

Viktor V Nikolaev

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

167
citations

1477746
6
h-index

1199166
12
g-index

34
all docs

34
docs citations

34
times ranked

171
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-Free Non-linear Multimodal Optical Microscopy—Basics, Development, and Applications. <i>Frontiers in Physics</i> , 2019, 7, .	1.0	34
2	Application of multiphoton imaging and machine learning to lymphedema tissue analysis. <i>Biomedical Optics Express</i> , 2019, 10, 3353.	1.5	22
3	Analysis of Collagen Spatial Structure Using Multiphoton Microscopy and Machine Learning Methods. <i>Biochemistry (Moscow)</i> , 2019, 84, 108-123.	0.7	21
4	In vivo non-invasive staining-free visualization of dermal mast cells in healthy, allergy and mastocytosis humans using two-photon fluorescence lifetime imaging. <i>Scientific Reports</i> , 2020, 10, 14930.	1.6	21
5	Barrier-disrupted skin: Quantitative analysis of tape and cyanoacrylate stripping efficiency by multiphoton tomography. <i>International Journal of Pharmaceutics</i> , 2020, 574, 118843.	2.6	15
6	Applications of principal component analysis to breath air absorption spectra profiles classification. , 2015, , .		12
7	Label-free multimodal nonlinear optical microscopy for biomedical applications. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	12
8	In Vivo Quantification of the Effectiveness of Topical Low-Dose Photodynamic Therapy in Wound Healing Using Two-Photon Microscopy. <i>Pharmaceutics</i> , 2022, 14, 287.	2.0	5
9	Applications of THz laser spectroscopy and machine learning for medical diagnostics. <i>EPJ Web of Conferences</i> , 2018, 195, 10006.	0.1	4
10	The In Vivo Quantitative Assessment of the Effectiveness of Low-Dose Photodynamic Therapy on Wound Healing Using Optical Coherence Tomography. <i>Pharmaceutics</i> , 2022, 14, 399.	2.0	4
11	Use of Terahertz Spectroscopy for in vivo Studies of Lymphedema Development Dynamics. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2019, 126, 523-529.	0.2	3
12	Medical diagnosis using NIR and THz tissue imaging and machine learning methods. , 2019, , .		3
13	Wavelet based de-noising of breath air absorption spectra profiles for improved classification by principal component analysis. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	2
14	Research on lymphedema by method of high-resolution multiphoton microscopy. <i>Journal of Physics: Conference Series</i> , 2019, 1145, 012043.	0.3	2
15	Comparison of classification methods used for analysis of complex biological gas mixtures by means of laser spectroscopy. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
16	The kernel construction for the biomedical data classification using support vector machine. , 2018, , .		1
17	Measurement and modeling of optical properties of heated adipose tissue in the terahertz range. , 2020, , .		1
18	Kalman filtering in the problem of noise reduction in the absorption spectra of exhaled air. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	Improvement of the multiphoton fluorescence microscopy images quality using digital filtration. , 2018, , .		1
20	Visualization of biological nano-objects with the help of multiphoton microscopy. , 2019, , .		1
21	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 PlastiĀeskoj Hirurgii, 2022, 25, 40-52.	0.0	1
22	Solutions of nonlocal nonlinear diffusion equations in data filtering problems. AIP Conference Proceedings, 2015, , .	0.3	0
23	IR and THz imaging of paraffin embedded cancer tissues. , 2019, , .		0
24	Phase transition monitoring in adipose tissue by multiphoton microscope. , 2019, , .		0
25	Lymphedema tissue analysis using optical imaging and gradient processing. , 2019, , .		0
26	Estimation of the collagen and elastin condition at lymphedema using multiphoton microscopy. , 2019, , .		0
27	Visualization of the lymphedema tissue internal structure by monitoring of backscattering. , 2019, , .		0
28	Differential diagnostics of paraffin-embedded tissues by IR-THz spectroscopy and machine learning. , 2020, , .		0
29	The study of spectral changes in THz range in normal and pathological skin in vivo depending on the dehydration methods used. , 2020, , .		0
30	Study of wound healing by terahertz spectroscopy. , 2020, , .		0
31	Classification of exhaled air IR spectra using combination support vector machine, decision tree, and k-nearest neighbor. , 2020, , .		0
32	Measurement and estimation of the structure of lymphedematous tissue on animal model. , 2020, , .		0
33	THz spectroscopy of skin pathologies associated with water migration and content. , 2020, , .		0
34	Efficiency of the phasor plot approach for the analysis of the antimicrobial properties of nanoparticles using two-photon microscopy. , 2021, , .		0