

Clarina R. dela Cruz

List of Publications by Year in descending order

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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	Magnetic order close to superconductivity in the iron-based layered LaO _{1-x} F _x FeAs systems. Nature, 2008, 453, 899-902.	27.8	1,725
2	Structural and magnetic phase diagram of CeFeAsO _{1-x} F _x and its relation to high-temperature superconductivity. Nature Materials, 2008, 7, 953-959.	27.5	706
3	First-order magnetic and structural phase transitions in $\text{Fe}_2\text{As}_2\text{O}_8$. Physical Review B, 2009, 79, .	3.2	488
4	Manipulation of ionized impurity scattering for achieving high thermoelectric performance in n-type Mg ₃ Sb ₂ -based materials. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10548-10553.	7.1	267
5	Evolution of spin excitations into the superconducting state in FeTe _{1-x} Sex. Nature Physics, 2010, 6, 182-186.	16.7	151
6	Structural and magnetic phase transitions in $\text{Na}_2\text{Fe}_2\text{O}_7$. Physical Review B, 2009, 80, .	3.2	141
7	Structural and magnetic phase transitions in PrFeAsO and PrFeAsO_2 . Physical Review B, 2008, 78, .	3.2	133
8	Magnetic order of the iron spins in NdFeAsO. Physical Review B, 2008, 78, .	3.2	122
9	Strong spin-lattice coupling in multiferroic HoMnO ₃ : Thermal expansion anomalies and pressure effect. Physical Review B, 2005, 71, .	3.2	111
10	Observation of Magnetoelectric Multiferroicity in a Cubic Perovskite System: $\text{LaMn}_3\text{O}_{12}$. Neutron Scattering Study of Correlation Phase Behavior in Sr _{1-x} La _x Mn ₃ O ₁₂ . Physical Review B, 2013, 87, .	3.2	92
11	Neutron Scattering Study of Correlation Phase Behavior in Sr _{1-x} La _x Mn ₃ O ₁₂ . Physical Review B, 2013, 87, .	3.2	92
12	Structure and magnetic properties of the pyrochlore iridate Y ₂ Ir ₂ O ₇ . Physical Review B, 2012, 85, .	3.2	91
13	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
14	Structural anomalies at the magnetic and ferroelectric transitions in RMn ₂ O ₅ (R=Tb,Dy,Ho). Physical Review B, 2006, 73, .	3.2	89
15	Magnetic order in the pyrochlore iridates A ₂ Ir ₂ O ₇ (A= Y, Yb). Physical Review B, 2012, 86, .	3.2	89
16	Magnetic phase diagrams of multiferroic hexagonal RMnO ₃ (R = Er, Yb, Tm, and Ho). Journal of Materials Research, 2007, 22, 2163-2173.	2.6	81
17	Successive Magnetic Phase Transitions and Multiferroicity in the Spin-One Triangular-Lattice Antiferromagnet $\text{Ba}_3\text{Mg}_2\text{Sb}_2\text{O}_{13}$. Physical Review Letters, 2012, 109, 257205.	11.8	71
18	Low-temperature dielectric anomalies in HoMnO ₃ : The complex phase diagram. Physical Review B, 2005, 71, .	3.2	68

