

# Victor V Dremmin

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

859  
citations

471509

17  
h-index

526287

27  
g-index

72  
all docs

72  
docs citations

72  
times ranked

494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperspectral imaging of human skin aided by artificial neural networks. <i>Biomedical Optics Express</i> , 2019, 10, 3545.	2.9	68
2	Skin Complications of Diabetes Mellitus Revealed by Polarized Hyperspectral Imaging and Machine Learning. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 1207-1216.	8.9	60
3	Interaction of Mitochondrial Calcium and ROS in Neurodegeneration. <i>Cells</i> , 2022, 11, 706.	4.1	54
4	Interaction of Oxidative Stress and Misfolded Proteins in the Mechanism of Neurodegeneration. <i>Life</i> , 2020, 10, 101.	2.4	53
5	Individual variability analysis of fluorescence parameters measured in skin with different levels of nutritive blood flow. <i>Medical Engineering and Physics</i> , 2015, 37, 574-583.	1.7	48
6	Colon cancer detection by using Poincaré sphere and $2D$ polarimetric mapping of ex vivo colon samples. <i>Journal of Biophotonics</i> , 2020, 13, e202000082.	2.3	41
7	Multimodal optical measurement for study of lower limb tissue viability in patients with diabetes mellitus. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	40
8	Influence of blood pulsation on diagnostic volume in pulse oximetry and photoplethysmography measurements. <i>Applied Optics</i> , 2019, 58, 9398.	1.8	40
9	Spectral analysis of the blood flow in the foot microvascular bed during thermal testing in patients with diabetes mellitus. <i>Microvascular Research</i> , 2018, 120, 13-20.	2.5	36
10	Dynamic evaluation of blood flow microcirculation by combined use of the laser Doppler flowmetry and high-speed videocapillaroscopy methods. <i>Journal of Biophotonics</i> , 2019, 12, e201800317.	2.3	33
11	Polarization and depolarization metrics as optical markers in support to histopathology of ex vivo colon tissue. <i>Biomedical Optics Express</i> , 2021, 12, 4560.	2.9	27
12	How the melanin concentration in the skin affects the fluorescence-spectroscopy signal formation. <i>Journal of Optical Technology (A Translation of Opticheskii Zhurnal)</i> , 2016, 83, 43.	0.4	24
13	Computational model of bladder tissue based on its measured optical properties. <i>Journal of Biomedical Optics</i> , 2016, 21, 025006.	2.6	22
14	Optical percutaneous needle biopsy of the liver: a pilot animal and clinical study. <i>Scientific Reports</i> , 2020, 10, 14200.	3.3	21
15	Laser speckle contrast imaging of blood microcirculation in pancreatic tissues during laparoscopic interventions. <i>Quantum Electronics</i> , 2020, 50, 33-40.	1.0	21
16	Biophotonics methods for functional monitoring of complications of diabetes mellitus. <i>Journal of Biophotonics</i> , 2020, 13, e202000203.	2.3	19
17	Fiber-Optic System for Intraoperative Study of Abdominal Organs during Minimally Invasive Surgical Interventions. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 217.	2.5	17
18	Impairments of cerebral blood flow microcirculation in rats brought on by cardiac cessation and respiratory arrest. <i>Journal of Biophotonics</i> , 2021, 14, e202100216.	2.3	16

