

Iwona Pasternak

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,800
citations

279798

23
h-index

265206

42
g-index

60
all docs

60
docs citations

60
times ranked

2639
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise localization of contaminants in graphene with secondary ion mass spectrometry. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110308.	5.0	6
2	Three-step, transfer-free growth of MoS ₂ /WS ₂ /graphene vertical van der Waals heterostructure. 2D Materials, 2022, 9, 025030.	4.4	5
3	Cytocompatibility of Graphene Monolayer and Its Impact on Focal Cell Adhesion, Mitochondrial Morphology and Activity in BALB/3T3 Fibroblasts. Materials, 2021, 14, 643.	2.9	12
4	Suspended graphene on germanium: selective local etching via laser-induced photocorrosion of germanium. 2D Materials, 2021, 8, 035043.	4.4	3
5	Impact of germanium substrate orientation on morphological and structural properties of graphene grown by CVD method. Applied Surface Science, 2020, 499, 143913.	6.1	10
6	Graphene as a Schottky Barrier Contact to AlGaIn/GaN Heterostructures. Materials, 2020, 13, 4140.	2.9	13
7	Substrate-Induced Variances in Morphological and Structural Properties of MoS ₂ Grown by Chemical Vapor Deposition on Epitaxial Graphene and SiO ₂ . ACS Applied Materials & Interfaces, 2020, 12, 45101-45110.	8.0	20
8	<p>The effects of graphene and mesenchymal stem cells in cutaneous wound healing and their putative action mechanism</p>. International Journal of Nanomedicine, 2019, Volume 14, 2281-2299.	6.7	39
9	Chemical-Vapor-Deposited Graphene as a Thermally Conducting Coating. ACS Applied Nano Materials, 2019, 2, 2621-2633.	5.0	9
10	Non-contact mobility measurements of graphene on silicon carbide. Microelectronic Engineering, 2019, 212, 9-12.	2.4	8
11	Hydrogen intercalation of CVD graphene on germanium (001) â€“ Strain and doping analysis using Raman spectroscopy. Applied Surface Science, 2019, 473, 203-208.	6.1	13
12	Mapping Mode-Locking Regimes in a Polarization-Maintaining Er-Doped Fiber Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-9.	2.9	18
13	Influence of hydrogen intercalation on graphene/Ge(0â€“0â€“1)/Si(0â€“0â€“1) interface. Applied Surface Science, 2018, 447, 582-586.	6.1	21
14	Biocompatibility of pristine graphene monolayer: Scaffold for fibroblasts. Toxicology in Vitro, 2018, 48, 276-285.	2.4	39
15	Touch-mode capacitive pressure sensor with graphene-polymer heterostructure membrane. 2D Materials, 2018, 5, 015025.	4.4	28
16	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
17	Grapheneâ€™s nonlinear-optical physics revealed through exponentially growing self-phase modulation. Nature Communications, 2018, 9, 2675.	12.8	67
18	Formation of a highly doped ultra-thin amorphous carbon layer by ion bombardment of graphene. Nanotechnology, 2018, 29, 305302.	2.6	10

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19	Electrical Homogeneity Mapping of Epitaxial Graphene on Silicon Carbide. ACS Applied Materials & Interfaces, 2018, 10, 31641-31647.	8.0	20
20	Power Scaling of an All-PM Fiber Er-Doped Mode-Locked Laser Based on Graphene Saturable Absorber. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 60-65.	2.9	20
21	Fabrication and applications of multi-layer graphene stack on transparent polymer. Applied Physics Letters, 2017, 110, .	3.3	46
22	Graphene-based layers deposited onto flexible substrates: Used in dye-sensitized solar cells as counter electrodes. Applied Surface Science, 2017, 424, 157-163.	6.1	20
23	The study of the interactions between graphene and Ge(001)/Si(001). Nano Research, 2017, 10, 3648-3661.	10.4	23
24	Graphene Enhanced Secondary Ion Mass Spectrometry (GESIMS). Scientific Reports, 2017, 7, 7479.	3.3	20
25	CVD-Graphene-Based Flexible, Thermoelectrochromic Sensor. Journal of Nanomaterials, 2017, 2017, 1-8.	2.7	4
26	Amplification of noise-like pulses generated from a graphene-based Tm-doped all-fiber laser. Optics Express, 2016, 24, 20359.	3.4	60
27	Patterning of graphene on silicon-on-insulator waveguides through laser ablation and plasma etching. , 2016, , .		0
28	Graphene growth on Ge(100)/Si(100) substrates by CVD method. Scientific Reports, 2016, 6, 21773.	3.3	83
29	Bound soliton state in all-polarization maintaining fiber laser mode-locked by graphene. , 2016, , .		0
30	All-fiber Ho-doped mode-locked oscillator based on a graphene saturable absorber. Optics Letters, 2016, 41, 2592.	3.3	73
31	Negative Kerr Nonlinearity of Graphene as seen via Chirped-Pulse-Pumped Self-Phase Modulation. Physical Review Applied, 2016, 6, .	3.8	68
32	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
33	Influence of Au doping on electrical properties of CVD graphene. Carbon, 2016, 100, 625-631.	10.3	26
34	Laser ablation- and plasma etching-based patterning of graphene on silicon-on-insulator waveguides. Optics Express, 2015, 23, 26639.	3.4	23
35	Multilayer graphene-based saturable absorbers with scalable modulation depth for mode-locked Er- and Tm-doped fiber lasers. Optical Materials Express, 2015, 5, 2884.	3.0	87
36	Enhanced Raman scattering and weak localization in graphene deposited on GaN nanowires. Physical Review B, 2015, 92, .	3.2	9

