

Vaidotas Miseikis

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.

58

papers

1,086

citations

18

h-index

31

g-index

65

ext. papers

1,464

ext. citations

6.5

avg, IF

4.29

L-index

#	Paper	IF	Citations
58	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020 , 7, 022001	5.9	179
57	Rapid CVD growth of millimetre-sized single crystal graphene using a cold-wall reactor. <i>2D Materials</i> , 2015 , 2, 014006	5.9	118
56	Acoustically induced current flow in graphene. <i>Applied Physics Letters</i> , 2012 , 100, 133105	3.4	62
55	Waveguide-Integrated, Plasmonic Enhanced Graphene Photodetectors. <i>Nano Letters</i> , 2019 , 19, 7632-7644	11.5	60
54	Deterministic patterned growth of high-mobility large-crystal graphene: a path towards wafer scale integration. <i>2D Materials</i> , 2017 , 4, 021004	5.9	48
53	Investigating the CVD Synthesis of Graphene on Ge(100): toward Layer-by-Layer Growth. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33083-33090	9.5	38
52	Rapid and catalyst-free van der Waals epitaxy of graphene on hexagonal boron nitride. <i>Carbon</i> , 2016 , 96, 497-502	10.4	36
51	Magneto-optic transmittance modulation observed in a hybrid graphene-split ring resonator terahertz metasurface. <i>Applied Physics Letters</i> , 2015 , 107, 121104	3.4	35
50	High-speed double layer graphene electro-absorption modulator on SOI waveguide. <i>Optics Express</i> , 2019 , 27, 20145-20155	3.3	32
49	UV Light Detection from CdS Nanocrystal Sensitized Graphene Photodetectors at kHz Frequencies. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23859-23864	3.8	28
48	Scalable synthesis of WS ₂ on graphene and h-BN: an all-2D platform for light-matter transduction. <i>2D Materials</i> , 2016 , 3, 031013	5.9	28
47	30°-Twisted Bilayer Graphene Quasicrystals from Chemical Vapor Deposition. <i>Nano Letters</i> , 2020 , 20, 3313-3319	11.5	27
46	Increasing the active surface of titanium islands on graphene by nitrogen sputtering. <i>Applied Physics Letters</i> , 2015 , 106, 083901	3.4	25
45	Ultrafast, Zero-Bias, Graphene Photodetectors with Polymeric Gate Dielectric on Passive Photonic Waveguides. <i>ACS Nano</i> , 2020 , 14, 11190-11204	16.7	24
44	Wafer-Scale Integration of Graphene-Based Photonic Devices. <i>ACS Nano</i> , 2021 , 15, 3171-3187	16.7	24
43	Early stage of CVD graphene synthesis on Ge(001) substrate. <i>Carbon</i> , 2018 , 134, 183-188	10.4	21
42	CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. <i>2D Materials</i> , 2019 , 6, 035007	5.9	20

41	THz saturable absorption in turbostratic multilayer graphene on silicon carbide. <i>Optics Express</i> , 2015 , 23, 11632-40	3.3	19
40	Revealing the Multibonding State between Hydrogen and Graphene-Supported Ti Clusters. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 12974-12979	3.8	16
39	Low-temperature quantum transport in CVD-grown single crystal graphene. <i>Nano Research</i> , 2016 , 9, 1823-1830	10	15
38	Driving with temperature the synthesis of graphene on Ge(110). <i>Applied Surface Science</i> , 2020 , 499, 143923	2.3	15
37	Synthesis of Large-Scale Monolayer 1TTFMoTe and Its Stabilization Scalable hBN Encapsulation. <i>ACS Nano</i> , 2021 , 15, 4213-4225	16.7	15
36	High-quality electrical transport using scalable CVD graphene. <i>2D Materials</i> , 2020 , 7, 041003	5.9	14
35	Photo thermal effect graphene detector featuring 105 Gbit s NRZ and 120 Gbit s PAM4 direct detection. <i>Nature Communications</i> , 2021 , 12, 806	17.4	13
34	Graphene Plasmonic Fractal Metamaterials for Broadband Photodetectors. <i>Scientific Reports</i> , 2020 , 10, 6882	4.9	12
33	Coherent absorption of light by graphene and other optically conducting surfaces in realistic on-substrate configurations. <i>APL Photonics</i> , 2017 , 2, 016101	5.2	11
32	Controlling local deformation in graphene using micrometric polymeric actuators. <i>2D Materials</i> , 2018 , 5, 045032	5.9	11
31	Graphene Field-Effect Transistors Employing Different Thin Oxide Films: A Comparative Study. <i>ACS Omega</i> , 2019 , 4, 2256-2260	3.9	10
30	Interedge backscattering in buried split-gate-defined graphene quantum point contacts. <i>Physical Review B</i> , 2016 , 94,	3.3	10
29	Anisotropic straining of graphene using micropatterned SiN membranes. <i>APL Materials</i> , 2016 , 4, 116107	5.7	10
28	Single layer graphene functionalized MEA for enhanced detection of neuronal network development. <i>Sensors and Actuators B: Chemical</i> , 2018 , 277, 224-233	8.5	10
27	Fast detection of water nanopockets underneath wet-transferred graphene. <i>Carbon</i> , 2017 , 118, 208-214	10.4	9
26	Tunnel and electrostatic coupling in graphene-LaAlO ₃ /SrTiO ₃ hybrid systems. <i>APL Materials</i> , 2016 , 4, 066101	5.7	9
25	Abrupt changes in the graphene on Ge(001) system at the onset of surface melting. <i>Carbon</i> , 2019 , 145, 345-351	10.4	9
24	Mapping the mechanical properties of a graphene drum at the nanoscale. <i>2D Materials</i> , 2019 , 6, 025005	5.9	8

