

# Srimanta Middey

## List of Publications by Year in descending order

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67  
papers

1,499  
citations

304743

22  
h-index

345221

36  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2443  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physics of Ultrathin Films and Heterostructures of Rare-Earth Nickelates. Annual Review of Materials Research, 2016, 46, 305-334.	9.3	236
2	Engineered Mott ground state in a LaTiO <sub>3</sub> +1̂/LaNiO <sub>3</sub> heterostructure. Nature Communications, 2016, 7, 10418.	12.8	67
3	Artificial two-dimensional polar metal at room temperature. Nature Communications, 2018, 9, 1547.	12.8	61
4	Origin of the Spin-Orbital Liquid State in a Nearly Iridate Oxide. Physical Review Letters, 2018, 120, 087201.	7.8	58
5	Polarity compensation in ultra-thin films of complex oxides: The case of a perovskite nickelate. Scientific Reports, 2014, 4, 6819.	3.3	54
6	Epitaxial growth of (111)-oriented LaAlO <sub>3</sub> /LaNiO <sub>3</sub> ultra-thin superlattices. Applied Physics Letters, 2012, 101, .	3.3	51
7	Epitaxial stabilization of ultra thin films of high entropy perovskite. Applied Physics Letters, 2020, 116, .	3.3	47
8	Zhang-Rice physics and anomalous copper states in A-site ordered perovskites. Scientific Reports, 2013, 3, 1834.	3.3	44
9	Mott Electrons in an Artificial Graphenelike Crystal of Rare-Earth Nickelate. Physical Review Letters, 2016, 116, 056801.	7.8	44
10	Evidence of oxygen-vacancy-induced ferromagnetic order in single crystal Mn-doped SrTiO <sub>3</sub> . Applied Physics Letters, 2012, 101, 042406.	3.3	36
11	Anomalous orbital structure in a spinel perovskite interface. Npj Quantum Materials, 2016, 1, .	5.2	36
12	Novel Electronic Behavior Driving Mott Transition in NdNiO <sub>3</sub> . Physical Review Letters, 2015, 115, 036401.	7.8	34
13	Ramp Reversal Memory and Phase Boundary Scarring in Transition Metal Oxides. Advanced Materials, 2017, 29, 1605029.	21.0	32
14	Strain-modulated Mott transition in EuNiO <sub>3</sub> ultrathin films. Physical Review B, 2013, 88, .	3.2	31
15	Strain-induced Mott transition in the ultrathin films of NdNiO <sub>3</sub> . Physical Review B, 2011, 83, .	3.2	29
16	Thin film substrates from the Raman spectroscopy point of view. Journal of Raman Spectroscopy, 2014, 45, 465-469.	2.5	29
17	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
18	Route to high Néel temperatures in 4d and 5d transition metal oxides. Physical Review B, 2012, 86, .	3.2	24

#	ARTICLE	IF	CITATIONS
19	Self-limited kinetics of electron doping in correlated oxides. Applied Physics Letters, 2015, 107, .	3.3	24
20	Magnetic Interactions at the Nanoscale in Trilayer Titanates. Physical Review Letters, 2016, 116, 076802.	7.8	23
21	Disentangled Cooperative Orderings in Artificial Rare-Earth Nickelates. Physical Review Letters, 2018, 120, 156801.	7.8	23
22	Oxygen vacancy induced electronic structure modification of $\text{KTaO}_3$ . Physical Review B, 2021, 103, .	3.2	23
23	Surface spin-glass and exchange bias in $\text{Sr}_2\text{FeMoO}_6$ nanoparticle. Journal of Applied Physics, 2010, 108, .	2.5	22
24	Origin of the unconventional magnetoresistance in $\text{Sr}_2\text{FeMoO}_6$ . Europhysics Letters, 2011, 94, 47007.	2.0	22
25	Glasslike ordering and spatial inhomogeneity of magnetic structure in $\text{Ba}_3\text{FeRu}_2\text{O}_{13}$ . Physical Review B, 2015, 92, .	3.2	22
26	Pure electronic metal-insulator transition at the interface of complex oxides. Scientific Reports, 2016, 6, 27934.	3.3	22
27	$\text{NaOsO}_3$ : A high Neel temperature 5d oxide. Physical Review B, 2014, 89, .	3.2	21
28	Anomalous charge and negative-charge-transfer insulating state in cuprate chain compound $\text{KCuO}_2$ . Physical Review B, 2015, 92, .	3.2	20
29	Phase coexistence and dynamical behavior in $\text{NdNiO}_3$ films. Physical Review B, 2017, 95, .	3.2	20
30	Anomalous electron transport in epitaxial $\text{NdNiO}_3$ films. Physical Review B, 2019, 99, .	3.2	19
31	Charge order and antiferromagnetism in epitaxial ultrathin films of $\text{EuNiO}_3$ . Physical Review B, 2015, 92, .	3.2	18
32	Electronic and magnetic properties of (1 1 1)-oriented $\text{CoCr}_2\text{O}_4$ epitaxial thin film. Applied Physics Letters, 2014, 105, .	3.3	16
33	Metallic conductance at the interface of tri-color titanate superlattices. Applied Physics Letters, 2013, 103, 231605.	3.3	15
34	Competition between heavy fermion and Kondo interaction in isoelectronic A-site-ordered perovskites. Nature Communications, 2014, 5, 5818.	12.8	15
35	Geometrical lattice engineering of complex oxide heterostructures: a designer approach to emergent quantum states. MRS Communications, 2016, 6, 133-144.	1.8	15
36	Epitaxial strain modulated electronic properties of interface controlled nickelate superlattices. Physical Review B, 2018, 98, .	3.2	15

