024108	2.5	97

99	Computer simulation of spinodal decomposition in constrained films. <i>Acta Materialia</i> , 2003 , 51, 5173-5185	8.4	89
98	Effect of solutes on dislocation motion in phase-field simulation. <i>International Journal of Plasticity</i> , 2004 , 20, 403-425	7.6	86
97	Structural evidence for enhanced polarization in a commensurate short-period BaTiO ₃ /SrTiO ₃ superlattice. <i>Applied Physics Letters</i> , 2006 , 89, 092905	3.4	78
96	Absence of low-temperature phase transitions in epitaxial BaTiO ₃ thin films. <i>Physical Review B</i> , 2004 , 69,	3.3	78
95	Ferroelectric domain morphologies of (001) PbZr _{1-x} Ti _x O ₃ epitaxial thin films. <i>Journal of Applied Physics</i> , 2005 , 97, 034112	2.5	77
94	Multiferroic domain dynamics in strained strontium titanate. <i>Physical Review Letters</i> , 2006 , 97, 257602	7.4	74
93	Phase-field model for epitaxial ferroelectric and magnetic nanocomposite thin films. <i>Applied Physics Letters</i> , 2007 , 90, 052909	3.4	74
92	A review: applications of the phase field method in predicting microstructure and property evolution of irradiated nuclear materials. <i>Npj Computational Materials</i> , 2017 , 3,	10.9	73
91	Stripe domain structure in epitaxial (001) BiFeO ₃ thin films on orthorhombic TbScO ₃ substrate. <i>Applied Physics Letters</i> , 2009 , 94, 251911	3.4	69
90	Prediction of ferroelectricity in BaTiO ₃ /SrTiO ₃ superlattices with domains. <i>Applied Physics Letters</i> , 2007 , 91, 112914	3.4	66
89	Effect of interfacial dislocations on ferroelectric phase stability and domain morphology in a thin film phase-field model. <i>Journal of Applied Physics</i> , 2003 , 94, 2542-2547	2.5	65
88	Computer simulation of ferroelectric domain structures in epitaxial BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2008 , 103, 094111	2.5	64
87	Equilibrium strain-energy analysis of coherently strained core-shell nanowires. <i>Journal of Crystal Growth</i> , 2008 , 310, 3084-3092	1.6	62
86	Thermodynamics and ferroelectric properties of KNbO ₃ . <i>Journal of Applied Physics</i> , 2009 , 106, 104118	2.5	59
85	Work function of the mixed-valent manganese perovskites. <i>Journal of Applied Physics</i> , 2004 , 95, 7971-7975	2.5	59
84	Correlated polarization switching in the proximity of a 180° domain wall. <i>Physical Review B</i> , 2010 , 82,	3.3	58
83	Thermodynamics of nanodomain formation and breakdown in scanning probe microscopy: Landau-Ginzburg-Devonshire approach. <i>Physical Review B</i> , 2009 , 80,	3.3	56
82	Phase-field modeling of void migration and growth kinetics in materials under irradiation and temperature field. <i>Journal of Nuclear Materials</i> , 2010 , 407, 119-125	3.3	51

81	Surface effect on domain wall width in ferroelectrics. <i>Journal of Applied Physics</i> , 2009 , 106, 084102	2.5	50
80	Size-dependent polarization distribution in ferroelectric nanostructures: Phase field simulations. <i>Applied Physics Letters</i> , 2008 , 92, 162905	3.4	49
79	The effect of mechanical strains on the ferroelectric and dielectric properties of a model single crystal [Phase field simulation. <i>Acta Materialia</i> , 2005 , 53, 2495-2507	8.4	48
78	Interfacial coherency and ferroelectricity of BaTiO ₃ /SrTiO ₃ superlattice films. <i>Applied Physics Letters</i> , 2007 , 91, 252904	3.4	45
77	Phase field simulations of ferroelectrics domain structures in PbZr _x Ti _{1-x} O ₃ bilayers. <i>Acta Materialia</i> , 2013 , 61, 2909-2918	8.4	44
76	Misfit strain/misfit strain diagram of epitaxial BaTiO ₃ thin films: Thermodynamic calculations and phase-field simulations. <i>Applied Physics Letters</i> , 2008 , 93, 232904	3.4	44
75	The influence of 180° ferroelectric domain wall width on the threshold field for wall motion. <i>Journal of Applied Physics</i> , 2008 , 104, 084107	2.5	44
