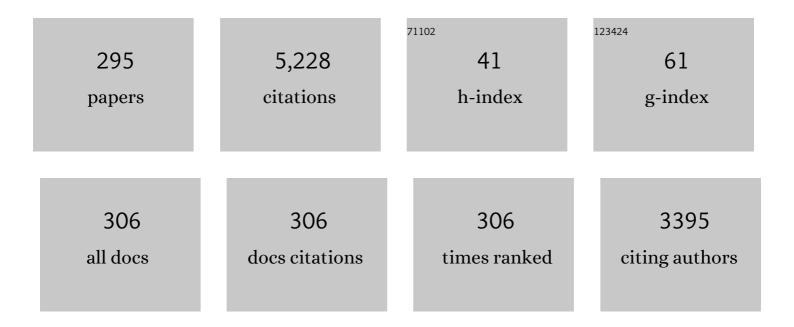
## Igor V Meglinski

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Diagnosis of Skin Vascular Complications Revealed by Time-Frequency Analysis and Laser Doppler Spectrum Decomposition. IEEE Transactions on Biomedical Engineering, 2023, 70, 3-14.	4.2	6
2	Blood–nanomaterials interactions. , 2022, , 1-40.		0
3	Screening of Alzheimer's Disease With Multiwavelength Stokes Polarimetry in a Mouse Model. IEEE Transactions on Medical Imaging, 2022, 41, 977-982.	8.9	10
4	Polarization-Based Histopathology Classification of Ex Vivo Colon Samples Supported by Machine Learning. Frontiers in Physics, 2022, 9, .	2.1	21
5	Hemorheological alterations of red blood cells induced by 450-nm and 520-nm laser radiation. Journal of Photochemistry and Photobiology B: Biology, 2022, 230, 112438.	3.8	4
6	Photoacoustic Imaging in Biomedicine and Life Sciences. Life, 2022, 12, 588.	2.4	16
7	Luminescent upconversion nanoparticles evaluating temperature-induced stress experienced by aquatic organisms owing to environmental variations. IScience, 2022, 25, 104568.	4.1	2
8	Multiplexed spatially-focused localization of light in adipose biological tissues. Scientific Reports, 2022, 12, .	3.3	5
9	Evolution of raw meat polarizationâ€based properties by means of Mueller matrix imaging. Journal of Biophotonics, 2021, 14, e202000376.	2.3	12
10	In vivo nano-biosensing element of red blood cell-mediated delivery. Biosensors and Bioelectronics, 2021, 175, 112845.	10.1	20
11	Methods and Means of Polarization Correlation of Fields of Laser Radiation Scattered by Biological Tissues. SpringerBriefs in Applied Sciences and Technology, 2021, , 1-15.	0.4	Ο
12	Diagnosis of Acute Coronary Insufficiency by the Method of Mueller Matrix Analysis of Myosin Myocardium Networks. SpringerBriefs in Applied Sciences and Technology, 2021, , 53-87.	0.4	2
13	Shedding the Polarized Light on Biological Tissues. SpringerBriefs in Applied Sciences and Technology, 2021, , .	0.4	12
14	Multi-parameter Mueller Matrix Microscopy for the Expert Assessment of Acute Myocardium Ischemia. SpringerBriefs in Applied Sciences and Technology, 2021, , .	0.4	0
15	Scale-Selective Multidimentional Polarisation Microscopy in the Post-mortem Diagnosis of Acute Myocardium Ischemia. SpringerBriefs in Applied Sciences and Technology, 2021, , 23-51.	0.4	1
16	Polyacrylamide-based phantoms of human skin for hyperspectral fluorescence imaging and spectroscopy. Quantum Electronics, 2021, 51, 118-123.	1.0	4
17	Embossed topographic depolarisation maps of biological tissues with different morphological structures. Scientific Reports, 2021, 11, 3871.	3.3	36
18	Symmetric decomposition of Mueller matrices reveals a new parametric space for polarimetric		3

assistance in colon cancer histopathology. , 2021, , .

