

# Dmitri K Efetov

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

6,537  
citations

136950

32  
h-index

233421

45  
g-index

48  
all docs

48  
docs citations

48  
times ranked

7847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum critical behaviour in magic-angle twisted bilayer graphene. <i>Nature Physics</i> , 2022, 18, 633-638.	16.7	66
2	Observation of Reentrant Correlated Insulators and Interaction-Driven Fermi-Surface Reconstructions at One Magnetic Flux Quantum per Moiré Unit Cell in Magic-Angle Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2022, 128, .	7.8	17
3	Chern mosaic and Berry-curvature magnetism in magic-angle graphene. <i>Nature Physics</i> , 2022, 18, 885-892.	16.7	37
4	Observation of flat bands in twisted bilayer graphene. <i>Nature Physics</i> , 2021, 17, 189-193.	16.7	144
5	Giant enhancement of third-harmonic generation in graphene-metal heterostructures. <i>Nature Nanotechnology</i> , 2021, 16, 318-324.	31.5	47
6	Measuring local moiré lattice heterogeneity of twisted bilayer graphene. <i>Physical Review Research</i> , 2021, 3, .	3.6	16
7	The marvels of moiré materials. <i>Nature Reviews Materials</i> , 2021, 6, 201-206.	48.7	262
8	Symmetry-broken Chern insulators and Rashba-like Landau-level crossings in magic-angle bilayer graphene. <i>Nature Physics</i> , 2021, 17, 710-714.	16.7	114
9	Josephson junction infrared single-photon detector. <i>Science</i> , 2021, 372, 409-412.	12.6	45
10	Twisted bilayer graphene. IV. Exact insulator ground states and phase diagram. <i>Physical Review B</i> , 2021, 103, .	3.2	123
11	Towards plasmonic-enhanced optical nonlinearities in graphene metal-heterostructures. , 2021, , .		0
12	A high-T <sub>c</sub> van der Waals superconductor based photodetector with ultra-high responsivity and nanosecond relaxation time. <i>2D Materials</i> , 2021, 8, 035053.	4.4	13
13	Ultrasensitive Calorimetric Measurements of the Electronic Heat Capacity of Graphene. <i>Nano Letters</i> , 2021, 21, 5330-5337.	9.1	10
14	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, .	7.1	35
15	Observation of interband collective excitations in twisted bilayer graphene. <i>Nature Physics</i> , 2021, 17, 1162-1168.	16.7	47
16	Competing Zero-Field Chern Insulators in Superconducting Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021, 127, 197701.	7.8	80
17	Graphene-based Josephson junction microwave bolometer. <i>Nature</i> , 2020, 586, 42-46.	27.8	88
18	Terahertz Photogalvanics in Twisted Bilayer Graphene Close to the Second Magic Angle. <i>Nano Letters</i> , 2020, 20, 7152-7158.	9.1	25

#	ARTICLE	IF	CITATIONS
19	Superconductivity and strong correlations in moiré flat bands. <i>Nature Physics</i> , 2020, 16, 725-733.	16.7	448
20	High-order minibands and interband Landau level reconstruction in graphene moiré superlattices. <i>Physical Review B</i> , 2020, 102, .	3.2	7
21	Untying the insulating and superconducting orders in magic-angle graphene. <i>Nature</i> , 2020, 583, 375-378.	27.8	323
22	Nanoscale Imaging and Control of Hexagonal Boron Nitride Single Photon Emitters by a Resonant Nanoantenna. <i>Nano Letters</i> , 2020, 20, 1992-1999.	9.1	23
23	Critical role of device geometry for the phase diagram of twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	3.2	22
24	Magic-Angle Bilayer Graphene Nanocalorimeters: Toward Broadband, Energy-Resolving Single Photon Detection. <i>Nano Letters</i> , 2020, 20, 3459-3464.	9.1	28
25	Superconductors, orbital magnets and correlated states in magic-angle bilayer graphene. <i>Nature</i> , 2019, 574, 653-657.	27.8	987
26	Thermal radiation control from hot graphene electrons coupled to a photonic crystal nanocavity. <i>Nature Communications</i> , 2019, 10, 109.	12.8	79
27	Probing the ultimate plasmon confinement limits with a van der Waals heterostructure. <i>Science</i> , 2018, 360, 291-295.	12.6	259
28	Ultrafast Graphene Light Emitters. <i>Nano Letters</i> , 2018, 18, 934-940.	9.1	109
29	Controlled Electrochemical Intercalation of Graphene/h-BN van der Waals Heterostructures. <i>Nano Letters</i> , 2018, 18, 460-466.	9.1	49
30	Compact mid-infrared graphene thermopile enabled by a nanopatterning technique of electrolyte gates. <i>New Journal of Physics</i> , 2018, 20, 083050.	2.9	5
31	Fast thermal relaxation in cavity-coupled graphene bolometers with a Johnson noise read-out. <i>Nature Nanotechnology</i> , 2018, 13, 797-801.	31.5	66
32	Active 2D materials for on-chip nanophotonics and quantum optics. <i>Nanophotonics</i> , 2017, 6, 1329-1342.	6.0	38
33	Inducing superconducting correlation in quantum Hall edge states. <i>Nature Physics</i> , 2017, 13, 693-698.	16.7	132
34	Tunable and high-purity room temperature single-photon emission from atomic defects in hexagonal boron nitride. <i>Nature Communications</i> , 2017, 8, 705.	12.8	351
35	A MoTe <sub>2</sub> -based light-emitting diode and photodetector for silicon photonic integrated circuits. <i>Nature Nanotechnology</i> , 2017, 12, 1124-1129.	31.5	344
36	Graphene-Based Josephson-Junction Single-Photon Detector. <i>Physical Review Applied</i> , 2017, 8, .	3.8	74

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37	Li Intercalation into Graphite: Direct Optical Imaging and Cahn-Hilliard Reaction Dynamics. Journal of Physical Chemistry Letters, 2016, 7, 2151-2156.	4.6	92
38	Crossover from retro to specular Andreev reflections in bilayer graphene. Physical Review B, 2016, 94, .	3.2	25
39	Ambipolar transport and magneto-resistance crossover in a Mott insulator, Sr <sub>2</sub> IrO <sub>4</sub> . Journal of Physics Condensed Matter, 2016, 28, 505304.	1.8	14
40	Specular interband Andreev reflections at van der Waals interfaces between graphene and NbSe <sub>2</sub> . Nature Physics, 2016, 12, 328-332.	16.7	159
41	High-Responsivity Graphene-Boron Nitride Photodetector and Autocorrelator in a Silicon Photonic Integrated Circuit. Nano Letters, 2015, 15, 7288-7293.	9.1	185
42	Nanocrystalline Graphite Growth on Sapphire by Carbon Molecular Beam Epitaxy. Journal of Physical Chemistry C, 2011, 115, 4491-4494.	3.1	113
43	Multiband transport in bilayer graphene at high carrier densities. Physical Review B, 2011, 84, .	3.2	30
44	Controlling Electron-Phonon Interactions in Graphene at Ultrahigh Carrier Densities. Physical Review Letters, 2010, 105, 256805.	7.8	801
45	Electronic transport in locally gated graphene nanoconstrictions. Applied Physics Letters, 2007, 91, .	3.3	171
46	Electronic Transport and Quantum Hall Effect in Bipolar Graphene Junctions. Physical Review Letters, 2007, 99, 166804.	7.8	434