74	Growth of nanoscale BaTiO ₃ /SrTiO ₃ superlattices by molecular-beam epitaxy. <i>Journal of Materials Research</i> , 2008 , 23, 1417-1432	2.5	42
73	Strain effect on coercive field of epitaxial barium titanate thin films. <i>Applied Physics Letters</i> , 2008 , 92, 142907	3.4	42
72	Influence of interfacial dislocations on hysteresis loops of ferroelectric films. <i>Journal of Applied Physics</i> , 2008 , 104, 104110	2.5	38
71	Phase-field simulations of intragranular fission gas bubble evolution in UO ₂ under post-irradiation thermal annealing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 303, 62-67	1.2	37
70	Atomistic studies of nucleation of He clusters and bubbles in bcc iron. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 303, 68-71	1.2	36
69	Calculation of internal stresses around Cu precipitates in the bcc Fe matrix by atomic simulation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1999 , 7, 641-655	2	36
68	Influence of anisotropic strain on the dielectric and ferroelectric properties of SrTiO ₃ thin films on DyScO ₃ substrates. <i>Physical Review B</i> , 2009 , 79,	3.3	34
67	Domain stability of PbTiO ₃ thin films under anisotropic misfit strains: Phase-field simulations. <i>Journal of Applied Physics</i> , 2008 , 104, 054105	2.5	34
66	A Phase Diagram for Epitaxial PbZr _{1-x} Ti _x O ₃ Thin Films at the Bulk Morphotropic Boundary Composition. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 1669-1672	3.8	33
65	A modified Landau/Devonshire thermodynamic potential for strontium titanate. <i>Applied Physics Letters</i> , 2010 , 96, 232902	3.4	31
64	A thermodynamic free energy function for potassium niobate. <i>Applied Physics Letters</i> , 2009 , 94, 072904	3.4	30

63	Diffusion of small He clusters in bulk and grain boundaries in α -Fe. <i>Journal of Nuclear Materials</i> , 2013 , 442, S667-S673	3.3	29
62	Piezoelectric response of single-crystal $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$ near morphotropic phase boundary predicted by phase-field simulation. <i>Applied Physics Letters</i> , 2010 , 97, 252904	3.4	29
61	Cubic to tetragonal martensitic transformation in a thin film elastically constrained by a substrate. <i>Metals and Materials International</i> , 2003 , 9, 221-226	2.4	29
60	Phase-field model of pitting corrosion kinetics in metallic materials. <i>Npj Computational Materials</i> , 2018 , 4,	10.9	28
59	Quantification of internal electric fields and local polarization in ferroelectric superlattices. <i>ACS Nano</i> , 2011 , 5, 640-6	16.7	28
58	Effect of ferroelastic twin walls on local polarization switching: Phase-field modeling. <i>Applied Physics Letters</i> , 2008 , 93, 162901	3.4	28
57	Correlation between number of ferroelectric variants and coercive field of lead zirconate titanate single crystals. <i>Applied Physics Letters</i> , 2007 , 91, 032902	3.4	23
56	Piezoelectric anisotropy of a KNbO_3 single crystal. <i>Journal of Applied Physics</i> , 2010 , 108, 094111	2.5	22
55	Computer simulations of interstitial loop growth kinetics in irradiated bcc Fe. <i>Journal of Nuclear Materials</i> , 2012 , 427, 259-267	3.3	21
54	Dipole spring ferroelectrics in superlattice $\text{SrTiO}_3/\text{BaTiO}_3$ thin films exhibiting constricted hysteresis loops. <i>Applied Physics Letters</i> , 2012 , 100, 092905	3.4	21
53	Three-dimensional phase-field simulation of domain structures in ferroelectric islands. <i>Applied Physics Letters</i> , 2008 , 92, 122906	3.4	21
52	Hot deformation characteristics of AZ80 magnesium alloy: Work hardening effect and processing parameter sensitivities. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 687, 113-122	5.3	20
51	Phase transitions and domain stabilities in biaxially strained (001) SrTiO_3 epitaxial thin films. <i>Journal of Applied Physics</i> , 2010 , 108, 084113	2.5	20
