

Ruiping Wang

List of Publications by Year in descending order

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257450

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all docs

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docs citations

79
times ranked

1855
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#	ARTICLE	IF	CITATIONS
1	Ferroelectricity Induced by Oxygen Isotope Exchange in Strontium Titanate Perovskite. <i>Physical Review Letters</i> , 1999, 82, 3540-3543.	7.8	516
2	Fabrication and characterization of potassium-sodium niobate piezoelectric ceramics by spark-plasma-sintering method. <i>Materials Research Bulletin</i> , 2004, 39, 1709-1715.	5.2	141
3	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
4	Tuning the orthorhombic-rhombohedral phase transition temperature in sodium potassium niobate by incorporating barium zirconate. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009, 3, 142-144.	2.4	133
5	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
6	Temperature Stability of Lead-Free Niobate Piezoceramics with Engineered Morphotropic Phase Boundary. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2177-2182.	3.8	124
7	High-pressure synthesis and ferroelectric properties in perovskite-type BiScO ₃ -PbTiO ₃ solid solution. <i>Journal of Applied Physics</i> , 2004, 95, 231-235.	2.5	103
8	Applications of lead-free piezoelectric materials. <i>MRS Bulletin</i> , 2018, 43, 612-616.	3.5	93
9	Quantum ferroelectricity in SrTiO ₃ induced by oxygen isotope exchange. <i>Applied Physics Letters</i> , 2000, 76, 221-223.	3.3	72
10	Suppression of the quantum fluctuation in ¹⁸ O-enriched strontium titanate. <i>Physical Review B</i> , 2001, 64, .	3.2	66
11	Enhanced piezoelectricity around the tetragonal/orthorhombic morphotropic phase boundary in (Na,K)NbO ₃ -ATiO ₃ solid solutions. <i>Journal of Electroceramics</i> , 2008, 21, 263-266.	2.0	56
12	Universality in phase diagram of (K,Na)NbO ₃ -MTiO ₃ solid solutions. <i>Applied Physics Letters</i> , 2009, 95, 092905.	3.3	51
13	Dielectric properties and phase transition mechanisms in Sr ^{1-x} BaxTiO ₃ solid solution at low doping concentration. <i>Materials Research Bulletin</i> , 2001, 36, 1693-1701.	5.2	45
14	Broadband inelastic light scattering of a relaxor ferroelectric 0.71Pb(Ni ^{1-x} Nb ^{2x-3})O ₃ -0.29PbTiO ₃ . <i>Applied Physics Letters</i> , 2006, 89, 212903.	3.3	43
15	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
16	Dynamical Properties of Polar Nanoregions of Relaxor Ferroelectric Pb(Ni _{1/3} Nb _{2/3})O ₃ -0.29PbTiO ₃ . <i>Journal of the Physical Society of Japan</i> , 2008, 77, 033707.	1.6	38
17	Effects of A-Site Ions on the Phase Transition Temperatures and Dielectric Properties of (1-x)(Na _{0.5} K _{0.5})NbO ₃ -xAZrO ₃ Solid Solutions. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 09ND10.	1.5	36
18	MPB Phase Diagram and Ferroelectric Properties in the PbTiO ₃ -BiScO ₃ System. <i>Ferroelectrics</i> , 2003, 284, 121-128.	0.6	35

