

# Alexander S Mayorov

## List of Publications by Year in Descending Order

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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	Synthesis and properties of free-standing monolayer amorphous carbon. <i>Nature</i> , <b>2020</b> , 577, 199-203	50.4	104
25	Gate-Defined Quantum Confinement in InSe-Based van der Waals Heterostructures. <i>Nano Letters</i> , <b>2018</b> , 18, 3950-3955	11.5	33
24	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> , <b>2016</b> , 108, 091109	3.4	5
23	On-chip picosecond pulse detection and generation using graphene photoconductive switches. <i>Nano Letters</i> , <b>2015</b> , 15, 1591-6	11.5	20
22	Terahertz plasmons in coupled two-dimensional semiconductor resonators. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	14
21	Excitation, detection, and electrostatic manipulation of terahertz-frequency range plasmons in a two-dimensional electron system. <i>Scientific Reports</i> , <b>2015</b> , 5, 15420	4.9	18
20	Surface acoustic wave generation and detection using graphene interdigitated transducers on lithium niobate. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 083509	3.4	20
19	Raman fingerprint of aligned graphene/h-BN superlattices. <i>Nano Letters</i> , <b>2013</b> , 13, 5242-6	11.5	83
18	Interaction phenomena in graphene seen through quantum capacitance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 3282-6	11.5	197
17	Cloning of Dirac fermions in graphene superlattices. <i>Nature</i> , <b>2013</b> , 497, 594-7	50.4	884
16	Scanning gate microscopy on a graphene quantum point contact. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2012</b> , 44, 1002-1004	3	6
15	How close can one approach the Dirac point in graphene experimentally?. <i>Nano Letters</i> , <b>2012</b> , 12, 4629-34	11.5	136
14	Impurities as a source of 1/f noise in graphene. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	57
13	Electron tunneling through ultrathin boron nitride crystalline barriers. <i>Nano Letters</i> , <b>2012</b> , 12, 1707-10	11.5	579
12	Dirac cones reshaped by interaction effects in suspended graphene. <i>Nature Physics</i> , <b>2011</b> , 7, 701-704	16.2	577
11	Micrometer-scale ballistic transport in encapsulated graphene at room temperature. <i>Nano Letters</i> , <b>2011</b> , 11, 2396-9	11.5	1203
10	Giant nonlocality near the Dirac point in graphene. <i>Science</i> , <b>2011</b> , 332, 328-30	33.3	217

9	Interaction-driven spectrum reconstruction in bilayer graphene. <i>Science</i> , <b>2011</b> , 333, 860-3	33.3	226
8	Density of states and zero Landau Level probed through capacitance of graphene. <i>Physical Review Letters</i> , <b>2010</b> , 105, 136801	7.4	172
7	Fluorographene: a two-dimensional counterpart of Teflon. <i>Small</i> , <b>2010</b> , 6, 2877-84	11	979
6	Conductance of p-n-p graphene structures with "air-bridge" top gates. <i>Nano Letters</i> , <b>2008</b> , 8, 1995-9	11.5	155
5	Coulomb blockade in an open small ring with strong backscattering. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2008</b> , 40, 1121-1123	3	1
4	Weak localisation in bilayer graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2008</b> , 40, 1360-1363	3	7
3	Weak localization in bilayer graphene. <i>Physical Review Letters</i> , <b>2007</b> , 98, 176805	7.4	185
2	Resonant tunnelling via two impurity levels in a vertical tunnelling nanostructure. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2007</b> , 4, 505-508		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> , <b>2006</b> , 3, 339-342		1