Victor V Dremin

List of Publications by Year
in descending order

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69	859	471509 17	526287 27
papers	citations	h-index	g-index

72	72	72	494
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluorescence lifetime needle optical biopsy discriminates hepatocellular carcinoma. Biomedical Optics Express, 2022, 13, 633.	2.9	8
2	Interaction of Mitochondrial Calcium and ROS in Neurodegeneration. Cells, 2022, 11, 706.	4.1	54
3	Optical Diagnostics of the Maxillary Sinuses by Digital Diaphanoscopy Technology. Diagnostics, 2021, 11, 77.	2.6	10
4	Polyacrylamide-based phantoms of human skin for hyperspectral fluorescence imaging and spectroscopy. Quantum Electronics, 2021, 51, 118-123.	1.0	4
5	Skin Complications of Diabetes Mellitus Revealed by Polarized Hyperspectral Imaging and Machine Learning. IEEE Transactions on Medical Imaging, 2021, 40, 1207-1216.	8.9	60
6	Spatial heterogeneity of cutaneous blood flow respiratory-related oscillations quantified via laser speckle contrast imaging. PLoS ONE, 2021, 16, e0252296.	2.5	7
7	Polarization and depolarization metrics as optical markers in support to histopathology of ex vivo colon tissue. Biomedical Optics Express, 2021, 12, 4560.	2.9	27
8	Laser speckle contrast imaging and machine learning in application to physiological fluids flow rate recognition. Vibroengineering PROCEDIA, 2021, 38, 50-55.	0.5	9
9	Impairments of cerebral blood flow microcirculation in rats brought on by cardiac cessation and respiratory arrest. Journal of Biophotonics, 2021, 14, e202100216.	2.3	16
10	Multimodal Laparoscopic System for Biological Tissue Perfusion and Metabolism Assessment. , 2021, , .		0
11	Testing a Fine-Needle Optical Probe for Recording Changes in the Fluorescence of Coenzymes of Cellular Respiration. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2020, 128, 742-751.	0.6	4
12	Optical percutaneous needle biopsy of the liver: a pilot animal and clinical study. Scientific Reports, 2020, 10, 14200.	3.3	21
13	Heterogeneity of cutaneous blood flow respiratory-related oscillations quantified via LSCI wavelet decomposition. , 2020, , .		1
14	Wearable Laser Doppler Flowmetry Sensor: A Feasibility Study with Smoker and Non-Smoker Volunteers. Biosensors, 2020, 10, 201.	4.7	15
15	Machine Learning Aided Photonic Diagnostic System for Minimally Invasive Optically Guided Surgery in the Hepatoduodenal Area. Diagnostics, 2020, 10, 873.	2.6	8
16	Colon cancer detection by using PoincarÃ© sphere and <scp>2D</scp> polarimetric mapping of ex vivo colon samples. Journal of Biophotonics, 2020, 13, e202000082.	2.3	41
17	Interaction of Oxidative Stress and Misfolded Proteins in the Mechanism of Neurodegeneration. Life, 2020, 10, 101.	2.4	53
18	Biophotonics methods for functional monitoring of complications of diabetes mellitus. Journal of Biophotonics, 2020, 13, e202000203.	2.3	19

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19	Laser speckle contrast imaging of blood microcirculation in pancreatic tissues during laparoscopic interventions. Quantum Electronics, 2020, 50, 33-40.	1.0	21
20	Monitoring oxidative metabolism while modeling pancreatic ischemia in mice using a multimodal spectroscopy technique. Laser Physics Letters, 2020, 17, 115605.	1.4	7
21	Imaging of early stage breast cancer with circularly polarized light. , 2020, , .		6
22	Brain metabolism changes in cases of impaired breathing or blood circulation in rodents evaluated by real time optical spectroscopy methods. , 2020, , .		1
23	Optical fine needle biopsy in hepatocellular carcinoma mouse model. , 2020, , .		0
24	Fluorescence Imaging System for Biological Tissues Diagnosis: Phantom and Animal Studies. Journal of Biomedical Photonics and Engineering, 2020, 6, .	0.7	2
25	Tissue mimicking phantoms for fluorescence imaging. , 2020, , .		1
26	Monte Carlo simulation of signals in digital diaphanoscopy of the maxillary sinuses. , 2020, , .		0
27	Machine Learning aided Fiber-Optical System for Liver Cancer Diagnosis in Minimally Invasive Surgical Interventions. , 2020, , .		0
28	Multimodal Optical Diagnostics of the Microhaemodynamics in Upper and Lower Limbs. Frontiers in Physiology, 2019, 10, 416.	2.8	13
29	Wavelet Analysis of the Temporal Dynamics of the Laser Speckle Contrast in Human Skin. IEEE Transactions on Biomedical Engineering, 2019, 67, 1-1.	4.2	11
30	Fiber-Optic System for Intraoperative Study of Abdominal Organs during Minimally Invasive Surgical Interventions. Applied Sciences (Switzerland), 2019, 9, 217.	2.5	17
31	Optical probe pressure effects on cutaneous blood flow. Clinical Hemorheology and Microcirculation, 2019, 72, 259-267.	1.7	7
32	Dynamic evaluation of blood flow microcirculation by combined use of the laser Doppler flowmetry and highâ€speed videocapillaroscopy methods. Journal of Biophotonics, 2019, 12, e201800317.	2.3	33
33	Optical fine-needle aspiration biopsy in a rat model. , 2019, , .		4
34	Optical fine-needle biopsy approach for intraoperative multimodal diagnostics in minimally invasive abdominal surgery. , 2019, , .		3
35	Influence of blood pulsation on diagnostic volume in pulse oximetry and photoplethysmography measurements. Applied Optics, 2019, 58, 9398.	1.8	40
36	Hyperspectral imaging of human skin aided by artificial neural networks. Biomedical Optics Express, 2019, 10, 3545.	2.9	68

