Marcin Gnyba

List of Publications by Year
in descending order

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51 papers	740 citations	567281 15 h-index	526287 27 g-index
51 all docs	51 docs citations	51 times ranked	931 citing authors

#	Article	IF	Citations
1	Influence of the boron doping level on the electrochemical oxidation of the azo dyes at Si/BDD thin film electrodes. Diamond and Related Materials, 2013, 39, 82-88.	3.9	116
2	Boron-Enhanced Growth of Micron-Scale Carbon-Based Nanowalls: A Route toward High Rates of Electrochemical Biosensing. ACS Applied Materials & Interfaces, 2017, 9, 12982-12992.	8.0	75
3	Optical and electrical properties of ultrathin transparent nanocrystalline boron-doped diamond electrodes. Optical Materials, 2015, 42, 24-34.	3.6	46
4	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. Analytical Chemistry, 2020, 92, 15745-15756.	6.5	46
5	Electrochemically assisted deposition of hydroxyapatite on Ti6Al4V substrates covered by CVD diamond films â€" Coating characterization and first cell biological results. Materials Science and Engineering C, 2016, 59, 624-635.	7.3	45
6	Optical and electrical properties of boron doped diamond thin conductive films deposited on fused silica glass substrates. Applied Surface Science, 2016, 387, 846-856.	6.1	43
7	Algorithms of Chemicals Detection Using Raman Spectra. Metrology and Measurement Systems, 2010, 17, 549-559.	1.4	39
8	Improved surface coverage of an optical fibre with nanocrystalline diamond by the application of dip-coating seeding. Diamond and Related Materials, 2015, 55, 52-63.	3.9	37
9	Amperometric sensing of chemical oxygen demand at glassy carbon and silicon electrodes modified with boron-doped diamond. Sensors and Actuators B: Chemical, 2013, 189, 30-36.	7.8	31
10	Electrochemical oxidation of ionic liquids at highly boron doped diamond electrodes. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1797-1803.	1.8	26
11	Portable Raman spectrometer - design rules and applications. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2011, 59, 325-329.	0.8	23
12	Nucleation and growth of <scp>CVD</scp> diamond on fused silica optical fibres with titanium dioxide interlayer. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1991-1997.	1.8	21
13	Low-Coherence Fibre-Optic Interferometric Sensors. Acta Physica Polonica A, 2011, 120, 621-624.	0.5	21
14	Optical Investigation of Hematocrit Level in Human Blood. Acta Physica Polonica A, 2011, 120, 642-646.	0.5	17
15	Electrochemical oxidation of sulphamerazine at boronâ€doped diamond electrodes: Influence of boron concentration. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2040-2047.	1.8	16
16	Optoelectronic monitoring of plasma discharge optimized for thin diamond film synthesis. European Physical Journal Special Topics, 2006, 137, 57-60.	0.2	15
17	Determination of Chemical Oxygen Demand (COD) at Boron-doped Diamond (BDD) Sensor by Means of Amperometric Technique. Procedia Engineering, 2012, 47, 1117-1120.	1.2	15
18	Optical and structural properties of polycrystalline CVD diamond films grown on fused silica optical fibres pre-treated by high-power sonication seeding. Applied Physics A: Materials Science and Processing, 2014, 116, 1927-1937.	2.3	15

