

Yury V Kistenev

List of Publications by Year in descending order

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105
papers

600
citations

758635

12
h-index

642321

23
g-index

106
all docs

106
docs citations

106
times ranked

447
citing authors

#	ARTICLE	IF	CITATIONS
1	Terahertz biophotonics as a tool for studies of dielectric and spectral properties of biological tissues and liquids. <i>Progress in Quantum Electronics</i> , 2018, 62, 1-77.	3.5	204
2	Label-Free Non-linear Multimodal Optical Microscopy—Basics, Development, and Applications. <i>Frontiers in Physics</i> , 2019, 7, .	1.0	34
3	LaserBreeze gas analyzer for noninvasive diagnostics of air exhaled by patients. <i>Physics of Wave Phenomena</i> , 2014, 22, 189-196.	0.3	26
4	Exhaled air analysis using wideband wave number tuning range infrared laser photoacoustic spectroscopy. <i>Journal of Biomedical Optics</i> , 2017, 22, 017002.	1.4	26
5	Malignant and benign thyroid nodule differentiation through the analysis of blood plasma with terahertz spectroscopy. <i>Biomedical Optics Express</i> , 2021, 12, 1020.	1.5	23
6	Screening of patients with bronchopulmonary diseases using methods of infrared laser photoacoustic spectroscopy and principal component analysis. <i>Journal of Biomedical Optics</i> , 2015, 20, 065001.	1.4	22
7	Application of multiphoton imaging and machine learning to lymphedema tissue analysis. <i>Biomedical Optics Express</i> , 2019, 10, 3353.	1.5	22
8	Analysis of Collagen Spatial Structure Using Multiphoton Microscopy and Machine Learning Methods. <i>Biochemistry (Moscow)</i> , 2019, 84, 108-123.	0.7	21
9	Laser spectroscopy and chemometric study of the specific features of air exhaled by patients with lung cancer and chronic obstructive pulmonary disease. <i>Physics of Wave Phenomena</i> , 2014, 22, 210-215.	0.3	16
10	Application of machine learning and laser optical-acoustic spectroscopy to study the profile of exhaled air volatile markers of acute myocardial infarction. <i>Journal of Breath Research</i> , 2021, 15, 027104.	1.5	16
11	Paraffin-Embedded Prostate Cancer Tissue Grading Using Terahertz Spectroscopy and Machine Learning. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020, 41, 1089-1104.	1.2	14
12	Diagnosis of oral lichen planus from analysis of saliva samples using terahertz time-domain spectroscopy and chemometrics. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	14
13	Applications of principal component analysis to breath air absorption spectra profiles classification. , 2015, , .		12
14	Label-free multimodal nonlinear optical microscopy for biomedical applications. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	12
15	Optical parametric oscillator within 2.4–4.3 μm pumped with a nanosecond Nd:YAG Laser. <i>Atmospheric and Oceanic Optics</i> , 2012, 25, 77-81.	0.6	11
16	A nanosecond optical parametric oscillator in the mid-IR region with double-pass pump. <i>Instruments and Experimental Techniques</i> , 2012, 55, 263-267.	0.1	10
17	Diagnosis of Diabetes Based on Analysis of Exhaled Air by Terahertz Spectroscopy and Machine Learning. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2020, 128, 809-814.	0.2	9
18	Analysis of the absorption spectra of gas emission of patients with lung cancer and chronic obstructive pulmonary disease by laser optoacoustic spectroscopy. , 2013, , .		8

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19	Laser photoacoustic spectroscopy applications in breathomics. Journal of Biomedical Photonics and Engineering, 2019, 5, 010303.	0.4	8
20	Imitation of optical coherence tomography images by wave Monte Carlo-based approach implemented with the Leontovich-Fock equation. Optical Engineering, 2020, 59, 1.	0.5	7
21	Types of spectroscopy and microscopy techniques for cancer diagnosis: a review. Lasers in Medical Science, 2022, 37, 3067-3084.	1.0	7
22	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, , .		6
23	Determination of component concentrations in models of exhaled air samples using principal component analysis and canonical correlation analysis. , 2015, , .		5
24	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
25	The system for dehumidification of samples in laser gas analysis. Atmospheric and Oceanic Optics, 2012, 25, 92-95.	0.6	4
26	Applications of THz laser spectroscopy and machine learning for medical diagnostics. EPJ Web of Conferences, 2018, 195, 10006.	0.1	4
27	Modeling of IR laser radiation propagation in bio-tissues. , 2019, , .		4
28	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
29	CREATION OF A MAGNETIC DRIVEN GATE FOR THZ RAYS. Progress in Electromagnetics Research M, 2019, 80, 103-109.	0.5	3
30	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
31	Broadband tunable source of mid-IR laser radiation for photoacoustic spectroscopy. Quantum Electronics, 2019, 49, 29-34.	0.3	3
32	Medical diagnosis using NIR and THz tissue imaging and machine learning methods. , 2019, , .		3
33	Fractal properties of the vibrational-rotational absorption bands of water vapor. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 90, 362-366.	0.2	2
34	Investigation of the interaction of femtosecond laser radiation with biotissues by the optoacoustic method. Russian Physics Journal, 2010, 53, 521-525.	0.2	2
35	Wavelet based de-noising of breath air absorption spectra profiles for improved classification by principal component analysis. AIP Conference Proceedings, 2015, , .	0.3	2
36	Analysis of the component composition of exhaled air using laser spectroscopy and canonical correlation analysis. , 2015, , .		2

