

Alexander S Mayorov

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26
papers

5,920
citations

19
h-index

31
g-index

31
ext. papers

6,638
ext. citations

12.9
avg, IF

4.89
L-index

#	Paper	IF	Citations
26	Micrometer-scale ballistic transport in encapsulated graphene at room temperature. <i>Nano Letters</i> , 2011 , 11, 2396-9	11.5	1203
25	Fluorographene: a two-dimensional counterpart of Teflon. <i>Small</i> , 2010 , 6, 2877-84	11	979
24	Cloning of Dirac fermions in graphene superlattices. <i>Nature</i> , 2013 , 497, 594-7	50.4	884
23	Electron tunneling through ultrathin boron nitride crystalline barriers. <i>Nano Letters</i> , 2012 , 12, 1707-10	11.5	579
22	Dirac cones reshaped by interaction effects in suspended graphene. <i>Nature Physics</i> , 2011 , 7, 701-704	16.2	577
21	Interaction-driven spectrum reconstruction in bilayer graphene. <i>Science</i> , 2011 , 333, 860-3	33.3	226
20	Giant nonlocality near the Dirac point in graphene. <i>Science</i> , 2011 , 332, 328-30	33.3	217
19	Interaction phenomena in graphene seen through quantum capacitance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3282-6	11.5	197
18	Weak localization in bilayer graphene. <i>Physical Review Letters</i> , 2007 , 98, 176805	7.4	185
17	Density of states and zero Landau Level probed through capacitance of graphene. <i>Physical Review Letters</i> , 2010 , 105, 136801	7.4	172
16	Conductance of p-n-p graphene structures with "air-bridge" top gates. <i>Nano Letters</i> , 2008 , 8, 1995-9	11.5	155
15	How close can one approach the Dirac point in graphene experimentally?. <i>Nano Letters</i> , 2012 , 12, 4629-34	11.5	136
14	Synthesis and properties of free-standing monolayer amorphous carbon. <i>Nature</i> , 2020 , 577, 199-203	50.4	104
13	Raman fingerprint of aligned graphene/h-BN superlattices. <i>Nano Letters</i> , 2013 , 13, 5242-6	11.5	83
12	Impurities as a source of $1/f$ noise in graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	57
11	Gate-Defined Quantum Confinement in InSe-Based van der Waals Heterostructures. <i>Nano Letters</i> , 2018 , 18, 3950-3955	11.5	33
10	On-chip picosecond pulse detection and generation using graphene photoconductive switches. <i>Nano Letters</i> , 2015 , 15, 1591-6	11.5	20

9	Surface acoustic wave generation and detection using graphene interdigitated transducers on lithium niobate. <i>Applied Physics Letters</i> , 2014 , 104, 083509	3-4	20
8	Excitation, detection, and electrostatic manipulation of terahertz-frequency range plasmons in a two-dimensional electron system. <i>Scientific Reports</i> , 2015 , 5, 15420	4-9	18
7	Terahertz plasmons in coupled two-dimensional semiconductor resonators. <i>Physical Review B</i> , 2015 , 92,	3-3	14
6	Weak localisation in bilayer graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1360-1363	3	7
5	Scanning gate microscopy on a graphene quantum point contact. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 1002-1004	3	6
4	Time-domain measurement of terahertz frequency magnetoplasmon resonances in a two-dimensional electron system by the direct injection of picosecond pulsed currents. <i>Applied Physics Letters</i> , 2016 , 108, 091109	3-4	5
3	Resonant tunnelling via two impurity levels in a vertical tunnelling nanostructure. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 505-508		1
2	Coulomb blockade in an open small ring with strong backscattering. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1121-1123	3	1
1	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> , 2006 , 3, 339-342		1