

# R R Chien

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Enhancing Photovoltaic and Photosensing Performances in Bismuth Ferrite via Polar Order Engineering. ACS Applied Electronic Materials, 2020, 2, 3773-3782.	4.3	17
2	Structural and Dielectric Properties of $(\text{Bi}_{1-x}\text{Ba}_x)(\text{Fe}_{1-x}\text{Ti}_x)\text{O}_3$ Multiferroic Ceramics. Ferroelectrics, 2014, 470, 52-59.	0.6	0
3	Effect of diamagnetic barium substitution on magnetic and photovoltaic properties in multiferroic $\text{BiFeO}_3$ . Journal of Applied Physics, 2014, 115, .	2.5	15
4	Photo-Induced Electric Responses in Heterostructure of Indium Tin Oxide/ $(\text{Bi}_{1-x}\text{Ca}_x)\text{FeO}_3$ /Au. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
5	Calcium-doping effects on photovoltaic response and structure in multiferroic $\text{BiFeO}_3$ ceramics. Journal of Applied Physics, 2013, 114, .	2.5	39
6	Dielectric response and origin in antiferromagnetic/ferroelectric $(1-x)\text{BiFeO}_3$ - $x\text{BaTiO}_3$ ceramics. Journal of Applied Physics, 2013, 113, 17D908.	2.5	17
7	The origin of photovoltaic responses in $\text{BiFeO}_3$ multiferroic ceramics. Journal of Physics Condensed Matter, 2012, 24, 495902.	1.8	22
8	Temperature-dependent structures of proton-conducting $\text{Ba}(\text{Zr}_{0.8}\text{Ce}_{0.2})\text{O}_{2.9}$ ceramics by Raman scattering and x-ray diffraction. Journal of Physics Condensed Matter, 2012, 24, 155403.	1.8	22
9	Origin of low-frequency dielectric permittivity in $\text{BiFeO}_3$ multiferroic ceramics. , 2011, , .		0
10	Origins of dielectric response and conductivity in $(\text{Bi}_{1-x}\text{Nd}_x)\text{FeO}_3$ multiferroic ceramics. Journal of Applied Physics, 2011, 110, .	2.5	10
11	Field-Induced Phase Transitions in Relaxor Ferroelectrics. Ferroelectrics, 2010, 400, 402-409.	0.6	1
12	Poling effect and piezoelectric response in high-strain ferroelectric $0.70\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $0.30\text{PbTiO}_3$ crystal. Journal of Applied Physics, 2010, 108, 044101.	2.5	8
13	Phase coexistence and Mn-doping effect in lead-free ferroelectric $(\text{Na}_{1/2}\text{Bi}_{1/2})\text{TiO}_3$ crystals. Applied Physics Letters, 2010, 96, .	3.3	30
14	Thermal stability of $\text{Ba}(\text{Zr}_{0.8}\text{Ce}_{0.2})\text{O}_{2.9}$ ceramics in carbon dioxide. Journal of Applied Physics, 2009, 105, 103504.	2.5	60
15	Rapid piezoelectric response and origin in $(001)$ $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ crystal. Journal of Applied Physics, 2009, 106, 016102.	2.5	3
16	Nanotwin and phase transformation in tetragonal $\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3$ single crystal. Journal of Applied Physics, 2008, 104, 054106.	2.5	6
17	Nanotwins and phases in high-strain $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ crystal. Journal of Applied Physics, 2008, 103, .	2.5	18
18	Piezoelectric response and origin in $(001)$ $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ crystal. Applied Physics Letters, 2008, 93, .	3.3	12

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19	Intermediate phases in rhombohedral $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{Ti}_x\text{O}_3)$ crystal. Journal of Applied Physics, 2008, 104, 024110.	2.5	11
20	Field-induced intermediate orthorhombic phase in (110)-cut $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.70}\text{Ti}_{0.30}\text{O}_3$ single crystal. Journal of Applied Physics, 2008, 104, 094105.	2.5	8
21	Phases and domain structures in tungsten-doped $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{Ti}_x\text{O}_3)$ ( $x=0.35$ ) crystal. Journal of Applied Physics, 2007, 101, 114107.	2.5	3
22	Electric Field- and Temperature-Induced Phase Transitions in High-Strain Relaxor-Based Ferroelectric $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{1-x}\text{Ti}_x\text{O}_3$ Single Crystals. Ferroelectrics, 2007, 359, 99-110.	0.6	0
23	Field-induced orientational percolation to a ferroelectric phase in relaxor $\text{Pb}(\text{In}_{1-x}\text{Nb}_2\text{Ti}_x\text{O}_3)$ . Physical Review B, 2007, 75, .	3.2	15
24	Electric-field-induced and temperature-induced phase transitions in high-strain ferroelectric $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.67}\text{Ti}_{0.33}\text{O}_3$ single crystal. Journal of Physics Condensed Matter, 2006, 18, 8337-8344.	1.8	11
25	Dielectric, domain, and optical studies in high-Curie-temperature $\text{Pb}(\text{In}_{1-x}\text{Nb}_2\text{Ti}_x\text{O}_3)$ ( $x=0.40$ ) single crystal. Journal of Applied Physics, 2006, 100, 104104.	2.5	10
26	Temperature-Dependent Phase Transitions in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})_{0.93}\text{Ti}_{0.07}\text{O}_3$ Crystal. Ferroelectrics, 2006, 339, 115-120.	0.6	5
27	Dielectric and photovoltaic phenomena in tungsten-doped $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{Ti}_x\text{O}_3)$ crystal. Applied Physics Letters, 2006, 88, 032902.	3.3	22
28	Electric-field-induced dielectric anomalies and optical birefringence in $\text{Pb}(\text{Zn}_{1-x}\text{Nb}_2\text{Ti}_x\text{O}_3)$ ( $x=0.10$ ) single crystal. Journal of Applied Physics, 2006, 100, 074105.	2.5	13
29	Prior poling effect on thermal phase stability in (110)-cut $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{Ti}_x\text{O}_3)$ ( $x=0.74$ ) single crystal. Journal of Applied Physics, 2005, 98, 114106.	2.5	8
30	Electric-field effects of dielectric and optical properties in $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{Ti}_x\text{O}_3)$ ( $x=0.65$ ) crystal. Journal of Applied Physics, 2005, 97, 064112.	2.5	20
31	Dielectric piezoelectric resonance in high-strain $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{Ti}_x\text{O}_3)$ crystals. Journal of Applied Physics, 2005, 97, 126105.	2.5	3
32	Temperature- and electric-field-dependent domain structures and phase transformations in (001)-cut tetragonal $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{Ti}_x\text{O}_3)$ ( $x=0.40$ ) single crystal. Journal of Applied Physics, 2005, 97, 114112.	2.5	24
33	Temperature- and electric-field-dependent polarization rotations in (211)-cut $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{Ti}_x\text{O}_3)$ ( $x=0.69$ ) (PMNT31%) single crystal. Journal of Applied Physics, 2004, 96, 4411-4415.	2.5	11
34	Phase stability after an electric-field poling in $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{Ti}_x\text{O}_3)$ crystals. Physical Review B, 2004, 70, .	3.2	40
35	Field-induced polarization rotation in (001)-cut $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.76}\text{Ti}_{0.24}\text{O}_3$ . Physical Review B, 2004, 69, .	3.2	61
36	In-Situ Temperature-Dependent X-Ray Diffraction Study of $\text{Ba}(\text{Zr}_{0.8-x}\text{Ce}_x\text{Y}_{0.2})\text{O}_3$ Ceramics. Ceramic Engineering and Science Proceedings, 0, , 117-123.	0.1	0