#	Article	IF	CITATIONS
19	3D Mueller matrix mapping of layered distributions of depolarisation degree for analysis of prostate adenoma and carcinoma diffuse tissues. Scientific Reports, 2021, 11, 5162.	3.3	52
20	A unified framework for simulation of the total angular momentum of light scattered in turbid media. , 2021, , .		0
21	Skin Complications of Diabetes Mellitus Revealed by Polarized Hyperspectral Imaging and Machine Learning. IEEE Transactions on Medical Imaging, 2021, 40, 1207-1216.	8.9	60
22	Polarization and depolarization metrics as optical markers in support to histopathology of ex vivo colon tissue. Biomedical Optics Express, 2021, 12, 4560.	2.9	27
23	In vitro influence of 520 nm diode laser irradiation on red blood cell spontaneous aggregation studied by optical tweezers and light microscopy. , 2021, , .		0
24	Polarization and Orbital Angular Momentum of Light in Biomedical Applications: feature issue introduction. Biomedical Optics Express, 2021, 12, 6255.	2.9	14
25	Terahertz-to-infrared converter based on the polyvinylchloride matrix with embedded gold nanoparticles. , 2021, , .		0
26	Impairments of cerebral blood flow microcirculation in rats brought on by cardiac cessation and respiratory arrest. Journal of Biophotonics, 2021, 14, e202100216.	2.3	16
27	3D Mueller Matrix Reconstruction of the Optical Anisotropy Parameters of Myocardial Histopathology Tissue Samples. Frontiers in Physics, 2021, 9, .	2.1	11
28	Histological imaging of unstained cancer tissue samples by circularly polarized light. , 2021, , .		3
29	A review of career devoted to Biophotonics – In memoriam to Ekaterina Borisova (1978–2021). Journal of Biomedical Photonics and Engineering, 2021, 7, 040101.	0.7	0
30	Assessment of the Alzheimer progression with multiwavelength Stokes polarimetry. , 2021, , .		0
31	Biodegradable Nanocarriers Resembling Extracellular Vesicles Deliver Genetic Material with the Highest Efficiency to Various Cell Types. Small, 2020, 16, e1904880.	10.0	25
32	Differential Mueller matrix imaging of partially depolarizing optically anisotropic biological tissues. Lasers in Medical Science, 2020, 35, 877-891.	2.1	26
33	Impact of Nanocapsules on Red Blood Cells Interplay Jointly Assessed by Optical Tweezers and Microscopy. Micromachines, 2020, 11, 19.	2.9	14
34	In-Body Communications Exploiting Light: A Proof-of-Concept Study Using Ex Vivo Tissue Samples. IEEE Access, 2020, 8, 190378-190389.	4.2	3
35	Blood Flow Visualization by Means of Laser Speckle-Contrast Measurements under the Conditions of Nonergodicity. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2020, 128, 778-786.	0.6	3
36	A highly efficient and safe gene delivery platform based on polyelectrolyte core–shell nanoparticles for hard-to-transfect clinically relevant cell types. Journal of Materials Chemistry B, 2020, 8, 9576-9588.	5.8	23

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37	Colon cancer detection by using Poincaré sphere and <scp>2D</scp> polarimetric mapping of ex vivo colon samples. Journal of Biophotonics, 2020, 13, e202000082.	2.3	41
38	The advancement of blood cell research by optical tweezers. Reviews in Physics, 2020, 5, 100043.	8.9	41
39	Two-point Stokes vector diagnostic approach for characterization of optically anisotropic biological tissues. Journal Physics D: Applied Physics, 2020, 53, 395401.	2.8	22
40	Biophotonics methods for functional monitoring of complications of diabetes mellitus. Journal of Biophotonics, 2020, 13, e202000203.	2.3	19
41	Optical Tweezers in Studies of Red Blood Cells. Cells, 2020, 9, 545.	4.1	82
42	Time-space Fourier κï‰â€² filter for motion artifacts compensation during transcranial fluorescence brain imaging. Physics in Medicine and Biology, 2020, 65, 075007.	3.0	8
43	Polarization Correlometry of Scattering Biological Tissues and Fluids. SpringerBriefs in Physics, 2020, , .	0.7	5
