

Alexander S Mayorov

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

7,236
citations

361413

20
h-index

454955

30
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31
all docs

31
docs citations

31
times ranked

10174
citing authors

#	ARTICLE	IF	CITATIONS
1	Micrometer-Scale Ballistic Transport in Encapsulated Graphene at Room Temperature. Nano Letters, 2011, 11, 2396-2399.	9.1	1,440
2	Fluorographene: A Two-Dimensional Counterpart of Teflon. Small, 2010, 6, 2877-2884.	10.0	1,146
3	Cloning of Dirac fermions in graphene superlattices. Nature, 2013, 497, 594-597.	27.8	1,107
4	Electron Tunneling through Ultrathin Boron Nitride Crystalline Barriers. Nano Letters, 2012, 12, 1707-1710.	9.1	724
5	Dirac cones reshaped by interaction effects in suspended graphene. Nature Physics, 2011, 7, 701-704.	16.7	703
6	Interaction-Driven Spectrum Reconstruction in Bilayer Graphene. Science, 2011, 333, 860-863.	12.6	262
7	Giant Nonlocality Near the Dirac Point in Graphene. Science, 2011, 332, 328-330.	12.6	255
8	Synthesis and properties of free-standing monolayer amorphous carbon. Nature, 2020, 577, 199-203.	27.8	250
9	Interaction phenomena in graphene seen through quantum capacitance. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3282-3286.	7.1	239
10	Weak Localization in Bilayer Graphene. Physical Review Letters, 2007, 98, 176805.	7.8	205
11	Density of States and Zero Landau Level Probed through Capacitance of Graphene. Physical Review Letters, 2010, 105, 136801.	7.8	202
12	Conductance of p-n-p Graphene Structures with "Air-Bridge" Top Gates. Nano Letters, 2008, 8, 1995-1999.	9.1	168
13	How Close Can One Approach the Dirac Point in Graphene Experimentally?. Nano Letters, 2012, 12, 4629-4634.	9.1	159
14	Raman Fingerprint of Aligned Graphene/h-BN Superlattices. Nano Letters, 2013, 13, 5242-5246.	9.1	102
15	Impurities as a source of $\frac{1}{\nu}$ noise in graphene. Physical Review B, 2012, 85, .	9.1	66
16	Gate-Defined Quantum Confinement in InSe-Based van der Waals Heterostructures. Nano Letters, 2018, 18, 3950-3955.	9.1	40
17	On-Chip Picosecond Pulse Detection and Generation Using Graphene Photoconductive Switches. Nano Letters, 2015, 15, 1591-1596.	9.1	33
18	Surface acoustic wave generation and detection using graphene interdigitated transducers on lithium niobate. Applied Physics Letters, 2014, 104, .	3.3	23

#	ARTICLE	IF	CITATIONS
19	Excitation, detection and electrostatic manipulation of terahertz-frequency range plasmons in a two-dimensional electron system. Scientific Reports, 2015, 5, 15420.	3.3	21
20	Terahertz plasmons in coupled two-dimensional semiconductor resonators. Physical Review B, 2015, 92, .	3.2	16
21	Time-domain measurement of terahertz frequency magnetoplasmon resonances in a two-dimensional electron system by the direct injection of picosecond pulsed currents. Applied Physics Letters, 2016, 108, .	3.3	10
22	Scanning gate microscopy on a graphene quantum point contact. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1002-1004.	2.7	8
23	Weak localisation in bilayer graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1360-1363.	2.7	7
24	Ferroelectricity in hBN intercalated double-layer graphene. Frontiers of Physics, 2022, 17, .	5.0	6
25	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
26	Resistance fluctuations near the "metal-to-insulator" transition in the 2DEG in a Si-MOSFET. AIP Conference Proceedings, 2007, , .	0.4	1
27	Resonant tunnelling via two impurity levels in a vertical tunnelling nanostructure. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 505-508.	0.8	1
28	Coulomb blockade in an open small ring with strong backscattering. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1121-1123.	2.7	1
29	On-chip THz-frequency tuneable plasmonic circuits. , 2015, , .		0