MaÅ‚gorzata JÄ™drzejewska-Szczerska

List of Publications by Year
in descending order

87 papers	788 citations	471061 17 h-index	580395 25 g-index
88 all docs	88 docs citations	88 times ranked	619 citing authors

#	Article	IF	Citations
1	Diamond protection for reusable ZnO coated fiber-optic measurement head in optoelectrochemical investigation of bisphenol A. Measurement: Journal of the International Measurement Confederation, 2022, 189, 110495.	2.5	4
2	Diamond Structures for Tuning of the Finesse Coefficient of Photonic Devices. Materials, 2022, 15, 2552.	1.3	0
3	Predictions of cervical cancer identification by photonic method combined with machine learning. Scientific Reports, 2022, 12, 3762.	1.6	13
4	Temperature Sensors Based on Polymer Fiber Optic Interferometer. Chemosensors, 2022, 10, 228.	1.8	9
5	Incorporation of nitrogen in diamond films â€“ A new way of tuning parameters for optical passive elements. Diamond and Related Materials, 2021, 111, 108221.	1.8	4
6	Inclusive Communication Model Supporting the Employment Cycle of Individuals with Autism Spectrum Disorders. International Journal of Environmental Research and Public Health, 2021, 18, 4696.	1.2	13
7	Measurements of the optical and thermal properties of the 2D black phosphorus coating. Materials Research Express, 2021, 8, 065004.	0.8	2
8	Low-coherence photonic method of electrochemical processes monitoring. Scientific Reports, 2021, 11, 12600.	1.6	3
9	Optical-Fiber Microsphere-Based Temperature Sensors with ZnO ALD Coatingâ€”Comparative Study. Sensors, 2021, 21, 4982.	2.1	0
10	Microsphere structure application for supercapacitor in situ temperature monitoring. Smart Materials and Structures, 2021, 30, 10LT01.	1.8	3
11	Porous Phantoms Mimicking Tissuesâ€”Investigation of Optical Parameters Stability Over Time. Materials, 2021, 14, 423.	1.3	7
12	Implementation of SiN thin film in fiber-optic sensor working in telecommunication range of wavelengths. Scientific Reports, 2021, 11, 22402.	1.6	0
13	Nanocrystalline diamond sheets as protective coatings for fiber-optic measurement head. Carbon, 2020, 156, 104-109.	5.4	9
14	ZnO ALD-Coated Microsphere-Based Sensors for Temperature Measurements. Sensors, 2020, 20, 4689.	2.1	7
15	Microscale diamond protection for a ZnO coated fiber optic sensor. Scientific Reports, 2020, 10, 19141.	1.6	7
16	Nanodiamond phantoms mimicking human liver: perspective to calibration of T1 relaxation time in magnetic resonance imaging. Scientific Reports, 2020, 10, 6446.	1.6	5
17	Stress Monitoring System for Individuals With Autism Spectrum Disorders. IEEE Access, 2020, 8, 228236-228244.	2.6	19
18	Doped Nanocrystalline Diamond Films as Reflective Layers for Fiber-Optic Sensors of Refractive Index of Liquids. Materials, 2019, 12, 2124.	1.3	16

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19	ZnO coated fiber optic microsphere sensor for the enhanced refractive index sensing. Sensors and Actuators A: Physical, 2019, 298, 111594.	2.0	12
20	Preparation and Characterization of Microsphere ZnO ALD Coating Dedicated for the Fiber-Optic Refractive Index Sensor. Nanomaterials, 2019, 9, 306.	1.9	22
21	Labelâ€free optical detection of cyclosporine in biological fluids. Journal of Biophotonics, 2019, 12, e201800273.	1.1	4
22	Support for Employees with ASD in the Workplace Using a Bluetooth Skin Resistance Sensorâ€“A Preliminary Study. Sensors, 2018, 18, 3530.	2.1	21
23	Lowâ€Coherence Interferometer with Nanocrystalline Diamond Films with Potential Application to Measure Small Biological Samples. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800244.	0.8	0
24	Nitrogen-Doped Diamond Film for Optical Investigation of Hemoglobin Concentration. Materials, 2018, 11, 109.	1.3	10
25	Optical-Spectrometry-Based Method for Immunosuppressant Medicine Level Detection in Aqueous Solutions. Sensors, 2018, 18, 2001.	2.1	1
26	Nanolayers in Fiber-Optic Biosensing. , 2018, , 395-426.		3
27	Non invasive optical cellular imaging in humans. Photonics Letters of Poland, 2018, 10, 60.	0.2	1
28	Nitrogen-doped diamond thin films: potential application in Fabry-PÃ©rot interferometer. , 2018, , .		0
29	Model of optical phantoms thermal response upon irradiation with 975 nm dermatological laser. , 2018, , .		0
30	Enhancement of fiber-optic low-coherence Fabry-PÃ©rot interferometer with ZnO ALD films. , 2018, , .		0
31	The influence of small amount of substances present in tissue on immunosuppressive drug optical spectrum. Photonics Letters of Poland, 2018, 10, 79.	0.2	0
32	Application of the laser diode with central wavelength 975Ânm for the therapy of neurofibroma and hemangiomas. Journal of Biomedical Optics, 2017, 22, 010502.	1.4	5
33	Feasibility study of a Raman spectroscopic route to drug detection. , 2017, , .		1
34	Full scattering profile of circular optical phantoms mimicking biological tissue. , 2017, , .		0
35	Low-coherence sensors with nanolayers for biomedical sensing. , 2017, , .		0
36	Tailoring the Optical Parameters of Optical Fiber Interferometer With Dedicated Boronâ€Doped Nanocrystalline Diamond Thin Film. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700222.	0.8	7

