Hena Das

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/180715/publications.pdf

Version: 2024-02-01

28 papers	1,221 citations	516710 16 h-index	610901 24 g-index
28 all docs	28 docs citations	28 times ranked	2314 citing authors

#	Article	IF	Citations
1	Atomically engineered ferroic layers yield a room-temperature magnetoelectric multiferroic. Nature, 2016, 537, 523-527.	27.8	275
2	Electronic Structure, Phonons, and Dielectric Anomaly in Ferromagnetic Insulating Double Pervoskite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>NiMnO</mml:mi><mm Physical Review Letters, 2008, 100, 186402.	7.8	177
3	Direct visualization of magnetoelectric domains. Nature Materials, 2014, 13, 163-167.	27.5	112
4	Multistep Approach to Microscopic Models for Frustrated Quantum Magnets: The Case of the Natural Mineral Azurite. Physical Review Letters, 2011, 106, 217201.	7.8	109
5	First-Principles Simulation of the (Liâ€“Niâ€“Vacancy)O Phase Diagram and Its Relevance for the Surface Phases in Ni-Rich Li-Ion Cathode Materials. Chemistry of Materials, 2017, 29, 7840-7851.	6.7	79
6	Quantum transport evidence of Weyl fermions in an epitaxial ferromagnetic oxide. Nature Communications, 2020, 11, 4969.	12.8	71
7	Moderate to large magneto-optical signals in high Tc double perovskites. Applied Physics Letters, 2008, 92, .	3.3	66
8	The magnetoelectric effect in transition metal oxides: Insights and the rational design of new materials from first principles. Current Opinion in Solid State and Materials Science, 2012, 16, 227-242.	11.5	64
9	Origin of magnetism and trend in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mrow><mml:mi>c</mml:mi></mml:mrow></mml:msub></mml:mr Cr-based double perovskites: Interplay of two driving mechanisms. Physical Review B, 2011, 83, .	3.2	56
10	Size Control of Charge-Orbital Order in Half-Doped Manganite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mn>0.5</mml:mn></mml:msub><mml:msub><mml:mi>Ca</mml:mi><mml:m Physical Review Letters, 2011, 107, 197202.	7.8	43
11	Investigation into Cation-Ordered Magnetic Polar Double Perovskite Oxides. Chemistry of Materials, 2021, 33, 1594-1606.	6.7	22
12	Polarâ€“Nonpolar Phase Transition Accompanied by Negative Thermal Expansion in Perovskite-Type Bi_{1â€“x}Pb_xNiO₃. Chemistry of Materials, 2019, 31, 4748-4758.	6.7	21
13	RbFe²⁺Fe³⁺F₆: Synthesis, structure, and characterization of a new charge-ordered magnetically frustrated pyrochlore-related mixed-metal fluoride. Chemical Science, 2012, 3, 741-751.	7.4	20
14	Linear magnetoelectricity at room temperature in perovskite superlattices by design. Physical Review B, 2015, 92, .	3.2	20
15	Hydrothermal Synthesis of Pyrochlore-Type Pentavalent Bismuthates Ca₂Bi₂O₇ and Sr₂Bi₂O₇. Inorganic Chemistry, 2019, 58, 1759-1763.	4.0	18
16	Observation of novel charge ordering and spin reorientation in perovskite oxide PbFeO3. Nature Communications, 2021, 12, 1917.	12.8	17
17	Origin and Absence of Giant Negative Thermal Expansion in Reduced and Oxidized Ca2RuO4. Chemistry of Materials, 0, , .	6.7	14
18	Site-specific spectroscopic measurement of spin and charge in (LuFeO3)m/(LuFe2O4)1 multiferroic superlattices. Nature Communications, 2020, 11, 5582.	12.8	9

#	Article	IF	Citations
19	High-Pressure Synthesis and Lithium-Ion Conduction of Li₄OBr₂ Derivatives with a Layered Inverse-Perovskite Structure. Chemistry of Materials, 2021, 33, 9194-9201.	6.7	8
20	First-principles study of magnetoelastic effect in the difluoride compounds<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>M</mml:mi></mml:math>F<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		