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19	Domain state properties of SrTi(16O1 [~] x18Ox)3 single crystals. Physical Review B, 2000, 62, R731-R734.	3.2	32
20	Dielectric and Piezoelectric Properties of Barium-substituted Sr1.9Ca0.1NaNb5O15 Ceramics. Japanese Journal of Applied Physics, 2003, 42, 7404-7409.	1.5	32
21	Birefringence Study of Ferroelectric Ordering in Oxygen Isotope Exchanged Systems SrTi(16O1-x18Ox)3. Journal of the Physical Society of Japan, 2001, 70, 3213-3216.	1.6	29
22	Preparation of parallel capacitor of epitaxial SrTiO3 film with a single-crystal-like behavior. Applied Physics Letters, 2003, 83, 2883-2885.	3.3	27
23	Phase Diagram of the (Na0.5K0.5)NbO3-ATiO3 Solid Solution. Ferroelectrics, 2006, 336, 39-46.	0.6	25
24	Effects of pressure on the dielectric properties of SrTi18O3 and SrTi16O3 single crystals. Physical Review B, 2000, 62, R3577-R3580.	3.2	24
25	Second-harmonic study of polar symmetry and domain structure in SrTi18O3. Applied Physics Letters, 2002, 81, 3022-3024.	3.3	24
26	Formation of Morphotropic Phase Boundary in (Na_{0.5}K_{0.5})NbO₃-BaZrO₃-Bi_{0.5}Li_{0.5}TiO₃ Lead-Free Piezoelectric Ceramics. Japanese Journal of Applied Physics, 2013, 52, 07HB02.	1.4	20
27	Raman Scattering Study of SrTi18O3. Journal of the Physical Society of Japan, 2001, 70, 648-651.	1.6	24
28	Nonlinear susceptibility and phase transition in SrTi18O3. Physical Review B, 2003, 67, .	3.2	21
29	Full set of material constants of (Na0.5K0.5)NbO3-BaZrO3-Bi0.5Li0.5TiO3 lead-free piezoelectric ceramics at the morphotropic phase boundary. Journal of Alloys and Compounds, 2016, 655, 290-295.	5.5	21
30	Dynamical mechanism of the ferroelectric phase transition of SrTi18O3 studied by light scattering. Physical Review B, 2003, 68, .	3.2	19
31	Phase transition and random-field induced domain wall response of SrTi O 3. European Physical Journal B, 2002, 28, 163-171.	1.5	18
32	Ferroelectricity in NaNbO₃: Revisited. Ferroelectrics, 2010, 401, 51-55.	0.6	18
33	Light scattering study of the ferroelectric phase transition in SrTi18O3. Physical Review B, 2001, 63, .	3.2	17
34	Effects of A-Site Ions on the Phase Transition Temperatures and Dielectric Properties of (1-x)(Na_{0.5}K_{0.5})NbO₃-xAZrO₃ Solid Solutions. Japanese Journal of Applied Physics, 2011, 50, 09ND10.	1.5	17
35	Synthesis and dielectric properties of a perovskite Bi1/2Ag1/2TiO3. Ferroelectrics, 2001, 264, 127-132.	0.6	16
36	Raman Spectra in Ferroelectric SrTi 18 O 3. Ferroelectrics, 2002, 272, 155-160.	0.6	15

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37	Oxygen Diffusion and Nonstoichiometry in BiFeO_3 . Inorganic Chemistry, 2013, 52, 12806-12810.	4.0	14
38	Universal Relation between Oxygen Mass and Ti in SrTiO_3 . Journal of the Physical Society of Japan, 2003, 72, 1310-1311.	1.6	13
39	Raman Spectra of Ferroelectric Soft Mode in SrTiO_3 : Effect of Electric Field. Ferroelectrics, 2003, 285, 41-48.	0.6	13
40	Capacitance temperature sensor using epitaxial SrTiO_3 film with a single-crystal-like behavior. Thin Solid Films, 2005, 486, 145-148.	1.8	13
41	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
42	Powder X-ray diffraction study of ferroelectric phase transition in perovskite oxide CdTiO_3 . Ferroelectrics, 2001, 259, 85-90.	0.6	9
43	Dielectric anomalies in oxygen-isotope exchanged SrTiO_3 single crystals. Ferroelectrics, 2001, 262, 125-130.	0.6	9
44	Structure and Dielectric Behavior of Epitaxially Grown SrTiO_3 Film between $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Electrodes. Japanese Journal of Applied Physics, 2004, 43, L170-L172.	1.5	9
45	Predominant factors affecting the dielectric and piezoelectric properties of bismuth-containing complex perovskite solid solution. Solid State Communications, 2005, 134, 791-795.	1.9	8
46	Effects of Vacancies on the Dielectric and Piezoelectric Properties of $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3$ - SrTiO_3 Solid Solution. Ferroelectrics, 2006, 331, 135-139.	0.6	8
47	Broadband Inelastic Light Scattering Study on Relaxor Ferroelectrics. Japanese Journal of Applied Physics, 2007, 46, 7151-7154.	1.5	8
48	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
49	Soft Mode of $\text{SrTi}_{18}\text{O}_{3 \times 16}\text{O}_3(1-x)$ Studied by Raman Scattering. Journal of the Physical Society of Japan, 2002, 71, 1254-1256.	1.6	8
50	Ferroelectric phase transition of $\text{SrTi}_{18}\text{O}_3$ studied by Brillouin scattering. Ferroelectrics, 2001, 261, 213-218.	0.6	7
51	Large tunability driven by low electric field in oxygen-isotope-exchanged strontium titanate at cryogenic temperatures. Applied Physics Letters, 2002, 80, 2964-2966.	3.3	7
52	Large dielectric constant arising from space-charge polarization in a SrTiO_3 thin film grown on an $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ layer. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, R152-R154.	1.8	7
53	Capacitance thermometer made of oxygen isotope-exchanged strontium titanate perovskite. Applied Physics Letters, 2006, 88, 082906.	3.3	7
54	Brillouin Scattering Study of Ferroelectric $\text{SrTi}_{18}\text{O}_{3 \times 16}\text{O}_3(1-x)$. Ferroelectrics, 2002, 272, 39-44.	0.6	6

