

Alexander A Doronin

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

913
citations

567281

15
h-index

501196

28
g-index

40
all docs

40
docs citations

40
times ranked

781
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of circularly polarized light for noninvasive diagnosis of cancerous tissues and turbid tissue-like scattering media. <i>Journal of Biophotonics</i> , 2015, 8, 317-323.	2.3	197
2	Online object oriented Monte Carlo computational tool for the needs of biomedical optics. <i>Biomedical Optics Express</i> , 2011, 2, 2461.	2.9	135
3	Hyperspectral imaging of human skin aided by artificial neural networks. <i>Biomedical Optics Express</i> , 2019, 10, 3545.	2.9	68
4	Skin Complications of Diabetes Mellitus Revealed by Polarized Hyperspectral Imaging and Machine Learning. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 1207-1216.	8.9	60
5	Human tissue color as viewed in high dynamic range optical spectral transmission measurements. <i>Biomedical Optics Express</i> , 2012, 3, 2154.	2.9	56
6	Peer-to-peer Monte Carlo simulation of photon migration in topical applications of biomedical optics. <i>Journal of Biomedical Optics</i> , 2012, 17, 0905041.	2.6	54
7	Propagation of coherent polarized light in turbid highly scattering medium. <i>Journal of Biomedical Optics</i> , 2014, 19, 025005.	2.6	53
8	Two electric field Monte Carlo models of coherent backscattering of polarized light. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 2394.	1.5	41
9	Multimodal optical measurement for study of lower limb tissue viability in patients with diabetes mellitus. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	40
10	Influence of blood pulsation on diagnostic volume in pulse oximetry and photoplethysmography measurements. <i>Applied Optics</i> , 2019, 58, 9398.	1.8	40
11	Combined use of laser Doppler flowmetry and skin thermometry for functional diagnostics of intradermal finger vessels. <i>Journal of Biomedical Optics</i> , 2017, 22, 040502.	2.6	23
12	Imaging of subcutaneous microcirculation vascular network by double correlation Optical Coherence Tomography. <i>Laser and Photonics Reviews</i> , 2013, 7, 797-800.	8.7	20
13	Assessment of the calibration curve for transmittance pulse-oximetry. <i>Laser Physics</i> , 2011, 21, 1972-1977.	1.2	19
14	Propagation of Cylindrical Vector Laser Beams in Turbid Tissue-Like Scattering Media. <i>Photonics</i> , 2019, 6, 56.	2.0	19
15	Assessment of transcutaneous vaccine delivery by optical coherence tomography. <i>Laser Physics Letters</i> , 2012, 9, 607-610.	1.4	18
16	Backscattering of linearly polarized light from turbid tissue-like scattering medium with rough surface. <i>Journal of Biomedical Optics</i> , 2016, 21, 071117.	2.6	10
17	Monitoring of interaction of low-frequency electric field with biological tissues upon optical clearing with optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2014, 19, 086002.	2.6	9
18	Imaging of the interaction of low-frequency electric fields with biological tissues by optical coherence tomography. <i>Optics Letters</i> , 2013, 38, 2629.	3.3	8

#	ARTICLE	IF	CITATIONS
19	Dermal Component-Based Optical Modeling of Skin Translucency: Impact on Skin Color. , 2014, , 25-61.		8
20	Monte Carlo simulation of photon migration in turbid random media based on the object-oriented programming paradigm. Proceedings of SPIE, 2011, , .	0.8	5
21	Diffusing-wave polarimetry for tissue diagnostics. Proceedings of SPIE, 2014, , .	0.8	5
22	GPU-accelerated object-oriented Monte Carlo modeling of photon migration in turbid media. , 2010, , .		4
23	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
24	Using peer-to-peer network for on-line Monte Carlo computation of fluence rate distribution. Proceedings of SPIE, 2013, , .	0.8	2
25	Speckle pattern texture analysis method to measure surface roughness. Proceedings of SPIE, 2013, , .	0.8	2
26	Propagation and scattering of vector light beam in turbid scattering medium. , 2014, , .		2
27	Comparison of two Monte Carlo models of propagation of coherent polarized light in turbid scattering media. Proceedings of SPIE, 2014, , .	0.8	2
28	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
29	Polarized Light Biosensing. , 2014, , .		2
30	Online Monte Carlo based calculator of human skin spectra and color. Proceedings of SPIE, 2012, , .	0.8	1
31	Mapping of spatial distribution of superficial blood vessels in human skin by double correlation analysis of optical coherence tomography images. , 2013, , .		1
32	Depolarization of light by rough surface of scattering phantoms. Proceedings of SPIE, 2013, , .	0.8	1
33	Acousto-optic imaging using quantum memories in cryogenic rare earth ion doped crystals. , 2014, , .		1
34	Enhanced diagnostic of skin conditions by polarized laser speckles: phantom studies and computer modeling. Proceedings of SPIE, 2014, , .	0.8	1
35	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
36	Imaging of the interaction of low frequency electric fields with biological tissues by optical coherence tomography. Proceedings of SPIE, 2014, , .	0.8	0

#	ARTICLE	IF	CITATIONS
37	Propagation of Coherent Polarized Light in Turbid Tissue-like Scattering Medium. , 2014, , .		0
38	Color of human tissues as viewed in a higher range of spectra. , 2012, , .		0
39	Polarization sensitive optical biopsy with diffusely reflected polarized light. , 2016, , .		0
40	Physically based radiative transfer framework for hyperspectral modelling of light interaction with volumetrically inhomogeneous scattering tissue-like media (Conference Presentation). , 2017, , .		0