

Halina Podbielska

List of Publications by Year in descending order

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125
papers

1,122
citations

471371

17
h-index

477173

29
g-index

128
all docs

128
docs citations

128
times ranked

1528
citing authors

#	ARTICLE	IF	CITATIONS
1	On the application of multi-parametric optical phenotyping of bacterial colonies for multipurpose microbiological diagnostics. <i>Biosensors and Bioelectronics</i> , 2021, 172, 112761.	5.3	13
2	Impact of Liposomal Drug Formulations on the RBCs Shape, Transmembrane Potential, and Mechanical Properties. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1710.	1.8	0
3	Bacteria Single-Cell and Photosensitizer Interaction Revealed by Quantitative Phase Imaging. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5068.	1.8	11
4	Caution, "normal" BMI: health risks associated with potentially masked individual underweight" EPMA Position Paper 2021. <i>EPMA Journal</i> , 2021, 12, 243-264.	3.3	70
5	Superficial temperature distribution patterns before and after physical activity in school children are indicative for personalized exercise coaching and disease prevention. <i>EPMA Journal</i> , 2021, 12, 435-447.	3.3	4
6	Functionalization with a VEGFR2-binding antibody fragment leads to enhanced endothelialization of a cardiovascular stent in vitro and in vivo. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 213-224.	1.6	8
7	Antibody CD133 Biofunctionalization of Ammonium Acryloyldimethyltaurate and Vinylpyrrolidone Co-Polymer-Based Coating of the Vascular Implants. <i>Materials</i> , 2020, 13, 5634.	1.3	4
8	Development of the Correction Algorithm to Limit the Deformation of Bacterial Colonies Diffraction Patterns Caused by Misalignment and Its Impact on the Bacteria Identification in the Proposed Optical Biosensor. <i>Sensors</i> , 2020, 20, 5797.	2.1	2
9	Profound Nanoscale Structural and Biomechanical Changes in DNA Helix upon Treatment with Anthracycline Drugs. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4142.	1.8	6
10	Implementation of artificial intelligence and non-contact infrared thermography for prediction and personalized automatic identification of different stages of cellulite. <i>EPMA Journal</i> , 2020, 11, 17-29.	3.3	15
11	Photoactive Liposomal Formulation of PVP-Conjugated Chlorin e6 for Photodynamic Reduction of Atherosclerotic Plaque. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3852.	1.8	13
12	Photoactive Pore Matrix for In Situ Delivery of a Photosensitizer in Vascular Smooth Muscle Cells Selective PDT. <i>Materials</i> , 2019, 12, 4110.	1.3	4
13	Functionalized CD133 antibody coated stent surface simultaneously promotes EPCs adhesion and inhibits smooth muscle cell proliferation "A novel approach to prevent in-stent restenosis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 174, 587-597.	2.5	15
14	Integrated multi-channel optical system for bacteria characterization and its potential use for monitoring of environmental bacteria. <i>Biomedical Optics Express</i> , 2019, 10, 1165.	1.5	10
15	The influence of smartphones' operation modes on the superficial temperature distribution in the human auricle region. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 133, 559-569.	2.0	13
16	Non-contact thermal imaging as potential tool for personalized diagnosis and prevention of cellulite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 133, 571-578.	2.0	10
17	Alterations of biomechanics in cancer and normal cells induced by doxorubicin. <i>Biomedicine and Pharmacotherapy</i> , 2018, 97, 1195-1203.	2.5	31
18	Application of thermal imaging to assess the superficial skin temperature distribution after local cryotherapy and ultrasound. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 2049-2055.	2.0	7

