

Yulan Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116
papers

8,908
citations

42
h-index

94
g-index

122
ext. papers

9,644
ext. citations

5.2
avg, IF

5.42
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 116 | 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 |
| 115 | Leaching model of radionuclides in metal-organic framework particles. <i>Computational Materials Science</i> , 2022 , 201, 110886 | 3.2 | 0 |
| 114 | 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 | |
| 113 | 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 |
| 112 | Microstructure-Dependent Rate Theory Model of Radiation-Induced Segregation in Binary Alloys. <i>Frontiers in Materials</i> , 2021 , 8, | 4 | 1 |
| 111 | Lattice misorientation evolution and grain refinement in Al-Si alloys under high-strain shear deformation. <i>Materialia</i> , 2021 , 18, 101146 | 3.2 | 3 |
| 110 | A phase field study of the thermal migration of gas bubbles in UO ₂ nuclear fuel under temperature gradient. <i>Computational Materials Science</i> , 2020 , 183, 109817 | 3.2 | 2 |
| 109 | A quantitative phase-field model of gas bubble evolution in UO ₂ . <i>Computational Materials Science</i> , 2020 , 184, 109867 | 3.2 | 6 |
| 108 | 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 |
| 107 | Microstructure-based model of nonlinear ultrasonic response in materials with distributed defects. <i>Journal of Applied Physics</i> , 2019 , 125, 145108 | 2.5 | 9 |
| 106 | Phase-field model of pitting corrosion kinetics in metallic materials. <i>Npj Computational Materials</i> , 2018 , 4, | 10.9 | 28 |
| 105 | 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 |
| 104 | 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 |
| 103 | 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 |
| 102 | Coupled Lattice Polarization and Ferromagnetism in Multiferroic NiTiO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21879-21890 | 9.5 | 16 |
| 101 | Mesoscale Phase Field Modeling of Glass Strengthening Under Triaxial Compression. <i>International Journal of Applied Glass Science</i> , 2016 , 7, 384-393 | 1.8 | |
| 100 | Nanomechanics of Ferroelectric Thin Films and Heterostructures. <i>Springer Series in Materials Science</i> , 2016 , 469-488 | 0.9 | |

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| 99 | 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 |
| 98 | Magnetization Reversal Process of Single Crystal Fe Containing a Nonmagnetic Particle. <i>Chinese Physics Letters</i> , 2015 , 32, 067502 | 1.8 | |
| 97 | Influence of interfacial coherency on ferroelectric switching of superlattice BaTiO ₃ /SrTiO ₃ . <i>Applied Physics Letters</i> , 2015 , 107, 122906 | 3.4 | 11 |
| 96 | Simulation of magnetic hysteresis loops and magnetic Barkhausen noise of Iron containing nonmagnetic particles. <i>AIP Advances</i> , 2015 , 5, 077168 | 1.5 | 6 |
| 95 | Meso-scale magnetic signatures for nuclear reactor steel irradiation embrittlement monitoring 2015 , | | 2 |
| 94 | 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 |
| 93 | Piezoelectric enhancement of (PbTiO ₃) _m /(BaTiO ₃) _n ferroelectric superlattices through domain engineering. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 7 |
| 92 | 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 |
| 91 | 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 |
| 90 | 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 |
| 89 | 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 |
| 88 | Diffusion of small He clusters in bulk and grain boundaries in Fe. <i>Journal of Nuclear Materials</i> , 2013 , 442, S667-S673 | 3.3 | 29 |
| 87 | 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 |
| 86 | . <i>IEEE Magnetics Letters</i> , 2013 , 4, 3500104-3500104 | 1.6 | 9 |
| 85 | Minimum tetragonality in PbTiO ₃ /BaTiO ₃ ferroelectric superlattices. <i>Journal of Applied Physics</i> , 2013 , 114, 144103 | 2.5 | 3 |
| 84 | Computer simulations of interstitial loop growth kinetics in irradiated bcc Fe. <i>Journal of Nuclear Materials</i> , 2012 , 427, 259-267 | 3.3 | 21 |
| 83 | 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 |
| 82 | Local sequential ensemble Kalman filter for simultaneously tracking states and parameters 2012 , | | 2 |