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37	Diagnostics of bronchopulmonary diseases through Mahalanobis distance-based absorption spectral analysis of exhaled air. <i>Frontiers of Optoelectronics</i> , 2015, 8, 183-186.	1.9	2
38	The classification of the patients with pulmonary diseases using breath air samples spectral analysis. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	2
39	Research on lymphedema by method of high-resolution multiphoton microscopy. <i>Journal of Physics: Conference Series</i> , 2019, 1145, 012043.	0.3	2
40	Electroencephalography Registration of Laser Acupuncture Action on Children with Autism Disorder. , 2020, , .		2
41	Soliton formation in a resonant amplifyingâ€”absorbing medium. <i>Quantum Electronics</i> , 1999, 29, 894-898.	0.3	1
42	Estimate of lacunarity of vibrational-rotational absorption spectra of water vapor. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2003, 95, 46-48.	0.2	1
43	<title>Photoacoustic spectroscopy of the expired air at a human respiratory pathology</title> . , 2006, , .		1
44	Noninvasive express diagnostics of pulmonary diseases based on control of patientâ€™s gas emission using methods of IR and terahertz laser spectroscopy. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
45	New technologies in treatment of atrial fibrillation in cardiosurgical patients. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	1
46	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
47	Breath air measurement using wide-band frequency tuning IR laser photo-acoustic spectroscopy. , 2016, , .		1
48	Experimental Studies of the Effectiveness of Radio-Frequency Myocardial Ablation Using Irrigated and Dry Penetrating Active Electrodes. <i>Bio-Medical Engineering</i> , 2016, 50, 245-248.	0.3	1
49	Diagnostics of oral lichen planus based on analysis of volatile organic compounds in saliva. , 2017, , .		1
50	CS-SFD ALGORITHM FOR GNSS ANTI-JAMMING RECEIVERS. <i>Progress in Electromagnetics Research M</i> , 2019, 79, 91-100.	0.5	1
51	Kalman filtering in the problem of noise reduction in the absorption spectra of exhaled air. , 2016, , .		1
52	Improvement of the multiphoton fluorescence microscopy images quality using digital filtration. , 2018, , .		1
53	Possibilities of cytospectrophotometry of oncological prostate cancer tissue analysis in the TGz spectral range. , 2018, , .		1
54	Analysis of exhaled air of patients with myocardial infarction by laser spectroscopy and data mining. , 2018, , .		1

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55	Breathomics for Lung Cancer Diagnosis. , 2020, , 209-243.		1
56	Machine learning methods for the in-vitro analysis of preimplantation embryo Raman micro-spectroscopy. , 2020, , .		1
57	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
58	Distortion of the space-time characteristics of short optical pulses due to refraction in atmospheric absorption lines. Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh) Tj ETQq0 0 0 rgBT /Ovedock 100f 50 617		
59	Interaction of electromagnetic waves with fractal structures. Russian Physics Journal, 1993, 36, 955-964.	0.2	0
60	Soliton formation processes in optically dense media. Russian Physics Journal, 1994, 37, 997-1000.	0.2	0
61	Anisotropy of inhomogeneous resonant media during transient interaction with optical pulses. Russian Physics Journal, 1994, 37, 780-783.	0.2	0
62	Sounding of gaseous admixtures in air using effects of nonlinear and nonstationary interaction. , 1994, , .		0
63	Influence of spatial variations of relaxation matrix on the atmospheric transmission in region of resonance absorption. , 1994, 2205, 430.		0
64	Iodine photodissociation laser and its applications in atmospheric research. , 1995, 2619, 246.		0
65	Spontaneous soliton formation in a region of vibration-rotational transition of molecular multicomponent media. , 1997, , .		0
66	Infrared atmospheric transmission of laser radiation. , 1997, , .		0
67	Spontaneous soliton formation in two-component resonantly absorbing media. , 1998, , .		0
68	<title>Spontaneous soliton formation in a resonant molecular medium</title>. , 2000, , .		0
69	Trace gas concentration measurements in an atmosphere with large gradient of gas concentration. , 2000, , .		0
70	Fractal properties of absorption spectra of vibration-rotation bands of gas molecules. , 2000, 4063, 97.		0
71	<title>Multifrequency laser radiation propagation along extended atmospheric paths</title>. , 2000, , .		0
72	<title>Propagation of femtosecond Ti-sapphire laser radiation through the horizontal atmospheric paths</title>. , 2000, , .		0