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19	Synthesis and Characterization of Optical Solâ€“Gel Adhesive for Military Protective Polycarbonate Resin. Journal of Sol-Gel Science and Technology, 2004, 31, 369-372.	2.4	14
20	Fiber-optic temperature sensor using low-coherence interferometry. European Physical Journal: Special Topics, 2008, 154, 107-111.	2.6	14
21	Blood equivalent phantom vs whole human blood, a comparative study. Journal of Innovative Optical Health Sciences, 2016, 09, 1650012.	1.0	13
22	Opto-Electrochemical Sensing Device Based on Long-Period Grating Coated with Boron-Doped Diamond Thin Film. Journal of the Optical Society of Korea, 2015, 19, 705-710.	0.6	11
23	Spectroscopic wireless sensor of hematocrit level. Sensors and Actuators A: Physical, 2013, 202, 8-12.	4.1	7
24	Application of BDD thin film electrode for electrochemical decomposition of heterogeneous aromatic compounds. Open Physics, 2012, 10, .	1.7	6
25	Gas Composition Influence on the Properties of Boron-Doped Diamond Films Deposited on the Fused Silica. Materials Science-Poland, 2018, 36, 288-296.	1.0	6
26	Design and simulation of excitation laser system for in-situ Raman monitoring. European Physical Journal: Special Topics, 2007, 144, 209-214.	2.6	4
27	<title>Optical investigation of molecular structure of sophisticated materials for photonics</title>. , 2003, , .		4
28	Optimization of Polycrystalline CVD Diamond Seeding with the Use of sp³/sp²Raman Band Ratio. Acta Physica Polonica A, 2015, 128, 136-140.	0.5	3
29	Raman spectroscopic investigation of blood and related materials. Proceedings of SPIE, 2015, , .	0.8	2
30	Examination of Sol-Gel Derived Hydroxyapatite Enhanced with Silver Nanoparticles using OCT and Raman Spectroscopy. Metrology and Measurement Systems, 2017, 24, 153-160.	1.4	2
31	Raman investigation of minor component reaction during polymer synthesis process. , 2003, , .		1
32	Optical monitoring of thin oil film thickness in extrusion processes. , 2005, , .		1
33	Modelling of optical components made of liquid crystals and liquid crystalline polymers. European Physical Journal Special Topics, 2006, 137, 175-178.	0.2	1
34	Liquid crystalline optical components for application in optical sensing. European Physical Journal: Special Topics, 2008, 154, 235-238.	2.6	1
35	Optical properties of the chemotherapy drugs used in the central nervous system lymphoma therapy: monitoring drug delivery. Proceedings of SPIE, 2015, , .	0.8	1
36	Nanocrystalline diamond microelectrode on fused silica optical fibers for electrochemical and optical sensing. Proceedings of SPIE, 2015, , .	0.8	1

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37	Spectroscopic studies of a ring opening process between epoxy- and aminosilanes and imine formation reactions in aqueous solutions. Journal of Sol-Gel Science and Technology, 2018, 87, 725-733.	2.4	1
38	Experimental verification of a multiband system for non-contact temperature measurements. , 2003, 5258, 198.		0
39	Raman scattering measurements in monitoring of polymer synthesis process. , 2003, , .		0
40	<title>Raman diagnostics in manufacturing of polymer planar optical waveguides</title>. , 2003, 5028, 219.		0
41	Raman and infrared investigation of ferroelectric ceramics. , 2003, 5258, 178.		0
42	<title>Application of sol-gel-developed integrated optic devices to biochemical fiber optic sensors based on polarimetric interferometry</title>. , 2004, , .		0
43	Raman investigation of thin solid films. , 2005, , .		0
44	Raman spectroscopy in investigation of rheometric processes. , 2005, , .		0
45	Detection of propofol concentrations in blood by Raman spectroscopy. , 2015, , .		0
46	Absorption spectroscopy setup for determination of whole human blood and bloodâ€“derived materials spectral characteristics. , 2015, , .		0
47	Combined analysis of whole human blood parameters by Raman spectroscopy and spectral-domain low-coherence interferometry. , 2015, , .		0
48	The Optical Coherence Tomography and Raman Spectroscopy for Sensing of the Bone Demineralization Process. Sensors, 2021, 21, 6468.	3.8	0
49	Boron-Doped Diamond/GaN Heterojunctionâ€”The Influence of the Low-Temperature Deposition. Materials, 2021, 14, 6328.	2.9	0
50	Detection of illicit chemicals by portable Raman spectrometer. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2011, 59, 449-452.	0.8	0
51	Sensing of anesthetic drugs in blood with Raman spectroscopy. , 2015, , .		0