

Denis A Bandurin

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

3,110
citations

471509

17
h-index

454955

30
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33
all docs

33
docs citations

33
times ranked

4354
citing authors

#	ARTICLE	IF	CITATIONS
1	High electron mobility, quantum Hall effect and anomalous optical response in atomically thin InSe. Nature Nanotechnology, 2017, 12, 223-227.	31.5	996
2	Negative local resistance caused by viscous electron backflow in graphene. Science, 2016, 351, 1055-1058.	12.6	516
3	Superballistic flow of viscous electron fluid through graphene constrictions. Nature Physics, 2017, 13, 1182-1185.	16.7	288
4	Resonant terahertz detection using graphene plasmons. Nature Communications, 2018, 9, 5392.	12.8	198
5	Measuring Hall viscosity of graphene's electron fluid. Science, 2019, 364, 162-165.	12.6	197
6	Fluidity onset in graphene. Nature Communications, 2018, 9, 4533.	12.8	136
7	High-temperature quantum oscillations caused by recurring Bloch states in graphene superlattices. Science, 2017, 357, 181-184.	12.6	117
8	Strained Bubbles in van der Waals Heterostructures as Local Emitters of Photoluminescence with Adjustable Wavelength. ACS Photonics, 2019, 6, 516-524.	6.6	110
9	Edge currents shunt the insulating bulk in gapped graphene. Nature Communications, 2017, 8, 14552.	12.8	77
10	Giant oscillations in a triangular network of one-dimensional states in marginally twisted graphene. Nature Communications, 2019, 10, 4008.	12.8	67
11	Dual origin of room temperature sub-terahertz photoresponse in graphene field effect transistors. Applied Physics Letters, 2018, 112, .	3.3	60
12	Fizeau drag in graphene plasmonics. Nature, 2021, 594, 513-516.	27.8	57
13	Tunnel field-effect transistors for sensitive terahertz detection. Nature Communications, 2021, 12, 543.	12.8	52
14	Edge field emission of large-area single layer graphene. Applied Surface Science, 2015, 357, 1967-1974.	6.1	41
15	Out-of-equilibrium criticalities in graphene superlattices. Science, 2022, 375, 430-433.	12.6	34
16	Enhanced Superconductivity in Few-Layer TaS ₂ due to Healing by Oxygenation. Nano Letters, 2020, 20, 3808-3818.	9.1	23
17	Field emission spectroscopy evidence for dual-barrier electron tunnelling in nanographite. Applied Physics Letters, 2015, 106, .	3.3	18
18	Pseudo-Euler equations from nonlinear optics: Plasmon-assisted photodetection beyond hydrodynamics. Physical Review B, 2019, 99, .	3.2	16

#	ARTICLE	IF	CITATIONS
19	Cyclotron resonance overtones and near-field magnetoabsorption via terahertz Bernstein modes in graphene. <i>Nature Physics</i> , 2022, 18, 462-467.	16.7	16
20	Active and Passive Tuning of Ultranarrow Resonances in Polaritonic Nanoantennas. <i>Advanced Materials</i> , 2022, 34, e2104954.	21.0	13
21	Observation of Terahertz-Induced Magnetooscillations in Graphene. <i>Nano Letters</i> , 2020, 20, 5943-5950.	9.1	12
22	Scanning Anode Field Emission Microscopy of Nanocarbons. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2013, 8, 114-118.	0.5	12
23	Field Electron Emission From CVD Nanocarbon Films Containing Scrolled Graphene Structures. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700270.	1.5	11
24	Strong Interminivalley Scattering in Twisted Bilayer Graphene Revealed by High-Temperature Magneto-Oscillations. <i>Physical Review Letters</i> , 2021, 127, 056802.	7.8	11
25	Tunable spin-orbit coupling in two-dimensional InSe. <i>Physical Review B</i> , 2021, 104, .	3.2	9
26	Tunable Spin Injection in High-Quality Graphene with One-Dimensional Contacts. <i>Nano Letters</i> , 2022, 22, 935-941.	9.1	7
27	Dipole excitation of collective modes in viscous two-dimensional electron systems. <i>Physical Review B</i> , 2020, 102, .	3.2	4
28	Singularity-Enhanced Terahertz Detection in High-Mobility Field-Effect Transistors. <i>Physical Review Applied</i> , 2020, 13, .	3.8	4
29	Field emission spectroscopy of nanographite films. , 2014, , .		2
30	Enhanced Spin Injection in Molecularly Functionalized Graphene via Ultrathin Oxide Barriers. <i>Physical Review Applied</i> , 2021, 15, .	3.8	2
31	Field Emission Properties of Single-Walled Carbon Nanotube Films. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2013, 8, 71-74.	0.5	2
32	Homogeneous low-voltage field emission from nanographite films for cold cathode applications. , 2014, , .		1
33	Graphene paper as an emitter for low-power X-ray sources. , 2018, , .		1