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19	Biocompatible Carbon-Based Coating as Potential Endovascular Material for Stent Surface. BioMed Research International, 2018, 2018, 1-10.	0.9	8
20	Nano-silver modified silica particles in antibacterial photodynamic therapy. Applied Surface Science, 2018, 461, 260-268.	3.1	30
21	Severity of Cellulite Classification Based on Tissue Thermal Imaging. Lecture Notes in Computer Science, 2018, , 179-190.	1.0	2
22	Towards dosimetry for photodynamic diagnosis with the low-level dose of photosensitizer. Journal of Photochemistry and Photobiology B: Biology, 2017, 173, 333-343.	1.7	8
23	Stainless steel surface functionalization for immobilization of antibody fragments for cardiovascular applications. Journal of Biomedical Materials Research - Part A, 2016, 104, 821-832.	2.1	23
24	Selective condensation of DNA by aminoglycoside antibiotics. European Biophysics Journal, 2016, 45, 287-299.	1.2	13
25	Photocatalytic and Antimicrobial Activity of Titania Nanoparticles. , 2016, , 193-208.		1
26	Nanosilver and Silver-Doped Nanomaterials. , 2016, , 209-224.		1
27	Intracoronary Application of TiO ₂ -Coated Cardiovascular Stents. , 2016, , 279-296.		1
28	Washable, Photosterilisable Antimicrobial Textiles. , 2016, , 317-332.		0
29	Durability of Antimicrobial Textiles. , 2016, , 333-347.		0
30	The cellular internalization of liposome encapsulated protoporphyrin IX by HeLa cells. European Journal of Pharmaceutical Sciences, 2016, 85, 39-46.	1.9	23
31	Novel Perspectives on the Characterization of Species-Dependent Optical Signatures of Bacterial Colonies by Digital Holography. PLoS ONE, 2016, 11, e0150449.	1.1	11
32	Comparison of the skin surface temperature on the front of thigh after application of combined red-IR radiation and diadynamic currents executed in a different sequence. Journal of Thermal Analysis and Calorimetry, 2015, 120, 921-928.	2.0	14
33	Application of thermovision for analysis of superficial temperature distribution changes after physiotherapy. Journal of Thermal Analysis and Calorimetry, 2015, 120, 261-267.	2.0	18
34	Analysis of metal surfaces coated with europium-doped titanium dioxide by laser induced breakdown spectroscopy. Acta of Bioengineering and Biomechanics, 2015, 17, 33-40.	0.2	0
35	Bacteria identification in an optical system with optimized diffraction pattern registration condition supported by enhanced statistical analysis. Optics Express, 2014, 22, 26312.	1.7	15
36	Biocidal effect and durability of nano-TiO ₂ coated textiles to combat hospital acquired infections. RSC Advances, 2014, 4, 19945.	1.7	31

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37	Photoactivated titania-based nanomaterials for potential application as cardiovascular stent coatings. <i>Biocybernetics and Biomedical Engineering</i> , 2014, 34, 189-197.	3.3	11
38	Application of thermovision for estimation of the optimal and safe parameters of the whole body cryotherapy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 1853-1859.	2.0	15
39	Identification of bacteria species by using morphological and textural properties of bacterial colonies diffraction patterns. , 2013, , .		3
40	Bacteria species identification by the statistical analysis of bacterial colonies Fresnel patterns. <i>Optics Express</i> , 2013, 21, 11322.	1.7	27
41	Degeneration of Fraunhofer diffraction on bacterial colonies due to their light focusing properties examined in the digital holographic microscope system. <i>Optics Express</i> , 2013, 21, 26493.	1.7	8
42	General Report & Recommendations in Predictive, Preventive and Personalised Medicine 2012: White Paper of the European Association for Predictive, Preventive and Personalised Medicine. <i>EPMA Journal</i> , 2012, 3, 14.	3.3	218
43	Computer-based classification of bacteria species by analysis of their colonies Fresnel diffraction patterns. , 2012, , .		6
44	Bacteria Classification by Means of the Statistical Analysis of Fresnel Diffraction Patterns of Bacteria Colonies. , 2012, , .		4
45	Influence of various growth conditions on Fresnel diffraction patterns of bacteria colonies examined in the optical system with converging spherical wave illumination. <i>Optics Express</i> , 2011, 19, 21768.	1.7	23
46	In situ photoexcitation of silver-doped titania nanopowders for activity against bacteria and yeasts. <i>Journal of Colloid and Interface Science</i> , 2011, 362, 50-57.	5.0	44
47	Nanotechnology for biomedical applications - enhancement of photodynamic activity by nanomaterials. <i>Bulletin of the Polish Academy of Sciences: Technical Sciences</i> , 2011, 59, 253-261.	0.8	8
48	Modeling the influence of LASIK surgery on optical properties of the human eye. <i>Journal of Modern Optics</i> , 2011, 58, 1880-1888.	0.6	0
49	Silver doped nanomaterials and their possible use for antibacterial photodynamic activity. , 2011, , .		0
50	Diffraction signature of bacteria colonies and the influence of different incubation conditions. , 2011, , .		1
51	Image processing guided analysis for estimation of bacteria colonies number by means of optical transforms. <i>Optics Express</i> , 2010, 18, 12992.	1.7	14
52	Evaluation of Antibacterial Agents Activity. <i>Advances in Intelligent and Soft Computing</i> , 2010, , 341-351.	0.2	1
53	Optical sensing of bacteria by means of light diffraction. , 2010, , .		1
54	Exploiting of optical transforms for bacteria evaluation in vitro. <i>Proceedings of SPIE</i> , 2009, , .	0.8	5

