

# R R Chien

## List of Publications by Year in descending order

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36  
papers

548  
citations

567281

15  
h-index

642732

23  
g-index

39  
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39  
docs citations

39  
times ranked

586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Field-induced polarization rotation in (001)-cut $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.76}\text{Ti}_{0.24}\text{O}_3$ . <i>Physical Review B</i> , 2004, 69, .	3.2	61
2	Thermal stability of $\text{Ba}(\text{Zr}_{0.8}\hat{x}\text{Ce}_x\text{Y}_{0.2})\text{O}_{2.9}$ ceramics in carbon dioxide. <i>Journal of Applied Physics</i> , 2009, 105, 103504.	2.5	60
3	Phase stability after an electric-field poling in $\text{Pb}(\text{Mg}_{1\hat{a}^{\cdot}3}\text{Nb}_{2\hat{a}^{\cdot}3})_{1\hat{a}^{\cdot}x}\text{Ti}_x\text{O}_3$ crystals. <i>Physical Review B</i> , 2004, 70, .	3.2	40
4	Calcium-doping effects on photovoltaic response and structure in multiferroic $\text{BiFeO}_3$ ceramics. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	39
5	Phase coexistence and Mn-doping effect in lead-free ferroelectric $(\text{Na}_{1/2}\text{Bi}_{1/2})\text{TiO}_3$ crystals. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	30
6	Temperature- and electric-field-dependent domain structures and phase transformations in (001)-cut tetragonal $\text{Pb}(\text{Mg}_{1\hat{a}^{\cdot}3}\text{Nb}_{2\hat{a}^{\cdot}3})_{1\hat{a}^{\cdot}x}\text{Ti}_x\text{O}_3$ ( $x=0.40$ ) single crystal. <i>Journal of Applied Physics</i> , 2005, 97, 114112.	2.5	24
7	Dielectric and photovoltaic phenomena in tungsten-doped $\text{Pb}(\text{Mg}_{1\hat{a}^{\cdot}3}\text{Nb}_{2\hat{a}^{\cdot}3})_{1\hat{a}^{\cdot}x}\text{Ti}_x\text{O}_3$ crystal. <i>Applied Physics Letters</i> , 2006, 88, 032902.	3.3	22
8	The origin of photovoltaic responses in $\text{BiFeO}_3$ multiferroic ceramics. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 495902.	1.8	22
9	Temperature-dependent structures of proton-conducting $\text{Ba}(\text{Zr}_{0.8}\hat{x}\text{Ce}_x\text{Y}_{0.2})\text{O}_{2.9}$ ceramics by Raman scattering and x-ray diffraction. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 155403.	1.8	22
10	Electric-field effects of dielectric and optical properties in $\text{Pb}(\text{Mg}_{1\hat{a}^{\cdot}3}\text{Nb}_{2\hat{a}^{\cdot}3})_{0.65}\text{Ti}_{0.35}\text{O}_3$ crystal. <i>Journal of Applied Physics</i> , 2005, 97, 064112.	2.5	20
11	Nanotwins and phases in high-strain $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{1\hat{a}^{\cdot}x}\text{Ti}_x\text{O}_3$ crystal. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	18
12	Dielectric response and origin in antiferromagnetic/ferroelectric $(1-\hat{a}^{\cdot}x)\text{BiFeO}_3-(x)\text{BaTiO}_3$ ceramics. <i>Journal of Applied Physics</i> , 2013, 113, 17D908.	2.5	17
13	Enhancing Photovoltaic and Photosensing Performances in Bismuth Ferrite via Polar Order Engineering. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3773-3782.	4.3	17
14	Field-induced orientational percolation to a ferroelectric phase in relaxor $\text{Pb}(\text{In}_{1\hat{a}^{\cdot}2}\text{Nb}_{1\hat{a}^{\cdot}2})_{1\hat{a}^{\cdot}x}\text{Ti}_x\text{O}_3$ . <i>Physical Review B</i> , 2007, 75, .	3.2	15
15	Effect of diamagnetic barium substitution on magnetic and photovoltaic properties in multiferroic $\text{BiFeO}_3$ . <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	15
16	Electric-field-induced dielectric anomalies and optical birefringence in $\text{Pb}(\text{Zn}_{1\hat{a}^{\cdot}3}\text{Nb}_{2\hat{a}^{\cdot}3})_{1\hat{a}^{\cdot}x}\text{Ti}_x\text{O}_3$ ( $x=0.10$ ) single crystal. <i>Journal of Applied Physics</i> , 2006, 100, 074105.	2.5	13
17	Piezoelectric response and origin in (001) $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.70}\text{Ti}_{0.30}\text{O}_3$ crystal. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	12
18	Temperature- and electric-field-dependent polarization rotations in (211)-cut $\text{Pb}(\text{Mg}_{1\hat{a}^{\cdot}3}\text{Nb}_{2\hat{a}^{\cdot}3})_{0.69}\text{Ti}_{0.31}\text{O}_3$ (PMNT31%) single crystal. <i>Journal of Applied Physics</i> , 2004, 96, 4411-4415.	2.5	11

