

Mariusz Zdrojek

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

2,082
citations

21
h-index

44
g-index

87
ext. papers

2,393
ext. citations

5
avg. IF

4.86
L-index

#	Paper	IF	Citations
80	Nonlinear damping in mechanical resonators made from carbon nanotubes and graphene. <i>Nature Nanotechnology</i> , 2011 , 6, 339-42	28.7	458
79	Graphene oxide vs. reduced graphene oxide as saturable absorbers for Er-doped passively mode-locked fiber laser. <i>Optics Express</i> , 2012 , 20, 19463-73	3.3	353
78	Temperature-dependent thermal properties of supported MoS2 monolayers. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5061-5	9.5	133
77	Temperature dependence of Raman shifts in layered ReSe2 and SnSe2 semiconductor nanosheets. <i>Applied Physics Letters</i> , 2015 , 107, 013105	3.4	82
76	Temperature-dependent nonlinear phonon shifts in a supported MoS2 monolayer. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8959-63	9.5	71
75	High accuracy determination of the thermal properties of supported 2D materials. <i>Scientific Reports</i> , 2015 , 5, 12422	4.9	61
74	Linearly polarized, Q-switched Er-doped fiber laser based on reduced graphene oxide saturable absorber. <i>Applied Physics Letters</i> , 2012 , 101, 241106	3.4	59
73	Charging and discharging of graphene in ambient conditions studied with scanning probe microscopy. <i>Applied Physics Letters</i> , 2009 , 94, 233105	3.4	52
72	Temperature Evolution of Phonon Properties in Few-Layer Black Phosphorus. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5265-5270	3.8	49
71	Charging and discharging processes of carbon nanotubes probed by electrostatic force microscopy. <i>Journal of Applied Physics</i> , 2006 , 100, 114326	2.5	47
70	High-frequency nanotube mechanical resonators. <i>Applied Physics Letters</i> , 2011 , 99, 213502	3.4	43
69	Study of the absorption coefficient of graphene-polymer composites. <i>Scientific Reports</i> , 2018 , 8, 9132	4.9	41
68	Graphene-based plastic absorber for total sub-terahertz radiation shielding. <i>Nanoscale</i> , 2018 , 10, 13426-13431	4.3	32
67	CNT-based saturable absorbers with scalable modulation depth for Thulium-doped fiber lasers operating at 1.9 μm . <i>Scientific Reports</i> , 2017 , 7, 45491	4.9	31
66	Production of graphene composite by direct graphite exfoliation with chitosan. <i>Materials Chemistry and Physics</i> , 2014 , 148, 507-511	4.4	27
65	Charging and emission effects of multiwalled carbon nanotubes probed by electric force microscopy. <i>Applied Physics Letters</i> , 2005 , 86, 213114	3.4	27
64	168 fs pulse generation from graphene-chitosan mode-locked fiber laser. <i>Optical Materials Express</i> , 2014 , 4, 1981	2.6	25

63	Electric charge enhancements in carbon nanotubes: Theory and experiments. <i>Physical Review B</i> , 2008 , 78,	3.3	25
62	Temperature-dependent thermal properties of single-walled carbon nanotube thin films. <i>Applied Physics Letters</i> , 2015 , 106, 183108	3.4	24
61	Comparison of mechanical and corrosion properties of graphene monolayer on TiAlV and nanometric Nb2O5 layer on TiAlV alloy for dental implants applications. <i>Thin Solid Films</i> , 2015 , 589, 356-363	2.2	23
60	Statistical analysis of the reduction process of graphene oxide probed by Raman spectroscopy mapping. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 475201	1.8	21
59	Temperature induced phonon behaviour in germanium selenide thin films probed by Raman spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 315301	3	19
58	Electrostatic Force Microscopy and Kelvin Force Microscopy as a Probe of the Electrostatic and Electronic Properties of Carbon Nanotubes. <i>Nanoscience and Technology</i> , 2010 , 89-128	0.6	19
57	Phonon properties in different types of single-walled carbon nanotube thin films probed by Raman spectroscopy. <i>Carbon</i> , 2016 , 105, 377-386	10.4	19
56	Mechanical and electrochemical properties of Nb2O5, Nb2O5:Cu and graphene layers deposited on titanium alloy (Ti6Al4V). <i>Surface and Coatings Technology</i> , 2015 , 271, 92-99	4.4	18
55	Metallic carbon nanotube-based saturable absorbers for holmium-doped fiber lasers. <i>Optics Express</i> , 2019 , 27, 11361-11369	3.3	18
54	Inner-shell charging of multiwalled carbon nanotubes. <i>Physical Review B</i> , 2008 , 77,	3.3	16
53	Temperature-dependent nonlinear phonon behavior in high-density carbon nanotube thin films. <i>Applied Physics Letters</i> , 2014 , 105, 213105	3.4	13
52	Laser induced temperature effects in multi-walled carbon nanotubes probed by Raman spectroscopy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 313-316	1.6	13
51	Electron counting spectroscopy of CdSe quantum dots. <i>Physical Review Letters</i> , 2009 , 102, 226804	7.4	13
50	Characterization of ion/electron beam induced deposition of electrical contacts at the sub- μm scale. <i>Microelectronic Engineering</i> , 2011 , 88, 1569-1572	2.5	12
49	Determination of structural, mechanical and corrosion properties of titanium alloy surface covered by hybrid system based on graphene monolayer and silicon nitride thin films. <i>Thin Solid Films</i> , 2015 , 583, 212-220	2.2	11
48	Complex Conductivity of YBCO Films in Normal and Superconducting States Probed by Microwave Measurements. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 1501011-1501011	1.8	11
47	Polarization-dependent optical reflection from vertically aligned multiwalled carbon nanotube arrays. <i>Carbon</i> , 2013 , 64, 550-552	10.4	11
46	Comparison of structural, mechanical and corrosion properties of thin TiO2/graphene hybrid systems formed on TiAlV alloys in biomedical applications. <i>Surface and Coatings Technology</i> , 2016 , 290, 124-134	4.4	10