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37	Optical diagnostics of bile duct tissues state with tumor compression. , 2019, , .		3
38	Investigation of blood microcirculation parameters in patients with rheumatic diseases by videocapillaroscopy and laser Doppler flowmetry during cold pressor test. , 2019, , .		0
39	Laser speckle contrast imaging of abdominal organs in mouse model. , 2019, , .		0
40	Fluorescence spectroscopy approach for blood influence compensation. , 2019, , .		0
41	Assessment of age-related skin changes using hyperspectral polarization imaging. , 2019, , .		0
42	Analysis of changes in blood flow oscillations under different probe pressure using laser Doppler spectrum decomposition. , 2019, , .		0
43	Influence of blood pulsation on diagnostic volume in pulse oximetry and photoplethysmography measurements: publisherâ€™s note. Applied Optics, 2019, 58, 9688.	1.8	0
44	Detection of angiospastic disorders in the microcirculatory bed using laser diagnostics technologies. Journal of Innovative Optical Health Sciences, 2018, 11, 1750016.	1.0	13
45	Spectral analysis of the blood flow in the foot microvascular bed during thermal testing in patients with diabetes mellitus. Microvascular Research, 2018, 120, 13-20.	2.5	36
46	Laser doppler spectrum decomposition applied in diagnostics of microcirculatory disturbances. , 2018, , .		1
47	Fibre-optic probe for fluorescence diagnostics with blood influence compensation. , 2018, , .		3
48	Application of the fluorescence spectroscopy for the analysis of the state of abdominal cavity organs tissues in mini-invasive surgery. , 2018, , .		1
49	Blood flow oscillations as a signature of microvascular abnormalities. , 2018, , .		1
50	Evaluation of microvascular disturbances in rheumatic diseases by analysis of skin blood flow oscillations. , 2018, , .		0
51	Peculiarities of local blood microcirculation in patients with psoriasis. , 2018, , .		2
52	Laser Doppler flowmetry in blood and lymph monitoring, technical aspects and analysis. Proceedings of SPIE, 2017, , .	0.8	8
53	Evaluation of blood microcirculation parameters by combined use of laser Doppler flowmetry and videocapillaroscopy methods. Proceedings of SPIE, 2017, , .	0.8	3
54	Evaluation of microcirculatory disturbances in patients with rheumatic diseases by the method of diffuse reflectance spectroscopy. Human Physiology, 2017, 43, 222-228.	0.4	13

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55	Investigation of Doppler spectra of laser radiation scattered inside hand skin during occlusion test. Journal of Physics: Conference Series, 2017, 929, 012063.	0.4	2
56	Application of optical non-invasive methods to diagnose the state of the lower limb tissues in patients with diabetes mellitus. Journal of Physics: Conference Series, 2017, 929, 012069.	0.4	1
57	Functional Changes in Blood Microcirculation in the Skin of the Foot during Heating Tests in Patients with Diabetes Mellitus. Human Physiology, 2017, 43, 693-699.	0.4	10
58	A Complex Approach to Noninvasive Estimation of Microcirculatory Tissue Impairments in Feet of Patients with Diabetes Mellitus using Spectroscopy. Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	8
59	Multimodal optical measurement for study of lower limb tissue viability in patients with diabetes mellitus. Journal of Biomedical Optics, 2017, 22, 1.	2.6	40
60	The influence of local pressure on evaluation parameters of skin blood perfusion and fluorescence. Proceedings of SPIE, 2017, , .	0.8	5
61	Assessment of tissue ischemia of nail fold precapillary zones using a fluorescence capillaroscopy. Proceedings of SPIE, 2017, , .	0.8	0
62	How the melanin concentration in the skin affects the fluorescence-spectroscopy signal formation. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2016, 83, 43.	0.4	24
63	The development of attenuation compensation models of fluorescence spectroscopy signals. Proceedings of SPIE, 2016, , .	0.8	7
64	Computational model of bladder tissue based on its measured optical properties. Journal of Biomedical Optics, 2016, 21, 025006.	2.6	22
65	The blood perfusion and NADH/FAD content combined analysis in patients with diabetes foot. Proceedings of SPIE, 2016, , .	0.8	6
66	Optical non-invasive diagnostics of microcirculatory-tissue systems of the human body: questions of metrological and instrumentation provision. Journal of Biomedical Photonics and Engineering, 2016, 2, 040305.	0.7	5
67	A novel excitation-emission wavelength model to facilitate the diagnosis of urinary bladder diseases. , 2015, , .		6
68	Individual variability analysis of fluorescence parameters measured in skin with different levels of nutritive blood flow. Medical Engineering and Physics, 2015, 37, 574-583.	1.7	48
69	Evaluating adaptation options of microcirculatory-tissue systems based on the physiological link of nutritive blood flow and redox ratio. Proceedings of SPIE, 2015, , .	0.8	0