

Ruiping Wang

List of Publications by Year in descending order

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79
papers

2,508
citations

257450

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197818

49
g-index

79
all docs

79
docs citations

79
times ranked

1855
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications of lead-free piezoelectric materials. MRS Bulletin, 2018, 43, 612-616.	3.5	93
2	Phase diagram of $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3$ - $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{ZrO}_3$ solid solution. Journal of Advanced Dielectrics, 2016, 06, 1650014.	2.4	11
3	Full set of material constants of $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3$ - BaZrO_3 - $(\text{Bi}_{0.5}\text{Li}_{0.5})\text{TiO}_3$ lead-free piezoelectric ceramics at the morphotropic phase boundary. Journal of Alloys and Compounds, 2016, 655, 290-295.	5.5	21
4	Temperature Stability of Lead-Free Niobate Piezoceramics with Engineered Morphotropic Phase Boundary. Journal of the American Ceramic Society, 2015, 98, 2177-2182.	3.8	124
5	Oxygen Diffusion and Nonstoichiometry in BiFeO_3 . Inorganic Chemistry, 2013, 52, 12806-12810.	4.0	14
6	Formation of Morphotropic Phase Boundary in $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3$ - BaZrO_3 - $(\text{Bi}_{0.5}\text{Li}_{0.5})\text{TiO}_3$ Lead-Free Piezoelectric Ceramics. Japanese Journal of Applied Physics, 2013, 52, 07HB02.	1.4	10
7	Effects of Mn Additive on Dielectric and Piezoelectric Properties of $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3$ - BaZrO_3 - $(\text{Bi}_{0.5}\text{K}_{0.5})\text{TiO}_3$ Ternary System. Japanese Journal of Applied Physics, 2012, 51, 07GC01.	1.4	10
8	Effects of Mn Additive on Dielectric and Piezoelectric Properties of $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3$ - BaZrO_3 - $(\text{Bi}_{0.5}\text{K}_{0.5})\text{TiO}_3$ System. Japanese Journal of Applied Physics, 2012, 51, 07GC01.	1.4	10
9	Effects of A-Site Ions on the Phase Transition Temperatures and Dielectric Properties of $(1-x)(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3$ - $x\text{AZrO}_3$ Solid Solutions. Japanese Journal of Applied Physics, 2011, 50, 09ND10.	1.5	17
10	Effects of A-Site Ions on the Phase Transition Temperatures and Dielectric Properties of $(1-x)(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3$ - $x\text{AZrO}_3$ Solid Solutions. Japanese Journal of Applied Physics, 2011, 50, 09ND10.	1.5	36
11	Ferroelectricity in NaNbO_3 : Revisited. Ferroelectrics, 2010, 401, 51-55.	0.6	18
12	Universality in phase diagram of $(\text{K},\text{Na})\text{NbO}_3$ - MTiO_3 solid solutions. Applied Physics Letters, 2009, 95, 092905.	3.3	51
13	Fabrication and Characterization of Niobate Piezoelectric Ceramics with Sintering Aids. Ferroelectrics, 2009, 385, 6141-6148.	0.6	3
14	Tuning the orthorhombic-rhombohedral phase transition temperature in sodium potassium niobate by incorporating barium zirconate. Physica Status Solidi - Rapid Research Letters, 2009, 3, 142-144.	2.4	133
15	Enhanced piezoelectricity around the tetragonal/orthorhombic morphotropic phase boundary in $(\text{Na},\text{K})\text{NbO}_3$ - ATiO_3 solid solutions. Journal of Electroceramics, 2008, 21, 263-266.	2.0	56
16	Dielectric characters of $0.7\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - 0.3PbTiO_3 ceramics fabricated at ultra-low temperature by the spark-plasma-sintering method. Ceramics International, 2008, 34, 1449-1452.	4.8	8
17	Dielectric properties of SrTiO_3 thin film prepared in a mixture of 18O_2 and 16O_2 gas. Journal of Alloys and Compounds, 2008, 449, 48-51.	5.5	5
18	Dynamical Properties of Polar Nanoregions of Relaxor Ferroelectric $\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - 0.29PbTiO_3 . Journal of the Physical Society of Japan, 2008, 77, 033707.	1.6	38

