Viktor V Nikolaev

List of Publications by Year
in descending order

34	167	1477746	1199166
papers	citations	6	12
		h-index	g-index

34	34	34	171
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Vivo Quantification of the Effectiveness of Topical Low-Dose Photodynamic Therapy in Wound Healing Using Two-Photon Microscopy. Pharmaceutics, 2022, 14, 287.	2.0	5
2	The In Vivo Quantitative Assessment of the Effectiveness of Low-Dose Photodynamic Therapy on Wound Healing Using Optical Coherence Tomography. Pharmaceutics, 2022, 14, 399.	2.0	4
3	Morphological changes in the skin and subcutaneous tissue during the creation of an experimental model of lymphedema on the hind limb of a white rat. Voprosy Rekonstruktivnoj I PlastiАeskoj Hirurgii, 2022, 25, 40-52.	0.0	1
4	Label-free multimodal nonlinear optical microscopy for biomedical applications. Journal of Applied Physics, 2021, 129, .	1.1	12
5	Efficiency of the phasor plot approach for the analysis of the antimicrobial properties of nanoparticles using two-photon microscopy. , 2021, , .		0
6	Barrier-disrupted skin: Quantitative analysis of tape and cyanoacrylate stripping efficiency by multiphoton tomography. International Journal of Pharmaceutics, 2020, 574, 118843.	2.6	15
7	In vivo non-invasive staining-free visualization of dermal mast cells in healthy, allergy and mastocytosis humans using two-photon fluorescence lifetime imaging. Scientific Reports, 2020, 10, 14930.	1.6	21
8	Measurement and modeling of optical properties of heated adipose tissue in the terahertz range. , 2020, , .		1
9	Differential diagnostics of paraffin-embedded tissues by IR-THz spectroscopy and machine learning. , 2020, , .		0
10	The study of spectral changes in THz range in normal and pathological skin in vivo depending on the dehydration methods used. , 2020, , .		0
11	Study of wound healing by terahertz spectroscopy. , 2020, , .		0
12	Classification of exhaled air IR spectra using combination support vector machine, decision tree, and k-nearest neighbor. , 2020, , .		0
13	Measurement and estimation of the structure of lymphedematous tissue on animal model. , 2020, , .		0
14	THz spectroscopy of skin pathologies associated with water migration and content. , 2020, , .		0
15	Use of Terahertz Spectroscopy for in vivo Studies of Lymphedema Development Dynamics. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 523-529.	0.2	3
16	Label-Free Non-linear Multimodal Optical Microscopy—Basics, Development, and Applications. Frontiers in Physics, 2019, 7, .	1.0	34
17	Analysis of Collagen Spatial Structure Using Multiphoton Microscopy and Machine Learning Methods. Biochemistry (Moscow), 2019, 84, 108-123.	0.7	21
18	Research on lymphedema by method of high-resolution multiphoton microscopy. Journal of Physics: Conference Series, 2019, 1145, 012043.	0.3	2

#	Article	IF	Citations
19	IR and THz imaging of paraffin embedded cancer tissues. , 2019, , .		0
20	Medical diagnosis using NIR and THz tissue imaging and machine learning methods. , 2019, , .		3
21	Application of multiphoton imaging and machine learning to lymphedema tissue analysis. Biomedical Optics Express, 2019, 10, 3353.	1.5	22
22	Phase transition monitoring in adipose tissue by multiphoton microscope. , 2019, , .		0
23	Lymphedema tissue analysis using optical imaging and gradient processing. , 2019, , .		0
24	Estimation of the collagen and elastin condition at lymphedema using multiphoton microscopy. , 2019, , .		0
25	Visualization of biological nano-objects with the help of multiphoton microscopy. , 2019, , .		1
26	Visualization of the lymphedema tissue internal structure by monitoring of backscattering. , 2019, , .		0
27	Applications of THz laser spectroscopy and machine learning for medical diagnostics. EPJ Web of Conferences, 2018, 195, 10006.	0.1	4
28	The kernel construction for the biomedical data classification using support vector machine. , 2018, , .		1
29	Improvement of the multiphoton fluorescence microscopy images quality using digital filtration. , 2018, , .		1
30	Kalman filtering in the problem of noise reduction in the absorption spectra of exhaled air. , 2016, , .		1
31	Wavelet based de-noising of breath air absorption spectra profiles for improved classification by principal component analysis. AIP Conference Proceedings, 2015, , .	0.3	2
32	Solutions of nonlocal nonlinear diffusion equations in data filtering problems. AIP Conference Proceedings, 2015, , .	0.3	0
33	Comparison of classification methods used for analysis of complex biological gas mixtures by means of laser spectroscopy. Proceedings of SPIE, 2015, , .	0.8	1
34	Applications of principal component analysis to breath air absorption spectra profiles classification. , 2015, , .		12