

# 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	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
2	Propagation of Cylindrical Vector Laser Beams in Turbid Tissue-Like Scattering Media. Photonics, 2019, 6, 56.	2.0	19
3	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
4	Influence of blood pulsation on diagnostic volume in pulse oximetry and photoplethysmography measurements. Applied Optics, 2019, 58, 9398.	1.8	40
5	Hyperspectral imaging of human skin aided by artificial neural networks. Biomedical Optics Express, 2019, 10, 3545.	2.9	68
6	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
7	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
8	Multimodal optical measurement for study of lower limb tissue viability in patients with diabetes mellitus. Journal of Biomedical Optics, 2017, 22, 1.	2.6	40
9	Physically based radiative transfer framework for hyperspectral modelling of light interaction with volumetrically inhomogeneous scattering tissue-like media (Conference Presentation). , 2017, , .		0
10	Backscattering of linearly polarized light from turbid tissue-like scattering medium with rough surface. Journal of Biomedical Optics, 2016, 21, 071117.	2.6	10
11	Polarization sensitive optical biopsy with diffusely reflected polarized light. , 2016, , .		0
12	Application of circularly polarized light for noninvasive diagnosis of cancerous tissues and turbid tissue-like scattering media. Journal of Biophotonics, 2015, 8, 317-323.	2.3	197
13	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
14	Propagation and scattering of vector light beam in turbid scattering medium. , 2014, , .		2
15	Imaging of the interaction of low frequency electric fields with biological tissues by optical coherence tomography. Proceedings of SPIE, 2014, , .	0.8	0
16	Acousto-optic imaging using quantum memories in cryogenic rare earth ion doped crystals. , 2014, , .		1
17	Propagation of Coherent Polarized Light in Turbid Tissue-like Scattering Medium. , 2014, , .		0
18	Enhanced diagnostic of skin conditions by polarized laser speckles: phantom studies and computer modeling. Proceedings of SPIE, 2014, , .	0.8	1

#	ARTICLE	IF	CITATIONS
19	Comparison of two Monte Carlo models of propagation of coherent polarized light in turbid scattering media. Proceedings of SPIE, 2014, , .	0.8	2
20	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
21	Propagation of coherent polarized light in turbid highly scattering medium. Journal of Biomedical Optics, 2014, 19, 025005.	2.6	53
22	Dermal Componentâ€‘Based Optical Modeling of Skin Translucency: Impact on Skin Color. , 2014, , 25-61.		8
23	Diffusing-wave polarimetry for tissue diagnostics. Proceedings of SPIE, 2014, , .	0.8	5
24	Polarized Light Biosensing. , 2014, , .		2
25	Using peer-to-peer network for on-line Monte Carlo computation of fluence rate distribution. Proceedings of SPIE, 2013, , .	0.8	2
26	Imaging of the interaction of low-frequency electric fields with biological tissues by optical coherence tomography. Optics Letters, 2013, 38, 2629.	3.3	8
27	Mapping of spatial distribution of superficial blood vessels in human skin by double correlation analysis of optical coherence tomography images. , 2013, , .		1
28	Imaging of subcutaneous microcirculation vascular network by double correlation Optical Coherence Tomography. Laser and Photonics Reviews, 2013, 7, 797-800.	8.7	20
29	Depolarization of light by rough surface of scattering phantoms. Proceedings of SPIE, 2013, , .	0.8	1
30	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
31	Speckle pattern texture analysis method to measure surface roughness. Proceedings of SPIE, 2013, , .	0.8	2
32	Human tissue color as viewed in high dynamic range optical spectral transmission measurements. Biomedical Optics Express, 2012, 3, 2154.	2.9	56
33	Assessment of transcutaneous vaccine delivery by optical coherence tomography. Laser Physics Letters, 2012, 9, 607-610.	1.4	18
34	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
35	Online Monte Carlo based calculator of human skin spectra and color. Proceedings of SPIE, 2012, , .	0.8	1
36	Color of human tissues as viewed in a higher range of spectra. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	Online object oriented Monte Carlo computational tool for the needs of biomedical optics. Biomedical Optics Express, 2011, 2, 2461.	2.9	135
38	Monte Carlo simulation of photon migration in turbid random media based on the object-oriented programming paradigm. Proceedings of SPIE, 2011, , .	0.8	5
39	Assessment of the calibration curve for transmittance pulse-oximetry. Laser Physics, 2011, 21, 1972-1977.	1.2	19
40	GPU-accelerated object-oriented Monte Carlo modeling of photon migration in turbid media. , 2010, , .		4