44	3D Mueller-matrix-based azimuthal invariant tomography of polycrystalline structure within benign and malignant soft-tissue tumours. Laser Physics Letters, 2020, 17, 115606.	1.4	23
45	Meat freshness revealed by visible to near-infrared spectroscopy and principal component analysis. Journal of Physics Communications, 2020, 4, 095011.	1.2	17
46	Role of scattering and birefringence in phase retardation revealed by locus of Stokes vector on Poincaré sphere. Journal of Biomedical Optics, 2020, 25, 1.	2.6	21
47	Wireless data transfer through biological tissues using near-infrared light: testing skull and skin phantoms. , 2020, , .		4
48	GPU-accelerated online Monte Carlo (MC) application for imitation of twisted light propagation in turbid tissue-like scattering media (Conference Presentation). , 2020, , .		2
49	Imaging of early stage breast cancer with circularly polarized light. , 2020, , .		6
50	Evaluating β-amyloidosis progression in Alzheimer's disease with Mueller polarimetry. Biomedical Optics Express, 2020, 11, 4509.	2.9	43
51	Brain metabolism changes in cases of impaired breathing or blood circulation in rodents evaluated by real time optical spectroscopy methods. , 2020, , .		1
52	Tissue-mimicking phantoms for biomedical applications. , 2020, , .		4
53	The peculiarity and influencing factors of red blood cell interaction in individual cell pairs studied by optical tweezers. , 2020, , .		0
54	Cloud-based online application for imitation of polarized light propagation in turbid scattering media. , 2020, , .		0

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#	Article	IF	CITATIONS
55	Probing the red blood cell interaction in individual cell pairs by optical tweezers. , 2020, , .		1
56	Transcranial Dynamic Fluorescence Imaging for the Study of the Epileptic Seizures. Brain Informatics and Health, 2020, , 49-66.	0.4	1
57	Imitation of optical coherence tomography images by wave Monte Carlo-based approach implemented with the Leontovich–Fock equation. Optical Engineering, 2020, 59, 1.	1.0	7
58	The use of Stokes-Mueller polarimetry for assessment of amyloid-β progression in a mouse model of Alzheimer's disease. , 2020, , .		2
59	Polarization-sensitive hyperspectral imaging of human skin: From system design to clinical validation (Conference Presentation). , 2020, , .		Ο
60	Development of oral cancer tissue-mimicking phantom based on polyvinyl chloride plastisol and graphite for terahertz frequencies. Journal of Biomedical Optics, 2020, 25, .	2.6	10
61	Imitation of ultra-sharp light focusing within turbid tissue-like scattering medium by using time-independent Helmholtz equation and method Monte Carlo. , 2020, , .		1
62	Stokes-Correlometry Analysis of Biological Tissues With Polycrystalline Structure. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-12.	2.9	38
63	Biomedical applications of Jones-matrix tomography to polycrystalline films of biological fluids. Journal of Innovative Optical Health Sciences, 2019, 12, .	1.0	31
64	A Robust Method for Adjustment of Laser Speckle Contrast Imaging during Transcranial Mouse Brain Visualization. Photonics, 2019, 6, 80.	2.0	21
65	Application of PEG-Covered Non-Biodegradable Polyelectrolyte Microcapsules in the Crustacean Circulatory System on the Example of the Amphipod Eulimnogammarus verrucosus. Polymers, 2019, 11, 1246.	4.5	10
66	Propagation of Cylindrical Vector Laser Beams in Turbid Tissue-Like Scattering Media. Photonics, 2019, 6, 56.	2.0	19
67	Mueller-matrix-based polarization imaging and quantitative assessment of optically anisotropic polycrystalline networks. PLoS ONE, 2019, 14, e0214494.	2.5	49
68	Mutual interaction of red blood cells influenced by nanoparticles. Scientific Reports, 2019, 9, 5147.	3.3	35
69	Evaluation of handwriting peculiarities utilizing laser speckle contrast imaging. Laser Physics Letters, 2019, 16, 115601.	1.4	4