45	Charge Blinking Statistics of Semiconductor Nanocrystals Revealed by Carbon Nanotube Single Charge Sensors. <i>Nano Letters</i> , 2015 , 15, 6349-56	11.5	10
44	Raman spectroscopy of layered lead tin disulfide (PbSnS ₂) thin films. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 479-484	2.3	10
43	Wavelength- and dispersion-tunable ultrafast holmium-doped fiber laser with dual-color operation. <i>Optics Letters</i> , 2020 , 45, 956-959	3	10
42	Hydrogen intercalation of CVD graphene on germanium (001) strain and doping analysis using Raman spectroscopy. <i>Applied Surface Science</i> , 2019 , 473, 203-208	6.7	10
41	Thermal properties of thin films made from MoS nanoflakes and probed via statistical optothermal Raman method. <i>Scientific Reports</i> , 2019 , 9, 13338	4.9	9
40	Comment on "electrostatics of individual single-walled carbon nanotubes investigated by electrostatic force microscopy". <i>Physical Review Letters</i> , 2006 , 96, 039703; discussion 039704	7.4	9
39	Substrate-Induced Variances in Morphological and Structural Properties of MoS Grown by Chemical Vapor Deposition on Epitaxial Graphene and SiO. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45101-45110	9.5	10
38	Terahertz Shielding Properties of Carbon Black Based Polymer Nanocomposites. <i>Materials</i> , 2021 , 14,	3.5	9
37	Study of optical properties of graphene flakes and its derivatives in aqueous solutions. <i>Optics Express</i> , 2020 , 28, 7274-7281	3.3	8
36	Carbon-based terahertz absorbers: Materials, applications, and perspectives. <i>Nano Select</i> , 2020 , 1, 471-490	4.9	8
35	Microwave complex conductivity of the YBCO thin films as a function of static external magnetic field. <i>Applied Physics Letters</i> , 2014 , 104, 102603	3.4	7
34	Statistical analysis of the temperature dependence of the phonon properties in supported CVD graphene. <i>Carbon</i> , 2017 , 124, 1-8	10.4	7
33	Laser heating control with polarized light in isolated multiwalled carbon nanotubes. <i>Physical Review Letters</i> , 2012 , 108, 225501	7.4	7
32	Ultraviolet to far-infrared transmission properties of thin film multi-walled carbon nanotube random networks. <i>Journal of Materials Science</i> , 2017 , 52, 3086-3094	4.3	6
31	The hybrid graphene multilayer system (graphene/SiN/graphene) coupled with titanium alloy (Ti6Al4V) structural, mechanical and corrosion characterisation. <i>Thin Solid Films</i> , 2015 , 596, 101-110	2.2	6
30	Optimization of Ultra-Thin Pulsed-DC Magnetron Sputtered Aluminum Films for the Technology of Hyperbolic Metamaterials. <i>Crystals</i> , 2020 , 10, 384	2.3	6
29	Limitations of blackbody behavior of vertically aligned multi-walled carbon nanotubes arrays. <i>Materials Letters</i> , 2014 , 137, 85-87	3.3	6
28	Impact of germanium substrate orientation on morphological and structural properties of graphene grown by CVD method. <i>Applied Surface Science</i> , 2020 , 499, 143913	6.7	6

