Yury V Kistenev

List of Publications by Year in Descending Order

52 papers	302 citations	8 h-index	16 g-index
106 ext. papers	477 ext. citations	1.9 avg, IF	3.13 L-index

#	Paper	IF	Citations
52	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 Plasti□eskoj Hirurgii*, **2022**, 25, 40-52		
51	Application of machine learning and laser optical-acoustic spectroscopy to study the profile of exhaled air volatile markers of acute myocardial infarction. *Journal of Breath Research*, **2021**, 15,	3.1	1
50	Label-free multimodal nonlinear optical microscopy for biomedical applications. *Journal of Applied Physics*, **2021**, 129, 214901	2.5	4
49	Predictive potential of cardiovascular risk factors and their associations with arterial stiffness in people of European and Korean ethnic groups. *Russian Journal of Cardiology*, **2021**, 26, 4230	1.3	
48	Malignant and benign thyroid nodule differentiation through the analysis of blood plasma with terahertz spectroscopy. *Biomedical Optics Express*, **2021**, 12, 1020-1035	3.5	9
47	Paraffin-Embedded Prostate Cancer Tissue Grading Using Terahertz Spectroscopy and Machine Learning. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2020**, 41, 1089-1104	2.2	8
46	Imitation of optical coherence tomography images by wave Monte Carlo-based approach implemented with the Leontovich□Fock equation. *Optical Engineering*, **2020**, 59, 1	1.1	1
45	Breathomics for Lung Cancer Diagnosis **2020**, 209-243		
44	Multiphoton Excitation Microscopy for Identification and Operational Control of Extracellular Matrix Components of Body Tissues. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2020**, 128, 794-798	0.7	
43	Diagnosis of Diabetes Based on Analysis of Exhaled Air by Terahertz Spectroscopy and Machine Learning. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2020**, 128, 809-814	0.7	5
42	Broadband tunable source of mid-IR laser radiation for photoacoustic spectroscopy. *Quantum Electronics*, **2019**, 49, 29-34	1.8	3
41	Analysis of Collagen Spatial Structure Using Multiphoton Microscopy and Machine Learning Methods. *Biochemistry (Moscow)*, **2019**, 84, S108-S123	2.9	13
40	Research on lymphedema by method of high-resolution multiphoton microscopy. *Journal of Physics: Conference Series*, **2019**, 1145, 012043	0.3	0
39	CREATION OF A MAGNETIC DRIVEN GATE FOR THZ RAYS. *Progress in Electromagnetics Research M*, **2019**, 80, 103-109	0.6	2
38	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	0.7	1
37	CS-SFD ALGORITHM FOR GNSS ANTI-JAMMING RECEIVERS. *Progress in Electromagnetics Research M*, **2019**, 79, 91-100	0.6	
36	Label-Free Non-linear Multimodal Optical Microscopy□Basics, Development, and Applications. *Frontiers in Physics*, **2019**, 7,	3.9	16

