Clarina R. dela Cruz

List of Publications by Year
in descending order

111 papers	6,695 citations	109321 35 h-index	62596 80 g-index
116 all docs	116 docs citations	116 times ranked	6023 citing authors

#	Article	IF	Citations
1	Spiral Spin Liquid on a Honeycomb Lattice. Physical Review Letters, 2022, 128, .	7.8	15
2	Magnetoelastic coupling, negative thermal expansion, and two-dimensional magnetic excitations in FeAs. Physical Review B, 2021, 103, .	3.2	6
3	Hierarchical excitations from correlated spin tetrahedra on the breathing pyrochlore lattice. Physical Review B, 2021, 103, .	3.2	5
4	Magnetic properties of the Shastry-Sutherland lattice material <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaNd</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2021, 5, .	2.4	7
5	Canted antiferromagnetism in the quasi-one-dimensional iron chalcogenide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Se</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2021, 103, .	3.2	9
6	Complex antiferromagnetic order in the garnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Ca</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Co</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Sb</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:mrow></mml:math>	3.2	3
7	Strong anisotropy in the mixed antiferromagnetic system <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Si</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Te</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2020, 4, .	2.4	32
8	Realization of the orbital-selective Mott state at the molecular level in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2020, 4, .	2.4	9
9	Tunable magnetic order in low-symmetry SeO3 ligand linked TM3(SeO3)3H2O (TM=Mn , Co, and Ni) compounds. Physical Review Materials, 2020, 4, .	2.4	3
10	Thermal expansion coefficients of high thermal conducting BAs and BP materials. Applied Physics Letters, 2019, 115, .	3.3	13
11	Antiferromagnetism in the kagome-lattice compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>â^'</mml:mo><mml:mn>3</mml:mn></mml:mrow></mml:math> Physical Review B, 2019, 100, .	3.2	10
12	Large linear magnetoelectric effect and field-induced ferromagnetism and ferroelectricity in DyCrO4. NPG Asia Materials, 2019, 11, .	7.9	19
13	Tuning from frustrated magnetism to superconductivity in quasi-one-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>KCr</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">As</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> through hydrogen doping. Physical Review B, 2019, 100, .	3.2	15
14	Magnetic structure of ternary rare-earth alloy Ho1/3Tb1/3Er1/3. Journal of Magnetism and Magnetic Materials, 2019, 469, 315-322.	2.3	0
15	Local-Ising-type magnetic order and metamagnetism in the rare-earth pyrogermanate Er2Ge2O7. Physical Review Materials, 2019, 3, .	2.4	13
16	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>8</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>24</mml:mn></mml:msub></mml:mrow></mml:math> : A model two-dimensional spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>5</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:math> triangular lattice antiferromagnet. Physical Review Materials, 2019, 3, .	2.4	9
17	Incommensurate magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">K</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>MnS</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> and prospects for tunable frustration in a triangular lattice of pseudo-1D spin chains. Physical Review Materials, 2019, 3, .	2.4	6
18	Accessing magnetic chalcogenides with solvothermal synthesis: KFeS2 and KFe2S3. Journal of Solid State Chemistry, 2018, 260, 1-6.	2.9	16

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19	Lattice dynamical probe of phase transformations in niobium oxyfluoride Nb2O2F3. Physical Review B, 2018, 97, .	3.2	0
20	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0042.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>LaCu</mml:mi></mml:mrow><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> A promising host of an elastic quantum critical point. Physica B: Condensed Matter, 2018, 536, 479-482.	2.7	1
21	A suite-level review of the neutron powder diffraction instruments at Oak Ridge National Laboratory. Review of Scientific Instruments, 2018, 89, 092701.	1.3	90
22	Effect of Zn doping on the antiferromagnetism in kagome<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review B, 2018, 98, .	3.2	25
23	Frustrated Structural Instability in Superconducting Quasi-One-Dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">K</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>	7.8	16
24	Lattice distortion effects on the frustrated spin-1 triangular-antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>A</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">b</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi		

