

Vaidotas Miseikis

List of Publications by Year in Descending Order

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Version: 2024-04-23

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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 | Ultra-clean high-mobility graphene on technologically relevant substrates.. <i>Nanoscale</i> , 2022 , | 7.7 | 3 |
| 57 | Modeling Photodetection at the Graphene/Ag ₂ S Interface. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100120 | 2.5 | 0 |
| 56 | Synthesis of large-area rhombohedral few-layer graphene by chemical vapor deposition on copper. <i>Carbon</i> , 2021 , 177, 282-290 | 10.4 | 5 |
| 55 | Acoustic streaming of microparticles using graphene-based interdigital transducers. <i>Nanotechnology</i> , 2021 , 32, | 3.4 | 3 |
| 54 | 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 |
| 53 | Large-area, high-responsivity, fast and broadband graphene/n-Si photodetector. <i>Nanotechnology</i> , 2021 , 32, 155504 | 3.4 | 4 |
| 52 | Synthesis of Large-Scale Monolayer 1T ₁ MoTe and Its Stabilization Scalable hBN Encapsulation. <i>ACS Nano</i> , 2021 , 15, 4213-4225 | 16.7 | 15 |
| 51 | Wafer-Scale Integration of Graphene-Based Photonic Devices. <i>ACS Nano</i> , 2021 , 15, 3171-3187 | 16.7 | 24 |
| 50 | 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 |
| 49 | Wafer-scale integration of graphene for waveguide-integrated optoelectronics. <i>Applied Physics Letters</i> , 2021 , 119, 050501 | 3.4 | 1 |
| 48 | 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 |
| 47 | Parallel transport and layer-resolved thermodynamic measurements in twisted bilayer graphene. <i>Physical Review B</i> , 2021 , 104, | 3.3 | 1 |
| 46 | Production and processing of graphene and related materials. <i>2D Materials</i> , 2020 , 7, 022001 | 5.9 | 179 |
| 45 | Graphene Plasmonic Fractal Metamaterials for Broadband Photodetectors. <i>Scientific Reports</i> , 2020 , 10, 6882 | 4.9 | 12 |
| 44 | High-quality electrical transport using scalable CVD graphene. <i>2D Materials</i> , 2020 , 7, 041003 | 5.9 | 14 |
| 43 | Ultrafast, Zero-Bias, Graphene Photodetectors with Polymeric Gate Dielectric on Passive Photonic Waveguides. <i>ACS Nano</i> , 2020 , 14, 11190-11204 | 16.7 | 24 |
| 42 | Driving with temperature the synthesis of graphene on Ge(110). <i>Applied Surface Science</i> , 2020 , 499, 143923 | 3.3 | 15 |

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| 41 | Deterministic direct growth of WS ₂ on CVD graphene arrays. <i>2D Materials</i> , 2020 , 7, 014002 | 5.9 | 8 |
| 40 | 30° Twisted Bilayer Graphene Quasicrystals from Chemical Vapor Deposition. <i>Nano Letters</i> , 2020 , 20, 3313-3319 | 11.5 | 27 |
| 39 | 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 |
| 38 | Waveguide-Integrated, Plasmonic Enhanced Graphene Photodetectors. <i>Nano Letters</i> , 2019 , 19, 7632-7644 | 11.5 | 60 |
| 37 | Graphene Field-Effect Transistors Employing Different Thin Oxide Films: A Comparative Study. <i>ACS Omega</i> , 2019 , 4, 2256-2260 | 3.9 | 10 |
| 36 | CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. <i>2D Materials</i> , 2019 , 6, 035007 | 5.9 | 20 |
| 35 | Waveguide Integrated CVD Graphene Photo-Thermo-Electric Detector With >40GHz Bandwidth 2019 , | | 3 |
| 34 | High-speed double layer graphene electro-absorption modulator on SOI waveguide. <i>Optics Express</i> , 2019 , 27, 20145-20155 | 3.3 | 32 |
| 33 | Mapping the mechanical properties of a graphene drum at the nanoscale. <i>2D Materials</i> , 2019 , 6, 025005 | 5.9 | 8 |
| 32 | 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 |
| 31 | Early stage of CVD graphene synthesis on Ge(001) substrate. <i>Carbon</i> , 2018 , 134, 183-188 | 10.4 | 21 |
| 30 | 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 |
| 29 | Probing charge transfer during metal-insulator transitions in graphene-LaAlO ₃ /SrTiO ₃ systems. <i>APL Materials</i> , 2018 , 6, 066103 | 5.7 | 1 |
| 28 | Layout influence on microwave performance of graphene field effect transistors. <i>Electronics Letters</i> , 2018 , 54, 984-986 | 1.1 | 6 |
| 27 | Controlling local deformation in graphene using micrometric polymeric actuators. <i>2D Materials</i> , 2018 , 5, 045032 | 5.9 | 11 |
| 26 | 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 |
| 25 | 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 |
| 24 | Fast detection of water nanopockets underneath wet-transferred graphene. <i>Carbon</i> , 2017 , 118, 208-214 | 10.4 | 9 |

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| 23 | 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 |
| 22 | 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 |
| 21 | Coherent perfect absorption and transparency in lossy and loss/gain metasurface-embedding structures 2017 , | | 1 |
| 20 | Rapid and catalyst-free van der Waals epitaxy of graphene on hexagonal boron nitride. <i>Carbon</i> , 2016 , 96, 497-502 | 10.4 | 36 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | Interedge backscattering in buried split-gate-defined graphene quantum point contacts. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 10 |
| 15 | Anisotropic straining of graphene using micropatterned SiN membranes. <i>APL Materials</i> , 2016 , 4, 116107 | 5.7 | 10 |
| 14 | 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 |
| 13 | Tunnel and electrostatic coupling in graphene-LaAlO ₃ /SrTiO ₃ hybrid systems. <i>APL Materials</i> , 2016 , 4, 066101 | 5.7 | 9 |
| 12 | Low-temperature quantum transport in CVD-grown single crystal graphene. <i>Nano Research</i> , 2016 , 9, 1823-1830 | 10 | 15 |
| 11 | Ultrafast optical modulation of magneto-optical terahertz effects occurring in a graphene-loaded resonant metasurface 2016 , | | 1 |
| 10 | Morphological modulation of graphene-mediated hybridization in plasmonic systems. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27493-27499 | 3.6 | 3 |
| 9 | Rapid CVD growth of millimetre-sized single crystal graphene using a cold-wall reactor. <i>2D Materials</i> , 2015 , 2, 014006 | 5.9 | 118 |
| 8 | Bilayer-induced asymmetric quantum Hall effect in epitaxial graphene. <i>Semiconductor Science and Technology</i> , 2015 , 30, 055007 | 1.8 | 5 |
| 7 | THz saturable absorption in turbostratic multilayer graphene on silicon carbide. <i>Optics Express</i> , 2015 , 23, 11632-40 | 3.3 | 19 |
| 6 | 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 |

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| 5 | Increasing the active surface of titanium islands on graphene by nitrogen sputtering. <i>Applied Physics Letters</i> , 2015 , 106, 083901 | 3-4 | 25 |
| 4 | 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 |
| 3 | Acoustically induced current flow in graphene. <i>Applied Physics Letters</i> , 2012 , 100, 133105 | 3-4 | 62 |
| 2 | Acoustic charge transport in graphene 2012 , | | 1 |
| 1 | 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 |