

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
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53
all docs

53
docs citations

53
times ranked

1871
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature dependence of the resistance of metallic nanowires of diameter ≈ 15 nm: Applicability of Bloch-Grüneisen theorem. <i>Physical Review B</i> , 2006, 74, .	1.1	320
2	Observation of neutral modes in the fractional quantum Hall regime. <i>Nature</i> , 2010, 466, 585-590.	13.7	180
3	Role of interactions in an electronic Fabry-Pérot interferometer operating in the quantum Hall effect regime. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5276-5281.	3.3	106
4	Shot Noise and Charge at the $\nu = 2$ Composite Fractional Quantum Hall State. <i>Physical Review Letters</i> , 2009, 103, 236802.	2.9	83
5	Exotic multifractal conductance fluctuations in graphene. <i>Communications Physics</i> , 2018, 1, .	2.0	57
6	Transmission Phase of a Singly Occupied Quantum Dot in the Kondo Regime. <i>Physical Review Letters</i> , 2008, 100, 226601.	2.9	43
7	Correlated Conductance Fluctuations Close to the Berezinskii-Kosterlitz-Thouless Transition in Ultrathin NbN Films. <i>Physical Review Letters</i> , 2013, 111, 197001.	2.9	33
8	Crumpled sheets of reduced graphene oxide as a highly sensitive, robust and versatile strain/pressure sensor. <i>Nanoscale</i> , 2017, 9, 9581-9588.	2.8	29
9	Observation of large low-frequency resistance fluctuations in metallic nanowires: Implications on its stability. <i>Physical Review B</i> , 2005, 72, .	1.1	27
10	Low-frequency random telegraphic noise and $1/f$ noise in the rare-earth manganite $\text{Pr}_{0.63}\text{Ca}_{0.37}\text{MnO}_3$ near the charge-ordering transition. <i>Physical Review B</i> , 2003, 67, .	1.1	26
11	$1/f$ noise in nanowires. <i>Nanotechnology</i> , 2006, 17, 152-156.	1.3	26
12	Effect of ambient on the resistance fluctuations of graphene. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	24
13	Electric-Field-Tunable Valley Zeeman Effect in Bilayer Graphene Heterostructures: Realization of the Spin-Orbit Valve Effect. <i>Physical Review Letters</i> , 2021, 126, 096801.	2.9	21
14	High-Performance Sensors Based on Resistance Fluctuations of Single-Layer-Graphene Transistors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19825-19830.	4.0	20
15	Correlated non-Gaussian phase fluctuations in $\text{LaAlO}_3/\text{SiO}_2$. <i>Physical Review B</i> , 2016, 94, .	1.1	19
16	Electrical and Chemical Tuning of Exciton Lifetime in Monolayer MoS_2 for Field-Effect Transistors. <i>ACS Applied Nano Materials</i> , 2020, 3, 641-647.	2.4	19
17	Anharmonicity in Raman-active phonon modes in atomically thin MoS_2 . <i>Physical Review B</i> , 2020, 101, .	1.1	18
18	Role of different scattering mechanisms on the temperature dependence of transport in graphene. <i>Scientific Reports</i> , 2015, 5, 16772.	1.6	15

