

# Anand Bhattacharya

## List of Publications by Year in descending order

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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	<i>In situ</i> study on the evolution of atomic and electronic structure of $\text{LaTiO}_3$ system. <i>Physical Review Materials</i> , 2022, 6, .	2.4	15
2	Self-healing Growth of $\text{LaNiO}_3$ on a Mixed-Terminated Perovskite Surface. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 16928-16938.	8.0	4
3	Origin of the 2D Electron Gas at the $\text{SrTiO}_3$ Surface. <i>Advanced Materials</i> , 2022, 34, e2200866.	21.0	8
4	Distinguishing antiferromagnetic spin sublattices via the spin Seebeck effect. <i>Physical Review B</i> , 2021, 103, .	3.2	10
5	Interface creation on a mixed-terminated perovskite surface. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	6
6	Two-dimensional superconductivity and anisotropic transport at $\text{KTaO}_3$ (111) interfaces. <i>Science</i> , 2021, 371, 716-721.	12.6	136
7	Molecular beam epitaxy of PdO on MgO (001). <i>Physical Review Materials</i> , 2021, 5, .	2.4	1
8	Electric field control of magnon spin currents in an antiferromagnetic insulator. <i>Science Advances</i> , 2021, 7, eabg1669.	10.3	12
9	Molecular beam epitaxy of the magnetic Kagome metal FeSn on $\text{LaAlO}_3$ (111). <i>AIP Advances</i> , 2020, 10, .	1.3	13
10	<i>In situ</i> x-ray and electron scattering studies of oxide molecular beam epitaxial growth. <i>APL Materials</i> , 2020, 8, .	5.1	13
11	Fermi surface topology and nontrivial Berry phase in the flat-band semimetal Pd3Pb. <i>Physical Review B</i> , 2020, 101, .	3.2	1
12	Doped NiO: The mottness of a charge transfer insulator. <i>Physical Review B</i> , 2020, 101, .	3.2	16
13	Observation of an antiferromagnetic quantum critical point in high-purity $\text{LaNiO}_3$ . <i>Nature Communications</i> , 2020, 11, 1402.	12.8	16
14	Large anomalous Nernst and inverse spin-Hall effects in epitaxial thin films of kagome semimetal $\text{Mn}_3\text{Sn}$ . <i>Physical Review Materials</i> , 2020, 4, .	2.4	15
15	Confined polaronic transport in $(\text{LaFeO}_3)_n/(\text{SrFeO}_3)_1$ superlattices. <i>APL Materials</i> , 2019, 7, .	5.1	5
16	Parameter transferability, self-doping, and metallicity in $\text{LaNiO}_3/\text{LaMnO}_3$ superlattices. <i>Physical Review B</i> , 2019, 99, .	3.2	4
17	Counter-thermal flow of holes in high-mobility $\text{LaNiO}_3$ thin films. <i>Physical Review B</i> , 2019, 99, .	3.2	5
18	Spin Seebeck effect in insulating $\text{SrFeO}_3$ films. <i>Applied Physics Letters</i> , 2019, 114, 242403.	3.3	9