50	Three-dimensional phase-field modeling of spinodal decomposition in constrained films. <i>Metals and Materials International</i> , 2003 , 9, 61-66	2.4	18
49	Mesoscale Phase-Field Modeling of Charge Transport in Nanocomposite Electrodes for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 28-40	3.8	17
48	Polarization rotation transitions in anisotropically strained SrTiO_3 thin films. <i>Applied Physics Letters</i> , 2008 , 92, 192902	3.4	17
47	Dynamic drag of solute atmosphere on moving edge dislocationsPhase-field simulation. <i>Journal of Applied Physics</i> , 2004 , 96, 229-236	2.5	17
46	Coupled Lattice Polarization and Ferromagnetism in Multiferroic NiTiO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21879-21890	9.5	16

45	Calibrating multi-machine power system parameters with the extended Kalman filter 2011 ,		16
44	Asymptotic description of the stress field around the bond edge of a cylindrical joint. <i>Archive of Applied Mechanics</i> , 1998 , 68, 552-565	2.2	16
43	Phase-field simulations of thickness-dependent domain stability in PbTiO ₃ thin films. <i>Acta Materialia</i> , 2012 , 60, 3296-3301	8.4	15
42	Non-classical nuclei and growth kinetics of Cr precipitates in FeCr alloys during ageing. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014 , 22, 025002	2	14
41	Investigation of magnetic signatures and microstructures for heat-treated ferritic/martensitic HT-9 alloy. <i>Acta Materialia</i> , 2013 , 61, 3285-3296	8.4	14
40	Influence of interfacial coherency on ferroelectric switching of superlattice BaTiO ₃ /SrTiO ₃ . <i>Applied Physics Letters</i> , 2015 , 107, 122906	3.4	11
39	Application of the phase-field method in predicting gas bubble microstructure evolution in nuclear fuels. <i>International Journal of Materials Research</i> , 2010 , 101, 515-522	0.5	11
38	Computational and experimental investigations of magnetic domain structures in patterned magnetic thin films. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 305001	3	10
37	Microstructure-based model of nonlinear ultrasonic response in materials with distributed defects. <i>Journal of Applied Physics</i> , 2019 , 125, 145108	2.5	9
36	Ab initio study of defect properties in YPO ₄ . <i>Computational Materials Science</i> , 2012 , 54, 170-175	3.2	9
35	Evolution kinetics of interstitial loops in irradiated materials: a phase-field model. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2012 , 20, 015011	2	9
34	. <i>IEEE Magnetics Letters</i> , 2013 , 4, 3500104-3500104	1.6	9
33	Predicting Thermal Conductivity Evolution of Polycrystalline Materials Under Irradiation Using Multiscale Approach. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 1060-1069	2.3	8
32	Phase-field modeling of void evolution and swelling in materials under irradiation. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011 , 54, 856-865	3.6	8
31	Effects of unequally biaxial misfit strains on polarization phase diagrams in embedded ferroelectric thin layers: Phase field simulations. <i>Applied Physics Letters</i> , 2008 , 93, 132908	3.4	8
30	Piezoelectric enhancement of (PbTiO ₃) _m /(BaTiO ₃) _n ferroelectric superlattices through domain engineering. <i>Physical Review B</i> , 2014 , 90,	3.3	7
29	PMU placement for dynamic state tracking of power systems 2011 ,		7
28	A quantitative phase-field model of gas bubble evolution in UO ₂ . <i>Computational Materials Science</i> , 2020 , 184, 109867	3.2	6

27	Simulation of magnetic hysteresis loops and magnetic Barkhausen noise of Iron containing nonmagnetic particles. <i>AIP Advances</i> , 2015 , 5, 077168	1.5	6
26	Morphology, orientation relationship, and stability analysis of Cu2O nanoclusters on SrTiO3 (100). <i>Applied Physics Letters</i> , 2009 , 95, 053111	3.4	6
25	Direct determination of the effect of strain on domain morphology in ferroelectric superlattices with scanning probe microscopy. <i>Journal of Applied Physics</i> , 2012 , 112, 052011	2.5	6