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55	Exploiting of optical transforms for bacteria evaluation in vitro. , 2009, , .		2
56	Investigations on photolon-and porphyrin-doped sol-gel fiberoptic coatings for laser-assisted applications in medicine. Laser Physics, 2008, 18, 63-72.	0.6	18
57	Silica sol-gel matrix doped with Photolon molecules for sensing and medical therapy purposes. New Biotechnology, 2007, 24, 425-433.	2.7	23
58	SOL-GELS FOR OPTICAL SENSORS. , 2006, , 353-385.		6
59	<title>Photoactive sol-gel biocoatings</title>. , 2006, , .		0
60	<title>Examination of light distribution from sol-gel based applicators for interstitial laser therapy</title>. , 2006, 6158, 254.		0
61	<title>Examination of light distribution from fibers coated with sol-gel films doped with porphyrine</title>. , 2006, , .		0
62	<title>Laser transillumination for diagnosis of rheumatoid arthritis</title>. , 2006, , .		0
63	Interstitial laser coagulation in vitro with sol-gel applicators. Medical Laser Application: International Journal for Laser Treatment and Research, 2006, 21, 35-43.	0.4	2
64	Antimicrobial PDT with chlorophyll-derived photosensitizer and semiconductor laser. Medical Laser Application: International Journal for Laser Treatment and Research, 2006, 21, 177-183.	0.4	26
65	Optical properties of sol-gel fiber optic applicators for laser interstitial therapy. Laser Physics, 2006, 16, 816-826.	0.6	11
66	Human body as a set of biometric features identified by means of optoelectronics. , 2005, , .		0
67	Optical correlators for recognition of human face thermal images. , 2005, 5954, 98.		1
68	Pattern recognition of transillumination images for diagnosis of rheumatoid arthritis. , 2005, 5959, 15.		1
69	<title>Biometric verification of persons based on thermovision</title>. , 2004, , .		0
70	Sol-gel coatings for interstitial fiberoptic laser applicators. Surface and Coatings Technology, 2004, 180-181, 663-669.	2.2	3
71	Examination of sol-gel production repeatability by statistical pattern recognition methods. Optical Engineering, 2003, 42, 1137.	0.5	5
72	Influence of quality of images recorded in far infrared on pattern recognition based on neural networks and Eigenfaces algorithm. , 2003, , .		1

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73	<title>Customized safety features by measuring of spectral characteristics of IR-sensitive taggants</title>. , 2002, , .		0
74	Method for lifetime-based chemical sensing using the demodulation of the luminescence signal. Sensors and Actuators B: Chemical, 2002, 84, 160-166.	4.0	27
75	Optical properties of sol-gel coatings for fiberoptic sensors. Surface and Coatings Technology, 2002, 151-152, 299-302.	2.2	20
76	Investigation of the density fluctuation in sol-gel derived materials by light scattering techniques. Optik, 2001, 112, 550-554.	1.4	0
77	<title>Sol-gel optics for biomeasurements</title>. , 2001, 4597, 75.		0
78	<title>Influence of certain screening masks on human face in far infrared spectral region</title>. , 2001, , .		1
79	<title>Examination of the haemolytic activity of sol-gel materials</title>. , 2001, , .		0
80	<title>Thermal imaging for face recognition in optical security systems</title>. , 2001, , .		1
81	<title>Statistical examination of laser therapy effects in controlled double-blind clinical trial</title>. , 2001, , .		0
82	<title>Identification of oral carcinogenesis using autofluorescence spectroscopy: an in-vivo study</title>. , 2001, , .		0
83	<title>Influence of IR laser radiation on breast carcinoma in rats</title>. , 2001, 4597, 95.		0
84	Examination of the structure of sol-gel derived matrices for optoelectronic sensors. Optical Materials, 2001, 17, 169-173.	1.7	3
85	Transmittance examination in sol-gel derived matrices for optoelectronic applications. Optical Materials, 2001, 17, 247-250.	1.7	4
86	Examination of various shape of sol-gel optodes for indirect fiberoptic sensors. Optik, 2001, 112, 158-162.	1.4	5
87	Interstitial Laser-Induced Thermotherapy (LITT): Comparison of In-Vitro Irradiation Effects of Nd:YAG (1064 nm) and Diode (940 nm) Laser. Medical Laser Application: International Journal for Laser Treatment and Research, 2001, 16, 81-90.	0.4	13
88	<title>Review of optical techniques for protection of documents and other objects</title>. , 2001, , .		0
89	Special Section Guest Editorial. Journal of Biomedical Optics, 1999, 4, 94.	1.4	5
90	<title>Advantages of sol-gel technologies for biomedical applications</title>. , 1999, 3567, 50.		4

