

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	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	4.4	333
2	Rapid CVD growth of millimetre-sized single crystal graphene using a cold-wall reactor. 2D Materials, 2015, 2, 014006.	4.4	143
3	Waveguide-Integrated, Plasmonic Enhanced Graphene Photodetectors. Nano Letters, 2019, 19, 7632-7644.	9.1	113
4	Acoustically induced current flow in graphene. Applied Physics Letters, 2012, 100, .	3.3	90
5	Wafer-Scale Integration of Graphene-Based Photonic Devices. ACS Nano, 2021, 15, 3171-3187.	14.6	75
6	Deterministic patterned growth of high-mobility large-crystal graphene: a path towards wafer scale integration. 2D Materials, 2017, 4, 021004.	4.4	71
7	Synthesis of Large-Scale Monolayer $1T\text{-MoTe}_2$ and Its Stabilization <i>via</i> Scalable hBN Encapsulation. ACS Nano, 2021, 15, 4213-4225.	14.6	61
8	30° -Twisted Bilayer Graphene Quasicrystals from Chemical Vapor Deposition. Nano Letters, 2020, 20, 3313-3319.	9.1	60
9	High-speed double layer graphene electro-absorption modulator on SOI waveguide. Optics Express, 2019, 27, 20145.	3.4	57
10	Photo thermal effect graphene detector featuring 105 Gbit s^{-1} NRZ and 120 Gbit s^{-1} PAM4 direct detection. Nature Communications, 2021, 12, 806.	12.8	51
11	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
12	Ultrafast, Zero-Bias, Graphene Photodetectors with Polymeric Gate Dielectric on Passive Photonic Waveguides. ACS Nano, 2020, 14, 11190-11204.	14.6	48
13	Rapid and catalyst-free van der Waals epitaxy of graphene on hexagonal boron nitride. Carbon, 2016, 96, 497-502.	10.3	43
14	Magneto-optic transmittance modulation observed in a hybrid graphene-split ring resonator terahertz metasurface. Applied Physics Letters, 2015, 107, .	3.3	39
15	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
16	High-quality electrical transport using scalable CVD graphene. 2D Materials, 2020, 7, 041003.	4.4	35
17	Increasing the active surface of titanium islands on graphene by nitrogen sputtering. Applied Physics Letters, 2015, 106, .	3.3	31
18	UV Light Detection from CdS Nanocrystal Sensitized Graphene Photodetectors at kHz Frequencies. Journal of Physical Chemistry C, 2015, 119, 23859-23864.	3.1	30

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19	Early stage of CVD graphene synthesis on Ge(001) substrate. Carbon, 2018, 134, 183-188.	10.3	27
20	THz saturable absorption in turbostratic multilayer graphene on silicon carbide. Optics Express, 2015, 23, 11632.	3.4	23
21	CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. 2D Materials, 2019, 6, 035007.	4.4	23
22	Driving with temperature the synthesis of graphene on Ge(110). Applied Surface Science, 2020, 499, 143923.	6.1	22
23	Graphene Plasmonic Fractal Metamaterials for Broadband Photodetectors. Scientific Reports, 2020, 10, 6882.	3.3	22
24	Synthesis of large-area rhombohedral few-layer graphene by chemical vapor deposition on copper. Carbon, 2021, 177, 282-290.	10.3	22
25	Ultra-clean high-mobility graphene on technologically relevant substrates. Nanoscale, 2022, 14, 2167-2176.	5.6	22
26	Revealing the Multibonding State between Hydrogen and Graphene-Supported Ti Clusters. Journal of Physical Chemistry C, 2016, 120, 12974-12979.	3.1	21
27	Coherent absorption of light by graphene and other optically conducting surfaces in realistic on-substrate configurations. APL Photonics, 2017, 2, .	5.7	19
28	Graphene Field-Effect Transistors Employing Different Thin Oxide Films: A Comparative Study. ACS Omega, 2019, 4, 2256-2260.	3.5	18
29	Deterministic direct growth of WS ₂ on CVD graphene arrays. 2D Materials, 2020, 7, 014002.	4.4	17
30	Low-temperature quantum transport in CVD-grown single crystal graphene. Nano Research, 2016, 9, 1823-1830.	10.4	15
31	Single layer graphene functionalized MEA for enhanced detection of neuronal network development. Sensors and Actuators B: Chemical, 2018, 277, 224-233.	7.8	15
32	Controlling local deformation in graphene using micrometric polymeric actuators. 2D Materials, 2018, 5, 045032.	4.4	14
33	Mapping the mechanical properties of a graphene drum at the nanoscale. 2D Materials, 2019, 6, 025005.	4.4	14
34	Interedge backscattering in buried split-gate-defined graphene quantum point contacts. Physical Review B, 2016, 94, .	3.2	13
35	Fast detection of water nanopockets underneath wet-transferred graphene. Carbon, 2017, 118, 208-214.	10.3	12
36	Abrupt changes in the graphene on Ge(001) system at the onset of surface melting. Carbon, 2019, 145, 345-351.	10.3	12

