

Srimanta Middey

List of Publications by Year in descending order

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67
papers

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citations

304743

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docs citations

69
times ranked

2443
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-uniform magnetization profile in ferromagnetic heterostructures leading to topological Hall effect like signatures. Journal of Magnetism and Magnetic Materials, 2022, 549, 168981.	2.3	0
2	Electronic and magnetic properties of epitaxial thin film of Nd _{0.5} Ba _{0.5} MnO ₃ . Applied Physics Letters, 2022, 120, .	3.3	4
3	Oxygen vacancy induced electronic structure modification of KTaO_3 . Physical Review B, 2021, 103, .	3.2	23
4	Giant orbital polarization of NiO in a square planar environment. Physical Review B, 2021, 103, .	3.2	4
5	Proximate Quantum Spin Liquid on Designer Lattice. Nano Letters, 2021, 21, 2010-2017.	9.1	4
6	Spin-liquid behavior of the three-dimensional magnetic system Ba_3O_9 with $\text{S}=\frac{1}{2}$. Physical Review B, 2021, 103, .	3.2	4
7	Electron Trapping and Detrapping in an Oxide Two-Dimensional Electron Gas: The Role of Ferroelastic Twin Walls. Physical Review Applied, 2021, 15, .	3.8	7
8	Observation of the Anomalous Hall Effect in $\text{NdTiO}_3/\text{SrTiO}_3$ Heterostructures. Journal of Physical Chemistry C, 2021, 125, 12968-12974.	3.1	2
9	Oxygen Vacancy-Induced Topological Hall Effect in a Nonmagnetic Band Insulator. Advanced Quantum Technologies, 2020, 3, 2000021.	3.9	9
10	Direct Evidence of the Competing Nature between Electronic and Lattice Breathing Order in Rare-Earth Nickelates. Physical Review Letters, 2020, 124, 127601.	7.8	4
11	Epitaxial stabilization of ultra thin films of high entropy perovskite. Applied Physics Letters, 2020, 116, .	3.3	47
12	Probing Electronic and Magnetic Transitions of Short Periodic Nickelate Superlattices Using Synchrotron X-rays. Synchrotron Radiation News, 2020, 33, 25-29.	0.8	0
13	Emergent behavior of LaNiO_3 in short-periodic nickelate superlattices. APL Materials, 2020, 8, .	5.1	8
14	Anomalous electron transport in epitaxial NdNiO_3 films. Physical Review B, 2019, 99, .	3.2	19
15	Electronic Structure of a Graphene-like Artificial Crystal of NdNiO_3 . Nano Letters, 2019, 19, 8311-8317.	9.1	7
16	Emergent Magnetic State in (111)-Oriented Quasi-Two-Dimensional Spinel Oxides. Nano Letters, 2019, 19, 8381-8387.	9.1	10
17	Conductivity noise across temperature-driven transitions of rare-earth nickelate heterostructures. Physical Review B, 2019, 100, .	3.2	8
18	Artificial two-dimensional polar metal at room temperature. Nature Communications, 2018, 9, 1547.	12.8	61