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91	<title>Optical parameters of endoscopic devices treated by different sterilization methods</title>. , 1999, 3567, 147.		0
92	Spectroscopic studies of 5,5- $\text{dimethoxy-3,3-disulfobutyl-9-ethylthiacarbocyanine}$ (DDTC) in solutions and immobilized in sol-gel matrices. Journal of Molecular Structure, 1998, 450, 193-200.	1.8	4
93	<title>Laser-induced anti-Stokes luminescence for protection of documents and security papers</title>. , 1998, 3314, 247.		0
94	Special Section Editorial. Journal of Biomedical Optics, 1998, 3, 225.	1.4	0
95	Special Section Editorial. Journal of Biomedical Optics, 1998, 3, 5.	1.4	1
96	<title>Optical properties of a photosensitizer entrapped in sol gel glass</title>. , 1998, 3196, 162.		0
97	<title>Coherent and polarimetric optical technologies for the analysis of tissue structure</title>. , 1997, , .		5
98	<title>Sol gel optodes for environmental and medical applications</title>. , 1997, 2976, 137.		0
99	<title>High-accuracy corneal topographer</title>. , 1996, , .		0
100	<title>Sol-gel materials as possible devices for tissue biomonitring</title>. , 1996, , .		1
101	<title>Double-blind study of the efficacy of laser therapy</title>. , 1996, , .		1
102	Evaluation methods for retrieving information from interferograms of biomedical objects. , 1996, , .		0
103	<title>Interferometric methods for shape measurement of ophthalmic surfaces</title>. , 1996, , .		0
104	Measuring ophthalmologic surfaces by means of moiré deflectometry. Optical Engineering, 1996, 35, 1124.	0.5	16
105	High precision Twyman-Green interferometer for the measurement of ophthalmic surfaces. Acta Ophthalmologica, 1996, 74, 348-353.	0.4	17
106	<title>Computer-aided evaluation of deflectograms from ophthalmologic surfaces</title>. , 1995, , .		0
107	<title>Digital analysis of the fringe pattern images from biomedical objects</title>. , 1995, , .		0
108	Measuring with endoscopes. , 1994, , .		0

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109	<title>Computer-aided analysis of endoscopic fringe pattern images</title>. , 1994, , .		0
110	Speckle photography in biomechanical testing. , 1994, , .		3
111	Biomechanical investigation of the hyoid bone using speckle interferometry. International Journal of Legal Medicine, 1993, 106, 132-134.	1.2	6
112	<title>Endoscopic measurements by holographic and nonholographic optical methods</title>. , 1993, 1889, 224.		1
113	<title>Fiberoptic optical systems and their applications</title>. , 1992, 1553, 516.		0
114	<title>Acceleration and holographic studies on different types of dynamization of external fixators of the bones</title>. , 1992, 1647, 173.		1
115	<title>Speckle photography for investigation of bones supported by different fixing devices</title>. , 1991, , .		2
116	<title>Trends in holographic endoscopy</title>. , 1991, , .		0
117	Endoscopic profilometry. Optical Engineering, 1991, 30, 1981.	0.5	3
118	Endoscopic optical metrology: the possibilities of holographic interferometry. , 1990, , .		2
119	Biomechanical testing in experimental surgery by laser holography. , 1990, , .		0
120	Holographic Interferometry In Biomedicine. Proceedings of SPIE, 1990, 1121, 179.	0.8	0
121	Holographic Interferometry in Experimental Biomechanics-Review. , 1990, , 296-299.		0
122	Human Tibia Rigidity Examined In Bending And Torsion Loading By Using Double-Exposure Holographic Interferometry. , 1989, 1026, 196.		0
123	Mechanical Reaction Of Human Skull Bones To External Load Examined By Holographic Interferometry. , 1988, , .		3
124	Holographic Investigation Of Different Types Of Surgical Fixing Devices. Proceedings of SPIE, 1988, , .	0.8	4
125	Nonlinear effects of the recording material on the image quality of a Fourier hologram. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 843.	0.8	9