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19	Strongly Correlated Aromatic Molecular Conductor. <i>Small</i> , 2019, 15, e1900299.	10.0	4
20	Local structure of potassium doped nickel oxide: A combined experimental-theoretical study. <i>Physical Review Materials</i> , 2019, 3, .	2.4	6
21	Gate-tunable terahertz emission at oxide interfaces via ultrafast spin-to-charge current conversion. , 2019, , .		0
22	Tunable Noncollinear Antiferromagnetic Resistive Memory through Oxide Superlattice Design. <i>Physical Review Applied</i> , 2018, 9, .	3.8	16
23	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. <i>Applied Physics Letters</i> , 2018, 113, 061602.	3.3	10
24	Emergent $c$ -axis magnetic helix in manganite-nickelate superlattices. <i>Physical Review B</i> , 2018, 98, .	3.2	9
25	Probing short-range magnetic order in a geometrically frustrated magnet by means of the spin Seebeck effect. <i>Physical Review B</i> , 2018, 98, .	3.2	19
26	Unconventional slowing down of electronic recovery in photoexcited charge-ordered $\text{La}_{1/3}\text{Sr}_{2/3}\text{FeO}_3$ . <i>Nature Communications</i> , 2018, 9, 1799.	12.8	14
27	Image registration of low signal-to-noise cryo-STEM data. <i>Ultramicroscopy</i> , 2018, 191, 56-65.	1.9	59
28	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
29	Effect of defects on reaction of NiO surface with Pb-contained solution. <i>Scientific Reports</i> , 2017, 7, 44805.	3.3	9
30	Nanoscale measurement of Nernst effect in two-dimensional charge density wave material 1T-TaS <sub>2</sub> . <i>Applied Physics Letters</i> , 2017, 111, .	3.3	6
31	Epitaxial growth of high quality SrFeO <sub>3</sub> films on (001) oriented $(\text{LaAlO}_3)_{0.3}(\text{Sr}_2\text{TaAlO}_6)_{0.7}$ . <i>Applied Physics Letters</i> , 2017, 111, .	3.3	9
32	Oscillatory Noncollinear Magnetism Induced by Interfacial Charge Transfer in Superlattices Composed of Metallic Oxides. <i>Physical Review X</i> , 2016, 6, .	8.9	30
33	Towards spin-polarized two-dimensional electron gas at a surface of an antiferromagnetic insulating oxide. <i>Physical Review B</i> , 2016, 94, .	3.2	6
34	Antiferromagnetic Spin Seebeck Effect. <i>Physical Review Letters</i> , 2016, 116, 097204.	7.8	248
35	Spatially inhomogeneous electron state deep in the extreme quantum limit of strontium titanate. <i>Nature Communications</i> , 2016, 7, 12974.	12.8	16
36	<i>In situ</i> surface/interface x-ray diffractometer for oxide molecular beam epitaxy. <i>Review of Scientific Instruments</i> , 2016, 87, 013901.	1.3	19



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55	of octahedral rotations in $(\text{LaNiO}_3)_x(\text{TiO}_2)_{1-x}$ . <i>Applied Physics Letters</i> , 2011, 98, .	3.2 87
56	Cation-ordering effects in the single layered manganite $\text{La}_{2/3}\text{Sr}_{4/3}\text{MnO}_4$ . <i>Applied Physics Letters</i> , 2011, 98, .	3.3 16
57	Practical spatial resolution of electron energy loss spectroscopy in aberration corrected scanning transmission electron microscopy. <i>Micron</i> , 2011, 42, 539-546.	2.2 16
58	Ultrathin $\text{BaTiO}_3$ templates for multiferroic nanostructures. <i>New Journal of Physics</i> , 2011, 13, 083037.	2.9 13
59	Delta Doping of Ferromagnetism in Antiferromagnetic Manganite Superlattices. <i>Physical Review Letters</i> , 2011, 107, 167202.	7.8 40
60	Interfaces of lanthanum and strontium manganite superlattices. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, C60-C60.	0.3 0
61	Probing Interfacial Electronic Structures in Atomic Layer $\text{LaMnO}_3$ and $\text{SrTiO}_3$ Superlattices. <i>Advanced Materials</i> , 2010, 22, 1156-1160.	21.0 69
62	Presence and spatial distribution of interfacial electronic states in $\text{LaMnO}_3/\text{SrTiO}_3$ superlattices. <i>Physical Review B</i> , 2010, 82, .	3.2 26
63	Quantifying octahedral rotations in strained perovskite oxide films. <i>Physical Review B</i> , 2010, 82, .	3.2 293
64	Tuning between the metallic antiferromagnetic and ferromagnetic phases of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ . <i>Physical Review B</i> , 2009, 80, .	3.2 52
65	Onset of metallic behavior in strained $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ .	

