

Andrey Kretinin

List of Publications by Year in descending order

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56
papers

5,633
citations

212478

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242451

47
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58
all docs

58
docs citations

58
times ranked

8604
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial ferroelectricity in marginally twisted 2D semiconductors. <i>Nature Nanotechnology</i> , 2022, 17, 390-395.	15.6	115
2	Machine learning enhanced electrical impedance tomography for 2D materials. <i>Inverse Problems</i> , 2022, 38, 085007.	1.0	5
3	Chlorosulfuric acid-assisted production of functional 2D materials. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	3
4	Grapheneâ€“Polyurethane Coatings for Deformable Conductors and Electromagnetic Interference Shielding. <i>Advanced Electronic Materials</i> , 2020, 6, 2000429.	2.6	25
5	Hybrid Graphene/Carbon Nanofiber Wax Emulsion for Paperâ€“Based Electronics and Thermal Management. <i>Advanced Electronic Materials</i> , 2020, 6, 2000232.	2.6	24
6	Ultra-thin van der Waals crystals as semiconductor quantum wells. <i>Nature Communications</i> , 2020, 11, 125.	5.8	33
7	Atomic reconstruction in twisted bilayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2020, 15, 592-597.	15.6	245
8	High-Q dark hyperbolic phonon-polaritons in hexagonal boron nitride nanostructures. <i>Nanophotonics</i> , 2020, 9, 1457-1467.	2.9	13
9	Composite super-moirÃ© lattices in double-aligned graphene heterostructures. <i>Science Advances</i> , 2019, 5, eaay8897.	4.7	74
10	Nanoscale Mapping and Spectroscopy of Nonradiative Hyperbolic Modes in Hexagonal Boron Nitride Nanostructures. <i>Nano Letters</i> , 2018, 18, 1628-1636.	4.5	55
11	Gate-Defined Quantum Confinement in InSe-Based van der Waals Heterostructures. <i>Nano Letters</i> , 2018, 18, 3950-3955.	4.5	40
12	Edge currents shunt the insulating bulk in gapped graphene. <i>Nature Communications</i> , 2017, 8, 14552.	5.8	77
13	High-temperature quantum oscillations caused by recurring Bloch states in graphene superlattices. <i>Science</i> , 2017, 357, 181-184.	6.0	117
14	Imaging of Anomalous Internal Reflections of Hyperbolic Phonon-Polaritons in Hexagonal Boron Nitride. <i>Nano Letters</i> , 2016, 16, 3858-3865.	4.5	106
15	High thermal conductivity of hexagonal boron nitride laminates. <i>2D Materials</i> , 2016, 3, 011004.	2.0	66
16	Quantum oscillations of the critical current and high-field superconducting proximity in ballisticâ€“graphene. <i>Nature Physics</i> , 2016, 12, 318-322.	6.5	179
17	Scalable bottom-up assembly of suspended carbon nanotube and graphene devices by dielectrophoresis. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 539-543.	1.2	5
18	Quality Heterostructures from Two-Dimensional Crystals Unstable in Air by Their Assembly in Inert Atmosphere. <i>Nano Letters</i> , 2015, 15, 4914-4921.	4.5	358

