

# Aveek Bid

## List of Publications by Year in descending order

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52  
papers

1,236  
citations

516561

16  
h-index

360920

35  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1871  
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlated carrier dynamics in a superconducting van der Waals heterostructure. Applied Physics Letters, 2022, 120, 183101.	1.5	0
2	Electric-Field-Tunable Valley Zeeman Effect in Bilayer Graphene Heterostructures: Realization of the Spin-Orbit Valve Effect. Physical Review Letters, 2021, 126, 096801.	2.9	21
3	Observation of Time-Reversal Invariant Helical Edge-Modes in Bilayer Graphene/WSe <sub>2</sub> Heterostructure. ACS Nano, 2021, 15, 916-922.	7.3	13
4	Transition from three- to two-dimensional Ising superconductivity in few-layer NbSe <sub>2</sub> by proximity effect from van der Waals heterostacking. Physical Review B, 2021, 104, .	1.1	6
5	Hidden electronic phase in strained few-layer T <sub>1</sub> TaS <sub>2</sub> . Physical Review Materials, 2021, 5, .	0.9	2
6	Electrical and Chemical Tuning of Exciton Lifetime in Monolayer MoS <sub>2</sub> for Field-Effect Transistors. ACS Applied Nano Materials, 2020, 3, 641-647.	2.4	19
7	Strong suppression of emission quenching in core quantum dots coupled to monolayer MoS <sub>2</sub> . Nanoscale Advances, 2020, 2, 3858-3864.	2.2	2
8	Anharmonicity in Raman-active phonon modes in atomically thin MoS <sub>2</sub> . Physical Review B, 2020, 101, .	1.1	1
9	Probing defect states in few-layer MoS <sub>2</sub> by conductance fluctuation spectroscopy. Physical Review B, 2019, 99, .	1.1	8
10	Effect of dimensionality on the vortex dynamics in a type-II superconductor. Physical Review B, 2019, 100, .	1.1	8
11	Conductivity noise across temperature-driven transitions of rare-earth nickelate heterostructures. Physical Review B, 2019, 100, .	1.1	8
12	Effect of spin-orbit interaction on the vortex dynamics in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interfaces near the superconducting transition. Physical Review B, 2019, 100, .	1.1	1
13	Continuous transition from weakly localized regime to strong localization regime in Nd <sub>0.7</sub> La <sub>0.3</sub> NiO <sub>3</sub> films. Journal of Physics Condensed Matter, 2019, 31, 145603.	0.7	2
14	Universal scaling behaviour near vortex-solid/glass to vortex-fluid transition in type-II superconductors in two and three dimensions. Europhysics Letters, 2019, 128, 27001.	0.7	1
15	Resistance fluctuation spectroscopy of thin films of 3D topological insulator BiSbTeSe <sub>1.6</sub> . Applied Physics Letters, 2019, 115, .	1.5	3
16	Evolution of inter-layer coupling in artificially stacked bilayer MoS <sub>2</sub> . Nanoscale Advances, 2019, 1, 4398-4405.	2.2	8
17	Exotic multifractal conductance fluctuations in graphene. Communications Physics, 2018, 1, .	2.0	57
18	Effect of multiband transport on charge carrier density fluctuations at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. Physical Review B, 2018, 98, .		

