Jie-Fang Li

List of Publications by Year
in descending order

56 papers	2,671 citations	218592 26 h-index	197736 49 g-index
58 all docs	58 docs citations	58 times ranked	1877 citing authors

#	Article	IF	Citations
1	Longitudinal and transverse magnetoelectric voltage coefficients of magnetostrictive/piezoelectric laminate composite: theory. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 1253-1261.	1.7	287
2	Ultrahigh magnetic field sensitivity in laminates of TERFENOL-D and Pb(Mg1/3Nb2/3)O3â€“PbTiO3 crystals. Applied Physics Letters, 2003, 83, 2265-2267.	1.5	279
3	Push-pull mode magnetostrictive/piezoelectric laminate composite with an enhanced magnetoelectric voltage coefficient. Applied Physics Letters, 2005, 87, 062502.	1.5	195
4	Characterization of magnetoelectric laminate composites operated in longitudinal-transverse and transverseâ€“transverse modes. Journal of Applied Physics, 2004, 95, 2625-2630.	1.1	152
5	Vortex magnetic field sensor based on ring-type magnetoelectric laminate. Applied Physics Letters, 2004, 85, 2307-2309.	1.5	134
6	Mesostructure of Calcium Silicate Hydrate (C-S-H) Gels in Portland Cement Paste: Short-Range Ordering, Nanocrystallinity, and Local Compositional Order. Journal of the American Ceramic Society, 1996, 79, 1731-1744.	1.9	108
7	A longitudinal-longitudinal mode TERFENOL-Dâˆ•Pb(Mg1âˆ•3Nb2âˆ•3)O3â€“PbTiO3 laminate composite. Applied Physics Letters, 2004, 85, 5305-5306.	1.5	102
8	Extremely low frequency response of magnetoelectric multilayer composites. Applied Physics Letters, 2005, 86, 102901.	1.5	101
9	Polarization switching mechanisms and electromechanical properties of La-modified lead zirconate titanate ceramics. Journal of Materials Research, 1995, 10, 926-938.	1.2	91
10	Incommensurately Modulated Polar Structures in Antiferroelectric Sn-Modified Lead Zirconate Titanate: The Modulated Structure and Its Influences on Electrically Induced Polarizations and Strains. Journal of the American Ceramic Society, 1995, 78, 2101-2112.	1.9	89
11	Circumferential-mode, quasi-ring-type, magnetoelectric laminate compositeâ€”a highly sensitive electric current andâˆ•or vortex magnetic field sensor. Applied Physics Letters, 2005, 86, 182506.	1.5	88
12	Magnetoelectric coupling, efficiency, and voltage gain effect in piezoelectric-piezomagnetic laminate composites. Journal of Materials Science, 2006, 41, 97-106.	1.7	84
13	Longitudinal and transverse magnetoelectric voltage coefficients of magnetostrictive/ piezoelectric laminate composite: experiments. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 794-799.	1.7	83
14	Effects of lanthanum modification on rhombohedral Pb(Zr_{1â^'x}Ti_x)O₃ ceramics: Part I. Transformation from normal to relaxor ferroelectric behaviors. Journal of Materials Research, 1996, 11, 618-625.	1.2	75
15	Ferroelectric behaviours dominated by mobile and randomly quenched impurities in modified lead zirconatetitanate ceramics. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1997, 76, 59-74.	0.6	71
16	Circumferentially magnetized and circumferentially polarized magnetostrictive/piezoelectric laminated rings. Journal of Applied Physics, 2004, 96, 3382-3387.	1.1	70
17	Magnetoelectric effect in Terfenol-Dâˆ•Pb(Zr,TiO)3âˆ•Î¼-metal laminate composites. Applied Physics Letters, 2006, 89, 122903.	1.5	67
18	Observation of a sequence of domain-like states with increasing disorder in ferroelectrics. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 74, 395-406.	0.7	64