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19	Investigation on Dielectric and Piezoelectric Properties of (1-x)(Na _{0.5} K _{0.5})NbO ₃ -xSrTiO ₃ Ceramics. <i>Ferroelectrics</i> , 2007, 348, 106-112.	0.6	3
20	Piezoelectric (Na _{0.5} K _{0.5})NbO ₃ -SrTiO ₃ Ceramics in the Tetragonal-Orthorhombic Phase Boundary Studied by Raman Spectroscopy. <i>Ferroelectrics</i> , 2007, 347, 55-59.	0.6	6
21	Broadband Inelastic Light Scattering Study on Relaxor Ferroelectrics. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 7151-7154.	1.5	8
22	Diffuse Phase Transition of 0.8Pb(Ni _{1/3} Nb _{2/3})O ₃ -0.2PbTiO ₃ Single Crystals Studied by Micro-Brillouin Scattering. <i>Ferroelectrics</i> , 2007, 346, 37-42.	0.6	5
23	Dynamical properties of the relaxor ferroelectric 0.71Pb(Ni _{1/3} Nb _{2/3})O ₃ -0.29PbTiO ₃ probed by Brillouin and Raman scattering. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 2632-2636.	3.0	0
24	Capacitance thermometer made of oxygen isotope-exchanged strontium titanate perovskite. <i>Applied Physics Letters</i> , 2006, 88, 082906.	3.3	7
25	Frequency Dependence of Dielectric Constant of Strontium Titanate Films with Single-Crystal-Like Behavior. <i>Ferroelectrics</i> , 2006, 335, 45-50.	0.6	4
26	Phase Diagram of the (Na _{0.5} K _{0.5})NbO ₃ -ATiO ₃ Solid Solution. <i>Ferroelectrics</i> , 2006, 336, 39-46.	0.6	25
27	Capacitance Temperature Sensor Using Ferroelectric (Sr _{0.95} Ca _{0.05})TiO ₃ Perovskite. <i>Ferroelectrics</i> , 2006, 331, 141-145.	0.6	6
28	Capacitance thermometer using Ba _x Sr _{1-x} TiO ₃ solid solutions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 2546-2550.	1.8	2
29	Effects of Vacancies on the Dielectric and Piezoelectric Properties of (Na _{0.5} K _{0.5})NbO ₃ -SrTiO ₃ Solid Solution. <i>Ferroelectrics</i> , 2006, 331, 135-139.	0.6	8
30	Raman spectra of the ferroelectric phase of SrTi ₁₈ O ₃ : Symmetry and domains below T _c and the origin of the phase transition. <i>Physical Review B</i> , 2006, 74, .	3.2	41
31	Broadband inelastic light scattering of a relaxor ferroelectric 0.71Pb(Ni ^{1/3} Nb ^{2/3})O ₃ -0.29PbTiO ₃ . <i>Applied Physics Letters</i> , 2006, 89, 212903.	3.3	43
32	Capacitance temperature sensor using epitaxial SrTiO ₃ film with a single-crystal-like behavior. <i>Thin Solid Films</i> , 2005, 486, 145-148.	1.8	13
33	Predominant factors affecting the dielectric and piezoelectric properties of bismuth-containing complex perovskite solid solution. <i>Solid State Communications</i> , 2005, 134, 791-795.	1.9	8
34	Influence of a degraded SrTiO ₃ layer at the YBa ₂ Cu ₃ O _{7-δ} /SrTiO ₃ interface on the dielectric behavior at cryogenic temperature. <i>Cryogenics</i> , 2005, 45, 300-303.	1.7	0
35	Phase diagram and enhanced piezoelectricity in the strontium titanate doped potassium-sodium niobate solid solution. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005, 202, R57-R59.	1.8	135
36	Large dielectric constant arising from space-charge polarization in a SrTiO ₃ thin film grown on an YBa ₂ Cu ₃ O _{7-δ} layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005, 202, R152-R154.	1.8	7