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73	Evaluations of influence of two-stage stimulated Raman scattering on the losses of powerful laser radiation energy in the complex gas media. , 2000, , .		0
74	<title>Complex mechanisms of nonlinear interaction of femtosecond laser pulses with molecular atmosphere</title>. , 2006, 6160, 116.		0
75	Application of support vector machine method for the analysis of absorption spectra of exhaled air of patients with broncho-pulmonary diseases. , 2014, , .		0
76	Using of laser spectroscopy and chemometrics methods for identification of patients with lung cancer, patients with COPD and healthy people from absorption spectra of exhaled air. , 2014, , .		0
77	Neurohumoral indicators of efficacy radiofrequency cardiac denervation. AIP Conference Proceedings, 2015, , .	0.3	0
78	Irrigated and non-irrigated radiofrequency ablation systems and ways of non-irrigated RF systems development. AIP Conference Proceedings, 2015, , .	0.3	0
79	Gas analysis in medicine: New developments. AIP Conference Proceedings, 2015, , .	0.3	0
80	Preface: 5th International Scientific Conference "New Operational Technologies" AIP Conference Proceedings, 2015, , .	0.3	0
81	Quantitative comparison of the absorption spectra of the gas mixtures in analogy to the criterion of Pearson. , 2015, , .		0
82	Statistical approach to the analysis of the composition of multicomponent gas mixtures using absorption laser spectroscopy. Proceedings of SPIE, 2015, , .	0.8	0
83	The reveal of a set of informative features in the task of diagnosis on a base of exhaled air absorption spectra analysis using nonparametric algorithms of pattern recognition. Proceedings of SPIE, 2015, , .	0.8	0
84	Twin HgGa2S4optical parametric oscillator at 4.3-10.78 Åµm for biomedical applications. , 2015, , .		0
85	Possibilities of laser spectroscopy for monitoring the profile dynamics of the volatile metabolite in exhaled air. Proceedings of SPIE, 2016, , .	0.8	0
86	Digital Technologies in Providing Development of Algorithms Surgical Treatment of Supraventricular Arrhythmias. MATEC Web of Conferences, 2016, 79, 01063.	0.1	0
87	Noncontact phase-sensitive dynamic optical coherence elastography at megahertz rate. , 2016, , .		0
88	A comparison study of optical coherence elastography and laser Michelson vibrometry. Proceedings of SPIE, 2016, , .	0.8	0
89	Investigation of glycation products by THz time-domain spectroscopy. , 2018, , .		0
90	IR and THz imaging of paraffin embedded cancer tissues. , 2019, , .		0

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91	Multiphoton Excitation Microscopy for Identification and Operational Control of Extracellular Matrix Components of Body Tissues. Optics and Spectroscopy (English Translation of Optika i Tj ETQq1 1 0.7843142gBT /Overlock 10	1.0	0
92	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.	0.4	0
93	Investigation of the electric field distribution in the human brain based on MRI and EEG data. , 2018, , .		0
94	Phase transition monitoring in adipose tissue by multiphoton microscope. , 2019, , .		0
95	Lymphedema tissue analysis using optical imaging and gradient processing. , 2019, , .		0
96	Optical coherence tomography modeling method based on Leontovich â€“ Fock equation. , 2019, , .		0
97	The study of paraffin-embedded tissue using multiphoton microscopy. , 2019, , .		0
98	Estimation of the collagen and elastin condition at lymphedema using multiphoton microscopy. , 2019, , .		0
99	THz spectroscopy of emanation from the skin of patients the diabetes mellitus. , 2019, , .		0
100	Influence of laser acupuncture on EEG characteristics. , 2019, , .		0
101	The study of changes of Young's modulus in disorganization of the collagen structures by optical coherence elastography. , 2019, , .		0
102	Visualization of the lymphedema tissue internal structure by monitoring of backscattering. , 2019, , .		0
103	Structure imaging of biological tissue by optical coherence elastography. , 2019, , .		0
104	Differential diagnostics of paraffin-embedded tissues by IR-THz spectroscopy and machine learning. , 2020, , .		0
105	The study of spectral changes in THz range in normal and pathological skin in vivo depending on the dehydration methods used. , 2020, , .		0