70	Influence of Pulsed He–Ne Laser Irradiation on the Red Blood Cell Interaction Studied by Optical Tweezers. Micromachines, 2019, 10, 853.	2.9	16
71	Combined laser speckle imaging and fluorescent intravital microscopy for monitoring acute vascular permeability reaction. Journal of Biomedical Optics, 2019, 24, 1.	2.6	21
72	Perspectives of optical diagnosis with vector light beams (Conference Presentation). , 2019, , .		2

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73	The application of a unified Monte Carlo model in the training of artificial neural networks for the purpose of real-time in-vivo sensing of tissue optical properties. , 2019, , .		2
74	Influence of interaction time on the red blood cell (dis)aggregation dynamics in vitro studied by optical tweezers. , 2019, , .		3
75	Influence of blood pulsation on diagnostic volume in pulse oximetry and photoplethysmography measurements. Applied Optics, 2019, 58, 9398.	1.8	40
76	Hyperspectral imaging of human skin aided by artificial neural networks. Biomedical Optics Express, 2019, 10, 3545.	2.9	68
77	Sensing of biotissues utilizing circularly polarized light. , 2019, , .		0
78	Optical Wireless Data Transfer Through Biotissues: Practical Evidence and Initial Results. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 191-205.	0.3	4
79	Influence of nano-materials on the red blood cells and their mutual interaction (Conference) Tj ETQq1 1 0.784314	rgBT /O\	verlock 10 Tf
80	Propagation of complex vector laser beams in turbid tissue-like scattering medium (Conference) Tj ETQq0 0 0 rgB	T /Overlo	ck 10 Tf 50 4
81	Application of photonics and nanoscale materials for environmental monitoring (Conference) Tj ETQq1 1 0.78431	.4 rgBT /C	Overlock 10 T
82	Surface-enhanced Raman spectroscopy for beverage spoilage yeasts and bacteria detection with patterned substrates and gold nanoparticles (Conference Presentation). , 2019, , .		1
83	Machine learning assisted blood vessel segmentation in laser speckle imaging (Conference) Tj ETQq1 1 0.784314	rgBT /Ov	erlock 10 Tf3
84	Assessment of age-related skin changes using hyperspectral polarization imaging. , 2019, , .		0
85	Influence of scattering and birefringence on the phase shift between electric field components of polarized light propagated through biological tissues. , 2019, , .		2
86	Analysis of changes in blood flow oscillations under different probe pressure using laser Doppler spectrum decomposition. , 2019, , .		0
87	Assessment of meat freshness and spoilage detection utilizing visible to near-infrared spectroscopy. , 2019, , .		0
88	Combined use of optical tweezers and scanning electron microscopy to reveal influence of nanoparticles on red blood cells interactions. , 2019, , .		0
89	Combined multi-wavelength laser speckle contrast imaging and diffuse reflectance imaging for skin perfusion assessment. , 2019, , .		1
90	Meat freshness evaluation using visible to near-infrared spectroscopy (Conference Presentation). , 2019, , .		0

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91	Study of mutual interaction of red blood cells influenced by nanoparticles utilizing a combined use of optical tweezers and scanning electron microscopy (Conference Presentation). , 2019, , .		0
92	Influence of pulsed laser radiation on the adhesion of red blood cells studied by optical tweezers (Conference Presentation). , 2019, , .		0
93	Assessment of pork freshness based on changes in constituting chromophores using visible to near-infrared spectroscopy. , 2019, , .		1
94	Influence of blood pulsation on diagnostic volume in pulse oximetry and photoplethysmography measurements: publisher's note. Applied Optics, 2019, 58, 9688.	1.8	0
95	Speckle dynamics under ergodicity breaking. Journal Physics D: Applied Physics, 2018, 51, 155401.	2.8	21