35	Medical diagnosis using NIR and THz tissue imaging and machine learning methods **2019**,		2
34	Application of multiphoton imaging and machine learning to lymphedema tissue analysis. *Biomedical Optics Express*, **2019**, 10, 3353-3368	3.5	10
33	Laser photoacoustic spectroscopy applications in breathomics. *Journal of Biomedical Photonics and Engineering*, **2019**, 5, 010303	2.4	4
32	Modeling of IR laser radiation propagation in bio-tissues **2019**,		3
31	Diagnosis of oral lichen planus from analysis of saliva samples using terahertz time-domain spectroscopy and chemometrics. *Journal of Biomedical Optics*, **2018**, 23, 1-8	3.5	4
30	Applications of THz laser spectroscopy and machine learning for medical diagnostics. *EPJ Web of Conferences*, **2018**, 195, 10006	0.3	2
29	Terahertz biophotonics as a tool for studies of dielectric and spectral properties of biological tissues and liquids. *Progress in Quantum Electronics*, **2018**, 62, 1-77	9.1	113
28	Exhaled air analysis using wideband wave number tuning range infrared laser photoacoustic spectroscopy. *Journal of Biomedical Optics*, **2017**, 22, 17002	3.5	15
27	Diagnostics of oral lichen planus based on analysis of volatile organic compounds in saliva **2017**,		1
26	The classification of the patients with pulmonary diseases using breath air samples spectral analysis **2016**,		1
25	Digital Technologies in Providing Development of Algorithms Surgical Treatment of Supraventricular Arrhythmias. *MATEC Web of Conferences*, **2016**, 79, 01063	0.3	
24	Experimental Studies of the Effectiveness of Radio-Frequency Myocardial Ablation Using Irrigated and Dry Penetrating Active Electrodes. *Bio-Medical Engineering*, **2016**, 50, 245-248	0.5	1
23	Classification of patients with broncho-pulmonary diseases based on analysis of absorption spectra of exhaled air samples with SVM and neural network algorithm application **2016**,		3
22	Breath air measurement using wide-band frequency tuning IR laser photo-acoustic spectroscopy **2016**,		1
21	Diagnostics of bronchopulmonary diseases through Mahalanobis distance-based absorption spectral analysis of exhaled air. *Frontiers of Optoelectronics*, **2015**, 8, 183-186	2.8	1
20	Screening of patients with bronchopulmonary diseases using methods of infrared laser photoacoustic spectroscopy and principal component analysis. *Journal of Biomedical Optics*, **2015**, 20, 065001	3.5	11
19	Wavelet based de-noising of breath air absorption spectra profiles for improved classification by principal component analysis **2015**,		2
18	Comparison of classification methods used for analysis of complex biological gas mixtures by means of laser spectroscopy **2015**,		1

17	Determination of component concentrations in models of exhaled air samples using principal component analysis and canonical correlation analysis **2015**,		3
16	Applications of principal component analysis to breath air absorption spectra profiles classification **2015**,		6
15	LaserBreeze gas analyzer for noninvasive diagnostics of air exhaled by patients. *Physics of Wave Phenomena*, **2014**, 22, 189-196	1.2	18
14	Laser spectroscopy and chemometric study of the specific features of air exhaled by patients with lung cancer and chronic obstructive pulmonary disease. *Physics of Wave Phenomena*, **2014**, 22, 210-215	1.2	7
13	Noninvasive express diagnostics of pulmonary diseases based on control of patients gas emission using methods of IR and terahertz laser spectroscopy **2013**,		1
12	Analysis of the absorption spectra of gas emission of patients with lung cancer and chronic obstructive pulmonary disease by laser optoacoustic spectroscopy **2013**,		4
11	A nanosecond optical parametric oscillator in the mid-IR region with double-pass pump. *Instruments and Experimental Techniques*, **2012**, 55, 263-267	0.5	6
10	The system for dehumidification of samples in laser gas analysis. *Atmospheric and Oceanic Optics*, **2012**, 25, 92-95	0.8	4
9	Optical parametric oscillator within 2.4–4.3 μm pumped with a nanosecond Nd:YAG Laser. *Atmospheric and Oceanic Optics*, **2012**, 25, 77-81	0.8	4
8	Investigation of the interaction of femtosecond laser radiation with biotissues by the optoacoustic method. *Russian Physics Journal*, **2010**, 53, 521-525	0.7	2
7	Estimate of lacunarity of vibrational-rotational absorption spectra of water vapor. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2003**, 95, 46-48	0.7	1
6	Fractal properties of the vibrational-rotational absorption bands of water vapor. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2001**, 90, 362-366	0.7	2
5	Soliton formation in a resonant amplifying–absorbing medium. *Quantum Electronics*, **1999**, 29, 894-898	1.8	1
4	Soliton formation processes in optically dense media. *Russian Physics Journal*, **1994**, 37, 997-1000	0.7	
3	Anisotropy of inhomogeneous resonant media during transient interaction with optical pulses. *Russian Physics Journal*, **1994**, 37, 780-783	0.7	
2	Interaction of electromagnetic waves with fractal structures. *Russian Physics Journal*, **1993**, 36, 955-964	0.7	
1	Distortion of the space-time characteristics of short optical pulses due to refraction in atmospheric absorption lines. *Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika)*, **1987**, 30, 660-663		