

Anand Bhattacharya

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5669096/publications.pdf>

Version: 2024-02-01

99
papers

4,043
citations

159585

30
h-index

118850

62
g-index

102
all docs

102
docs citations

102
times ranked

4944
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrostatic modification of novel materials. Reviews of Modern Physics, 2006, 78, 1185-1212.	45.6	465
2	Quantifying octahedral rotations in strained perovskite oxide films. Physical Review B, 2010, 82, .	3.2	293
3	Antiferromagnetic Spin Seebeck Effect. Physical Review Letters, 2016, 116, 097204.	7.8	248
4	Metal-Insulator Transition and Its Relation to Magnetic Structure in LaMnO_3 Tj E stretchy="false"></mml:mo><mml:msub><mml:mi>LaMnO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>Tj E stretchy="false"></mml:mo><mml:msub><mml:mi>SrMnO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>Tj E	7.8	202
5	Magnetic Oxide Heterostructures. Annual Review of Materials Research, 2014, 44, 65-90.	9.3	174
6	Non-volatile ferroelastic switching of the Verwey transition and resistivity of epitaxial $\text{Fe}_3\text{O}_4/\text{PMN-PT}$ (011). Scientific Reports, 2013, 3, 1876.	3.3	150
7	Enhanced ordering temperatures in antiferromagnetic manganite superlattices. Nature Materials, 2009, 8, 892-897.	27.5	145
8	Electronic Reconstruction at SrMnO_3 Interfaces. Physical Review Letters, 2007, 99, 196404.	7.8	141
9	Two-dimensional superconductivity and anisotropic transport at KTaO_3 (111) interfaces. Science, 2021, 371, 716-721.	12.6	136
10	Dynamic layer rearrangement during growth of layered oxide films by molecular beam epitaxy. Nature Materials, 2014, 13, 879-883.	27.5	133
11	Paramagnetic Spin Seebeck Effect. Physical Review Letters, 2015, 114, 186602.	7.8	114
12	Correlating interfacial octahedral rotations with magnetism in $(\text{LaMnO}_3+\hat{1})\text{N}/(\text{SrTiO}_3)\text{N}$ superlattices. Nature Communications, 2014, 5, 4283.	12.8	103
13	Electrostatic Tuning of the Superconductor-Insulator Transition in Two Dimensions. Physical Review Letters, 2005, 94, 197004.	7.8	99
14	Charge transfer and interfacial magnetism in $(\text{LaNiO}_3)_n/(\text{LaMnO}_3)_2$ superlattices. Physical Review B, 2013, 88, . octahedral rotations in $(\text{LaNiO}_3)_n/(\text{LaMnO}_3)_2$ superlattices. Physical Review B, 2013, 88, .	3.2	93
15	Charge transfer and interfacial magnetism in $(\text{LaNiO}_3)_n/(\text{LaMnO}_3)_2$ superlattices. Physical Review B, 2013, 88, .	3.2	87
16	Magnetically asymmetric interfaces in $\text{aLaMnO}_3/\text{SrMnO}_3$ superlattice due to structural asymmetries. Physical Review B, 2008, 77, .	3.2	74
17	Oscillatory Exchange Coupling and Positive Magnetoresistance in Epitaxial Oxide Heterostructures. Physical Review Letters, 2000, 85, 3728-3731.	7.8	71
18	Probing Interfacial Electronic Structures in Atomic Layer LaMnO_3 and SrTiO_3 Superlattices. Advanced Materials, 2010, 22, 1156-1160.	21.0	69

#	ARTICLE	IF	CITATIONS
19	Image registration of low signal-to-noise cryo-STEM data. Ultramicroscopy, 2018, 191, 56-65.	1.9	59
20	Angular Dependence of the Nonlinear Transverse Magnetic Moment of YBa ₂ Cu ₃ O _{6.95} in the Meissner State. Physical Review Letters, 1999, 82, 3132-3135.	7.8	56
21	Onset of metallic behavior in strained $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$		

