

# Andrey Kretinin

## List of Publications by Citations

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47  
papers

4,262  
citations

26  
h-index

58  
g-index

58  
ext. papers

5,000  
ext. citations

10.2  
avg, IF

4.9  
L-index

#	Paper	IF	Citations
47	Commensurate/Incommensurate transition in graphene on hexagonal boron nitride. <i>Nature Physics</i> , <b>2014</b> , 10, 451-456	16.2	582
46	Sub-diffractive volume-confined polaritons in the natural hyperbolic material hexagonal boron nitride. <i>Nature Communications</i> , <b>2014</b> , 5, 5221	17.4	498
45	Detecting topological currents in graphene superlattices. <i>Science</i> , <b>2014</b> , 346, 448-51	33.3	481
44	Electronic properties of graphene encapsulated with different two-dimensional atomic crystals. <i>Nano Letters</i> , <b>2014</b> , 14, 3270-6	11.5	345
43	Hyperbolic phonon-polaritons in boron nitride for near-field optical imaging and focusing. <i>Nature Communications</i> , <b>2015</b> , 6, 7507	17.4	300
42	Quality Heterostructures from Two-Dimensional Crystals Unstable in Air by Their Assembly in Inert Atmosphere. <i>Nano Letters</i> , <b>2015</b> , 15, 4914-21	11.5	289
41	High-efficiency Cooper pair splitting demonstrated by two-particle conductance resonance and positive noise cross-correlation. <i>Nature Communications</i> , <b>2012</b> , 3, 1165	17.4	159
40	Method for suppression of stacking faults in Wurtzite III-V nanowires. <i>Nano Letters</i> , <b>2009</b> , 9, 1506-10	11.5	148
39	Quantum oscillations of the critical current and high-field superconducting proximity in ballistic graphene. <i>Nature Physics</i> , <b>2016</b> , 12, 318-322	16.2	144
38	Hierarchy of Hofstadter states and replica quantum Hall ferromagnetism in graphene superlattices. <i>Nature Physics</i> , <b>2014</b> , 10, 525-529	16.2	137
37	Stacking-faults-free zinc Blende GaAs nanowires. <i>Nano Letters</i> , <b>2009</b> , 9, 215-9	11.5	119
36	Atomic reconstruction in twisted bilayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 592-597	28.7	110
35	Spin-12 Kondo effect in an InAs nanowire quantum dot: Unitary limit, conductance scaling, and Zeeman splitting. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	93
34	Imaging of Anomalous Internal Reflections of Hyperbolic Phonon-Polaritons in Hexagonal Boron Nitride. <i>Nano Letters</i> , <b>2016</b> , 16, 3858-65	11.5	87
33	High-temperature quantum oscillations caused by recurring Bloch states in graphene superlattices. <i>Science</i> , <b>2017</b> , 357, 181-184	33.3	83
32	InAs/GaAs Core/Shell Nanowires. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 3858-3865	3.5	74
31	Multimode Fabry-Perot conductance oscillations in suspended stacking-faults-free InAs nanowires. <i>Nano Letters</i> , <b>2010</b> , 10, 3439-45	11.5	70

30	Edge currents shunt the insulating bulk in gapped graphene. <i>Nature Communications</i> , <b>2017</b> , 8, 14552	17.4	55
29	Resonant tunnelling between the chiral Landau states of twisted graphene lattices. <i>Nature Physics</i> , <b>2015</b> , 11, 1057-1062	16.2	49
28	Nanoscale Mapping and Spectroscopy of Nonradiative Hyperbolic Modes in Hexagonal Boron Nitride Nanostructures. <i>Nano Letters</i> , <b>2018</b> , 18, 1628-1636	11.5	45
27	High thermal conductivity of hexagonal boron nitride laminates. <i>2D Materials</i> , <b>2016</b> , 3, 011004	5.9	41
26	Unintentional high-density p-type modulation doping of a GaAs/AlAs core-multishell nanowire. <i>Nano Letters</i> , <b>2014</b> , 14, 2807-14	11.5	37
25	Direct measurement of surface states density and energy distribution in individual InAs nanowires. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 262105	3.4	37
24	Composite super-moiré lattices in double-aligned graphene heterostructures. <i>Science Advances</i> , <b>2019</b> , 5, eaay8897	14.3	36
23	Universal line shape of the Kondo zero-bias anomaly in a quantum dot. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	33
22	Gate-Defined Quantum Confinement in InSe-Based van der Waals Heterostructures. <i>Nano Letters</i> , <b>2018</b> , 18, 3950-3955	11.5	33
21	Effect of dielectric response on the quantum capacitance of graphene in a strong magnetic field. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	24
20	Ultra-thin van der Waals crystals as semiconductor quantum wells. <i>Nature Communications</i> , <b>2020</b> , 11, 125	17.4	22
19	GaAs and InAs Nanowires for Ballistic Transport. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2011</b> , 17, 922-934	3.8	21
18	Wide-band current preamplifier for conductance measurements with large input capacitance. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 084704	1.7	18
17	Influence of metal deposition on exciton-surface plasmon polariton coupling in GaAs/AlAs/GaAs core-shell nanowires studied with time-resolved cathodoluminescence. <i>Nano Letters</i> , <b>2013</b> , 13, 1602-10	11.5	13
16	Measuring surface state density and energy distribution in InAs nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2014</b> , 211, 473-482	1.6	10
15	Hybrid Graphene/Carbon Nanofiber Wax Emulsion for Paper-Based Electronics and Thermal Management. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000232	6.4	9
14	Graphene/Polyurethane Coatings for Deformable Conductors and Electromagnetic Interference Shielding. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000429	6.4	8
13	Formation of silicon nanocrystals with preferred (100) orientation in amorphous Si:H films grown on glass substrates and exposed to nanosecond pulses of ultraviolet radiation. <i>Semiconductors</i> , <b>2002</b> , 36, 102-109	0.7	6

12	Phonon-plasmon interaction in tunneling GaAs/AlAs superlattices. <i>JETP Letters</i> , <b>2000</b> , 71, 477-480	1.2	6
11	High- dark hyperbolic phonon-polaritons in hexagonal boron nitride nanostructures. <i>Nanophotonics</i> , <b>2020</b> , 9,	6.3	6
10	Coulomb blockade of the conductivity of SiOx films due to one-electron charging of a silicon quantum dot in a chain of electronic states. <i>Semiconductors</i> , <b>2005</b> , 39, 910-916	0.7	4
9	Scalable bottom-up assembly of suspended carbon nanotube and graphene devices by dielectrophoresis. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2015</b> , 9, 539-543	2.5	3
8	Lateral localization of optical phonons in GaAs quantum islands. <i>JETP Letters</i> , <b>1999</b> , 70, 75-81	1.2	3
7	Interfacial ferroelectricity in marginally twisted 2D semiconductors		2
6	Correction to GaAs and InAs Nanowires for Ballistic Transport[Jul/Aug 11 922-934]. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2011</b> , 17, 1797-1797	3.8	1
5	Core-shell GaAs-AlAs nanowires grown by MBE <b>2010</b> ,		1
4	1/f noise near the metal-to-insulator transition in the 2DEG in a Si-MOSFET. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 339-342		1
3	The effect of a non-uniform scattering potential on conductance fluctuations in a quantum wire. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 325-328		
2	Effect of a mixed scattering potential on the conductance fluctuations of a quasi-ballistic wire. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2006</b> , 34, 580-583	3	
1	Interface reconstruction in GaAs/AlAs ultrathin superlattices grown on (311) and (001) surfaces. <i>Nanotechnology</i> , <b>2001</b> , 12, 421-424	3.4	