96	Submicron scale tissue multifractal anisotropy in polarized laser light scattering. Laser Physics Letters, 2018, 15, 035601.	1.4	9
97	Bare laserâ€synthesized Auâ€based nanoparticles as nondisturbing surfaceâ€enhanced Raman scattering probes for bacteria identification. Journal of Biophotonics, 2018, 11, e201700225.	2.3	42
98	Distribution of PEG-coated hollow polyelectrolyte microcapsules after introduction into the circulatory system and muscles of zebrafish. Biology Open, 2018, 7, .	1.2	8
99	Quantitative assessment of submicron scale anisotropy in tissue multifractality by scattering Mueller matrix in the framework of Born approximation. Optics Communications, 2018, 413, 172-178.	2.1	26
100	Mapping of polycrystalline films of biological fluids utilizing the Jones-matrix formalism. Laser Physics, 2018, 28, 025602.	1.2	21
101	Assessment of the dynamics of human glymphatic system by nearâ€infrared spectroscopy. Journal of Biophotonics, 2018, 11, e201700123.	2.3	34
102	Investigation of Water-free Biotissue-mimicking Phantoms in Terahertz Frequency Range. , 2018, , .		2
103	Complementary analysis of Mueller-matrix images of optically anisotropic highly scattering biological tissues. Journal of the European Optical Society-Rapid Publications, 2018, 14, .	1.9	45
104	Study of PVC-based Skin Phantom with graphite particles in Terahertz Frequency Range. EPJ Web of Conferences, 2018, 195, 10019.	0.3	1
105	3D Mueller-Matrix Diffusive Tomography of Polycrystalline Blood Films for Cancer Diagnosis. Photonics, 2018, 5, 54.	2.0	51
106	Terahertz time-domain spectroscopy for non-invasive assessment of water content in biological samples. Biomedical Optics Express, 2018, 9, 2266.	2.9	74
107	Mutual interaction of red blood cells assessed by optical tweezers and scanning electron microscopy imaging. Optics Letters, 2018, 43, 3921.	3.3	18
108	Assisted Medication Management in Elderly Care Using Miniaturised Near-Infrared Spectroscopy. , 2018, 2, 1-24.		17

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109	Allocation of rhodamine-loaded nanocapsules from blood circulatory system to adjacent tissues assessedin vivoby fluorescence spectroscopy. Laser Physics Letters, 2018, 15, 105601.	1.4	6
110	Simple and Effective Administration and Visualization of Microparticles in the Circulatory System of Small Fishes Using Kidney Injection. Journal of Visualized Experiments, 2018, , .	0.3	5
111	Monitoring of temperature-mediated phase transitions of adipose tissue by combined optical coherence tomography and Abbe refractometry. Journal of Biomedical Optics, 2018, 23, 1.	2.6	10
112	Delivery and reveal of localization of upconversion luminescent microparticles and quantum dots in the skin in vivo by fractional laser microablation, multimodal imaging, and optical clearing. Journal of Biomedical Optics, 2018, 23, 1.	2.6	8
113	Evaluation of microvascular disturbances in rheumatic diseases by analysis of skin blood flow oscillations. , 2018, , .		0
114	Development of an inverse approach for the characterization of in-vivo optical properties of human skin based on artificial neural networks (Conference Presentation). , 2018, , .		0
115	Towards non-invasive screening of meat freshness utilizing visible and near-infrared spectroscopy (Conference Presentation). , 2018, , .		0
116	Hyperspectral imaging aided by artificial neural networks for functional skin characterization (Conference Presentation). , 2018, , .		0
117	The impact of optical radiation of femtosecond duration on human glial cells. , 2018, , .		0
118	Characterization of shear stress preventing red blood cells aggregation at the individual cell level: The temperature dependence. Clinical Hemorheology and Microcirculation, 2017, 64, 853-857.	1.7	12
119	Ecophotonics: assessment of temperature gradient in aquatic organisms using up-conversion luminescent particles. Quantum Electronics, 2017, 47, 153-157.	1.0	4