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19	Disentangled Cooperative Orderings in Artificial Rare-Earth Nickelates. Physical Review Letters, 2018, 120, 156801.	7.8	23
20	Evolution of ferromagnetism in two-dimensional electron gas of LaTiO ₃ /SrTiO ₃ . Applied Physics Letters, 2018, 112, .	3.3	12
21	Epitaxial strain modulated electronic properties of interface controlled nickelate superlattices. Physical Review B, 2018, 98, .	3.2	15
22	Phase engineering of rare earth nickelates by digital synthesis. Applied Physics Letters, 2018, 113, 081602.	3.3	8
23	The many facets of tunneling magnetoresistance in $\text{Sr}_2\text{FeMoO}_6$. Indian Journal of Physics, 2017, 91, 883-893.	1.8	5
24	Ramp Reversal Memory and Phase Boundary Scarring in Transition Metal Oxides. Advanced Materials, 2017, 29, 1605029.	21.0	32
25	Phase coexistence and dynamical behavior in NdNiO ₃ films. Physical Review B, 2017, 95, .	1.2	10
26	Synthesis and electronic properties of Ruddlesden-Popper strontium iridate epitaxial thin films stabilized by control of growth kinetics. Physical Review Materials, 2017, 1, .	2.4	26
27	Anomalous orbital structure in a spinel-perovskite interface. Npj Quantum Materials, 2016, 1, .	5.2	36
28	Orbital configuration in CaTiO ₃ films on NdGaO ₃ . Applied Physics Letters, 2016, 109, .	3.3	7
29	Physics of Ultrathin Films and Heterostructures of Rare-Earth Nickelates. Annual Review of Materials Research, 2016, 46, 305-334.	9.3	236
30	Geometrical lattice engineering of complex oxide heterostructures: a designer approach to emergent quantum states. MRS Communications, 2016, 6, 133-144.	1.8	15
31	Metal-insulator transition in Ba ₃ Fe _{1-x} Ru _{2+x} O ₉ : Interplay between site disorder, chemical percolation, and electronic structure. Physical Review B, 2016, 94, .	3.2	9
32	Magnetic Interactions at the Nanoscale in Trilayer Titanates. Physical Review Letters, 2016, 116, 076802.	7.8	23
33	Origin of the Spin-Orbital Liquid State in a Nearly-Iridate $\text{Ba}_3\text{ZnIr}_2\text{O}_{13}$. Physical Review Letters, 2016, 116, 076802.	7.8	58
34	Pure electronic metal-insulator transition at the interface of complex oxides. Scientific Reports, 2016, 6, 27934.	3.3	22
35	Superconductor to Mott insulator transition in YBa ₂ Cu ₃ O ₇ /LaCaMnO ₃ heterostructures. Scientific Reports, 2016, 6, 33184.	3.3	10
36	Coherent acoustic phonons in YBa ₂ Cu ₃ O ₇ /La _{1/3} Ca _{2/3} MnO ₃ superlattices. Applied Physics Letters, 2016, 108, .	3.3	8

#	ARTICLE	IF	CITATIONS
55	Publisher's Note: Strain-modulated Mott transition in EuNiO ₃ ultrathin films [Phys. Rev. B 88, 075116 (2013)]. Physical Review B, 2013, 88, .	3.2	1
56	Metallic conductance at the interface of tri-color titanate superlattices. Applied Physics Letters, 2013, 103, 231605.	3.3	15
57	Magnetic and nonmagnetic tunnel barriers in Sr ₂ FeMoO ₆ . IOP Conference Series: Materials Science and Engineering, 2013, 46, 012001.	0.6	8
58	Evidence of oxygen-vacancy-induced ferromagnetic order in single crystal Mn-doped SrTiO ₃ . Applied Physics Letters, 2012, 101, 042406.	3.3	36
59	Epitaxial growth of (111)-oriented LaAlO ₃ /LaNiO ₃ ultra-thin superlattices. Applied Physics Letters, 2012, 101, .	3.3	51
60	Route to high Néel temperatures in 4d and 5d transition metal oxides. Physical Review B, 2012, 86, .	3.2	24
61	Origin of the unconventional magnetoresistance in Sr ₂ FeMoO ₆ . Europhysics Letters, 2011, 94, 47007.	2.0	22
62	Glasslike ordering and spatial inhomogeneity of magnetic structure in Ba ₃ FeRu ₃ FeRu ₃ distortion in the	3.2	22
63	Physical Review B, 2011, 83, .	3.2	29
64	Surface spin-glass and exchange bias in Sr ₂ FeMoO ₆ nanoparticle. Journal of Applied Physics, 2010, 108, .	2.5	22
65	Spin-valve-type magnetoresistance: a generic feature of ferromagnetic double perovskites. Journal of Physics Condensed Matter, 2010, 22, 346004.	1.8	14
66	Invalidity Of A Localized Spin Mechanism For SrRuO ₃ and CaRuO ₃ . AIP Conference Proceedings, 2008, , .	0.4	2
67	Perspective "Emergent Phases in Rare Earth Nickelate Heterostructure. ECS Journal of Solid State Science and Technology, 0, , .	1.8	2