#	ARTICLE	IF	CITATIONS
19	Manipulation of Optoelectronic Properties and Band Structure Engineering of Ultrathin Te Nanowires by Chemical Adsorption. ACS Applied Materials & Interfaces, 2017, 9, 19462-19469.	4.0	9
20	Effect of microstructure on the electronic transport properties of epitaxial CaRuO <sub>3</sub> thin films. Physica B: Condensed Matter, 2017, 511, 74-79.	1.3	3
21	Crumpled sheets of reduced graphene oxide as a highly sensitive, robust and versatile strain/pressure sensor. Nanoscale, 2017, 9, 9581-9588.	2.8	29
22	Observation of transient superconductivity at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2017, 95, .		
23	Probing the interplay between surface and bulk states in the topological Kondo insulator $\text{SmB}_6$ by conductance fluctuation spectroscopy. Physical Review B, 2017, 95, .		
24	Quantum Phase Transition in Few-Layer $\text{NbSe}_2$ Probed through Quantized Conductance Fluctuations. Physical Review Letters, 2017, 119, 226802.		
25	Effect of ambient on electrical transport properties of ultra-thin Au nanowires. Applied Physics Letters, 2016, 109, 253108.	1.5	4
26	Structural instability and phase co-existence driven non-Gaussian resistance fluctuations in metal nanowires at low temperatures. Nanotechnology, 2016, 27, 455701.	1.3	1
27	Correlated non-Gaussian phase fluctuations in $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2016, 94, .		
28	Chemical vapour sensing using power spectrum of 1/f noise of graphene. , 2015, , .		0
29	Robust local and nonlocal transport in the topological Kondo insulator $\text{SmB}_6$ in the presence of a high magnetic field. Physical Review B, 2015, 92, .	1.1	11
30	Role of different scattering mechanisms on the temperature dependence of transport in graphene. Scientific Reports, 2015, 5, 16772.	1.6	15
31	Resistance fluctuations near the Berezinskii-Kosterlitz-Thouless transition temperature in low dimensional superconductors. , 2015, , .		0
32	Effect of ambient on the resistance fluctuations of graphene. Applied Physics Letters, 2015, 106, .	1.5	24
33	High-Performance Sensors Based on Resistance Fluctuations of Single-Layer-Graphene Transistors. ACS Applied Materials & Interfaces, 2015, 7, 19825-19830.	4.0	20
34	Probing a spin-glass state in $\text{SrRuO}_3$ films through higher-order statistics of resistance fluctuations. Physical Review B, 2014, 90, .		
35	A Continuous Electrical Conductivity Model for Monolayer Graphene From Near Intrinsic to Far Extrinsic Region. IEEE Transactions on Electron Devices, 2014, 61, 3646-3653.	1.6	3
36	Correlated Conductance Fluctuations Close to the Berezinskii-Kosterlitz-Thouless Transition in Ultrathin NbN Films. Physical Review Letters, 2013, 111, 197001.	2.9	33

#	ARTICLE	IF	CITATIONS
37	Observation of Neutral Modes In The Fractional Quantum Hall Effect Regime. , 2011, , .		3
38	Observation of neutral modes in the fractional quantum Hall regime. Nature, 2010, 466, 585-590.	13.7	180
39	Role of interactions in an electronic Fabry-Pérot interferometer operating in the quantum Hall effect regime. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5276-5281.	3.3	106
40	Shot Noise and Charge at the $\nu = 2$ Composite Fractional Quantum Hall State. Physical Review Letters, 2009, 103, 236802.	2.9	83
41	Transmission Phase of a Singly Occupied Quantum Dot in the Kondo Regime. Physical Review Letters, 2008, 100, 226601.	2.9	43
42	Stability of Metal Nanowires (d ≈ 15 nm) Against Electromigration. Journal of Nanoscience and Nanotechnology, 2007, 7, 1831-1835.	0.9	2
43	Quetiapine use in manic episode during pregnancy: A case report. European Psychiatry, 2007, 22, S166-S167.	0.1	1
44	Debye Temperature of Metallic Nanowires—An Experimental Determination from the Resistance of Metallic Nanowires in the Temperature Range 4.2 K–300 K. Journal of Nanoscience and Nanotechnology, 2007, 7, 1867-1870.	0.9	3
45	Temperature dependence of the resistance of metallic nanowires of diameter ≈ 15 nm: Applicability of Bloch-Grüneisen theorem. Physical Review B, 2006, 74, .	1.1	320
46	1/f noise in nanowires. Nanotechnology, 2006, 17, 152-156.	1.3	26
47	Publisher's Note: Temperature dependence of the resistance of metallic nanowires of diameter ≈ 15 nm: Applicability of Bloch-Grüneisen theorem [Phys. Rev. B 74, 035426 (2006)]. Physical Review B, 2006, 74, .	1.1	12
48	Experimental study of Rayleigh instability in metallic nanowires using resistance fluctuations measurements from 77K to 375K. , 2005, 5843, 147.		4
49	Observation of large low-frequency resistance fluctuations in metallic nanowires: Implications on its stability. Physical Review B, 2005, 72, .	1.1	27
50	Study of conductance fluctuations (1/f noise) in metallic nanowires. , 2004, , .		1
51	Low-frequency random telegraphic noise and 1/f noise in the rare-earth manganite Pr <sub>0.63</sub> Ca <sub>0.37</sub> MnO <sub>3</sub> near the charge-ordering transition. Physical Review B, 2003, 67, .	1.1	26
52	Low-frequency noise in charge ordered system Pr <sub>0.63</sub> Ca <sub>0.37</sub> MnO <sub>3</sub> near the charge-ordering transition and in the current induced destabilized state. , 2003, 5112, 144.		0