

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	Residual Metallic Contamination of Transferred Chemical Vapor Deposited Graphene. ACS Nano, 2015, 9, 4776-4785.	14.6	250
2	Thulium-doped all-fiber laser mode-locked by CVD-graphene/PMMA saturable absorber. Optics Express, 2013, 21, 12797.	3.4	113
3	Sub-90 fs a stretched-pulse mode-locked fiber laser based on a graphene saturable absorber. Optics Express, 2015, 23, 27503.	3.4	91
4	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
5	Graphene growth on Ge(100)/Si(100) substrates by CVD method. Scientific Reports, 2016, 6, 21773.	3.3	83
6	All-polarization maintaining, graphene-based femtosecond Tm-doped all-fiber laser. Optics Express, 2015, 23, 9339.	3.4	77
7	All-fiber Ho-doped mode-locked oscillator based on a graphene saturable absorber. Optics Letters, 2016, 41, 2592.	3.3	73
8	Properties of Chemical Vapor Deposition Graphene Transferred by High-Speed Electrochemical Delamination. Journal of Physical Chemistry C, 2013, 117, 20833-20837.	3.1	72
9	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
10	Negative Kerr Nonlinearity of Graphene as seen via Chirped-Pulse-Pumped Self-Phase Modulation. Physical Review Applied, 2016, 6, .	3.8	68
11	Graphene's nonlinear-optical physics revealed through exponentially growing self-phase modulation. Nature Communications, 2018, 9, 2675.	12.8	67
12	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
13	Amplification of noise-like pulses generated from a graphene-based Tm-doped all-fiber laser. Optics Express, 2016, 24, 20359.	3.4	60
14	Fabrication and applications of multi-layer graphene stack on transparent polymer. Applied Physics Letters, 2017, 110, .	3.3	46
15	Er-Doped Fiber Laser Mode-Locked by CVD-Graphene Saturable Absorber. Journal of Lightwave Technology, 2012, 30, 2770-2775.	4.6	44
16	Biocompatibility of pristine graphene monolayer: Scaffold for fibroblasts. Toxicology in Vitro, 2018, 48, 276-285.	2.4	39
17	<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
18	Graphene and carbon nanocompounds: biofunctionalization and applications in tissue engineering. Biotechnology and Biotechnological Equipment, 2015, 29, 415-422.	1.3	35

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19	Touch-mode capacitive pressure sensor with graphene-polymer heterostructure membrane. 2D Materials, 2018, 5, 015025.	4.4	28
20	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
21	Influence of Au doping on electrical properties of CVD graphene. Carbon, 2016, 100, 625-631.	10.3	26
22	Laser ablation- and plasma etching-based patterning of graphene on silicon-on-insulator waveguides. Optics Express, 2015, 23, 26639.	3.4	23
23	260 fs and 1 nJ pulse generation from a compact, mode-locked Tm-doped fiber laser. Optics Express, 2015, 23, 31446.	3.4	23
24	The study of the interactions between graphene and Ge(001)/Si(001). Nano Research, 2017, 10, 3648-3661.	10.4	23
25	Influence of hydrogen intercalation on graphene/Ge(001)/Si(001) interface. Applied Surface Science, 2018, 447, 582-586.	6.1	21
26	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
27	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
28	Graphene Enhanced Secondary Ion Mass Spectrometry (GESIMS). Scientific Reports, 2017, 7, 7479.	3.3	20
29	Electrical Homogeneity Mapping of Epitaxial Graphene on Silicon Carbide. ACS Applied Materials & Interfaces, 2018, 10, 31641-31647.	8.0	20
30	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
31	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
32	Hydrogen intercalation of CVD graphene on germanium (001) – Strain and doping analysis using Raman spectroscopy. Applied Surface Science, 2019, 473, 203-208.	6.1	13
33	Graphene as a Schottky Barrier Contact to AlGaIn/GaN Heterostructures. Materials, 2020, 13, 4140.	2.9	13
34	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
35	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
36	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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37	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
38	Enhanced Raman scattering and weak localization in graphene deposited on GaN nanowires. Physical Review B, 2015, 92, .	3.2	9
39	Chemical-Vapor-Deposited Graphene as a Thermally Conducting Coating. ACS Applied Nano Materials, 2019, 2, 2621-2633.	5.0	9
40	Non-contact mobility measurements of graphene on silicon carbide. Microelectronic Engineering, 2019, 212, 9-12.	2.4	8
41	Precise localization of contaminants in graphene with secondary ion mass spectrometry. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110308.	5.0	6
42	Three-step, transfer-free growth of MoS ₂ /WS ₂ /graphene vertical van der Waals heterostructure. 2D Materials, 2022, 9, 025030.	4.4	5
43	CVD-Graphene-Based Flexible, Thermoelectrochromic Sensor. Journal of Nanomaterials, 2017, 2017, 1-8.	2.7	4
44	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
45	Electron scattering in graphene with adsorbed NaCl nanoparticles. Journal of Applied Physics, 2015, 117, 014308.	2.5	3
46	Suspended graphene on germanium: selective local etching via laser-induced photocorrosion of germanium. 2D Materials, 2021, 8, 035043.	4.4	3
47	Graphene-based, ultrafast Er-doped fiber laser with linearly polarized output pulses. Photonics Letters of Poland, 2014, 6, .	0.4	3
48	Low-kV SEM Imaging of Epitaxial Graphene Grown on Various Substrates. Microscopy and Microanalysis, 2014, 20, 18-19.	0.4	2
49	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
50	Phase Formation in Ti-Al-N MAX-Phase Contacts to GaN. Materials Science Forum, 2009, 615-617, 947-950.	0.3	1
51	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
52	Dual-wavelength fiber mode-locked laser based on graphene saturable absorber. Proceedings of SPIE, 2014, , .	0.8	1
53	Study of Morphology of Graphene using Atomic Force Microscopy and Raman Spectroscopy. Photonics Letters of Poland, 2014, 6, .	0.4	1
54	Saturable absorber mirrors for ytterbium mode-locked femtosecond lasers. Photonics Letters of Poland, 2014, 6, .	0.4	1

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55	Multilayer antidiffusion barrier schemes for Schottky and ohmic contact metallisations to InAlN/GaN HEMTs. Materials Research Society Symposia Proceedings, 2011, 1298, 233.	0.1	0
56	Patterning of graphene on silicon-on-insulator waveguides through laser ablation and plasma etching. , 2016, , .		0
57	Bound soliton state in all-polarization maintaining fiber laser mode-locked by graphene. , 2016, , .		0
58	Investigation of the Functional and Environmental Characteristics of Elements with Graphene Coating. Advances in Intelligent Systems and Computing, 2015, , 237-244.	0.6	0
59	Multilayer Graphene-based Saturable Absorbers With Scalable Modulation Depth for Mode-Locked Fiber Lasers. , 2015, , .		0