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|----|---|------|-----|
| 81 | Pressure and electric field effects on piezoelectric responses of KNbO ₃ . <i>Journal of Applied Physics</i> , 2012 , 112, 064106 | 2.5 | 5 |
| 80 | Ab initio study of defect properties in YPO ₄ . <i>Computational Materials Science</i> , 2012 , 54, 170-175 | 3.2 | 9 |
| 79 | Dipole spring ferroelectrics in superlattice SrTiO ₃ /BaTiO ₃ thin films exhibiting constricted hysteresis loops. <i>Applied Physics Letters</i> , 2012 , 100, 092905 | 3.4 | 21 |
| 78 | 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 |
| 77 | Phase-field simulations of thickness-dependent domain stability in PbTiO ₃ thin films. <i>Acta Materialia</i> , 2012 , 60, 3296-3301 | 8.4 | 15 |
| 76 | 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 |
| 75 | Dynamic Paradigm for Future Power Grid Operation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 218-223 | | 1 |
| 74 | Calibrating multi-machine power system parameters with the extended Kalman filter 2011 , | | 16 |
| 73 | 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 |
| 72 | Quantification of internal electric fields and local polarization in ferroelectric superlattices. <i>ACS Nano</i> , 2011 , 5, 640-6 | 16.7 | 28 |
| 71 | PMU placement for dynamic state tracking of power systems 2011 , | | 7 |
| 70 | Ferroelastic switching for nanoscale non-volatile magnetoelectric devices. <i>Nature Materials</i> , 2010 , 9, 309-14 | 27 | 344 |
| 69 | 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 |
| 68 | Correlated polarization switching in the proximity of a 180° domain wall. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 58 |
| 67 | Piezoelectric anisotropy of a KNbO ₃ single crystal. <i>Journal of Applied Physics</i> , 2010 , 108, 094111 | 2.5 | 22 |
| 66 | A modified Landau-Devonshire thermodynamic potential for strontium titanate. <i>Applied Physics Letters</i> , 2010 , 96, 232902 | 3.4 | 31 |
| 65 | 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 |
| 64 | Piezoelectric response of single-crystal PbZr _{1-x} Ti _x O ₃ near morphotropic phase boundary predicted by phase-field simulation. <i>Applied Physics Letters</i> , 2010 , 97, 252904 | 3.4 | 29 |

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|----|---|------|-----|
| 63 | 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 |
| 62 | 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 |
| 61 | Thermodynamics and ferroelectric properties of KNbO ₃ . <i>Journal of Applied Physics</i> , 2009 , 106, 104118 | 2-5 | 59 |
| 60 | 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 |
| 59 | Morphology, orientation relationship, and stability analysis of Cu ₂ O nanoclusters on SrTiO ₃ (100). <i>Applied Physics Letters</i> , 2009 , 95, 053111 | 3-4 | 6 |
| 58 | A thermodynamic free energy function for potassium niobate. <i>Applied Physics Letters</i> , 2009 , 94, 072904 | 3-4 | 30 |
| 57 | Surface effect on domain wall width in ferroelectrics. <i>Journal of Applied Physics</i> , 2009 , 106, 084102 | 2-5 | 50 |
| 56 | A ferroelectric oxide made directly on silicon. <i>Science</i> , 2009 , 324, 367-70 | 33-3 | 320 |
| 55 | 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 |
| 54 | Thermodynamics of nanodomain formation and breakdown in scanning probe microscopy: Landau-Ginzburg-Devonshire approach. <i>Physical Review B</i> , 2009 , 80, | 3-3 | 56 |
| 53 | Size-dependent polarization distribution in ferroelectric nanostructures: Phase field simulations. <i>Applied Physics Letters</i> , 2008 , 92, 162905 | 3-4 | 49 |
| 52 | 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 |
| 51 | 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 |
| 50 | Polarization rotation transitions in anisotropically strained SrTiO ₃ thin films. <i>Applied Physics Letters</i> , 2008 , 92, 192902 | 3-4 | 17 |
| 49 | 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 |
| 48 | Strain effect on coercive field of epitaxial barium titanate thin films. <i>Applied Physics Letters</i> , 2008 , 92, 142907 | 3-4 | 42 |
| 47 | Effect of ferroelastic twin walls on local polarization switching: Phase-field modeling. <i>Applied Physics Letters</i> , 2008 , 93, 162901 | 3-4 | 28 |
| 46 | 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 |