120	Towards enhanced optical sensor performance: SEIRA and SERS with plasmonic nanostars. Analyst, The, 2017, 142, 951-958.	3.5	49
121	Combined use of laser Doppler flowmetry and skin thermometry for functional diagnostics of intradermal finger vessels. Journal of Biomedical Optics, 2017, 22, 040502.	2.6	23
122	Transcranial optical vascular imaging (TOVI) during cardiac arrest (Conference Presentation). , 2017, ,		0
123	Optical biopsy of tissue with Mueller polarimetry: theory and experiments (Conference Presentation). , 2017, , .		1
124	Plasmonic nanostars as signal enhancers for surface-enhanced vibrational spectroscopy and optical imaging (Conference Presentation). , 2017, , .		1
125	Parallel <i>in vivo</i> monitoring of pH in gill capillaries and muscles of fishes using microencapsulated biomarkers. Biology Open, 2017, 6, 673-677.	1.2	18
126	Surface-enhanced Raman spectroscopy for identification and discrimination of beverage spoilage yeasts using patterned substrates and gold nanoparticles. Journal of Food Engineering, 2017, 212, 47-54.	5.2	24

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127	Towards practical implementation of biophotonics-based solutions for cost-effective monitoring of food quality control (Conference Presentation). , 2017, , .		0
128	Computational model for simulation of sequences of helicity and angular momentum transfer in turbid tissue-like scattering medium (Conference Presentation). , 2017, , .		1
129	Impact of blood volume changes within the human skin on the diffuse reflectance measurements in visible and NIR spectral ranges. Proceedings of SPIE, 2017, , .	0.8	1
130	Dual mode diffraction phase microscopy for quantitative functional assessment of biological cells. Laser Physics Letters, 2017, 14, 105601.	1.4	2
131	Analysis of skin blood microflow oscillations in patients with rheumatic diseases. Journal of Biomedical Optics, 2017, 22, 070501.	2.6	20
132	Surface enhanced infrared absorption spectroscopy based on gold nanostars and spherical nanoparticles. Analytica Chimica Acta, 2017, 990, 141-149.	5.4	45
133	Assessment of water content in biological samples by terahertz time-domain spectroscopy. Proceedings of SPIE, 2017, , .	0.8	0
134	Microencapsulated fluorescent pH probe as implantable sensor for monitoring the physiological state of fish embryos. PLoS ONE, 2017, 12, e0186548.	2.5	8
135	Influence of probe pressure on diffuse reflectance spectra of human skin measured in vivo. Journal of Biomedical Optics, 2017, 22, 1.	2.6	23
136	Prototype of an opto-capacitive probe for non-invasive sensing cerebrospinal fluid circulation. , 2017, ,		0
137	Modeling and interpreting speckle pattern formation in swept-source optical coherence tomography (Conference Presentation). , 2017, , .		0
138	Towards understanding speckle pattern formation in optical coherence tomography (Conference) Tj ETQq0 0 0 i	rgBT /Over	lock 10 Tf 50
139	Imaging of subchondral bone by optical coherence tomography upon optical clearing of articular cartilage. Journal of Biophotonics, 2016, 9, 270-275.	2.3	41
140	Special Section Guest Editorial: Polarized Light for Biomedical Applications. Journal of Biomedical Optics, 2016, 21, 071001.	2.6	35
141	Plasmon-Resonant Gold Nanostars With Variable Size as Contrast Agents for Imaging Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 13-20.	2.9	23
142	Cloud-based Monte Carlo modelling of BSSRDF for the rendering of human skin appearance (Conference Presentation). , 2016, , .		0
143	Remote in vivo stress assessment of aquatic animals with microencapsulated biomarkers for environmental monitoring. Scientific Reports, 2016, 6, 36427.	3.3	15
144	Backscattering of linearly polarized light from turbid tissue-like scattering medium with rough surface. Journal of Biomedical Optics, 2016, 21, 071117.	2.6	10