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37	260 fs and 1 nJ pulse generation from a compact, mode-locked Tm-doped fiber laser. Optics Express, 2015, 23, 31446.	3.4	23
38	Sub-90 fs a stretched-pulse mode-locked fiber laser based on a graphene saturable absorber. Optics Express, 2015, 23, 27503.	3.4	91
39	Graphene and carbon nanocompounds: biofunctionalization and applications in tissue engineering. Biotechnology and Biotechnological Equipment, 2015, 29, 415-422.	1.3	35
40	Electron scattering in graphene with adsorbed NaCl nanoparticles. Journal of Applied Physics, 2015, 117, 014308.	2.5	3
41	Residual Metallic Contamination of Transferred Chemical Vapor Deposited Graphene. ACS Nano, 2015, 9, 4776-4785.	14.6	250
42	All-polarization maintaining, graphene-based femtosecond Tm-doped all-fiber laser. Optics Express, 2015, 23, 9339.	3.4	77
43	Study on Graphene Growth Process on Various Bronzes and Copper-Plated Steel Substrates. Advances in Intelligent Systems and Computing, 2015, , 171-180.	0.6	4
44	Investigation of the Functional and Environmental Characteristics of Elements with Graphene Coating. Advances in Intelligent Systems and Computing, 2015, , 237-244.	0.6	0
45	Multilayer Graphene-based Saturable Absorbers With Scalable Modulation Depth for Mode-Locked Fiber Lasers. , 2015, , .		0
46	Low-kV SEM Imaging of Epitaxial Graphene Grown on Various Substrates. Microscopy and Microanalysis, 2014, 20, 18-19.	0.4	2
47	Passive synchronization of erbium and thulium doped fiber mode-locked lasers enhanced by common graphene saturable absorber. Optics Express, 2014, 22, 5536.	3.4	70
48	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
49	Dual-wavelength fiber mode-locked laser based on graphene saturable absorber. Proceedings of SPIE, 2014, , .	0.8	1
50	Graphene-based, ultrafast Er-doped fiber laser with linearly polarized output pulses. Photonics Letters of Poland, 2014, 6, .	0.4	3
51	Study of Morphology of Graphene using Atomic Force Microscopy and Raman Spectroscopy. Photonics Letters of Poland, 2014, 6, .	0.4	1
52	Saturable absorber mirrors for ytterbium mode-locked femtosecond lasers. Photonics Letters of Poland, 2014, 6, .	0.4	1
53	Properties of Chemical Vapor Deposition Graphene Transferred by High-Speed Electrochemical Delamination. Journal of Physical Chemistry C, 2013, 117, 20833-20837.	3.1	72
54	Thulium-doped all-fiber laser mode-locked by CVD-graphene/PMMA saturable absorber. Optics Express, 2013, 21, 12797.	3.4	113

#	ARTICLE	IF	CITATIONS
55	Simultaneous mode-locking at 1565 nm and 1944 nm in fiber laser based on common graphene saturable absorber. Optics Express, 2013, 21, 18994.	3.4	65
56	Er-Doped Fiber Laser Mode-Locked by CVD-Graphene Saturable Absorber. Journal of Lightwave Technology, 2012, 30, 2770-2775.	4.6	44
57	ZnO Thin Films of High Crystalline Quality Deposited on Sapphire and GaN Substrates by High Temperature Sputtering. Materials Research Society Symposia Proceedings, 2011, 1315, 1.	0.1	1
58	Multilayer antidiusion barrier schemes for Schottky and ohmic contact metallisations to InAlN/GaN HEMTs. Materials Research Society Symposia Proceedings, 2011, 1298, 233.	0.1	0
59	Phase Formation in Ti-Al-N MAX-Phase Contacts to GaN. Materials Science Forum, 2009, 615-617, 947-950.	0.3	1