

Tymoteusz Ciuk

List of Publications by Year in descending order

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41
papers

1,029
citations

516710

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32
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41
all docs

41
docs citations

41
times ranked

1673
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of graphene-related and substrate-related Raman modes through dielectric layer deposition. Applied Physics Letters, 2022, 120, .	3.3	9
2	Contamination-induced inhomogeneity of noise sources distribution in Al ₂ O ₃ -passivated quasi-free-standing graphene on 4H-SiC(0001). Physica E: Low-Dimensional Systems and Nanostructures, 2022, 142, 115264.	2.7	5
3	Graphene on SiC as a promising platform for magnetic field detection under neutron irradiation. Applied Surface Science, 2022, 590, 152992.	6.1	13
4	The Comparison of InSb-Based Thin Films and Graphene on SiC for Magnetic Diagnostics under Extreme Conditions. Sensors, 2022, 22, 5258.	3.8	4
5	The impact of partial H intercalation on the quasi-free-standing properties of graphene on SiC(0001). Applied Surface Science, 2021, 541, 148668.	6.1	10
6	Direct graphene growth on GaN and Au materials using the PECVD method. AIP Conference Proceedings, 2021, , .	0.4	1
7	Effect of oxidation temperature on the inhomogeneity of chemical composition and density in nanometric SiO ₂ films grown on 4H-SiC. Journal of Materials Chemistry C, 2021, 9, 4393-4404.	5.5	7
8	Highly-doped p-type few-layer graphene on UID off-axis homoepitaxial 4H-SiC. Current Applied Physics, 2021, 27, 17-24.	2.4	5
9	Determining the number of graphene layers based on Raman response of the SiC substrate. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114853.	2.7	6
10	Magnetophonon resonance on the phonon frequency difference in quasi-free-standing graphene. Physical Review B, 2021, 103, .	3.2	0
11	Enhanced Raman spectra of hydrogen-intercalated quasi-free-standing monolayer graphene on 4H-SiC(0001). Physica E: Low-Dimensional Systems and Nanostructures, 2020, 117, 113746.	2.7	5
12	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	4.4	333
13	High-Temperature Hall Effect Sensor Based on Epitaxial Graphene on High-Purity Semiinsulating 4H-SiC. IEEE Transactions on Electron Devices, 2019, 66, 3134-3138.	3.0	22
14	Quasi-Free-Standing Bilayer Graphene Hall-Effect Sensor. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	5
15	Demystifying the Nonlinear-Optical Physics of Graphene. , 2019, , .		0
16	Homoepitaksja węgla krzemu dla przyrz. w mocy w Sieci Badawczej Łukasiewicz - ITME. Przegląd Elektrotechniczny, 2019, 1, 156-158.	0.2	0
17	Localized optical-quality doping of graphene on silicon waveguides through a TFSA-containing polymer matrix. Journal of Materials Chemistry C, 2018, 6, 10739-10750.	5.5	2
18	Thermally activated double-carrier transport in epitaxial graphene on vanadium-compensated 6H-SiC as revealed by Hall effect measurements. Carbon, 2018, 139, 776-781.	10.3	16

#	ARTICLE	IF	CITATIONS
19	Graphene's nonlinear-optical physics revealed through exponentially growing self-phase modulation. Nature Communications, 2018, 9, 2675.	12.8	67
20	Extra-ordinary nonlinear-optical behavior in silica-core waveguides covered with graphene. , 2018, , .		0
21	Fabrication and applications of multi-layer graphene stack on transparent polymer. Applied Physics Letters, 2017, 110, .	3.3	46
22	A W-band MMIC Resistive Mixer Based on Epitaxial Graphene FET. IEEE Microwave and Wireless Components Letters, 2017, 27, 168-170.	3.2	33
23	Functional Properties of Monolayer and Bilayer Graphene Hall-Effect Sensors. Acta Physica Polonica A, 2017, 131, 1250-1254.	0.5	2
24	Patterning of graphene on silicon-on-insulator waveguides through laser ablation and plasma etching. , 2016, , .		0
25	Low-noise epitaxial graphene on SiC Hall effect element for commercial applications. Applied Physics Letters, 2016, 108, .	3.3	21
26	Negative Kerr Nonlinearity of Graphene as seen via Chirped-Pulse-Pumped Self-Phase Modulation. Physical Review Applied, 2016, 6, .	3.8	68
27	Optical-quality controllable wet-chemical doping of graphene through a uniform, transparent and low-roughness F4-TCNQ/MEK layer. RSC Advances, 2016, 6, 104491-104501.	3.6	10
28	Graphene FET Gigabit ON-OFF Keying Demodulator at 96 GHz. IEEE Electron Device Letters, 2016, 37, 333-336.	3.9	29
29	Charge carrier concentration and offset voltage in quasi-free-standing monolayer chemical vapor deposition graphene on SiC. Carbon, 2016, 101, 431-438.	10.3	28
30	Laser ablation- and plasma etching-based patterning of graphene on silicon-on-insulator waveguides. Optics Express, 2015, 23, 26639.	3.4	23
31	Statistics of epitaxial graphene for Hall effect sensors. Carbon, 2015, 93, 1042-1049.	10.3	34
32	Temperature Dependence of Functional Properties of Graphene Hall-Effect Sensors Grown on Si Face and C Face of 4H-SiC Substrate. Advances in Intelligent Systems and Computing, 2015, , 111-120.	0.6	1
33	Influence of Protective Layer on the Functional Properties of Monolayer and Bilayer Graphene Hall-Effect Sensors. Advances in Intelligent Systems and Computing, 2015, , 101-109.	0.6	1
34	Measuring of Electric Parameters of Graphene in Presence of Temperature Gradient. Acta Physica Polonica A, 2015, 128, 166-169.	0.5	0
35	Graphene Based Flow Sensors. Acta Physica Polonica A, 2014, 126, 1209-1212.	0.5	1
36	Step-edge-induced resistance anisotropy in quasi-free-standing bilayer chemical vapor deposition graphene on SiC. Journal of Applied Physics, 2014, 116, .	2.5	27

#	ARTICLE	IF	CITATIONS
37	Microwave complex conductivity of the YBCO thin films as a function of static external magnetic field. Applied Physics Letters, 2014, 104, .	3.3	8
38	Growing graphene on polycrystalline copper foils by ultra-high vacuum chemical vapor deposition. Carbon, 2014, 78, 347-355.	10.3	41
39	Sensitivity and Offset Voltage Testing in the Hall-Effect Sensors Made of Graphene. Advances in Intelligent Systems and Computing, 2014, , 631-640.	0.6	62
40	Complex Conductivity of YBCO Films in Normal and Superconducting States Probed by Microwave Measurements. IEEE Transactions on Applied Superconductivity, 2013, 23, 1501011-1501011.	1.7	12
41	Properties of Chemical Vapor Deposition Graphene Transferred by High-Speed Electrochemical Delamination. Journal of Physical Chemistry C, 2013, 117, 20833-20837.	3.1	72