#	ARTICLE	IF	CITATIONS
37	Probing short-range magnetic order in a geometrically frustrated magnet by means of the spin Seebeck effect. Physical Review B, 2018, 98, .	3.2	19
38	Anomalous parallel-field negative magnetoresistance in ultrathin films near the superconductor-insulator transition. Physical Review B, 2004, 70, .	3.2	18
39	Exchange-biased La _{2/3} Ca _{1/3} (Sr _{1/3})MnO ₃ ultrathin films. Applied Physics Letters, 2000, 76, 478-480.	3.3	17
40	Cation-ordering effects in the single layered manganite La _{2/3} Sr _{4/3} MnO ₄ . Applied Physics Letters, 2011, 98, .	3.3	16
41	Practical spatial resolution of electron energy loss spectroscopy in aberration corrected scanning transmission electron microscopy. Micron, 2011, 42, 539-546.	2.2	16
42	Spatially inhomogeneous electron state deep in the extreme quantum limit of strontium titanate. Nature Communications, 2016, 7, 12974.	12.8	16
43	Tunable Noncollinear Antiferromagnetic Resistive Memory through Oxide Superlattice Design. Physical Review Applied, 2018, 9, .	3.8	16
44	Doped NiO: The mottness of a charge transfer insulator. Physical Review B, 2020, 101, .	3.2	16
45	Observation of an antiferromagnetic quantum critical point in high-purity LaNiO ₃ . Nature Communications, 2020, 11, 1402.	12.8	16
46	Magnetic-field scaling of the conductance of epitaxial cuprate-manganite bilayers. Physical Review B, 2001, 64, .	3.2	15
47	Spectral Weight Redistribution in $\langle \text{LaNiO}_3 \rangle$		

#	ARTICLE	IF	CITATIONS
55	Molecular beam epitaxy of the magnetic Kagome metal FeSn on LaAlO ₃ (111). AIP Advances, 2020, 10, .	1.3	13
56	<i>In situ</i> x-ray and electron scattering studies of oxide molecular beam epitaxial growth. APL Materials, 2020, 8, .	5.1	13
57	Inductive crystal field control in layered metal oxides with correlated electrons. APL Materials, 2014, 2, .	5.1	12
58	Electric field control of magnon spin currents in an antiferromagnetic insulator. Science Advances, 2021, 7, eabg1669.	10.3	12
59	Comment on "The Nonlinear Meissner Effect Unobservable". Physical Review Letters, 1999, 83, 887-887.	7.8	10
60	Interface ferromagnetism in a SrMnO ₃ /LaMnO ₃ superlattice. Physical Review B, 2012, 86, .	3.2	10
61	Near-nanoscale-resolved energy band structure of LaNiO ₃ /La ₂ /3Sr ₁ /3MnO ₃ /SrTiO ₃ heterostructures and their interfaces. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, 04E103.	1.2	10
62	X-ray magnetic circular dichroism and near-edge X-ray absorption fine structure of buried interfacial magnetism measured by using a scanning tunneling microscope tip. Applied Physics Letters, 2018, 113, 061602.	3.3	10
63	Distinguishing antiferromagnetic spin sublattices via the spin Seebeck effect. Physical Review B, 2021, 103, .	3.2	10
64	Effect of defects on reaction of NiO surface with Pb-contained solution. Scientific Reports, 2017, 7, 44805.	3.3	9
65	Epitaxial growth of high quality SrFeO ₃ films on (001) oriented (LaAlO ₃) _{0.3} (Sr ₂ TaAlO ₆) _{0.7} . Applied Physics Letters, 2017, 111, .	3.3	9
66	Emergent <i>c</i> -axis magnetic helix in manganite-nickelate superlattices. Physical Review B, 2018, 98, .	3.2	9
67	Spin Seebeck effect in insulating SrFeO ₃ films. Applied Physics Letters, 2019, 114, 242403.	3.3	9
68	Origin of the 2D Electron Gas at the SrTiO ₃ Surface. Advanced Materials, 2022, 34, e2200866.	21.0	8
69	Comment on "Tensor Magnetothermal Resistance in YBa ₂ Cu ₃ O ₇ via Andreev Scattering of Quasiparticles". Physical Review Letters, 1996, 77, 3058-3058.	7.8	7
70	Substrate orientation dependence of ferromagnetism in (Ga,Mn)As. Applied Physics Letters, 2008, 93, .	3.3	6
71	Towards spin-polarized two-dimensional electron gas at a surface of an antiferromagnetic insulating oxide. Physical Review B, 2016, 94, .	3.2	6
72	Nanoscale measurement of Nernst effect in two-dimensional charge density wave material 1T-TaS ₂ . Applied Physics Letters, 2017, 111, .	3.3	6