23	Deterministic direct growth of WS ₂ on CVD graphene arrays. <i>2D Materials</i> , 2020 , 7, 014002	5.9	8
22	Thermal decomposition and chemical vapor deposition: a comparative study of multi-layer growth of graphene on SiC(000-1). <i>MRS Advances</i> , 2016 , 1, 3667-3672	0.7	6
21	Layout influence on microwave performance of graphene field effect transistors. <i>Electronics Letters</i> , 2018 , 54, 984-986	1.1	6
20	Bilayer-induced asymmetric quantum Hall effect in epitaxial graphene. <i>Semiconductor Science and Technology</i> , 2015 , 30, 055007	1.8	5
19	Synthesis of large-area rhombohedral few-layer graphene by chemical vapor deposition on copper. <i>Carbon</i> , 2021 , 177, 282-290	10.4	5
18	Submicron Size Schottky Junctions on As-Grown Monolayer Epitaxial Graphene on Ge(100): A Low-Invasive Scanned-Probe-Based Study. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35079-35087	7.5	4
17	Large-area, high-responsivity, fast and broadband graphene/n-Si photodetector. <i>Nanotechnology</i> , 2021 , 32, 155504	3.4	4
16	Perfecting the Growth and Transfer of Large Single-Crystal CVD Graphene: A Platform Material for Optoelectronic Applications. <i>Carbon Nanostructures</i> , 2017 , 113-124	0.6	3
15	Rippling of graphitic surfaces: a comparison between few-layer graphene and HOPG. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 13322-13330	3.6	3
14	Ultra-clean high-mobility graphene on technologically relevant substrates.. <i>Nanoscale</i> , 2022 ,	7.7	3
13	Waveguide Integrated CVD Graphene Photo-Thermo-Electric Detector With >40GHz Bandwidth 2019 ,		3
12	Acoustic streaming of microparticles using graphene-based interdigital transducers. <i>Nanotechnology</i> , 2021 , 32,	3.4	3
11	Morphological modulation of graphene-mediated hybridization in plasmonic systems. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27493-27499	3.6	3
10	A Flexible, Transparent Chemosensor Integrating an Inkjet-Printed Organic Field-Effect Transistor and a Non-Covalently Functionalized Graphene Electrode. <i>Advanced Materials Technologies</i> , 2100481	6.8	2
9	Probing charge transfer during metal-insulator transitions in graphene-LaAlO ₃ /SrTiO ₃ systems. <i>APL Materials</i> , 2018 , 6, 066103	5.7	1
8	Coherent perfect absorption and transparency in lossy and loss/gain metasurface-embedding structures 2017 ,		1
7	Acoustic charge transport in graphene 2012 ,		1
6	Ultrafast optical modulation of magneto-optical terahertz effects occurring in a graphene-loaded resonant metasurface 2016 ,		1

5	Antenna-Coupled Graphene Field-Effect Transistors as a Terahertz Imaging Array. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021 , 11, 70-78	3.4	1
4	Wafer-scale integration of graphene for waveguide-integrated optoelectronics. <i>Applied Physics Letters</i> , 2021 , 119, 050501	3.4	1
3	Parallel transport and layer-resolved thermodynamic measurements in twisted bilayer graphene. <i>Physical Review B</i> , 2021 , 104,	3.3	1
2	Modeling Photodetection at the Graphene/Ag ₂ S Interface. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100120	2.5	0
1	Deterministic synthesis of Cu ₉ S ₅ flakes assisted by single-layer graphene arrays. <i>Nanoscale Advances</i> , 2021 , 3, 1352-1361	5.1	0