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37	Neutron Diffraction Study of the Type I Clathrate $Ba_8Al_4Si_{46}$: Site Occupancies, Cage Volumes, and the Interaction between the Guest and the Host Framework. <i>Inorganic Chemistry</i> , 2012, 51, 1805-1812.	4.0	35
38	Magnetoelastic effects and the magnetic phase diagram of multiferroic $DyMn_2O_5$. <i>Physical Review B</i> , 2006, 74, .	3.2	34
39	Coincident structural and magnetic order in $BaFe_2$ by high-resolution neu. <i>Physical Review B</i> , 2014, 90, .	3.2	34
40	Pressure-induced polarization reversal in multiferroic YMn_2 . <i>Physical Review B</i> , 2008, 77, .	3.2	32
41	Strong anisotropy in the mixed antiferromagnetic system Mn_2 . <i>Physical Review Materials</i> , 2020, 4, .	3.2	32
42	Emergent electronic and magnetic state in $Ca_3Ru_2O_7$ induced by Ti doping. <i>Physical Review B</i> , 2011, 84, .	3.2	30
43	AgM_2VO_4 . <i>Physical Review B</i> , 2016, 94, .	3.2	29
44	Spin waves and magnetic exchange interactions in the spin-ladder compound $RbFe_2$. <i>Physical Review B</i> , 2016, 94, .	3.2	29
45	Crystal Structure, Chemical Stabilities and Electrical Conductivity of Fe-Doped Manganese Cobalt Spinel Oxides for SOFC Interconnect Coatings. <i>Journal of the Electrochemical Society</i> , 2013, 160, F1316-F1321.	2.9	28
46	Improper Inversion Symmetry Breaking and Piezoelectricity through Oxygen Octahedral Rotations in Layered Perovskite Family, LiR_4TiO_4 ($R =$ Rare Earths). <i>Advanced Electronic Materials</i> , 2016, 2, 1500196.	5.1	28
47	Coexistence of ferromagnetism and superconductivity in $CeO_{0.3}F_{0.7}BiS_2$. <i>Physical Review B</i> , 2014, 90, .	3.2	27
48	Experimental Realization of a Unique Class of Compounds: XY -Antiferromagnetic Triangular Lattices, $KAg_2Fe[VO_4]_2$ and $RbAg_2Fe[VO_4]_2$, with Ferroelectric Ground States. <i>Chemistry of Materials</i> , 2014, 26, 5930-5935.	6.7	27
49	Cr_2 . <i>Physical Review B</i> , 2014, 90, .	3.2	27

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55	Field-Induced Spin-Flop in Antiferromagnetic Semiconductors with Commensurate and Incommensurate Magnetic Structures: $\text{Li}_2\text{FeGeS}_4$ (LIGS) and $\text{Li}_2\text{FeSnS}_4$ (LITS). <i>Inorganic Chemistry</i> , 2014, 53, 12265-12274.	4.0	24
56	Negative exchange bias in single-phase $\text{Dy}_2\text{Fe}_{1-x}\text{Ni}_x\text{N}$. <i>Physical Review B</i> , 2017, 95, 020407.	3.2	24
57	Coupling of structure to magnetic and superconducting orders in quasi-one-dimensional $\text{K}_2\text{Cr}_2\text{F}_7$. <i>Physical Review B</i> , 2017, 95, 020407.	3.2	22
58	Partially disordered state and spin-lattice coupling in an antiferromagnet Ag_3S_2 . <i>Physical Review B</i> , 2017, 95, 020407.	3.2	21
59	High-pressure synthesis and characterization of the effective pseudospin $S=1/2$ $\text{R}_2\text{Pt}_2\text{O}_7$ ($\text{R}=\text{Fr}, \text{Yb}$). <i>Physical Review B</i> , 2016, 93, 020407.	3.2	20
60	Spin-state crossover and low-temperature magnetic state in yttrium-doped $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{O}$. <i>Physical Review B</i> , 2017, 95, 020407.	3.2	19
61	Annealing effects on the structural and magnetic properties of off-stoichiometric Fe-Mn-Ga ferromagnetic shape memory alloys. <i>Materials and Design</i> , 2016, 104, 327-332.	7.0	19
62	Lattice distortion effects on the frustrated spin-1 triangular-antiferromagnet $\text{A}_3\text{B}_2\text{C}$. <i>Physical Review B</i> , 2017, 95, 020407.		