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37	Tailoring the Optical Parameters of Optical Fiber Interferometer With Dedicated Boronâ€Doped Nanocrystalline Diamond Thin Film (Phys. Status Solidi A 11â•2017). Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1770164.	0.8	1
38	A special issue on Biophotonics in Europe. Frontiers of Optoelectronics, 2017, 10, 203-210.	1.9	2
39	Haemocompatibility of Modified Nanodiamonds. Materials, 2017, 10, 352.	1.3	30
40	Low-Coherence Interferometric Fiber-Optic Sensors with Potential Applications as Biosensors. Sensors, 2017, 17, 261.	2.1	40
41	Prototype of an opto-capacitive probe for non-invasive sensing cerebrospinal fluid circulation. , 2017, , .		0
42	The silver layers in fiber-optic sensors. , 2017, , .		0
43	Application of Thin ZnO ALD Layers in Fiber-Optic Fabry-PÃ©rot Sensing Interferometers. Sensors, 2016, 16, 416.	2.1	38
44	Experimental results of full scattering profile from finger tissue-like phantom. Biomedical Optics Express, 2016, 7, 4695.	1.5	17
45	Computer-aided analysis of signals from a low-coherence Fabry-Perot interferometer used for measurements of biological samples. Proceedings of SPIE, 2016, , .	0.8	0
46	Introductory investigations of dermatologic diode laser with wavelengths 975 nm: clinical therapy of Recklinghausen disease and of hemangiomas. Proceedings of SPIE, 2016, , .	0.8	0
47	Application of thin dielectric films in low coherence fiber-optic Fabry-PÃ©rot sensing interferometers: comparative study. , 2016, , .		1
48	Application of boron-doped diamond film and ZnO layer in the Fabry-PÃ©rot interferometer. Proceedings of SPIE, 2016, , .	0.8	1
49	Nanoparticle-free tissue-mimicking phantoms with intrinsic scattering. Biomedical Optics Express, 2016, 7, 2088.	1.5	33
50	Blood equivalent phantom vs whole human blood, a comparative study. Journal of Innovative Optical Health Sciences, 2016, 09, 1650012.	0.5	13
51	Optoelectronic investigation of nanodiamond interactions with human blood. Proceedings of SPIE, 2016, , .	0.8	0
52	Application of thin diamond films in low-coherence fiber-optic Fabry PÃ©rot displacement sensor. Diamond and Related Materials, 2016, 64, 169-176.	1.8	36
53	Biophotonic low-coherence sensors with boron-doped diamond thin layer. Proceedings of SPIE, 2016, , .	0.8	0
54	Diamond-based protective layer for optical biosensors. , 2016, , .		1