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37	Spin-valve-type magnetoresistance: a generic feature of ferromagnetic double perovskites. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 346004.	1.8	14
38	Neutron powder diffraction study of $\text{Ba}_3\text{ZnRu}_{2-x}\text{Ir}_x\text{O}_9$ ( $x=0, 1, 2$ ) with 6H-type perovskite structure. <i>Solid State Sciences</i> , 2015, 50, 58-64.	3.2	13
39	Evolution of ferromagnetism in two-dimensional electron gas of $\text{LaTiO}_3/\text{SrTiO}_3$ . <i>Applied Physics Letters</i> , 2018, 112, .	3.3	12
40	Magnetism and electronic structure of $\text{YTiO}_3$ thin films. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	11
41	Epitaxial growth of (1 1 1)-oriented spinel $\text{CoCr}_2\text{O}_4/\text{Al}_2\text{O}_3$ heterostructures. <i>Applied Physics Letters</i> , 2015, 106, 071603.	3.3	10
42	Superconductor to Mott insulator transition in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{LaCaMnO}_3$ heterostructures. <i>Scientific Reports</i> , 2016, 6, 33184.	3.3	10
43	Emergent Magnetic State in (111)-Oriented Quasi-Two-Dimensional Spinel Oxides. <i>Nano Letters</i> , 2019, 19, 8381-8387.	9.1	10
44	Metal-insulator transition in $\text{Ba}_3\text{Fe}_{1-x}\text{Ru}_2\text{O}_9$ : Interplay between site disorder, chemical percolation, and electronic structure. <i>Physical Review B</i> , 2016, 94, .	3.2	9
45	Oxygen Vacancy-Induced Topological Hall Effect in a Nonmagnetic Band Insulator. <i>Advanced Quantum Technologies</i> , 2020, 3, 2000021.	3.9	9
46	Magnetic and nonmagnetic tunnel barriers in $\text{Sr}_2\text{FeMoO}_6$ . <i>IOP Conference Series: Materials Science and Engineering</i> , 2013, 46, 012001.	0.6	8
47	Coherent acoustic phonons in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{La}_{1/3}\text{Ca}_{2/3}\text{MnO}_3$ superlattices. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	8
48	Phase engineering of rare earth nickelates by digital synthesis. <i>Applied Physics Letters</i> , 2018, 113, 081602.	3.3	8
49	Conductivity noise across temperature-driven transitions of rare-earth nickelate heterostructures. <i>Physical Review B</i> , 2019, 100, .	3.2	8
50	Emergent behavior of $\text{LaNiO}_3$ in short-periodic nickelate superlattices. <i>APL Materials</i> , 2020, 8, .	5.1	8
51	Epitaxial stabilization of ultra thin films of electron doped manganites. <i>Applied Physics Letters</i> , 2014, 104, 202409.	3.3	7
52	Metallic interface in non- $\text{SrTiO}_3$ based titanate superlattice. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	7
53	Orbital configuration in $\text{CaTiO}_3$ films on $\text{NdGaO}_3$ . <i>Applied Physics Letters</i> , 2016, 109, .	3.3	7
54	Electronic Structure of a Graphene-like Artificial Crystal of $\text{NdNiO}_3$ . <i>Nano Letters</i> , 2019, 19, 8311-8317.	9.1	7

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55	Electron Trapping and Detrapping in an Oxide Two-Dimensional Electron Gas: The Role of Ferroelastic Twin Walls. <i>Physical Review Applied</i> , 2021, 15, .	3.8	7
56	The many facets of tunneling magnetoresistance in $\text{Sr}_2\text{FeMoO}_6$ . <i>Indian Journal of Physics</i> , 2017, 91, 883-893.	1.8	5
57	Direct Evidence of the Competing Nature between Electronic and Lattice Breathing Order in Rare-Earth Nickelates. <i>Physical Review Letters</i> , 2020, 124, 127601.	7.8	4
58	Giant orbital polarization of $\text{Ni}^{2+}$ in a square planar environment. <i>Physical Review B</i> , 2021, 103, .	3.2	4
59	Proximate Quantum Spin Liquid on Designer Lattice. <i>Nano Letters</i> , 2021, 21, 2010-2017.	9.1	4
60	Spin-liquid behavior of the three-dimensional magnetic system $\text{Ba}_3\text{O}_9$ with $\text{S}^{2-}$ ions. <i>Physical Review B</i> , 2021, 103, .	3.2	4
61	Electronic and magnetic properties of epitaxial thin film of $\text{Nd}_{0.5}\text{Ba}_{0.5}\text{MnO}_3$ . <i>Applied Physics Letters</i> , 2022, 120, .	3.3	4
62	Invalidity Of A Localized Spin Mechanism For $\text{SrRuO}_3$ and $\text{CaRuO}_3$ . <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2
63	Observation of the Anomalous Hall Effect in $\text{NdTiO}_3/\text{SrTiO}_3$ Heterostructures. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12968-12974.	3.1	2
64	Perspective "Emergent Phases in Rare Earth Nickelate Heterostructure. <i>ECS Journal of Solid State Science and Technology</i> , 0, , .	1.8	2
65	Publisher's Note: Strain-modulated Mott transition in $\text{EuNiO}_3$ ultrathin films [Phys. Rev. B 88, 075116 (2013)]. <i>Physical Review B</i> , 2013, 88, .	3.2	1
66	Probing Electronic and Magnetic Transitions of Short Periodic Nickelate Superlattices Using Synchrotron X-rays. <i>Synchrotron Radiation News</i> , 2020, 33, 25-29.	0.8	0
67	Non-uniform magnetization profile in ferromagnetic heterostructures leading to topological Hall effect like signatures. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 549, 168981.	2.3	0