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37	Improper Inversion Symmetry Breaking and Piezoelectricity through Oxygen Octahedral Rotations in Layered Perovskite Family, LiRTiO₄ (R = Rare Earths). Advanced Electronic Materials, 2016, 2, 1500196.	5.1	28
38	Annealing effects on the structural and magnetic properties of off-stoichiometric Fe-Mn-Ga ferromagnetic shape memory alloys. Materials and Design, 2016, 104, 327-332.	7.0	19
39	Spin waves and magnetic exchange interactions in the spin-ladder compound<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>RbFe</mml:mi><mml:mn>2</mml:mn></ Physical Review B, 2016, 94, .	3.2	19
40	Magnetism and multiferroicity of an isosceles triangular lattice antiferromagnet Sr3NiNb2O9. Journal of Physics Condensed Matter, 2016, 28, 476004.	1.8	10
41	LaMn₃Ni₂Mn₂O₁₂: An A- and B-Site Ordered Quadruple Perovskite with A-Site Tuning Orthogonal Spin Ordering. Chemistry of Materials, 2016, 28, 8988-8996.	6.7	27
42	High-pressure synthesis and characterization of the effective pseudospinS=1/2XY pyrochloresR2Pt2O7(R=Er,Yb). Physical Review B, 2016, 93, .	3.2	20
43	Negative exchange bias in single-phase<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">D</mml:mi><mml:msub><mml:mi mathvariant="normal">y</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">d</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi>Cr</mml:mi><mml:msub><mml:mi	3.2	24
44	Multi-layered Chalcogenides with potential for magnetism and superconductivity. Physica C: Superconductivity and Its Applications, 2016, 531, 25-29.	1.2	4
45	Ferromagnetic superexchange in insulating<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>by	3.2	14
46	Mott localization in a pure stripe antiferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Rb</mml:mi><mml:mrow><mml:mn>1</mml:m mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	3.2	12
47	Physical properties of the pyrochlores<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>R</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Ge</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi		

#	ARTICLE	IF	CITATIONS
55	Experimental Realization of a Unique Class of Compounds: XY-Antiferromagnetic Triangular Lattices, KAg₂Fe[VO₄]₂ and RbAg₂Fe[VO₄]₂, with Ferroelectric Ground States. Chemistry of Materials, 2014, 26, 5230-5235.	6.7	27
56	Magnetic phase diagram and multiferroicity of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Ba</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">MnNb</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:math>: A spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>5</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:math> Coincident-structural and magnetic order in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	60
57	Series of phase transitions and multiferroicity in the quasi-two-dimensional spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:math> antiferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Ba</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	34
58	Toward a better understanding of the magnetocaloric effect: An experimental and theoretical study of MnFe4Si3. Journal of Solid State Chemistry, 2014, 216, 56-64.	2.9	14
59	Magnetic and structural phase transitions in the spinel compoundFe1+xCr2â^'xO4. Physical Review B, 2014, 89, .	3.2	60
60	Non-collinear magnetic structures of TbCoO3 and DyCoO3. Solid State Sciences, 2014, 28, 26-30.	3.2	15
61	Field-Induced Spin-Flop in Antiferromagnetic Semiconductors with Commensurate and Incommensurate Magnetic Structures: Li₂FeGeS₄ (LIGS) and Li₂FeSnS₄ (LITS). Inorganic Chemistry, 2014, 53, 12265-12274.	3.2	37
62	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Cr</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow>	4.0	24
63			