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| 45 | Three-dimensional phase-field simulation of domain structures in ferroelectric islands. <i>Applied Physics Letters</i> , 2008 , 92, 122906 | 3-4 | 21 |
| 44 | 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 |
| 43 | Computer simulation of ferroelectric domain structures in epitaxial BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2008 , 103, 094111 | 2-5 | 64 |
| 42 | Influence of interfacial dislocations on hysteresis loops of ferroelectric films. <i>Journal of Applied Physics</i> , 2008 , 104, 104110 | 2-5 | 38 |
| 41 | Equilibrium strain-energy analysis of coherently strained core-shell nanowires. <i>Journal of Crystal Growth</i> , 2008 , 310, 3084-3092 | 1-6 | 62 |
| 40 | 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 |
| 39 | Interfacial coherency and ferroelectricity of BaTiO ₃ /SrTiO ₃ superlattice films. <i>Applied Physics Letters</i> , 2007 , 91, 252904 | 3-4 | 45 |
| 38 | Phase-field model for epitaxial ferroelectric and magnetic nanocomposite thin films. <i>Applied Physics Letters</i> , 2007 , 90, 052909 | 3-4 | 74 |
| 37 | 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 |
| 36 | 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 |
| 35 | Prediction of ferroelectricity in BaTiO ₃ /SrTiO ₃ superlattices with domains. <i>Applied Physics Letters</i> , 2007 , 91, 112914 | 3-4 | 66 |
| 34 | Multiferroic domain dynamics in strained strontium titanate. <i>Physical Review Letters</i> , 2006 , 97, 257602 | 7-4 | 74 |
| 33 | Phase transitions and domain structures in strained pseudocubic (100) SrTiO ₃ thin films. <i>Physical Review B</i> , 2006 , 73, | 3-3 | 133 |
| 32 | 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 |
| 31 | Temperature-strain phase diagram for BaTiO ₃ thin films. <i>Applied Physics Letters</i> , 2006 , 88, 072905 | 3-4 | 168 |
| 30 | Probing nanoscale ferroelectricity by ultraviolet Raman spectroscopy. <i>Science</i> , 2006 , 313, 1614-6 | 33-3 | 272 |
| 29 | c-axis oriented epitaxial BaTiO ₃ films on (001) Si. <i>Journal of Applied Physics</i> , 2006 , 100, 024108 | 2-5 | 97 |
| 28 | 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 |

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|----|--|------|------|
| 27 | Phase-field simulation of polarization switching and domain evolution in ferroelectric polycrystals. <i>Acta Materialia</i> , 2005 , 53, 5313-5321 | 8.4 | 122 |
| 26 | A phenomenological thermodynamic potential for BaTiO ₃ single crystals. <i>Journal of Applied Physics</i> , 2005 , 98, 064101 | 2.5 | 310 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 | | |
| 22 | Dynamic drag of solute atmosphere on moving edge dislocationsPhase-field simulation. <i>Journal of Applied Physics</i> , 2004 , 96, 229-236 | 2.5 | 17 |
| 21 | Work function of the mixed-valent manganese perovskites. <i>Journal of Applied Physics</i> , 2004 , 95, 7971-7975 | 2.5 | 59 |
| 20 | Room-temperature ferroelectricity in strained SrTiO ₃ . <i>Nature</i> , 2004 , 430, 758-61 | 50.4 | 1631 |
| 19 | Effect of solutes on dislocation motion in phase-field simulation. <i>International Journal of Plasticity</i> , 2004 , 20, 403-425 | 7.6 | 86 |
| 18 | Phase-field simulations of ferroelectric/ferroelastic polarization switching. <i>Acta Materialia</i> , 2004 , 52, 749-764 | 8.4 | 248 |
| 17 | Absence of low-temperature phase transitions in epitaxial BaTiO ₃ thin films. <i>Physical Review B</i> , 2004 , 69, | 3.3 | 78 |
| 16 | Enhancement of ferroelectricity in strained BaTiO ₃ thin films. <i>Science</i> , 2004 , 306, 1005-9 | 33.3 | 1459 |
| 15 | 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 |
| 14 | Three-dimensional phase-field modeling of spinodal decomposition in constrained films. <i>Metals and Materials International</i> , 2003 , 9, 61-66 | 2.4 | 18 |
| 13 | Computer simulation of spinodal decomposition in constrained films. <i>Acta Materialia</i> , 2003 , 51, 5173-5185 | 3.4 | 89 |
| 12 | Effect of interfacial dislocations on ferroelectric phase stability and domain morphology in a thin filmPhase-field model. <i>Journal of Applied Physics</i> , 2003 , 94, 2542-2547 | 2.5 | 65 |
| 11 | 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 |
| 10 | Effect of electrical boundary conditions on ferroelectric domain structures in thin films. <i>Applied Physics Letters</i> , 2002 , 81, 427-429 | 3.4 | 195 |

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| 9 | 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 |
| 8 | Phase-field model of domain structures in ferroelectric thin films. <i>Applied Physics Letters</i> , 2001 , 78, 3878-3880 | 34 | 276 |
| 7 | 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 |
| 6 | 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 |
| 5 | Thermal stresses in coated structures. <i>Surface and Coatings Technology</i> , 1998 , 99, 125-131 | 4.4 | 4 |
| 4 | The stable configurations of small vacancy clusters in. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1996 , 4, 493-499 | 2 | 5 |
| 3 | 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 |
| 2 | 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 |
| 1 | Torsion of composite cylinder containing crack terminating at bimaterial interface. <i>International Journal of Fracture</i> , 1993 , 63, 11-20 | 2.3 | |