

Vaidotas MiÅjeikis

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,825
citations

331259

21
h-index

276539

41
g-index

65
all docs

65
docs citations

65
times ranked

2754
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Ultra-clean high-mobility graphene on technologically relevant substrates. <i>Nanoscale</i> , 2022, 14, 2167-2176. | 2.8 | 22 |
| 2 | Unexpected Electron Transport Suppression in a Heterostructured Graphene-MoS ₂ Multiple Field-Effect Transistor Architecture. <i>ACS Nano</i> , 2022, 16, 1291-1300. | 7.3 | 9 |
| 3 | Moiré-Induced Transport in CVD-Based Small-Angle Twisted Bilayer Graphene. <i>Nano Letters</i> , 2022, 22, 5252-5259. | 4.5 | 4 |
| 4 | Antenna-Coupled Graphene Field-Effect Transistors as a Terahertz Imaging Array. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021, 11, 70-78. | 2.0 | 7 |
| 5 | Large-area, high-responsivity, fast and broadband graphene/n-Si photodetector. <i>Nanotechnology</i> , 2021, 32, 155504. | 1.3 | 9 |
| 6 | Synthesis of Large-Scale Monolayer 1T-MoTe ₂ and Its Stabilization via Scalable hBN Encapsulation. <i>ACS Nano</i> , 2021, 15, 4213-4225. | 7.3 | 61 |
| 7 | Wafer-Scale Integration of Graphene-Based Photonic Devices. <i>ACS Nano</i> , 2021, 15, 3171-3187. | 7.3 | 75 |
| 8 | Photo thermal effect graphene detector featuring 105 Gbit s ⁻¹ NRZ and 120 Gbit s ⁻¹ PAM4 direct detection. <i>Nature Communications</i> , 2021, 12, 806. | 5.8 | 51 |
| 9 | Modeling Photodetection at the Graphene/Ag 2 S Interface. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100120. | 1.2 | 1 |
| 10 | Synthesis of large-area rhombohedral few-layer graphene by chemical vapor deposition on copper. <i>Carbon</i> , 2021, 177, 282-290. | 5.4 | 22 |
| 11 | Acoustic streaming of microparticles using graphene-based interdigital transducers. <i>Nanotechnology</i> , 2021, 32, 375503. | 1.3 | 6 |
| 12 | Wafer-scale integration of graphene for waveguide-integrated optoelectronics. <i>Applied Physics Letters</i> , 2021, 119, 050501. | 1.5 | 7 |
| 13 | Deterministic synthesis of Cu ₉ S ₅ flakes assisted by single-layer graphene arrays. <i>Nanoscale Advances</i> , 2021, 3, 1352-1361. | 2.2 | 1 |
| 14 | Optically enabled graphene-based transmitter for Gbit/s links at 93 GHz carrier frequency. , 2021, , . | | 0 |
| 15 | Parallel transport and layer-resolved thermodynamic measurements in twisted bilayer graphene. <i>Physical Review B</i> , 2021, 104, . | 1.1 | 6 |
| 16 | Driving with temperature the synthesis of graphene on Ge(110). <i>Applied Surface Science</i> , 2020, 499, 143923. | 3.1 | 22 |
| 17 | Deterministic direct growth of WS ₂ on CVD graphene arrays. <i>2D Materials</i> , 2020, 7, 014002. | 2.0 | 17 |
| 18 | Ultrafast, Zero-Bias, Graphene Photodetectors with Polymeric Gate Dielectric on Passive Photonic Waveguides. <i>ACS Nano</i> , 2020, 14, 11190-11204. | 7.3 | 48 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001. | 2.0 | 333 |
| 20 | Graphene Plasmonic Fractal Metamaterials for Broadband Photodetectors. Scientific Reports, 2020, 10, 6882. | 1.6 | 22 |
| 21 | 30Å°-Twisted Bilayer Graphene Quasicrystals from Chemical Vapor Deposition. Nano Letters, 2020, 20, 3313-3319. | 4.5 | 60 |
| 22 | High-quality electrical transport using scalable CVD graphene. 2D Materials, 2020, 7, 041003. | 2.0 | 35 |
| 23 | Submicron Size Schottky Junctions on As-Grown Monolayer Epitaxial Graphene on Ge(100): A Low-Invasive Scanned-Probe-Based Study. ACS Applied Materials & Interfaces, 2019, 11, 35079-35087. | 4.0 | 7 |
| 24 | Waveguide-Integrated, Plasmonic Enhanced Graphene Photodetectors. Nano Letters, 2019, 19, 7632-7644. | 4.5 | 113 |
| 25 | Graphene Field-Effect Transistors Employing Different Thin Oxide Films: A Comparative Study. ACS Omega, 2019, 4, 2256-2260. | 1.6 | 18 |
| 26 | CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. 2D Materials, 2019, 6, 035007. | 2.0 | 23 |
| 27 | Abrupt Changes in the Graphene on Ge(001) System at the Onset of Surface Melting. ECS Transactions, 2019, 93, 125-128. | 0.3 | 0 |
| 28 | Mapping the mechanical properties of a graphene drum at the nanoscale. 2D Materials, 2019, 6, 025005. | 2.0 | 14 |
| 29 | Abrupt changes in the graphene on Ge(001) system at the onset of surface melting. Carbon, 2019, 145, 345-351. | 5.4 | 12 |
| 30 | Waveguide Integrated CVD Graphene Photo-Thermo-Electric Detector With >40GHz Bandwidth. , 2019, , . | | 3 |
| 31 | High-speed double layer graphene electro-absorption modulator on SOI waveguide. Optics Express, 2019, 27, 20145. | 1.7 | 57 |
| 32 | 50Gb/s CVD Graphene-Insulator-Graphene Electro-Absorption Modulator on Si waveguide. , 2019, , . | | 0 |
| 33 | Early stage of CVD graphene synthesis on Ge(001) substrate. Carbon, 2018, 134, 183-188. | 5.4 | 27 |
| 34 | Rippling of graphitic surfaces: a comparison between few-layer graphene and HOPG. Physical Chemistry Chemical Physics, 2018, 20, 13322-13330. | 1.3 | 8 |
| 35 | Scanning probe assisted local oxidation nanolithography of CVD grown graphene on Ge(100). , 2018, , . | | 0 |
| 36 | Layout influence on microwave performance of graphene field effect transistors. Electronics Letters, 2018, 54, 984-986. | 0.5 | 6 |