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19	Quantum Phase Transition in Few-Layer NbSe_2 Probed through Quantized Conductance Fluctuations. Physical Review Letters, 2017, 119, 226802.	1.1	11
20	Observation of Time-Reversal Invariant Helical Edge-Modes in Bilayer Graphene/WSe ₂ Heterostructure. ACS Nano, 2021, 15, 916-922.	7.3	13
21	Publisher's Note: Temperature dependence of the resistance of metallic nanowires of diameter ≈ 15 nm: Applicability of Bloch-Grüneisen theorem [Phys. Rev. B74, 035426 (2006)]. Physical Review B, 2006, 74, .	1.1	12
22	Probing a spin-glass state in SrRuO_3 films through higher-order statistics of resistance fluctuations. Physical Review B, 2014, 90, .	1.1	12
23	Robust local and nonlocal transport in the topological Kondo insulator Sb_2Te_3 in the presence of a high magnetic field. Physical Review B, 2015, 92, .	1.1	11
24	Probing defect states in few-layer MoS_2 by conductance fluctuation spectroscopy. Physical Review B, 2019, 99, .	1.1	11
25	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
26	Observation of transient superconductivity at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2017, 95, .	1.1	9
27	Effect of dimensionality on the vortex dynamics in a type-II superconductor. Physical Review B, 2019, 100, .	1.1	8
28	Conductivity noise across temperature-driven transitions of rare-earth nickelate heterostructures. Physical Review B, 2019, 100, .	1.1	8
29	Evolution of inter-layer coupling in artificially stacked bilayer MoS_2 . Nanoscale Advances, 2019, 1, 4398-4405.	2.2	8
30	Effect of multiband transport on charge carrier density fluctuations at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2018, 98, .	1.1	8
31	Probing the interplay between surface and bulk states in the topological Kondo insulator Sb_2Te_3 by conductance fluctuation spectroscopy. Physical Review B, 2017, 95, .	1.1	8
32	Transition from three- to two-dimensional Ising superconductivity in few-layer NbSe_2 by proximity effect from van der Waals heterostacking. Physical Review B, 2021, 104, .	1.1	6
33	Experimental study of Rayleigh instability in metallic nanowires using resistance fluctuations measurements from 77K to 375K. , 2005, 5843, 147.		4
34	Effect of ambient on electrical transport properties of ultra-thin Au nanowires. Applied Physics Letters, 2016, 109, 253108.	1.5	4
35	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
36	Observation of Neutral Modes In The Fractional Quantum Hall Effect Regime. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
37	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
38	Effect of microstructure on the electronic transport properties of epitaxial CaRuO ₃ thin films. Physica B: Condensed Matter, 2017, 511, 74-79.	1.3	3
39	Resistance fluctuation spectroscopy of thin films of 3D topological insulator BiSbTeSe _{1.6} . Applied Physics Letters, 2019, 115, .	1.5	3
40	Stability of Metal Nanowires (d ≈ 15 nm) Against Electromigration. Journal of Nanoscience and Nanotechnology, 2007, 7, 1831-1835.	0.9	2
41	Continuous transition from weakly localized regime to strong localization regime in Nd _{0.7} La _{0.3} NiO ₃ films. Journal of Physics Condensed Matter, 2019, 31, 145603.	0.7	2
42	Strong suppression of emission quenching in core quantum dots coupled to monolayer MoS ₂ . Nanoscale Advances, 2020, 2, 3858-3864.	2.2	2
43	Hidden electronic phase in strained few-layer $T\text{TaS}_2$. Physical Review Materials, 2021, 5, .	2.9	2
44	Study of conductance fluctuations (1/f noise) in metallic nanowires. , 2004, , .		1
45	Quetiapine use in manic episode during pregnancy: A case report. European Psychiatry, 2007, 22, S166-S167.	0.1	1
46	Structural instability and phase co-existence driven non-Gaussian resistance fluctuations in metal nanowires at low temperatures. Nanotechnology, 2016, 27, 455701.	1.3	1
47	Effect of spin-orbit interaction on the vortex dynamics in LaAlO ₃ /SrTiO ₃ interfaces near the superconducting transition. Physical Review B, 2019, 100, .	1.1	1
48	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
49	Low-frequency noise in charge ordered system Pr _{0.63} Ca _{0.37} MnO ₃ near the charge-ordering transition and in the current induced destabilized state. , 2003, 5112, 144.		0
50	Chemical vapour sensing using power spectrum of 1/f noise of graphene. , 2015, , .		0
51	Resistance fluctuations near the Berezinskii-Kosterlitz-Thouless transition temperature in low dimensional superconductors. , 2015, , .		0
52	Correlated carrier dynamics in a superconducting van der Waals heterostructure. Applied Physics Letters, 2022, 120, 183101.	1.5	0