

Dmitri K Efetov

List of Publications by Citations

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43
papers

3,736
citations

26
h-index

48
g-index

48
ext. papers

5,227
ext. citations

15.5
avg, IF

5.76
L-index

#	Paper	IF	Citations
43	Controlling electron-phonon interactions in graphene at ultrahigh carrier densities. <i>Physical Review Letters</i> , 2010 , 105, 256805	7.4	652
42	Superconductors, orbital magnets and correlated states in magic-angle bilayer graphene. <i>Nature</i> , 2019 , 574, 653-657	50.4	490
41	Electronic transport and quantum hall effect in bipolar graphene p-n-p junctions. <i>Physical Review Letters</i> , 2007 , 99, 166804	7.4	403
40	A MoTe-based light-emitting diode and photodetector for silicon photonic integrated circuits. <i>Nature Nanotechnology</i> , 2017 , 12, 1124-1129	28.7	229
39	Tunable and high-purity room temperature single-photon emission from atomic defects in hexagonal boron nitride. <i>Nature Communications</i> , 2017 , 8, 705	17.4	226
38	Probing the ultimate plasmon confinement limits with a van der Waals heterostructure. <i>Science</i> , 2018 , 360, 291-295	33.3	179
37	Electronic transport in locally gated graphene nanoconstrictions. <i>Applied Physics Letters</i> , 2007 , 91, 192107	3.74	156
36	High-Responsivity Graphene-Boron Nitride Photodetector and Autocorrelator in a Silicon Photonic Integrated Circuit. <i>Nano Letters</i> , 2015 , 15, 7288-93	11.5	140
35	Superconductivity and strong correlations in moiré flat bands. <i>Nature Physics</i> , 2020 , 16, 725-733	16.2	139
34	Untying the insulating and superconducting orders in magic-angle graphene. <i>Nature</i> , 2020 , 583, 375-378	50.4	136
33	Specular interband Andreev reflections at van der Waals interfaces between graphene and NbSe ₂ . <i>Nature Physics</i> , 2016 , 12, 328-332	16.2	108
32	Nanocrystalline Graphite Growth on Sapphire by Carbon Molecular Beam Epitaxy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4491-4494	3.8	102
31	Inducing superconducting correlation in quantum Hall edge states. <i>Nature Physics</i> , 2017 , 13, 693-698	16.2	77
30	Ultrafast Graphene Light Emitters. <i>Nano Letters</i> , 2018 , 18, 934-940	11.5	75
29	Li Intercalation into Graphite: Direct Optical Imaging and Cahn-Hilliard Reaction Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2151-6	6.4	71
28	Thermal radiation control from hot graphene electrons coupled to a photonic crystal nanocavity. <i>Nature Communications</i> , 2019 , 10, 109	17.4	51
27	Graphene-Based Josephson-Junction Single-Photon Detector. <i>Physical Review Applied</i> , 2017 , 8,	4.3	47

26	Observation of flat bands in twisted bilayer graphene. <i>Nature Physics</i> , 2021 , 17, 189-193	16.2	45
25	Fast thermal relaxation in cavity-coupled graphene bolometers with a Johnson noise read-out. <i>Nature Nanotechnology</i> , 2018 , 13, 797-801	28.7	42
24	The marvels of moiré materials. <i>Nature Reviews Materials</i> , 2021 , 6, 201-206	73.3	41
23	Controlled Electrochemical Intercalation of Graphene/h-BN van der Waals Heterostructures. <i>Nano Letters</i> , 2018 , 18, 460-466	11.5	37
22	Symmetry-broken Chern insulators and Rashba-like Landau-level crossings in magic-angle bilayer graphene. <i>Nature Physics</i> , 2021 , 17, 710-714	16.2	34
21	Graphene-based Josephson junction microwave bolometer. <i>Nature</i> , 2020 , 586, 42-46	50.4	32
20	Twisted bilayer graphene. IV. Exact insulator ground states and phase diagram. <i>Physical Review B</i> , 2021 , 103,	3.3	32
19	Active 2D materials for on-chip nanophotonics and quantum optics. <i>Nanophotonics</i> , 2017 , 6, 1329-1342	6.3	28
18	Multiband transport in bilayer graphene at high carrier densities. <i>Physical Review B</i> , 2011 , 84,	3.3	27
17	Josephson junction infrared single-photon detector. <i>Science</i> , 2021 , 372, 409-412	33.3	17
16	Crossover from retro to specular Andreev reflections in bilayer graphene. <i>Physical Review B</i> , 2016 , 94,	3.3	15
15	Critical role of device geometry for the phase diagram of twisted bilayer graphene. <i>Physical Review B</i> , 2020 , 101,	3.3	14
14	Nanoscale Imaging and Control of Hexagonal Boron Nitride Single Photon Emitters by a Resonant Nanoantenna. <i>Nano Letters</i> , 2020 , 20, 1992-1999	11.5	13
13	Magic-Angle Bilayer Graphene Nanocalorimeters: Toward Broadband, Energy-Resolving Single Photon Detection. <i>Nano Letters</i> , 2020 , 20, 3459-3464	11.5	13
12	Competing Zero-Field Chern Insulators in Superconducting Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021 , 127, 197701	7.4	11
11	Ambipolar transport and magneto-resistance crossover in a Mott insulator, SrIrO. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 505304	1.8	10
10	Giant enhancement of third-harmonic generation in graphene-metal heterostructures. <i>Nature Nanotechnology</i> , 2021 , 16, 318-324	28.7	9
9	Terahertz Photogalvanics in Twisted Bilayer Graphene Close to the Second Magic Angle. <i>Nano Letters</i> , 2020 , 20, 7152-7158	11.5	7

8	Observation of interband collective excitations in twisted bilayer graphene. <i>Nature Physics</i> ,	16.2	7
7	Measuring local moiré lattice heterogeneity of twisted bilayer graphene. <i>Physical Review Research</i> , 2021 , 3,	3.9	6
6	Multiple flat bands and topological Hofstadter butterfly in twisted bilayer graphene close to the second magic angle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
5	A high-T _c van der Waals superconductor based photodetector with ultra-high responsivity and nanosecond relaxation time. <i>2D Materials</i> , 2021 , 8, 035053	5.9	3
4	Compact mid-infrared graphene thermopile enabled by a nanopatterning technique of electrolyte gates. <i>New Journal of Physics</i> , 2018 , 20, 083050	2.9	3
3	Quantum critical behaviour in magic-angle twisted bilayer graphene. <i>Nature Physics</i> ,	16.2	2
2	High-order minibands and interband Landau level reconstruction in graphene moiré superlattices. <i>Physical Review B</i> , 2020 , 102,	3.3	1
1	Ultrasensitive Calorimetric Measurements of the Electronic Heat Capacity of Graphene. <i>Nano Letters</i> , 2021 , 21, 5330-5337	11.5	1