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55	Dielectric Properties of SrTi ₁₈ O ₃ . Ferroelectrics, 2003, 285, 3-17.	0.6	6
56	Dielectric Properties of Spark-Plasma-Sintered (Na _{0.5} K _{0.5})NbO ₃ -PbTiO ₃ Ceramics. Ferroelectrics, 2003, 286, 93-99.	0.6	6
57	Capacitance Temperature Sensor Using Ferroelectric (Sr _{0.95} Ca _{0.05})TiO ₃ Perovskite. Ferroelectrics, 2006, 331, 141-145.	0.6	6
58	Piezoelectric (Na _{0.5} K _{0.5})NbO ₃ -SrTiO ₃ Ceramics in the Tetragonal-Orthorhombic Phase Boundary Studied by Raman Spectroscopy. Ferroelectrics, 2007, 347, 55-59.	0.6	6
59	Effects of Mn Additive on Dielectric and Piezoelectric Properties of (Na _{0.5} K _{0.5})NbO ₃ -BaZrO ₃ -(Bi _{0.5} K _{0.5})TiO ₃ Ternary System. Japanese Journal of Applied Physics, 2012, 51, 07GC01.		
60	Effects of Mn Additive on Dielectric and Piezoelectric Properties of (Na _{0.5} K _{0.5})NbO ₃ -BaZrO ₃ -(Bi _{0.5} K _{0.5})TiO ₃ System. Japanese Journal of Applied Physics, 2012, 51, 07GC01.		
61	Birefringence Study of Ferroelectric Ordering in Oxygen Isotope Exchanged System SrTi _{(16O_{1-x}18O_x)₃} . Ferroelectrics, 2004, 304, 77-82.	0.6	5
62	Diffuse Phase Transition of 0.8Pb(Ni _{1/3} Nb _{2/3})O ₃ -0.2PbTiO ₃ Single Crystals Studied by Micro-Brillouin Scattering. Ferroelectrics, 2007, 346, 37-42.	0.6	5
63	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
64	Frequency Dependence of Dielectric Constant of Strontium Titanate Films with Single-Crystal-Like Behavior. Ferroelectrics, 2006, 335, 45-50.	0.6	4
65	Soft-phonon Dynamics in the Isotopically Induced Ferroelectric Phase Transition of Strontium Titanate. Materials Research Society Symposia Proceedings, 2002, 718, 1.	0.1	3
66	Light Scattering Study in Ferroelectric SrTi ₁₈ O ₃ . Ferroelectrics, 2003, 285, 27-31.	0.6	3
67	Impulsive Stimulated Raman Scattering of SrTi _{(18O_x16O_{1-x})₃} . Ferroelectrics, 2003, 285, 33-39.	0.6	3
68	Light Scattering Studies of Soft Mode in SrTi ₁₈ O ₃ . Ferroelectrics, 2004, 304, 71-76.	0.6	3
69	Investigation on Dielectric and Piezoelectric Properties of (1-x)(Na _{0.5} K _{0.5})NbO ₃ -xSrTiO ₃ Ceramics. Ferroelectrics, 2007, 348, 106-112.	0.6	3
70	Fabrication and Characterization of Niobate Piezoelectric Ceramics with Sintering Aids. Ferroelectrics, 2009, 385, 6141-6148.	0.6	3
71	Crossover between Ferroelectric and Quantum Paraelectric in SrTiO ₃ both by Isotopic Substitution and Hydrostatic Pressure. Materials Research Society Symposia Proceedings, 2002, 718, 1.	0.1	2
72	Capacitance thermometer using Ba _x Sr _{1-x} TiO ₃ solid solutions. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2546-2550.	1.8	2

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73	Effects of A-site ion size mismatch on dielectric properties of SrTiO ₃ . <i>Ferroelectrics</i> , 2001, 262, 131-136.	0.6	1
74	Phase Transition of SrTi ₁₈ O ₃ Studied with Raman Scattering. <i>Ferroelectrics</i> , 2002, 272, 15-19.	0.6	1
75	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
76	Domain State Properties of the Oxygen Isotope-Exchanged Strontium Titanate: SrTi ₁₈ O ₃ . <i>Ferroelectrics</i> , 2002, 269, 177-182.	0.6	0
77	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
78	Central Peak in SrTi ₁₈ O ₃ Studied by Light Scattering. <i>Ferroelectrics</i> , 2005, 314, 79-83.	0.6	0
79	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