#	ARTICLE	IF	CITATIONS
73	Counter-thermal flow of holes in high-mobility LaNiO_3 thin films. <i>Physical Review B</i> , 2019, 99, .	3.2	6
74	Interface creation on a mixed-terminated perovskite surface. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	6
75	Local structure of potassium doped nickel oxide: A combined experimental-theoretical study. <i>Physical Review Materials</i> , 2019, 3, .	2.4	6
76	Precision sample rotator with active angular position readout for a superconducting quantum interference device susceptometer. <i>Review of Scientific Instruments</i> , 1998, 69, 3563-3567.	1.3	5
77	Confined polaronic transport in $(\text{LaFeO}_3)_n/(\text{SrFeO}_3)_1$ superlattices. <i>APL Materials</i> , 2019, 7, .	5.1	5
78	Spin injection and the interfacial conductance of ferromagnet-superconductor oxide heterostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001, 84, 63-69.	3.5	4
79	Elemental and lattice-parameter mapping of binary oxide superlattices of $(\text{LaNiO}_3)_4/(\text{LaMnO}_3)_2$ at atomic resolution. <i>Semiconductor Science and Technology</i> , 2017, 32, 014002.	2.0	4
80	Parameter transferability, self-doping, and metallicity in $\text{LaNiO}_3/\text{LaMnO}_3$ superlattices. <i>Physical Review B</i> , 2019, 99, .	3.2	4
81	Strongly Correlated Aromatic Molecular Conductor. <i>Small</i> , 2019, 15, e1900299.	10.0	4
82	<i>In situ</i> study on the evolution of atomic and electronic structure of LaTiO_3 system. <i>Physical Review Materials</i> , 2022, 6, .	2.4	4
83	Self-healing Growth of LaNiO_3 on a Mixed-Terminated Perovskite Surface. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 16928-16938.	8.0	4
84	Publisher's Note: Electrostatic Tuning of the Superconductor-Insulator Transition in Two Dimensions [Phys. Rev. Lett.94, 197004 (2005)]. <i>Physical Review Letters</i> , 2005, 95, .	7.8	3
85	Tuning the 2D Superconductor-Insulator Transition by Use of the Electric Field Effect. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	3
86	Title is missing!. <i>Journal of Superconductivity and Novel Magnetism</i> , 1999, 12, 99-103.	0.5	2
87	On the Development of Order and Interfaces during the Growth of Ultrathin La_2CuO_4 Films by Molecular Beam Epitaxy. <i>ACS Applied Electronic Materials</i> , 0, , .	4.3	2
88	Dynamics of crumpling of fluid-like amphiphilic membranes. <i>Journal of Physics A</i> , 1994, 27, 257-262.	1.6	1
89	Improvement of the superconducting transition and demagnetization factor in $\text{YBa}_2\text{Cu}_3\text{O}_7$ single crystals by laser cutting. <i>Applied Physics Letters</i> , 1996, 69, 1792-1794.	3.3	1
90	Fermi surface topology and nontrivial Berry phase in the flat-band semimetal Pd_3Pb . <i>Physical Review B</i> , 2020, 101, .	3.2	1

#	ARTICLE	IF	CITATIONS
91	Molecular beam epitaxy of PdO on MgO (001). Physical Review Materials, 2021, 5, .	2.4	1
92	Magnetic-superconducting oxide heterostructures. , 2000, 4058, 2.		0
93	Field-induced space charge limited current flow in disordered ultrathin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 13-16.	0.8	0
94	The Atomic Structure of Oxide Superlattices Revealed by Fine Electron Probes. Microscopy and Microanalysis, 2009, 15, 110-111.	0.4	0
95	Manganite multilayers. , 2012, , 254-295.		0
96	Structurally induced magnetization in a $\text{La}_{2/3}\text{Sr}_{4/3}\text{MnO}_4$ superlattice. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1322-1327.	1.8	0
97	Back Cover: Structurally induced magnetization in a $\text{La}_{2/3}\text{Sr}_{4/3}\text{MnO}_4$ superlattice (Phys. Status Solidi A 7/2012). Physica Status Solidi (A) Applications and Materials Science, 2012, 209, .	1.8	0
98	Interfaces of lanthanum and strontium manganite superlattices. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C60-C60.	0.3	0
99	Gate-tunable terahertz emission at oxide interfaces via ultrafast spin-to-charge current conversion. , 2019, , .		0