

Vaidotas MiÅjeikis

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,825
citations

331670

21
h-index

276875

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.	5.6	22
2	Unexpected Electron Transport Suppression in a Heterostructured Grapheneâ€“MoS ₂ Multiple Field-Effect Transistor Architecture. <i>ACS Nano</i> , 2022, 16, 1291-1300.	14.6	9
3	MoirÅ©-Induced Transport in CVD-Based Small-Angle Twisted Bilayer Graphene. <i>Nano Letters</i> , 2022, 22, 5252-5259.	9.1	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.	3.1	7
5	Large-area, high-responsivity, fast and broadband graphene/n-Si photodetector. <i>Nanotechnology</i> , 2021, 32, 155504.	2.6	9
6	Synthesis of Large-Scale Monolayer 1Tâ€“MoTe ₂ and Its Stabilization <i>via</i> Scalable hBN Encapsulation. <i>ACS Nano</i> , 2021, 15, 4213-4225.	14.6	61
7	Wafer-Scale Integration of Graphene-Based Photonic Devices. <i>ACS Nano</i> , 2021, 15, 3171-3187.	14.6	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.	12.8	51
9	Modeling Photodetection at the Graphene/Ag 2 S Interface. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100120.	2.4	1
10	Synthesis of large-area rhombohedral few-layer graphene by chemical vapor deposition on copper. <i>Carbon</i> , 2021, 177, 282-290.	10.3	22
11	Acoustic streaming of microparticles using graphene-based interdigital transducers. <i>Nanotechnology</i> , 2021, 32, 375503.	2.6	6
12	Wafer-scale integration of graphene for waveguide-integrated optoelectronics. <i>Applied Physics Letters</i> , 2021, 119, 050501.	3.3	7
13	Deterministic synthesis of Cu ₉ S ₅ flakes assisted by single-layer graphene arrays. <i>Nanoscale Advances</i> , 2021, 3, 1352-1361.	4.6	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, .	3.2	6
16	Driving with temperature the synthesis of graphene on Ge(110). <i>Applied Surface Science</i> , 2020, 499, 143923.	6.1	22
17	Deterministic direct growth of WS ₂ on CVD graphene arrays. <i>2D Materials</i> , 2020, 7, 014002.	4.4	17
18	Ultrafast, Zero-Bias, Graphene Photodetectors with Polymeric Gate Dielectric on Passive Photonic Waveguides. <i>ACS Nano</i> , 2020, 14, 11190-11204.	14.6	48

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19	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	4.4	333
20	Graphene Plasmonic Fractal Metamaterials for Broadband Photodetectors. Scientific Reports, 2020, 10, 6882.	3.3	22
21	30Å°-Twisted Bilayer Graphene Quasicrystals from Chemical Vapor Deposition. Nano Letters, 2020, 20, 3313-3319.	9.1	60
22	High-quality electrical transport using scalable CVD graphene. 2D Materials, 2020, 7, 041003.	4.4	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.	8.0	7
24	Waveguide-Integrated, Plasmonic Enhanced Graphene Photodetectors. Nano Letters, 2019, 19, 7632-7644.	9.1	113
25	Graphene Field-Effect Transistors Employing Different Thin Oxide Films: A Comparative Study. ACS Omega, 2019, 4, 2256-2260.	3.5	18
26	CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. 2D Materials, 2019, 6, 035007.	4.4	23
27	Abrupt Changes in the Graphene on Ge(001) System at the Onset of Surface Melting. ECS Transactions, 2019, 93, 125-128.	0.5	0
28	Mapping the mechanical properties of a graphene drum at the nanoscale. 2D Materials, 2019, 6, 025005.	4.4	14
29	Abrupt changes in the graphene on Ge(001) system at the onset of surface melting. Carbon, 2019, 145, 345-351.	10.3	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.	3.4	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.	10.3	27
34	Rippling of graphitic surfaces: a comparison between few-layer graphene and HOPG. Physical Chemistry Chemical Physics, 2018, 20, 13322-13330.	2.8	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.	1.0	6

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37	Controlling local deformation in graphene using micrometric polymeric actuators. 2D Materials, 2018, 5, 045032.	4.4	14
38	Single layer graphene functionalized MEA for enhanced detection of neuronal network development. Sensors and Actuators B: Chemical, 2018, 277, 224-233.	7.8	15
39	Probing charge transfer during metal-insulator transitions in graphene-LaAlO ₃ /SrTiO ₃ systems. APL Materials, 2018, 6, .	5.1	3
40	Deterministic patterned growth of high-mobility large-crystal graphene: a path towards wafer scale integration. 2D Materials, 2017, 4, 021004.	4.4	71
41	Fast detection of water nanopockets underneath wet-transferred graphene. Carbon, 2017, 118, 208-214.	10.3	12
42	Coherent absorption of light by graphene and other optically conducting surfaces in realistic on-substrate configurations. APL Photonics, 2017, 2, .	5.7	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.	5.1	9
46	Low-temperature quantum transport in CVD-grown single crystal graphene. Nano Research, 2016, 9, 1823-1830.	10.4	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.	2.8	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.	0.9	9
50	Investigating the CVD Synthesis of Graphene on Ge(100): toward Layer-by-Layer Growth. ACS Applied Materials & Interfaces, 2016, 8, 33083-33090.	8.0	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.	4.4	36
52	Interedge backscattering in buried split-gate-defined graphene quantum point contacts. Physical Review B, 2016, 94, .	3.2	13
53	Anisotropic straining of graphene using micropatterned SiN membranes. APL Materials, 2016, 4, .	5.1	11
54	Revealing the Multibonding State between Hydrogen and Graphene-Supported Ti Clusters. Journal of Physical Chemistry C, 2016, 120, 12974-12979.	3.1	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.	10.3	43
56	Magneto-optic transmittance modulation observed in a hybrid grapheneâ€split ring resonator terahertz metasurface. Applied Physics Letters, 2015, 107, .	3.3	39
57	Rapid CVD growth of millimetre-sized single crystal graphene using a cold-wall reactor. 2D Materials, 2015, 2, 014006.	4.4	143
58	Bilayer-induced asymmetric quantum Hall effect in epitaxial graphene. Semiconductor Science and Technology, 2015, 30, 055007.	2.0	7
59	THz saturable absorption in turbostratic multilayer graphene on silicon carbide. Optics Express, 2015, 23, 11632.	3.4	23
60	UV Light Detection from CdS Nanocrystal Sensitized Graphene Photodetectors at kHz Frequencies. Journal of Physical Chemistry C, 2015, 119, 23859-23864.	3.1	30
61	Increasing the active surface of titanium islands on graphene by nitrogen sputtering. Applied Physics Letters, 2015, 106, .	3.3	31
62	Acoustic charge transport in graphene. , 2012, , .		1
63	Acoustically induced current flow in graphene. Applied Physics Letters, 2012, 100, .	3.3	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.	5.8	6