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19	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. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 8337-8344.	1.8	11
20	Intermediate phases in rhombohedral $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{O}_3)_x\text{TiO}_3$ crystal. <i>Journal of Applied Physics</i> , 2008, 104, 024110.	2.5	11
21	Dielectric, domain, and optical studies in high-Curie-temperature $\text{Pb}(\text{In}_{1-x}\text{Nb}_2\text{O}_3)_x\text{TiO}_3$ ( $x=0.40$ ) single crystal. <i>Journal of Applied Physics</i> , 2006, 100, 104104.	2.5	10
22	Origins of dielectric response and conductivity in $(\text{Bi}_{1-x}\text{Nd}_x)\text{FeO}_3$ multiferroic ceramics. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	10
23	Prior poling effect on thermal phase stability in (110)-cut $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{O}_3)_x\text{TiO}_3$ single crystal. <i>Journal of Applied Physics</i> , 2005, 98, 114106.	2.5	8
24	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. <i>Journal of Applied Physics</i> , 2008, 104, 094105.	2.5	8
25	Poling effect and piezoelectric response in high-strain ferroelectric $0.70\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.30}\text{PbTiO}_3$ crystal. <i>Journal of Applied Physics</i> , 2010, 108, 044101.	2.5	8
26	Nanotwin and phase transformation in tetragonal $\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})_x\text{TiO}_3$ single crystal. <i>Journal of Applied Physics</i> , 2008, 104, 054106.	2.5	6
27	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. <i>Ferroelectrics</i> , 2006, 339, 115-120.	0.6	5
28	Dielectric-piezoelectric resonance in high-strain $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{O}_3)_x\text{TiO}_3$ crystals. <i>Journal of Applied Physics</i> , 2005, 97, 126105.	2.5	3
29	Phases and domain structures in tungsten-doped $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{O}_3)_x\text{TiO}_3$ ( $x=0.35$ ) crystal. <i>Journal of Applied Physics</i> , 2007, 101, 114107.	2.5	3
30	Rapid piezoelectric response and origin in (001) $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})_{0.70}\text{Ti}_{0.30}\text{O}_3$ crystal. <i>Journal of Applied Physics</i> , 2009, 106, 016102.	2.5	3
31	Photo-Induced Electric Responses in Heterostructure of Indium Tin Oxide/ $(\text{Bi}_{1-x}\text{Ca}_x)\text{FeO}_3$ . <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	2.1	2
32	Field-Induced Phase Transitions in Relaxor Ferroelectrics. <i>Ferroelectrics</i> , 2010, 400, 402-409.	0.6	1
33	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. <i>Ferroelectrics</i> , 2007, 359, 99-110.	0.6	0
34	Origin of low-frequency dielectric permittivity in $\text{BiFeO}_3$ multiferroic ceramics. , 2011, , .		0
35	Structural and Dielectric Properties of $(\text{Bi}_{1-x}\text{Ba}_x)(\text{Fe}_{1-x}\text{Ti}_x)\text{O}_3$ Multiferroic Ceramics. <i>Ferroelectrics</i> , 2014, 470, 52-59.	0.6	0
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. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 117-123.	0.1	0