27	Temperature-induced phonon behavior in titanium disulfide (TiS ₂) nanosheets. <i>Journal of Raman Spectroscopy</i> , 2019 , 50, 1114-1119	2.3	5
26	Temperature dependence of phonon properties in CVD MoS nanostructures - a statistical approach. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 15486-15495	3.6	5
25	Time Dependence of Photocurrent in Chemical Vapor Deposition MoS ₂ Monolayer Intrinsic Properties and Environmental Effects. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 18741-18746	3.8	4
24	Terahertz time domain spectroscopy of graphene and MXene polymer composites. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49962	2.9	4
23	Synthesis of Carbon Nanotubes from Propane. <i>Chemical Vapor Deposition</i> , 2015 , 21, 94-98		3
22	Technology and optimization of hafnium oxynitride (HfO _x N _y) thin-films formed by pulsed-DC reactive magnetron sputtering for MIS devices. <i>Microelectronic Engineering</i> , 2020 , 228, 111332	2.5	3
21	Energy transfer from natural photosynthetic complexes to single-wall carbon nanotubes. <i>Journal of Luminescence</i> , 2016 , 170, 855-859	3.8	3
20	Characterization of Finite-Width Ground Coplanar Waveguides on High Resistivity Silicon With Ultralow Metallization Thickness. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 4836-4842	4.1	3
19	Study of Structural and Optoelectronic Properties of Thin Films Made of a Few Layered WS Flakes. <i>Materials</i> , 2020 , 13,	3.5	3
18	Doping and plasmonic Raman enhancement in hybrid single walled carbon nanotubes films with embedded gold nanoparticles. <i>Carbon</i> , 2021 , 179, 531-540	10.4	3
17	Magnetotransport studies of Ga(Mn,Fe)N bulk crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 198-201		2
16	Graphene Infused Ecological Polymer Composites for Electromagnetic Interference Shielding and Heat Management Applications. <i>Materials</i> , 2021 , 14,	3.5	2
15	Suspended graphene on germanium: Selective local etching via laser-induced photocorrosion of germanium. <i>2D Materials</i> ,	5.9	2
14	Phonon and Thermal Properties of Thin Films Made from WS ₂ Mono- and Few-Layer Flakes. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14446-14452	3.8	2
13	Kinetics of the thermal reduction process in graphene oxide thin films from in-situ transport measurements. <i>Materials Research Express</i> , 2021 , 8, 015601	1.7	2
12	Complexity of temperature-dependent Raman spectra and phonons properties on the example of carbon nanotubes thin films. <i>Journal of Raman Spectroscopy</i> , 2020 , 51, 1996-2006	2.3	1
11	Characterization of the CVD Graphene Monolayer as an Active Element of a One-Port Microwave Device. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 4340-4345	2.9	1
10	Light polarized resonant Raman spectra from individual single- and double-wall carbon nanotubes. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 2056-2059		1

9	Optical Interference Effects in Visible-Near Infrared Spectral Range for Arrays of Vertically Aligned Multiwalled Carbon Nanotubes. <i>Acta Physica Polonica A</i> , 2017 , 131, 232-236	0.6	1
8	Broadband Metallic Carbon Nanotube Saturable Absorber for Ultrashort Pulse Generation in the 1500–100 nm Spectral Range. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3121	2.6	1
7	Determination of the electronic transport in type separated carbon nanotubes thin films doped with gold nanocrystals. <i>Scientific Reports</i> , 2021 , 11, 16690	4.9	1
6	Three-step, transfer-free growth of MoS ₂ /WS ₂ /graphene vertical van der Waals heterostructure. <i>2D Materials</i> , 2022 , 9, 025030	5.9	0
5	Microwave Resistivity of Thermally Oxidized High Resistivity Silicon Wafers. <i>Journal of Electronic Materials</i> , 2017 , 46, 5589-5592	1.9	
4	Fundamental studies in nanosciences at the Institute of Electronics, Microelectronics, and Nanotechnology (IEMN). <i>International Journal of Nanotechnology</i> , 2008 , 5, 631	1.5	
3	Wavelength- and dispersion-tunable ultrafast holmium-doped fiber laser with dual-color operation: publisher's note. <i>Optics Letters</i> , 2020 , 45, 1280	3	
2	Novel Approach for Energy Spectrum Probing in Semiconducting Quantum Dots. <i>Acta Physica Polonica A</i> , 2012 , 122, 321-323	0.6	
1	The Effect of Graphene Monolayer on Structural, Mechanical and Corrosion Properties of Multi-Coating System, Based on SiN Thin Film, Deposited on Ti6Al4V Alloy Surface 2016 , 1853-1862		