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145	RBC aggregation dynamics in autologous plasma and serum studied with double-channel optical tweezers. , 2016, , .		0
146	Detection of Listeria innocua on roll-to-roll produced SERS substrates with gold nanoparticles. RSC Advances, 2016, 6, 62981-62989.	3.6	23
147	Characterization at the individual cell level and in whole blood samples of shear stress preventing red blood cells aggregation. Journal of Biomechanics, 2016, 49, 1021-1026.	2.1	16
148	Optical tweezers study of red blood cell aggregation and disaggregation in plasma and protein solutions. Journal of Biomedical Optics, 2016, 21, 035001.	2.6	71
149	Probing the Red Blood Cells Aggregating Force With Optical Tweezers. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 365-370.	2.9	30
150	Polarization sensitive optical biopsy with diffusely reflected polarized light. , 2016, , .		0
151	A simple approach for nonâ€invasive transcranial optical vascular imaging (nTOVI). Journal of Biophotonics, 2015, 8, 897-901.	2.3	33
152	Spatial evolution of depolarization in homogeneous turbid media within the differential Mueller matrix formalism. Optics Letters, 2015, 40, 5634.	3.3	45
153	Application of circularly polarized light for nonâ€invasive diagnosis of cancerous tissues and turbid tissueâ€like scattering media. Journal of Biophotonics, 2015, 8, 317-323.	2.3	197
154	Two electric field Monte Carlo models of coherent backscattering of polarized light. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2394.	1.5	41
155	Propagation and scattering of vector light beam in turbid scattering medium. , 2014, , .		2
156	Imaging of the interaction of low frequency electric fields with biological tissues by optical coherence tomography. Proceedings of SPIE, 2014, , .	0.8	0
157	Acousto-optic imaging using quantum memories in cryogenic rare earth ion doped crystals. , 2014, , .		1
158	Propagation of Coherent Polarized Light in Turbid Tissue-like Scattering Medium. , 2014, , .		0
159	Enhanced diagnostic of skin conditions by polarized laser speckles: phantom studies and computer modeling. Proceedings of SPIE, 2014, , .	0.8	1
160	Evaluation of path-history-based fluorescence Monte Carlo method for photon migration in heterogeneous media. Optics Express, 2014, 22, 31948.	3.4	9
161	Comparison of two Monte Carlo models of propagation of coherent polarized light in turbid scattering media. Proceedings of SPIE, 2014, , .	0.8	2
162	Monitoring of interaction of low-frequency electric field with biological tissues upon optical clearing with optical coherence tomography. Journal of Biomedical Optics, 2014, 19, 086002.	2.6	9

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163	Propagation of coherent polarized light in turbid highly scattering medium. Journal of Biomedical Optics, 2014, 19, 025005.	2.6	53
164	Optical diagnostics of vascular reactions triggered by weak allergens using laser speckle-contrast imaging technique. Quantum Electronics, 2014, 44, 713-718.	1.0	7
165	Ear swelling test by using laser speckle imaging with a long exposure time. Journal of Biomedical Optics, 2014, 19, 060502.	2.6	14
166	Dermal Component–Based Optical Modeling of Skin Translucency: Impact on Skin Color. , 2014, , 25-61.		8
167	Diffusing-wave polarimetry for tissue diagnostics. Proceedings of SPIE, 2014, , .	0.8	5
168	Polarized Light Biosensing. , 2014, , .		2
169	Transcutaneous immunization using microneedles and cubosomes: Mechanistic investigations using Optical Coherence Tomography and Two-Photon Microscopy. Journal of Controlled Release, 2013, 172, 894-903.	9.9	57
170	Towards the nature of biological zero in the dynamic light scattering diagnostic modalities. Doklady Physics, 2013, 58, 323-326.	0.7	20
171	Diffusing Wave Spectroscopy: Application for Blood Diagnostics. , 2013, , 149-166.		1