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73	Magnetic ordering in TbMn _{0.5} Cr _{0.5} O ₃ studied by neutron diffraction and first-principles calculations. Journal of Applied Physics, 2014, 116, 033919.	2.5	15
74	Tuning from frustrated magnetism to superconductivity in quasi-one-dimensional $KCr_{1-x}Fe_x$ through hydrogen doping. Physical Review B, 2019, 100, .	3.2	11
75	Spiral Spin Liquid on a Honeycomb Lattice. Physical Review Letters, 2022, 128, .	7.8	15
76	Toward a better understanding of the magnetocaloric effect: An experimental and theoretical study of MnFe ₄ Si ₃ . Journal of Solid State Chemistry, 2014, 216, 56-64.	2.9	14
77	Ferromagnetic superexchange in insulating Cr_2O_3 by Cr^{3+} ions. Physical Review B, 2011, 83, 114411.	3.2	14
78	Candidate Elastic Quantum Critical Point in $LaCu_6O_{12}$. Physical Review Letters, 2016, 117, 235701.	7.8	14
79	From magnetic order to spin-liquid ground states on the $S=1$ triangular lattice. Physical Review B, 2017, 96, .	3.2	13
80	Thermal expansion coefficients of high thermal conducting BAs and BP materials. Applied Physics Letters, 2019, 115, .	3.3	13
81	Local-Ising-type magnetic order and metamagnetism in the rare-earth pyrogermanate Er ₂ Ge ₂ O ₇ . Physical Review Materials, 2019, 3, .	2.4	13
82	Neutron scattering study of magnetic phase separation in nanocrystalline $La_{1-x}Ca_xMnO_3$. Physical Review B, 2011, 83, 114411.	3.2	12
83	Mott localization in a pure stripe antiferromagnet $RbMnPO_4$. Physical Review B, 2015, 92, .	3.2	12
84	Tuning ferroelectricity in by pressure and magnetic fields. Physica B: Condensed Matter, 2008, 403, 1331-1335.	2.7	11
85	Crystal structure and magnetic properties of the Ba ₃ TeCo ₃ P ₂ O ₁₄ , Pb ₃ TeCo ₃ P ₂ O ₁₄ , and Pb ₃ TeCo ₃ V ₂ O ₁₄ langasites. Journal of Solid State Chemistry, 2013, 203, 310-320.	2.9	11
86	Combined X-ray and neutron diffraction Rietveld refinement in iron-substituted nano-hydroxyapatite. Journal of Materials Science, 2013, 48, 3535-3545.	3.7	10
87	Magnetism and multiferroicity of an isosceles triangular lattice antiferromagnet Sr ₃ NiNb ₂ O ₉ . Journal of Physics Condensed Matter, 2016, 28, 476004.	1.8	10
88	Non-congruence of high-temperature mechanical and structural behaviors of LaCoO ₃ based perovskites. Journal of the European Ceramic Society, 2017, 37, 1563-1576.	5.7	10
89	Antiferromagnetism in the kagome-lattice compound \hat{I}_\pm . Physical Review B, 2019, 100, .	3.2	10
90	The pressure effect on the magnetic commensurability and ferroelectricity in multiferroic. Physica B: Condensed Matter, 2008, 403, 1359-1361.	2.7	9

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91	Canted antiferromagnetism in the quasi-one-dimensional iron chalcogenide BaFe_2Se_4 . Physical Review B, 2020, 102, .	3.2	9
92	Physical properties of the trigonal binary compound Nd_2O_3 . Physical Review Materials, 2018, 2, .	2.4	9
93	Realization of the orbital-selective Mott state at the molecular level in Ba_8O_{24} : A model two-dimensional spin- $\frac{5}{2}$ system. Physical Review Materials, 2020, 4, .	2.4	9
94	Restoration of ferroelectricity by pressure in multiferroic. Journal of Magnetism and Magnetic Materials, 2007, 310, 1185-1186.	2.3	7
95	Weak ferromagnetism of $\text{Cu}_x\text{Fe}_{1-x}$. Physical Review B, 2015, 91, .	3.2	7
96	Magnetic properties of the Shastry-Sutherland lattice material BaNd_2O_7 . Physical Review Materials, 2021, 5, .	2.4	7
97	Strong magnetic coupling in the hexagonal R_5Pb_3 compounds ($\text{R}=\text{Gd}\text{--}\text{Tm}$). Journal of Magnetism and Magnetic Materials, 2015, 384, 192-203.	2.3	6
98	Magnetic and electric properties of triangular lattice antiferromagnets $\text{Ba}_3\text{ATa}_2\text{O}_9$ (A= Ni and Co). Materials Research Bulletin, 2017, 88, 308-314.	5.2	6
99	Magnetoelastic coupling, negative thermal expansion, and two-dimensional magnetic excitations in FeAs . Physical Review B, 2021, 103, .	3.2	6
100	Incommensurate magnetism in K_2MnS_6 and prospects for tunable frustration in a triangular lattice of pseudo-1D spin chains. Physical Review Materials, 2020, 2, .	2.4	6
101	Structural and magnetic phase transitions in CeCu_6 .		
102			