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|----|---|-----|-----------|
| 37 | Controlling local deformation in graphene using micrometric polymeric actuators. 2D Materials, 2018, 5, 045032. | 2.0 | 14 |
| 38 | Single layer graphene functionalized MEA for enhanced detection of neuronal network development. Sensors and Actuators B: Chemical, 2018, 277, 224-233. | 4.0 | 15 |
| 39 | Probing charge transfer during metal-insulator transitions in graphene-LaAlO ₃ /SrTiO ₃ systems. APL Materials, 2018, 6, . | 2.2 | 3 |
| 40 | Deterministic patterned growth of high-mobility large-crystal graphene: a path towards wafer scale integration. 2D Materials, 2017, 4, 021004. | 2.0 | 71 |
| 41 | Fast detection of water nanopockets underneath wet-transferred graphene. Carbon, 2017, 118, 208-214. | 5.4 | 12 |
| 42 | Coherent absorption of light by graphene and other optically conducting surfaces in realistic on-substrate configurations. APL Photonics, 2017, 2, . | 3.0 | 19 |
| 43 | Perfecting the Growth and Transfer of Large Single-Crystal CVD Graphene: A Platform Material for Optoelectronic Applications. Carbon Nanostructures, 2017, , 113-124. | 0.1 | 5 |
| 44 | Coherent perfect absorption and transparency in lossy and loss/gain metasurface-embedding structures. , 2017, , . | | 1 |
| 45 | Tunnel and electrostatic coupling in graphene-LaAlO ₃ /SrTiO ₃ hybrid systems. APL Materials, 2016, 4, 066101. | 2.2 | 9 |
| 46 | Low-temperature quantum transport in CVD-grown single crystal graphene. Nano Research, 2016, 9, 1823-1830. | 5.8 | 15 |
| 47 | Ultrafast optical modulation of magneto-optical terahertz effects occurring in a graphene-loaded resonant metasurface. Proceedings of SPIE, 2016, , . | 0.8 | 1 |
| 48 | Morphological modulation of graphene-mediated hybridization in plasmonic systems. Physical Chemistry Chemical Physics, 2016, 18, 27493-27499. | 1.3 | 3 |
| 49 | Thermal decomposition and chemical vapor deposition: a comparative study of multi-layer growth of graphene on SiC(000-1). MRS Advances, 2016, 1, 3667-3672. | 0.5 | 9 |
| 50 | Investigating the CVD Synthesis of Graphene on Ge(100): toward Layer-by-Layer Growth. ACS Applied Materials & Interfaces, 2016, 8, 33083-33090. | 4.0 | 48 |
| 51 | Scalable synthesis of WS ₂ on graphene and h-BN: an all-2D platform for light-matter transduction. 2D Materials, 2016, 3, 031013. | 2.0 | 36 |
| 52 | Interedge backscattering in buried split-gate-defined graphene quantum point contacts. Physical Review B, 2016, 94, . | 1.1 | 13 |
| 53 | Anisotropic straining of graphene using micropatterned SiN membranes. APL Materials, 2016, 4, . | 2.2 | 11 |
| 54 | Revealing the Multibonding State between Hydrogen and Graphene-Supported Ti Clusters. Journal of Physical Chemistry C, 2016, 120, 12974-12979. | 1.5 | 21 |

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|----|---|-----|-----------|
| 55 | Rapid and catalyst-free van der Waals epitaxy of graphene on hexagonal boron nitride. Carbon, 2016, 96, 497-502. | 5.4 | 43 |
| 56 | Magneto-optic transmittance modulation observed in a hybrid grapheneâ€split ring resonator terahertz metasurface. Applied Physics Letters, 2015, 107, . | 1.5 | 39 |
| 57 | Rapid CVD growth of millimetre-sized single crystal graphene using a cold-wall reactor. 2D Materials, 2015, 2, 014006. | 2.0 | 143 |
| 58 | Bilayer-induced asymmetric quantum Hall effect in epitaxial graphene. Semiconductor Science and Technology, 2015, 30, 055007. | 1.0 | 7 |
| 59 | THz saturable absorption in turbostratic multilayer graphene on silicon carbide. Optics Express, 2015, 23, 11632. | 1.7 | 23 |
| 60 | UV Light Detection from CdS Nanocrystal Sensitized Graphene Photodetectors at kHz Frequencies. Journal of Physical Chemistry C, 2015, 119, 23859-23864. | 1.5 | 30 |
| 61 | Increasing the active surface of titanium islands on graphene by nitrogen sputtering. Applied Physics Letters, 2015, 106, . | 1.5 | 31 |
| 62 | Acoustic charge transport in graphene. , 2012, , . | | 1 |
| 63 | Acoustically induced current flow in graphene. Applied Physics Letters, 2012, 100, . | 1.5 | 90 |
| 64 | A Flexible, Transparent Chemosensor Integrating an Inkjetâ€Printed Organic Fieldâ€Effect Transistor and a Nonâ€Covalently Functionalized Graphene Electrode. Advanced Materials Technologies, 0, , 2100481. | 3.0 | 6 |