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37	Central Peak in SrTi18O3 Studied by Light Scattering. <i>Ferroelectrics</i> , 2005, 314, 79-83.	0.6	0
38	Structure and Dielectric Behavior of Epitaxially Grown SrTiO3 Film between YBa2Cu3O7- δ Electrodes. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L170-L172.	1.5	9
39	High-pressure synthesis and ferroelectric properties in perovskite-type BiScO3- λ -PbTiO3 solid solution. <i>Journal of Applied Physics</i> , 2004, 95, 231-235.	2.5	103
40	Fabrication and characterization of potassium- λ -sodium niobate piezoelectric ceramics by spark-plasma-sintering method. <i>Materials Research Bulletin</i> , 2004, 39, 1709-1715.	5.2	141
41	High Orientation of PZT Single Crystal Grains and Piezoelectric Properties in 1-3 Type Composite Sheet. <i>Integrated Ferroelectrics</i> , 2004, 63, 127-130.	0.7	1
42	Light Scattering Studies of Soft Mode in SrTi18O3. <i>Ferroelectrics</i> , 2004, 304, 71-76.	0.6	3
43	Birefringence Study of Ferroelectric Ordering in Oxygen Isotope Exchanged System SrTi(16O1-x18O)x3. <i>Ferroelectrics</i> , 2004, 304, 77-82.	0.6	5
44	Dielectric Properties of SrTi 18 O 3. <i>Ferroelectrics</i> , 2003, 285, 3-17.	0.6	6
45	Light Scattering Study in Ferroelectric SrTi 18 O 3. <i>Ferroelectrics</i> , 2003, 285, 27-31.	0.6	3
46	Nonlinear susceptibility and phase transition in SrTi18O3. <i>Physical Review B</i> , 2003, 67, .	3.2	21
47	Impulsive Stimulated Raman Scattering of SrTi(18 O x 16 O 1 - λ x) 3. <i>Ferroelectrics</i> , 2003, 285, 33-39.	0.6	3
48	Universal Relation between Oxygen Mass and T_{cin} in SrTiO3. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 1310-1311.	1.6	13
49	Preparation of parallel capacitor of epitaxial SrTiO3 film with a single-crystal-like behavior. <i>Applied Physics Letters</i> , 2003, 83, 2883-2885.	3.3	27
50	Dynamical mechanism of the ferroelectric phase transition of SrTi18O3 studied by light scattering. <i>Physical Review B</i> , 2003, 68, .	3.2	19
51	Raman Spectra of Ferroelectric Soft Mode in SrTiO 3 : Effect of Electric Field. <i>Ferroelectrics</i> , 2003, 285, 41-48.	0.6	13
52	MPB Phase Diagram and Ferroelectric Properties in the PbTiO 3 -BiScO 3 System. <i>Ferroelectrics</i> , 2003, 284, 121-128.	0.6	35
53	Dielectric Properties of Spark-Plasma-Sintered (Na 0.5 K 0.5)NbO 3 -PbTiO 3 Ceramics. <i>Ferroelectrics</i> , 2003, 286, 93-99.	0.6	6
54	Dielectric and Piezoelectric Properties of Barium-substituted Sr1.9Ca0.1NaNb5O15 Ceramics. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 7404-7409.	1.5	32