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73	Magnetic phase transition in the low-dimensional compound BaMn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Si<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	3.2	15
74	Successive Magnetic Phase Transitions and Multiferroicity in the Spin-One Triangular-Lattice Antiferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Nb</mml:mi><mml: … mathvariant="bold">O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2012, 109, 257205.	7.8	74
75	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mn>3</mml:mn><mml:mn>2</mml:mn … lattice antiferromagnet Ag<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>CrO<mml:math	3.2	21
76	Neutron Diffraction Study of the Type I Clathrate Ba₈Al_{<i>x</i>}Si_{46â€"<i>x</i>}: Site Occupancies, Cage Volumes, and the Interaction between the Guest and the Host Framework. Inorganic Chemistry, 2012, 51, 1805-1812.	4.0	35
77	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>Ir<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	41
78	Study of the antiferromagnetism of Mn5Si3: an inverse magnetocaloric effect material. Journal of Materials Chemistry, 2012, 22, 15275.	6.7	41
79	Crystal structure of 0.96(Na0.5Bi0.5TiO3)â€"0.04(BaTiO3) from combined refinement of x-ray and neutron diffraction patterns. Applied Physics Letters, 2012, 101, .	3.3	26
80	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>Ag<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:mi>M</mml:mi></mml:mrow></mml:math>[VO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:m	3.2	29
81	Magnetic order in the pyrochlore iridatesA2Ir2O7(A= Y, Yb). Physical Review B, 2012, 86, .	3.2	89
82	Structure and magnetic properties of the pyrochlore iridate Y2Ir2O7. Physical Review B, 2012, 85, .	3.2	91
83	Magnetic order and the electronic ground state in the pyrochlore iridate Nd2Ir2O7. Physical Review B, 2012, 85, .	3.2	51
84	Tailoring the magnetism of Tb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>Si<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	15
85	Neutron scattering study of magnetic phase separation in nanocrystalline La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>5</mml:mn><mml:mo>/</mml:mo><mml:mn>8</mml:mn></mml:mrow></mml:msub></mml:math>Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>/</mml:mo><mml:mn>8</mml:mn></mml:mrow></mml:msub></mml:math>MnO<mml:math xmlns:mml="http://www.w3.org/1998/Ma. Physical Review B, 2011, 84, .	3.2	12
86	Emergent electronic and magnetic state in Ca3Ru2O7induced by Ti doping. Physical Review B, 2011, 84, .	3.2	30
87	Spinâ€"lattice coupling in iron-pnictide superconductors. Physica C: Superconductivity and Its Applications, 2010, 470, S294-S295.	1.2	15
88	Evolution of spin excitations into the superconducting state in FeTe1â^'xSex. Nature Physics, 2010, 6, 182-186.	16.7	151
89	Magnetic Quantum Oscillations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>YBa</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Cu</mml:mi><mml: … mathvariant="bold">O</mml:mi><mml:mn>6.61</mml:mn></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>YBa</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Cu</mml:mi><mml: … Physical Review Letters, 2010, 104, 086403.	7.8	68
90	Lattice Distortion and Magnetic Quantum Phase Transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CeFeAs</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml … mathvariant="bold">P</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="bold">O</mml:mi></mml:math>. Physical Review Letters, 2010, 104, 017204.	7.8	63

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91	Unusual Relationship between Magnetism and Superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>FeTe</mml:mi><mml:mn>0.5</mml:mn></mml:msub><mml:msub><mml:mi>Se</mml:mi><m Physical Review Letters, 2010, 104, 187002.	7.8	62
92	First-order magnetic and structural phase transitions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn> Physical Review B, 2009, 79, .	3.2	488
93	Structural and magnetic phase transitions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Na</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow Physical Review B, 2009, 80, .	3.2	141
94	Control of ferroelectric polarization in multiferroic YMn₂O₅by external pressure. Journal of Physics: Conference Series, 2009, 150, 042013.	0.4	2
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102	Pressure-induced polarization reversal in multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YMn</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow Physical Review B, 2008, 77, .	3.2	32
103	Magnetic phase diagrams of multiferroic hexagonal RMnO3 (R = Er, Yb, Tm, and Ho). Journal of Materials Research, 2007, 22, 2163-2173.	2.6	81
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106	Pressure-induced enhancement of ferroelectricity in multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>R</mml:mi><mml:msub><mml:mi mathvariant="normal">Mn</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
109	Magnetoelastic effects and the magnetic phase diagram of multiferroicDyMn2O5. Physical Review B, 2006, 74, .	3.2	34
110	Low-temperature dielectric anomalies inHoMnO3: The complex phase diagram. Physical Review B, 2005, 71, .	3.2	68
111	Strong spin-lattice coupling in multiferroicHoMnO3: Thermal expansion anomalies and pressure effect. Physical Review B, 2005, 71, .	3.2	111