172	Imaging of the interaction of low-frequency electric fields with biological tissues by optical coherence tomography. Optics Letters, 2013, 38, 2629.	3.3	8
173	Visualisation of blood and lymphatic vessels with increasing exposure time of the detector. Quantum Electronics, 2013, 43, 679-682.	1.0	17
174	Imaging of subcutaneous microcirculation vascular network by double correlation Optical Coherence Tomography. Laser and Photonics Reviews, 2013, 7, 797-800.	8.7	20
175	Depolarization of light by rough surface of scattering phantoms. Proceedings of SPIE, 2013, , .	0.8	1
176	Monte Carlo Modeling of Photon Migration for the Needs of Biomedical Optics and Biophotonics. Series in Optics and Optoelectronics, 2013, , 1-72.	0.0	3
177	Screening Cancer Aggressiveness by Using Circularly Polarized Light. , 2013, , .		6
178	Microencapsulated bio-markers for assessment of stress conditions in aquatic organisms in vivo. Laser Physics Letters, 2012, 9, 542-546.	1.4	15
179	Label free in vivo laser speckle imaging of blood and lymph vessels. Journal of Biomedical Optics, 2012, 17, 050502.	2.6	52
180	Human tissue color as viewed in high dynamic range optical spectral transmission measurements. Biomedical Optics Express, 2012, 3, 2154.	2.9	56

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181	Assessment of transcutaneous vaccine delivery by optical coherence tomography. Laser Physics Letters, 2012, 9, 607-610.	1.4	18
182	The use of optical coherence tomography for morphological study of scaffolds. Quantum Electronics, 2012, 42, 394-398.	1.0	4
183	Peer-to-peer Monte Carlo simulation of photon migration in topical applications of biomedical optics. Journal of Biomedical Optics, 2012, 17, 0905041.	2.6	54
184	Micro-encapsulated sensors for in vivo assessment of the oxidative stress in aquatic organisms. , 2012, , .		0
185	Field of a point source in a semi-infinite elastic medium. Waves in Random and Complex Media, 2012, 22, 423-434.	2.7	3
186	Color of human tissues as viewed in a higher range of spectra. , 2012, , .		0
187	The mapping of tissues scattering properties on the Poincar $ ilde{A}$ © sphere. , 2012, , .		3
188	Online object oriented Monte Carlo computational tool for the needs of biomedical optics. Biomedical Optics Express, 2011, 2, 2461.	2.9	135
189	COHERENT BACKSCATTERING OF CIRCULARLY POLARIZED LIGHT FROM A DISPERSE RANDOM MEDIUM. Progress in Electromagnetics Research M, 2011, 16, 47-61.	0.9	7
190	Monte Carlo simulation of photon migration in turbid random media based on the object-oriented programming paradigm. Proceedings of SPIE, 2011, , .	0.8	5
191	Functional imaging of tumor vascular network in small animal models. , 2011, , .		1
192	Optical Assay for Biotechnology and Clinical Diagnosis. IEEE Transactions on Biomedical Engineering, 2011, 58, 2154-2160.	4.2	9
193	Improving image quality in reflection confocal microscopy involving gold nanoparticles and osmotically active immersion liquids. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784	-3 104.6gBT	/Oserlock 10
194	Assessment of the calibration curve for transmittance pulse-oximetry. Laser Physics, 2011, 21, 1972-1977.	1.2	19
195	Backscattering of circular polarized light from a disperse random medium influenced by optical clearing. Laser Physics Letters, 2011, 8, 324-328.	1.4	34
196	Optical diagnostic test of stress conditions of aquatic organisms. Journal of Biophotonics, 2011, 4, 619-626.	2.3	2
197	<i>In vivo</i> characterization of tumor and tumor vascular network using multiâ€modal imaging approach. Journal of Biophotonics, 2011, 4, 645-649.	2.3	26
198	Propagation of circular polarized light in a scattering medium influenced by optical clearing. , 2011, , .		0

Propagation of circular polarized light in a scattering medium influenced by optical clearing. , 2011, , . 198

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