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19	Hyperbolic phonon-polaritons in boron nitride for near-field optical imaging and focusing. Nature Communications, 2015, 6, 7507.	5.8	399
20	Resonant tunnelling between the chiral Landau states of twisted graphene lattices. Nature Physics, 2015, 11, 1057-1062.	6.5	64
21	Sub-diffractive, volume-confined polaritons in a natural hyperbolic material: hexagonal boron nitride (Presentation Recording). , 2015, , .		0
22	Commensurateâ€“incommensurate transition in graphene on hexagonal boron nitride. Nature Physics, 2014, 10, 451-456.	6.5	737
23	Electronic Properties of Graphene Encapsulated with Different Two-Dimensional Atomic Crystals. Nano Letters, 2014, 14, 3270-3276.	4.5	433
24	Measuring surface state density and energy distribution in InAs nanowires. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 473-482.	0.8	11
25	Sub-diffractive volume-confined polaritons in the natural hyperbolic material hexagonal boron nitride. Nature Communications, 2014, 5, 5221.	5.8	686
26	Detecting topological currents in graphene superlattices. Science, 2014, 346, 448-451.	6.0	619
27	Unintentional High-Density p-Type Modulation Doping of a GaAs/AlAs Coreâ€“Multishell Nanowire. Nano Letters, 2014, 14, 2807-2814.	4.5	43
28	Hierarchy of Hofstadter states and replica quantum Hall ferromagnetism in graphene superlattices. Nature Physics, 2014, 10, 525-529.	6.5	161
29	Effect of dielectric response on the quantum capacitance of graphene in a strong magnetic field. Physical Review B, 2013, 88, .	1.1	26
30	Influence of Metal Deposition on Excitonâ€“Surface Plasmon Polariton Coupling in GaAs/AlAs/GaAs Coreâ€“Shell Nanowires Studied with Time-Resolved Cathodoluminescence. Nano Letters, 2013, 13, 1602-1610.	4.5	14
31	Universal line shape of the Kondo zero-bias anomaly in a quantum dot. Physical Review B, 2012, 85, .	1.1	37
32	High-efficiency Cooper pair splitting demonstrated by two-particle conductance resonance and positive noise cross-correlation. Nature Communications, 2012, 3, 1165.	5.8	199
33	Direct measurement of surface states density and energy distribution in individual InAs nanowires. Applied Physics Letters, 2012, 100, .	1.5	40
34	Wide-band current preamplifier for conductance measurements with large input capacitance. Review of Scientific Instruments, 2012, 83, 084704.	0.6	21
35	InAs/GaAs Coreâ€“Shell Nanowires. Crystal Growth and Design, 2011, 11, 3858-3865.	1.4	80
36	The Kondo effect and coherent transport in stacking-faults-free wurtzite InAs nanowires. AIP Conference Proceedings, 2011, , .	0.3	0

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37	GaAs and InAs Nanowires for Ballistic Transport. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 922-934.	1.9	21
38	Correction to "GaAs and InAs Nanowires for Ballistic Transport" [Jul/Aug 11 922-934]. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1797-1797.	1.9	1
39	Spin-Kondo effect in an InAs nanowire quantum dot: Unitary limit, conductance scaling, and Zeeman splitting. Physical Review B, 2011, 84, .	1.1	106
40	Multimode Fabry-Pérot Conductance Oscillations in Suspended Stacking-Faults-Free InAs Nanowires. Nano Letters, 2010, 10, 3439-3445.	4.5	78
41	Core-shell GaAs-AlAs nanowires grown by MBE. , 2010, , .		1
42	Method for Suppression of Stacking Faults in Wurtzite III-V Nanowires. Nano Letters, 2009, 9, 1506-1510.	4.5	162
43	Stacking-Faults-Free Zinc Blende GaAs Nanowires. Nano Letters, 2009, 9, 215-219.	4.5	122
44	Resistance fluctuations near the metal-to-insulator transition in the 2DEG in a Si-MOSFET. AIP Conference Proceedings, 2007, , .	0.3	1
45	Conductance fluctuations in a quantum wire with a non-uniform scattering potential. AIP Conference Proceedings, 2007, , .	0.3	0
46	Electronic transport through silicon nanocrystals embedded in SiO ₂ matrix. , 2006, , .		0
47	The effect of a non-uniform scattering potential on conductance fluctuations in a quantum wire. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 325-328.	0.8	0
48	1/f noise near the metal-to-insulator transition in the 2DEG in a Si-MOSFET. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 339-342.	0.8	1
49	Effect of a mixed scattering potential on the conductance fluctuations of a quasi-ballistic wire. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 580-583.	1.3	0
50	Coulomb blockade of the conductivity of SiO _x films due to one-electron charging of a silicon quantum dot in a chain of electronic states. Semiconductors, 2005, 39, 910-916.	0.2	6
51	Formation of Si nanocrystals in a-Si films using excimer laser. , 2002, 4748, 465.		0
52	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. Semiconductors, 2002, 36, 102-109.	0.2	6
53	RAMAN AND PHOTOLUMINESCENCE STUDIES OF THE INTERFACE RECONSTRUCTIONS IN GaAs/AlAs SUPERLATTICES GROWN ON (311) AND (001) SURFACES. , 2001, , .		0
54	Interface reconstruction in GaAs/AlAs ultrathin superlattices grown on (311) and (001) surfaces. Nanotechnology, 2001, 12, 421-424.	1.3	0

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55	Phonon-plasmon interaction in tunneling GaAs/AlAs superlattices. JETP Letters, 2000, 71, 477-480.	0.4	8
56	Lateral localization of optical phonons in GaAs quantum islands. JETP Letters, 1999, 70, 75-81.	0.4	4