

# Rudra Sekhar Manna

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

609  
citations

840585

11  
h-index

610775

24  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1051  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> synthesized by solid state, citrate precursor and polymerized complex methods: A comparative study. Journal of Alloys and Compounds, 2008, 453, 298-303.	2.8	127
2	Lattice Effects and Entropy Release at the Low-Temperature Phase Transition in the Spin-Liquid Candidate $\hat{\rho}$ -(BEDT-TTF) <sub>2</sub> Cu <sub>2</sub> (CN) <sub>3</sub> . Physical Review Letters, 2018, 120, 237202.	2.9	99
3	First-order structural transition in the multiferroic perovskite-like formate [(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ][Mn(HCOO) <sub>3</sub> ]. CrystEngComm, 2014, 16, 3558.	1.3	80
4	Breakdown of Magnetic Order in the Pressurized Kitaev Iridate $\hat{\rho}$ -Li <sub>2</sub> IrO <sub>3</sub> . Physical Review Letters, 2018, 120, 237202.	2.9	57
5	Low-Temperature Lattice Effects in the Spin-Liquid Candidate $\hat{\rho}$ -(BEDT-TTF) <sub>2</sub> Cu <sub>2</sub> (CN) <sub>3</sub> . Crystals, 2018, 8, 87.	1.1	54
6	Breakdown of Hooke's law of elasticity at the Mott critical endpoint in an organic conductor. Science Advances, 2016, 2, e1601646.	4.7	41
7	High-resolution thermal expansion measurements under helium-gas pressure. Review of Scientific Instruments, 2012, 83, 085111.	0.6	22
8	Pressure tuning of charge ordering in iron oxide. Nature Communications, 2018, 9, 4142.	5.8	22
9	Lattice Strain Accompanying the Colossal Magnetoresistance Effect in $\hat{\rho}$ -EuB <sub>6</sub> . Physical Review Letters, 2014, 113, 067202.	2.9	17
10	Low-temperature structural investigations of the frustrated quantum antiferromagnets $\hat{\rho}$ -Cs <sub>2</sub> Mn <sub>2</sub> Cl <sub>4</sub> . Physical Review B, 2015, 91, .	1.2	18
11	Low-Temperature Lattice Effects in the Spin-Liquid Candidate $\hat{\rho}$ -(BEDT-TTF) <sub>2</sub> Cu <sub>2</sub> (CN) <sub>3</sub> . Crystals, 2018, 8, 87.	1.0	12
12	Magnetoelastic couplings in the distorted diamond-chain compound azurite. Physical Review B, 2014, 89, .	1.1	9
13	Neutron diffraction evidence for local spin canting, weak Jahn-Teller distortion, and magnetic compensation in Ti <sub>1-x</sub> Mn <sub>x</sub> Co <sub>2</sub> O <sub>4</sub> . Lattice Effects of the quasi-two-dimensional valence-bond solid Mott insulator EtMe <sub>3</sub> P[Pd(dmit) <sub>2</sub> ] <sub>2</sub> . Physical Review B, 2015, 92, .	0.7	8
14	Reversible tuning of the collapsed tetragonal phase transition in CaFe <sub>2</sub> As <sub>2</sub> by separate control of chemical pressure and electron doping. Physical Review B, 2015, 92, .	1.1	7
15	Pressure dependence of spin canting in ammonium metal formate antiferromagnets. Physical Chemistry Chemical Physics, 2018, 20, 24465-24476.	1.3	7
17	Ferromagnetism versus slow paramagnetic relaxation in Fe-doped $\hat{\rho}$ -Li <sub>2</sub> IrO <sub>3</sub> . Collapsed tetragonal phase as a strongly covalent and fully nonmagnetic state. Persistent magnetism with interlayer As-As bond formation in Rh-doped $\hat{\rho}$ -CaO <sub>8</sub> S.	3.1	16
18	Collapsed tetragonal phase as a strongly covalent and fully nonmagnetic state. Persistent magnetism with interlayer As-As bond formation in Rh-doped $\hat{\rho}$ -CaO <sub>8</sub> S.	1.1	6

#	ARTICLE	IF	CITATIONS
19	Controlling metal nanotoppings on the tip of silicide nanostructures. <i>Nanotechnology</i> , 2009, 20, 245605.	1.3	4
20	Relaxation dynamics in the one-dimensional organic charge-transfer salt $\text{K}_2\text{NiF}_6$ . <i>Physical Review B</i> , 2018, 97, .		
21	Pressure-induced dimerization and collapse of antiferromagnetism in the Kitaev material $\text{Ni}_3\text{V}_2\text{S}_8$ . <i>Physical Review B</i> , 2022, 105, .		
22	Field-induced length changes in the spin-liquid candidate $\text{Li}^+\text{-(BEDT-TTF)}_2\text{Cu}_2(\text{CN})_3$ . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 1180-1182.	0.8	2
23	Critical phenomena at the antiferromagnetic phase transition of azurite. <i>Journal of the Korean Physical Society</i> , 2013, 62, 2193-2196.	0.3	2
24	Phase transition and lattice distortion in the proposed spin-liquid system. <i>Physica B: Condensed Matter</i> , 2010, 405, S182-S184.	1.3	1
25	Structure-property relationships in multiferroic metal formate frameworks under pressure. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C1421-C1421.	0.0	0