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55	Sensors for Rapid Detection of Environmental Toxicity in Blood of Poisoned People. Advanced Sciences and Technologies for Security Applications, 2016, , 413-430.	0.4	0
56	Haemocompatibility Of Non-Functionalized And Plasmachemical Functionalized Detonation Nanodiamond Particles. Archives of Metallurgy and Materials, 2015, 60, 2183-2189.	0.6	7
57	Raman spectroscopic investigation of blood and related materials. Proceedings of SPIE, 2015, , .	0.8	2
58	Measurements of fundamental properties of homogeneous tissue phantoms. Journal of Biomedical Optics, 2015, 20, 045004.	1.4	48
59	The use of low-coherence interferometer for sugar content determination. Proceedings of SPIE, 2015, , .	0.8	0
60	Optical properties of the chemotherapy drugs used in the central nervous system lymphoma therapy: monitoring drug delivery. Proceedings of SPIE, 2015, , .	0.8	1
61	Detection of propofol concentrations in blood by Raman spectroscopy. , 2015, , .		0
62	Multi-layered tissue head phantoms for noninvasive optical diagnostics. Journal of Innovative Optical Health Sciences, 2015, 08, 1541005.	0.5	49
63	Investigation of photothermolysis therapy of human skin diseases using optical phantoms. Proceedings of SPIE, 2015, , .	0.8	4
64	Spectral reflectance modeling of ZnO layers made with Atomic Layer Deposition for application in optical fiber Fabry-Perot interferometric sensors. , 2015, , .		2
65	System supporting behavioral therapy for children with autism. Journal of Innovative Optical Health Sciences, 2015, 08, 1541008.	0.5	10
66	Use of optical skin phantoms for preclinical evaluation of laser efficiency for skin lesion therapy. Journal of Biomedical Optics, 2015, 20, 085003.	1.4	25
67	Combined analysis of whole human blood parameters by Raman spectroscopy and spectral-domain low-coherence interferometry. , 2015, , .		0
68	ALD thin ZnO layer as an active medium in a fiber-optic Fabryâ€“Perot interferometer. Sensors and Actuators A: Physical, 2015, 221, 88-94.	2.0	40
69	Response of a New Low-Coherence Fabry-Perot Sensor to Hematocrit Levels in Human Blood. Sensors, 2014, 14, 6965-6976.	2.1	29
70	Determination of refractive index dispersion using fiber-optic low-coherence Fabryâ€“Perot interferometer: implementation and validation. Optical Engineering, 2014, 53, 077103.	0.5	20
71	Selection of physiological parameters for optoelectronic system supporting behavioral therapy of autistic children. Proceedings of SPIE, 2014, , .	0.8	3
72	Spectroscopic wireless sensor of hematocrit level. Sensors and Actuators A: Physical, 2013, 202, 8-12.	2.0	7

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73	Measurement of complex refractive index of human blood by low-coherence interferometry. European Physical Journal: Special Topics, 2013, 222, 2367-2372.	1.2	20
74	Optimization of a Fabry-Perot Sensing Interferometer Design for an Optical Fiber Sensor of Hematocrit Level. Acta Physica Polonica A, 2013, 124, 586-588.	0.2	16
75	Spectroscopic and Wireless Sensor of Hematocrit Level. Procedia Engineering, 2012, 47, 156-159.	1.2	2
76	Low-Coherence Fibre-Optic Interferometric Sensors. Acta Physica Polonica A, 2011, 120, 621-624.	0.2	21
77	Optical Investigation of Hematocrit Level in Human Blood. Acta Physica Polonica A, 2011, 120, 642-646.	0.2	17
78	Polarization sensitive optical coherence tomography for technical materials investigation. Sensors and Actuators A: Physical, 2008, 142, 104-110.	2.0	17
79	Fiber-optic temperature sensor using low-coherence interferometry. European Physical Journal: Special Topics, 2008, 154, 107-111.	1.2	14
80	Shaping coherence function of sources used in low-coherent measurement techniques. European Physical Journal: Special Topics, 2007, 144, 203-208.	1.2	10
81	Theoretical and experimental investigation of Optical Coherent Tomography topologies. European Physical Journal Special Topics, 2006, 137, 149-152.	0.2	1
82	<title>Modeling of broadband light source to use with optical coherent tomography system</title>. , 2006, 6159, 870.		0
83	<title>Synthesized light source for optical coherence tomograph</title>. , 2006, 6159, 862.		0
84	<title>An optical low-coherence system for 2-dimensional visualization of thin polymer layers</title>. , 2006, 6159, 880.		0
85	<title>Fiber-optic low-coherence tomography system for visualization of internal structure of ceramic materials</title>. , 2006, 6159, 876.		0
86	Theoretical and experimental investigation of low-noise optoelectronic system configurations for low-coherent optical signal detection. European Physical Journal Special Topics, 2006, 137, 107-110.	0.2	2
87	Microsphere-based Fiber-Optic Sensors with ALD ZnO Coatings for Refractive Index and Temperature Measurements. , 0, , .		0