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19	Coexistence of Relaxor and Normal Ferroelectric Phases in Morphotropic Phase Boundary Compositions of Lanthanumâ€Modified Lead Zirconate Titanate. Journal of the American Ceramic Society, 1998, 81, 557-564.	1.9	61
20	Kinetics of polarization reversal in 0.7Pb(Mg1/3Nb2/3)O3â€“0.3PbTiO3: Heterogeneous nucleation in the vicinity of quenched random fields. Journal of Applied Physics, 2001, 90, 2995-3003.	1.1	55
21	Effects of lanthanum modification on rhombohedral Pb(Zr_{1â^'x}Ti_x)O₃ ceramics: Part II. Relaxor behavior versus enhanced antiferroelectric stability. Journal of Materials Research, 1996, 11, 626-638.	1.2	46
22	Role of defect distributions and mobility on ferroelectric phase transformations in lead zirconate titanate. Applied Physics Letters, 1997, 71, 1062-1064.	1.5	36
23	Domain rotation induced strain effect on the magnetic and magneto-electric response in CoFe2O4/Pb(Mg,Nb)O3-PbTiO3 heterostructures. Journal of Applied Physics, 2012, 111, 034108.	1.1	34
24	Strong magnetoelectric charge coupling in stress-biased multilayer-piezoelectricâ^•magnetostrictive composites. Journal of Applied Physics, 2007, 101, 124102.	1.1	32
25	Frequency-dependent electromechanical properties for sol-gel deposited ferroelectric lead zirconate titanate thin layers: Thickness and processing effects. Journal of Materials Research, 1995, 10, 1435-1440.	1.2	28
26	Twoâ€Phase Coexistence in Singleâ€Grain BaTiO₃â€“(Mn_{0.5}Zn_{0.5})Fe₂O₄ Composites, Via Solidâ€State Reaction. Journal of the American Ceramic Society, 2009, 92, 1552-1555.	1.9	28
27	Solid-state synthesis of perovskite-spinel nanocomposites. Journal of Materials Chemistry, 2009, 19, 4998.	6.7	26
28	Magnetoelectric effect in crystallographically textured BaTiO3 films deposited on ferromagnetic metallic glass foils. Journal of Applied Physics, 2011, 109, .	1.1	24
29	Incommensurately Modulated Polar Structures in Antiferroelectric Tinâ€Modified Lead Zirconate Titanate: II, Dependence of Structureâ€Property Relations on Tin Content. Journal of the American Ceramic Society, 1998, 81, 2225-2236.	1.9	19
30	Dephasing of transverse spin current in ferrimagnetic alloys. Physical Review B, 2021, 103, .	1.1	19
31	Electric-field-induced orthorhombic to monoclinic MB phase transition in [111] electric field cooled Pb(Mg1â^•3Nb2â^•3O3)â€“30%PbTiO3 crystals. Journal of Applied Physics, 2006, 100, 084102.	1.1	17
32	Youngâ€™s modulus and hysteretic losses of 0.7Pb(Mg[sub 1/3]Nb[sub 2/3])O[sub 3]â€“0.3PbTiO[sub 3]: single versus polycrystalline forms. Journal of Applied Physics, 2003, 94, 7719.	1.1	14
33	Role of potassium comodification on domain evolution and electrically induced strains in La modified lead zirconate titanate ferroelectric ceramics. Journal of Applied Physics, 2000, 88, 3433-3438.	1.1	11
34	Anomalous Electromechanical Behavior of Portland Cement: Electro-osmotically-Induced Shape Changes. Journal of the American Ceramic Society, 1995, 78, 416-420.	1.9	10
35	Observation of multiple electrically induced phase transitions and a decoupling of the induced strain and polarization in Sn-modified lead zirconate titanate. Applied Physics Letters, 1997, 71, 1472-1474.	1.5	9
36	Tunable magnetic anisotropy of CoFe₂O₄ nanopillar arrays released from BiFeO₃ matrix. Physica Status Solidi - Rapid Research Letters, 2012, 6, 92-94.	1.2	9

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37	Self-assembled NaNbO3-Nb2O5 (ferroelectric-semiconductor) heterostructures grown on LaAlO3 substrates. Applied Physics Letters, 2012, 101, .	1.5	8
38	Electrically Induced Shape Changes in Hardened Cement Pastes and Porous Silica Gels: The Dynamic Nature of Gel Pore Structures during Water Transport. Journal of the American Ceramic Society, 1995, 78, 3233-3243.	1.9	7
39	The role of local compositional instability in mixed B-site cation relaxors. Ferroelectrics, 1994, 158, 381-386.	0.3	5
40	Coaxial Multiferroic Nanorod Arrays. Journal of the American Ceramic Society, 2010, 93, 362-364.	1.9	5
41	A new perspective of high Zr-content lead zirconate titanate. Ferroelectrics, 1996, 183, 311-319.	0.3	4
42	Resonance acoustic field position sensor. Applied Physics Letters, 2003, 82, 4181-4183.	1.5	4
43	An acoustic position sensor. Review of Scientific Instruments, 2003, 74, 4863-4868.	0.6	4
44	Magnetoelectric coupling, efficiency, and voltage gain effect in piezoelectric-piezomagnetic laminate composites. , 2006, , 97-106.		4
45	The influence of mobile vs. randomly quenched impurities on ferroelectric phase transformations. Ferroelectrics, 1998, 206, 275-291.	0.3	3
46	Vacuum response and gas leak detection in piezoelectrically driven sound-resonance cavity. Applied Physics Letters, 2004, 84, 4144-4146.	1.5	3
47	Observation of frequency dependence in the electromechanical properties of ferroelectric thin-layers. Ferroelectrics, 1996, 184, 61-68.	0.3	2
48	Phaseâ€controlled epitaxial growth of iron oxide thin films on MgO(001) and LaAlO₃(001) substrates. Physica Status Solidi - Rapid Research Letters, 2012, 6, 89-91.	1.2	2
49	Domainlike Organizations in Ferroelectrics Containing Quenched Randomness. Materials Research Society Symposia Proceedings, 1996, 453, 419.	0.1	1
50	Tri-Duality Theory in Phase Transformations of Ferroelectric Crystals with Random Defects. Advances in Mechanics and Mathematics, 2004, , 67-84.	0.2	1
51	Electrically-induced shape changes in cement-based materials. , 0, , .		0
52	Electrically-Induced Strains in Sn-Modified Lead Zirconate Titanate. Materials Research Society Symposia Proceedings, 1994, 360, 3.	0.1	0
53	Domain-like organizations in ferroelectrics containing quenched randomness. , 0, , .		0
54	Hierarchial symmetries in PZN-PT crystals due to symmetry reduction by domain averaging. , 0, , .		0

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55	Magnetoelectric Laminate Composites â€“ Enhanced Magnetic Field Sensitivity, and High Voltage Gain. Materials Research Society Symposia Proceedings, 2005, 881, 1.	0.1	0
56	Hybrid Twoâ€Phase Magnetic Nanorod Grains. Journal of the American Ceramic Society, 2010, 93, 3803-3807.	1.9	0