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55	Phase Transition of SrTi ₁₈ O ₃ Studied with Raman Scattering. <i>Ferroelectrics</i> , 2002, 272, 15-19.	0.6	1
56	Raman Spectra in Ferroelectric SrTi ₁₈ O ₃ . <i>Ferroelectrics</i> , 2002, 272, 155-160.	0.6	15
57	Brillouin Scattering Study of Ferroelectric SrTi(18O _x 16O _{18-x}) ₃ . <i>Ferroelectrics</i> , 2002, 272, 39-44.	0.6	6
58	Piezoelectric Properties of Spark-Plasma-Sintered (Na _{0.5} K _{0.5})NbO ₃ -PbTiO ₃ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 7119-7122.	1.5	132
59	Crossover between Ferroelectric and Quantum Paraelectric in SrTiO ₃ both by Isotopic Substitution and Hydrostatic Pressure. <i>Materials Research Society Symposia Proceedings</i> , 2002, 718, 1.	0.1	2
60	Large tunability driven by low electric field in oxygen-isotope-exchanged strontium titanate at cryogenic temperatures. <i>Applied Physics Letters</i> , 2002, 80, 2964-2966.	3.3	7
61	Domain State Properties of the Oxygen Isotope-Exchanged Strontium Titanate: SrTi ₁₈ O ₃ . <i>Ferroelectrics</i> , 2002, 269, 177-182.	0.6	0
62	Second-harmonic study of polar symmetry and domain structure in SrTi ₁₈ O ₃ . <i>Applied Physics Letters</i> , 2002, 81, 3022-3024.	3.3	24
63	Soft-phonon Dynamics in the Isotopically Induced Ferroelectric Phase Transition of Strontium Titanate. <i>Materials Research Society Symposia Proceedings</i> , 2002, 718, 1.	0.1	3
64	Phase transition and random-field induced domain wall response of SrTi ₁₈ O ₃ . <i>European Physical Journal B</i> , 2002, 28, 163-171.	1.5	18
65	Soft Mode of SrTi ₁₈ O ₃ x16O ₃ (1-x) Studied by Raman Scattering. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 1254-1256.	1.6	8
66	Ferroelectric phase transition of SrTi ₁₈ O ₃ studied by Brillouin scattering. <i>Ferroelectrics</i> , 2001, 261, 213-218.	0.6	7
67	Dielectric properties and phase transition mechanisms in Sr ^x BaxTiO ₃ solid solution at low doping concentration. <i>Materials Research Bulletin</i> , 2001, 36, 1693-1701.	5.2	45
68	Powder X-ray diffraction study of ferroelectric phase transition in perovskite oxide CdTiO ₃ . <i>Ferroelectrics</i> , 2001, 259, 85-90.	0.6	9
69	Effects of A-site ion size mismatch on dielectric properties of SrTiO ₃ . <i>Ferroelectrics</i> , 2001, 262, 131-136.	0.6	1
70	Dielectric anomalies in oxygen-isotope exchanged SrTiO ₃ single crystals. <i>Ferroelectrics</i> , 2001, 262, 125-130.	0.6	9
71	Synthesis and dielectric properties of a perovskite Bi _{1/2} Ag _{1/2} TiO ₃ . <i>Ferroelectrics</i> , 2001, 264, 127-132.	0.6	16
72	Birefringence Study of Ferroelectric Ordering in Oxygen Isotope Exchanged Systems SrTi(16O _{1-x} 18O _x) ₃ . <i>Journal of the Physical Society of Japan</i> , 2001, 70, 3213-3216.	1.6	29

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73	Suppression of the quantum fluctuation in ^{18}O -enriched strontium titanate. <i>Physical Review B</i> , 2001, 64, .	3.2	66
74	Light scattering study of the ferroelectric phase transition in $\text{SrTi}_{18}\text{O}_3$. <i>Physical Review B</i> , 2001, 63, .	3.2	17
75	Raman Scattering Study of $\text{SrTi}_{18}\text{O}_3$. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 648-651.	1.6	24
76	Domain state properties of $\text{SrTi}_{(16\text{O}^{16}\text{O})_3}\text{O}_3$ single crystals. <i>Physical Review B</i> , 2000, 62, R731-R734.	3.2	32
77	Quantum ferroelectricity in SrTiO_3 induced by oxygen isotope exchange. <i>Applied Physics Letters</i> , 2000, 76, 221-223.	3.3	72
78	Effects of pressure on the dielectric properties of $\text{SrTi}_{18}\text{O}_3$ and $\text{SrTi}_{16}\text{O}_3$ single crystals. <i>Physical Review B</i> , 2000, 62, R3577-R3580.	3.2	24
79	Ferroelectricity Induced by Oxygen Isotope Exchange in Strontium Titanate Perovskite. <i>Physical Review Letters</i> , 1999, 82, 3540-3543.	7.8	516