List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/363765/publications.pdf Version: 2024-02-01



YIIDV V KISTENEV

#	Article	IF	CITATIONS
1	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.	7.0	204
2	Label-Free Non-linear Multimodal Optical Microscopy—Basics, Development, and Applications. Frontiers in Physics, 2019, 7, .	2.1	34
3	LaserBreeze gas analyzer for noninvasive diagnostics of air exhaled by patients. Physics of Wave Phenomena, 2014, 22, 189-196.	1.1	26
4	Exhaled air analysis using wideband wave number tuning range infrared laser photoacoustic spectroscopy. Journal of Biomedical Optics, 2017, 22, 017002.	2.6	26
5	Malignant and benign thyroid nodule differentiation through the analysis of blood plasma with terahertz spectroscopy. Biomedical Optics Express, 2021, 12, 1020.	2.9	23
6	Screening of patients with bronchopulmonary diseases using methods of infrared laser photoacoustic spectroscopy and principal component analysis. Journal of Biomedical Optics, 2015, 20, 065001.	2.6	22
7	Application of multiphoton imaging and machine learning to lymphedema tissue analysis. Biomedical Optics Express, 2019, 10, 3353.	2.9	22
8	Analysis of Collagen Spatial Structure Using Multiphoton Microscopy and Machine Learning Methods. Biochemistry (Moscow), 2019, 84, 108-123.	1.5	21
9	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.	1.1	16
10	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, 027104.	3.0	16
11	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	14
12	Diagnosis of oral lichen planus from analysis of saliva samples using terahertz time-domain spectroscopy and chemometrics. Journal of Biomedical Optics, 2018, 23, 1.	2.6	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. Journal of Applied Physics, 2021, 129, .	2.5	12
15	Optical parametric oscillator within 2.4–4.3 μm pumped with a nanosecond Nd:YAG Laser. Atmospheric and Oceanic Optics, 2012, 25, 77-81.	1.3	11
16	A nanosecond optical parametric oscillator in the mid-IR region with double-pass pump. Instruments and Experimental Techniques, 2012, 55, 263-267.	0.5	10
17	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. –	0.6	9
18	Analysis of the absorption spectra of gas emission of patients with lung cancer and chronic		8

obstructive pulmonary disease by laser optoacoustic spectroscopy. , 2013, , .

#	Article	IF	CITATIONS
19	Laser photoacoustic spectroscopy applications in breathomics. Journal of Biomedical Photonics and Engineering, 2019, 5, 010303.	0.7	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.	1.0	7
21	Types of spectroscopy and microscopy techniques for cancer diagnosis: a review. Lasers in Medical Science, 2022, 37, 3067-3084.	2.1	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.	4.5	5
25	The system for dehumidification of samples in laser gas analysis. Atmospheric and Oceanic Optics, 2012, 25, 92-95.	1.3	4
26	Applications of THz laser spectroscopy and machine learning for medical diagnostics. EPJ Web of Conferences, 2018, 195, 10006.	0.3	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.	4.5	4
29	CREATION OF A MAGNETIC DRIVEN GATE FOR THZ RAYS. Progress in Electromagnetics Research M, 2019, 80, 103-109.	0.9	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.	0.6	3
31	Broadband tunable source of mid-IR laser radiation for photoacoustic spectroscopy. Quantum Electronics, 2019, 49, 29-34.	1.0	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.	0.6	2
34	Investigation of the interaction of femtosecond laser radiation with biotissues by the optoacoustic method. Russian Physics Journal, 2010, 53, 521-525.	0.4	2
35	Wavelet based de-noising of breath air absorption spectra profiles for improved classification by principal component analysis. AIP Conference Proceedings, 2015, , .	0.4	2
36	Analysis of the component composition of exhaled air using laser spectroscopy and canonical correlation analysis. , 2015, , .		2

#	Article	IF	CITATIONS
37	Diagnostics of bronchopulmonary diseases through Mahalanobis distance-based absorption spectral analysis of exhaled air. Frontiers of Optoelectronics, 2015, 8, 183-186.	3.7	2
38	The classification of the patients with pulmonary diseases using breath air samples spectral analysis. AIP Conference Proceedings, 2016, , .	0.4	2
39	Research on lymphedema by method of high-resolution multiphoton microscopy. Journal of Physics: Conference Series, 2019, 1145, 012043.	0.4	2
40	Electroencephalography Registration of Laser Acupuncture Action on Children with Autism Disorder. , 2020, , .		2
41	Soliton formation in a resonant amplifying—absorbing medium. Quantum Electronics, 1999, 29, 894-898.	1.0	1
42	Estimate of lacunarity of vibrational-rotational absorption spectra of water vapor. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2003, 95, 46-48.	0.6	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 patient's gas emission using methods of IR and terahertz laser spectroscopy. Proceedings of SPIE, 2013, , .	0.8	1
45	New technologies in treatment of atrial fibrillation in cardiosurgical patients. AIP Conference Proceedings, 2015, , .	0.4	1
46	Comparison of classification methods used for analysis of complex biological gas mixtures by means of laser spectroscopy. Proceedings of SPIE, 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. Bio-Medical Engineering, 2016, 50, 245-248.	0.5	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. Progress in Electromagnetics Research M, 2019, 79, 91-100.	0.9	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

#	Article	IF	CITATIONS
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 PlastiÄeskoj Hirurgii, 2022, 25, 40-52.	0.1	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 Vysshykh Uchebnykh) Tj ETQq0 0 0 rgBT	/Overdock	100Tf 50 617
59	Interaction of electromagnetic waves with fractal structures. Russian Physics Journal, 1993, 36, 955-964.	0.4	0
60	Soliton formation processes in optically dense media. Russian Physics Journal, 1994, 37, 997-1000.	0.4	0
61	Anisotropy of inhomogeneous resonant media during transient interaction with optical pulses. Russian Physics Journal, 1994, 37, 780-783.	0.4	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	lodine 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

YURY V KISTENEV

#	Article	IF	CITATIONS
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, , .	0.4	0
78	Irrigated and non-irrigated radiofrequency ablation systems and ways of non-irrigated RF systems development. AIP Conference Proceedings, 2015, , .	0.4	0
79	Gas analysis in medicine: New developments. AIP Conference Proceedings, 2015, , .	0.4	0
80	Preface: 5th International Scientific Conference "New Operational Technologies― AIP Conference Proceedings, 2015, , .	0.4	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 $\hat{A}\mu m$ 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.	0.2	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

#	Article	IF	CITATIONS
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 0.7843	3 104.6gBT	/Oøerlock 10
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.	1.4	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 $\hat{a} \in$ "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