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73	Signatures of enhanced ordering temperatures in digital superlattices of $(\text{LaMnO}_3)_m(\text{SrMnO}_3)_2$ . Applied Physics Letters, 2007, 90, 222503.	3.3	49
74	Electronic Reconstruction at $\text{SrMnO}_3/\text{LaMnO}_3$ Interfaces. Physical Review Letters, 2007, 99, 196404.	7.8	141
75	Electrostatic modification of novel materials. Reviews of Modern Physics, 2006, 78, 1185-1212.	45.6	465
76	Tuning the 2D Superconductor-Insulator Transition by Use of the Electric Field Effect. AIP Conference Proceedings, 2006, .	0.4	3
77	Ambipolar Gate Effect and Low Temperature Magnetoresistance of Ultrathin $\text{La}_{0.8}\text{Ca}_{0.2}\text{MnO}_3$ Films. Physical Review Letters, 2005, 94, 037204.	7.8	30
78	Publisher's Note: Electrostatic Tuning of the Superconductor-Insulator Transition in Two Dimensions [Phys. Rev. Lett. 94, 197004 (2005)]. Physical Review Letters, 2005, 95, .	7.8	3
79	Electrostatic Tuning of the Superconductor-Insulator Transition in Two Dimensions. Physical Review Letters, 2005, 94, 197004.	7.8	99
80	Low-temperature glassy response of ultrathin $\text{La}_{0.8}\text{Ca}_{0.2}\text{MnO}_3$ films to electric and magnetic fields. Physical Review B, 2005, 72, .	3.2	13
81	Anomalous parallel-field negative magnetoresistance in ultrathin films near the superconductor-insulator transition. Physical Review B, 2004, 70, .	3.2	18
82	Micromachined $\text{SrTiO}_3$ single crystals as dielectrics for electrostatic doping of thin films. Applied Physics Letters, 2004, 85, 997-999.	3.3	24
83	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
84	Electrical Transport of Spin-Polarized Carriers in Disordered Ultrathin Films. Physical Review Letters, 2003, 91, 126801.	7.8	13
85	Spin Injection and Transport in Magnetic-Superconducting Oxide Heterostructures. Journal of Superconductivity and Novel Magnetism, 2001, 14, 283-290.	0.5	14
86	Spin injection and the interfacial conductance of ferromagnet-superconductor oxide heterostructures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 84, 63-69.	3.5	4
87	Magnetic-field scaling of the conductance of epitaxial cuprate-manganite bilayers. Physical Review B, 2001, 64, .	3.2	15
88	Magnetic-superconducting oxide heterostructures. , 2000, 4058, 2.		0
89	Exchange-biased $\text{La}_{2/3}\text{Ca}_{1/3}(\text{Sr}_{1/3})\text{MnO}_3$ ultrathin films. Applied Physics Letters, 2000, 76, 478-480.	3.3	17
90	Oscillatory Exchange Coupling and Positive Magnetoresistance in Epitaxial Oxide Heterostructures. Physical Review Letters, 2000, 85, 3728-3731.	7.8	71

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91	Comment on "Is the Nonlinear Meissner Effect Unobservable?". Physical Review Letters, 1999, 83, 887-887.	7.8	10
92	Angular Dependence of the Nonlinear Transverse Magnetic Moment of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.95</sub> in the Meissner State. Physical Review Letters, 1999, 82, 3132-3135.	7.8	56
93	Title is missing!. Journal of Superconductivity and Novel Magnetism, 1999, 12, 99-103.	0.5	2
94	Indications of antiferromagnetic interlayer coupling in La <sub>2/3</sub> Ba <sub>1/3</sub> MnO <sub>3</sub> /LaNiO <sub>3</sub> multilayers. Applied Physics Letters, 1999, 75, 118-120.	3.3	42
95	Precision sample rotator with active angular position readout for a superconducting quantum interference device susceptometer. Review of Scientific Instruments, 1998, 69, 3563-3567.	1.3	5
96	Improvement of the superconducting transition and demagnetization factor in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> single crystals by laser cutting. Applied Physics Letters, 1996, 69, 1792-1794.	3.3	1
97	Comment on "Tensor Magnetothermal Resistance in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> via Andreev Scattering of Quasiparticles". Physical Review Letters, 1996, 77, 3058-3058.	7.8	7
98	Dynamics of crumpling of fluid-like amphiphilic membranes. Journal of Physics A, 1994, 27, 257-262.	1.6	1
99	On the Development of Order and Interfaces during the Growth of Ultrathin La <sub>2</sub> CuO <sub>4</sub> Films by Molecular Beam Epitaxy. ACS Applied Electronic Materials, 0, , .	4.3	2