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37	Anisotropic straining of graphene using micropatterned SiN membranes. <i>APL Materials</i> , 2016, 4, .	5.1	11
38	Tunnel and electrostatic coupling in graphene-LaAlO ₃ /SrTiO ₃ hybrid systems. <i>APL Materials</i> , 2016, 4, 066101.	5.1	9
39	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.	0.9	9
40	Large-area, high-responsivity, fast and broadband graphene/n-Si photodetector. <i>Nanotechnology</i> , 2021, 32, 155504.	2.6	9
41	Unexpected Electron Transport Suppression in a Heterostructured Graphene-MoS ₂ Multiple Field-Effect Transistor Architecture. <i>ACS Nano</i> , 2022, 16, 1291-1300.	14.6	9
42	Rippling of graphitic surfaces: a comparison between few-layer graphene and HOPG. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13322-13330.	2.8	8
43	Bilayer-induced asymmetric quantum Hall effect in epitaxial graphene. <i>Semiconductor Science and Technology</i> , 2015, 30, 055007.	2.0	7
44	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.	8.0	7
45	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
46	Wafer-scale integration of graphene for waveguide-integrated optoelectronics. <i>Applied Physics Letters</i> , 2021, 119, 050501.	3.3	7
47	Layout influence on microwave performance of graphene field effect transistors. <i>Electronics Letters</i> , 2018, 54, 984-986.	1.0	6
48	Acoustic streaming of microparticles using graphene-based interdigital transducers. <i>Nanotechnology</i> , 2021, 32, 375503.	2.6	6
49	A Flexible, Transparent Chemosensor Integrating an Inkjet-Printed Organic Field-Effect Transistor and a Non-Covalently Functionalized Graphene Electrode. <i>Advanced Materials Technologies</i> , 0, , 2100481.	5.8	6
50	Parallel transport and layer-resolved thermodynamic measurements in twisted bilayer graphene. <i>Physical Review B</i> , 2021, 104, .	3.2	6
51	Perfecting the Growth and Transfer of Large Single-Crystal CVD Graphene: A Platform Material for Optoelectronic Applications. <i>Carbon Nanostructures</i> , 2017, , 113-124.	0.1	5
52	Moiré-Induced Transport in CVD-Based Small-Angle Twisted Bilayer Graphene. <i>Nano Letters</i> , 2022, 22, 5252-5259.	9.1	4
53	Morphological modulation of graphene-mediated hybridization in plasmonic systems. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27493-27499.	2.8	3
54	Probing charge transfer during metal-insulator transitions in graphene-LaAlO ₃ /SrTiO ₃ systems. <i>APL Materials</i> , 2018, 6, .	5.1	3

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55	Waveguide Integrated CVD Graphene Photo-Thermo-Electric Detector With >40GHz Bandwidth. , 2019, , .		3
56	Acoustic charge transport in graphene. , 2012, , .		1
57	Ultrafast optical modulation of magneto-optical terahertz effects occurring in a graphene-loaded resonant metasurface. Proceedings of SPIE, 2016, , .	0.8	1
58	Coherent perfect absorption and transparency in lossy and loss/gain metasurface-embedding structures. , 2017, , .		1
59	Modeling Photodetection at the Graphene/Ag 2 S Interface. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100120.	2.4	1
60	Deterministic synthesis of Cu9S5 flakes assisted by single-layer graphene arrays. Nanoscale Advances, 2021, 3, 1352-1361.	4.6	1
61	Scanning probe assisted local oxidation nanolithography of CVD grown graphene on Ge(100). , 2018, , .		0
62	Abrupt Changes in the Graphene on Ge(001) System at the Onset of Surface Melting. ECS Transactions, 2019, 93, 125-128.	0.5	0
63	50Gb/s CVD Graphene-Insulator-Graphene Electro-Absorption Modulator on Si waveguide. , 2019, , .		0
64	Optically enabled graphene-based transmitter for Gbit/s links at 93 GHz carrier frequency. , 2021, , .		0