24	Stress Singularity Analysis of Axisymmetric Piezoelectric Bonded Structure. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , 2002 , 45, 363-370		6
23	Effect of grain structure and strain rate on dynamic recrystallization and deformation behavior: A phase field-crystal plasticity model. <i>Computational Materials Science</i> , 2020 , 180, 109707	3.2	6
22	Pressure and electric field effects on piezoelectric responses of KNbO3. <i>Journal of Applied Physics</i> , 2012 , 112, 064106	2.5	5
21	The stable configurations of small vacancy clusters in. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1996 , 4, 493-499	2	5
20	Effect of defects, magnetocrystalline anisotropy, and shape anisotropy on magnetic structure of iron thin films by magnetic force microscopy. <i>AIP Advances</i> , 2017 , 7, 056806	1.5	4
19	Thermal stresses in coated structures. <i>Surface and Coatings Technology</i> , 1998 , 99, 125-131	4.4	4
18	Interaction of crack-tip and notch-tip stress singularities for circular cylinder in torsion. <i>Theoretical and Applied Fracture Mechanics</i> , 1993 , 18, 259-272	3.7	4
17	Minimum tetragonality in PbTiO3/BaTiO3 ferroelectric superlattices. <i>Journal of Applied Physics</i> , 2013 , 114, 144103	2.5	3
16	Lattice misorientation evolution and grain refinement in Al-Si alloys under high-strain shear deformation. <i>Materialia</i> , 2021 , 18, 101146	3.2	3
15	A phase field study of the thermal migration of gas bubbles in UO2 nuclear fuel under temperature gradient. <i>Computational Materials Science</i> , 2020 , 183, 109817	3.2	2
14	Meso-scale magnetic signatures for nuclear reactor steel irradiation embrittlement monitoring 2015 ,		2
13	Local sequential ensemble Kalman filter for simultaneously tracking states and parameters 2012 ,		2
12	The stress intensity of crack-tip and notch-tip in cylinder under torsion. <i>International Journal of Engineering Science</i> , 1995 , 33, 447-455	5.7	2
11	Dynamic Paradigm for Future Power Grid Operation. <i>IFAC Postprint Volumes IPPV/ International Federation of Automatic Control</i> , 2012 , 45, 218-223		1
10	Microstructure-Dependent Rate Theory Model of Radiation-Induced Segregation in Binary Alloys. <i>Frontiers in Materials</i> , 2021 , 8,	4	1

9	Extended Shear Deformation of the Immiscible Cu-Nb Alloy Resulting in Nanostructuring and Oxygen Ingress with Enhancement in Mechanical Properties.. <i>ACS Omega</i> , 2022 , 7, 13721-13736	3.9	1
8	Effect of loading path on grain misorientation and geometrically necessary dislocation density in polycrystalline aluminum under reciprocating shear. <i>Computational Materials Science</i> , 2022 , 205, 111221	3.2	0
7	Leaching model of radionuclides in metal-organic framework particles. <i>Computational Materials Science</i> , 2022 , 201, 110886	3.2	0
6	Magnetization Reversal Process of Single Crystal Fe Containing a Nonmagnetic Particle. <i>Chinese Physics Letters</i> , 2015 , 32, 067502	1.8	
5	Domain Structures and Phase Diagram in 2D Ferroelectrics Under Applied Biaxial Strains - Phase Field Simulations and Thermodynamic Calculations. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 881, 1		
4	Torsion of composite cylinder containing crack terminating at bimaterial interface. <i>International Journal of Fracture</i> , 1993 , 63, 11-20	2.3	
3	Mesoscale Phase Field Modeling of Glass Strengthening Under Triaxial Compression. <i>International Journal of Applied Glass Science</i> , 2016 , 7, 384-393	1.8	
2	Nanomechanics of Ferroelectric Thin Films and Heterostructures. <i>Springer Series in Materials Science</i> , 2016 , 469-488	0.9	
1	Microstructure-dependent rate theory model of defect segregation and phase stability in irradiated polycrystalline LiAlO ₂ . <i>Modelling and Simulation in Materials Science and Engineering</i> , 2022 , 30, 025005	2	