#	ARTICLE	IF	CITATIONS
19	Wearable Laser Doppler Flowmetry Sensor: A Feasibility Study with Smoker and Non-Smoker Volunteers. <i>Biosensors</i> , 2020, 10, 201.	4.7	15
20	Evaluation of microcirculatory disturbances in patients with rheumatic diseases by the method of diffuse reflectance spectroscopy. <i>Human Physiology</i> , 2017, 43, 222-228.	0.4	13
21	Detection of angiospastic disorders in the microcirculatory bed using laser diagnostics technologies. <i>Journal of Innovative Optical Health Sciences</i> , 2018, 11, 1750016.	1.0	13
22	Multimodal Optical Diagnostics of the Microhaemodynamics in Upper and Lower Limbs. <i>Frontiers in Physiology</i> , 2019, 10, 416.	2.8	13
23	Wavelet Analysis of the Temporal Dynamics of the Laser Speckle Contrast in Human Skin. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 67, 1-1.	4.2	11
24	Functional Changes in Blood Microcirculation in the Skin of the Foot during Heating Tests in Patients with Diabetes Mellitus. <i>Human Physiology</i> , 2017, 43, 693-699.	0.4	10
25	Optical Diagnostics of the Maxillary Sinuses by Digital Diaphanoscopy Technology. <i>Diagnostics</i> , 2021, 11, 77.	2.6	10
26	Laser speckle contrast imaging and machine learning in application to physiological fluids flow rate recognition. <i>Vibroengineering PROCEDIA</i> , 2021, 38, 50-55.	0.5	9
27	Laser Doppler flowmetry in blood and lymph monitoring, technical aspects and analysis. <i>Proceedings of SPIE</i> , 2017, , .	0.8	8
28	A Complex Approach to Noninvasive Estimation of Microcirculatory Tissue Impairments in Feet of Patients with Diabetes Mellitus using Spectroscopy. <i>Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0ogBT /Overclock 10 Tf</i>		
29	Machine Learning Aided Photonic Diagnostic System for Minimally Invasive Optically Guided Surgery in the Hepatoduodenal Area. <i>Diagnostics</i> , 2020, 10, 873.	2.6	8
30	Fluorescence lifetime needle optical biopsy discriminates hepatocellular carcinoma. <i>Biomedical Optics Express</i> , 2022, 13, 633.	2.9	8
31	The development of attenuation compensation models of fluorescence spectroscopy signals. <i>Proceedings of SPIE</i> , 2016, , .	0.8	7
32	Optical probe pressure effects on cutaneous blood flow. <i>Clinical Hemorheology and Microcirculation</i> , 2019, 72, 259-267.	1.7	7
33	Spatial heterogeneity of cutaneous blood flow respiratory-related oscillations quantified via laser speckle contrast imaging. <i>PLoS ONE</i> , 2021, 16, e0252296.	2.5	7
34	Monitoring oxidative metabolism while modeling pancreatic ischemia in mice using a multimodal spectroscopy technique. <i>Laser Physics Letters</i> , 2020, 17, 115605.	1.4	7
35	A novel excitation-emission wavelength model to facilitate the diagnosis of urinary bladder diseases. , 2015, , .		6
36	The blood perfusion and NADH/FAD content combined analysis in patients with diabetes foot. <i>Proceedings of SPIE</i> , 2016, , .	0.8	6

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37	Imaging of early stage breast cancer with circularly polarized light. , 2020, , .		6
38	The influence of local pressure on evaluation parameters of skin blood perfusion and fluorescence. Proceedings of SPIE, 2017, , .	0.8	5
39	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
40	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
41	Polyacrylamide-based phantoms of human skin for hyperspectral fluorescence imaging and spectroscopy. Quantum Electronics, 2021, 51, 118-123.	1.0	4
42	Optical fine-needle aspiration biopsy in a rat model. , 2019, , .		4
43	Evaluation of blood microcirculation parameters by combined use of laser Doppler flowmetry and videocapillaroscopy methods. Proceedings of SPIE, 2017, , .	0.8	3
44	Optical fine-needle biopsy approach for intraoperative multimodal diagnostics in minimally invasive abdominal surgery. , 2019, , .		3
45	Fibre-optic probe for fluorescence diagnostics with blood influence compensation. , 2018, , .		3
46	Optical diagnostics of bile duct tissues state with tumor compression. , 2019, , .		3
47	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
48	Peculiarities of local blood microcirculation in patients with psoriasis. , 2018, , .		2
49	Fluorescence Imaging System for Biological Tissues Diagnosis: Phantom and Animal Studies. Journal of Biomedical Photonics and Engineering, 2020, 6, .	0.7	2
50	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
51	Heterogeneity of cutaneous blood flow respiratory-related oscillations quantified via LSCI wavelet decomposition. , 2020, , .		1
52	Laser doppler spectrum decomposition applied in diagnostics of microcirculatory disturbances. , 2018, , .		1
53	Application of the fluorescence spectroscopy for the analysis of the state of abdominal cavity organs tissues in mini-invasive surgery. , 2018, , .		1
54	Blood flow oscillations as a signature of microvascular abnormalities. , 2018, , .		1

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55	Brain metabolism changes in cases of impaired breathing or blood circulation in rodents evaluated by real time optical spectroscopy methods. , 2020, , .		1
56	Tissue mimicking phantoms for fluorescence imaging. , 2020, , .		1
57	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
58	Assessment of tissue ischemia of nail fold precapillary zones using a fluorescence capillaroscopy. Proceedings of SPIE, 2017, , .	0.8	0
59	Evaluation of microvascular disturbances in rheumatic diseases by analysis of skin blood flow oscillations. , 2018, , .		0
60	Investigation of blood microcirculation parameters in patients with rheumatic diseases by videocapillaroscopy and laser Doppler flowmetry during cold pressor test. , 2019, , .		0
61	Laser speckle contrast imaging of abdominal organs in mouse model. , 2019, , .		0
62	Fluorescence spectroscopy approach for blood influence compensation. , 2019, , .		0
63	Assessment of age-related skin changes using hyperspectral polarization imaging. , 2019, , .		0
64	Analysis of changes in blood flow oscillations under different probe pressure using laser Doppler spectrum decomposition. , 2019, , .		0
65	Influence of blood pulsation on diagnostic volume in pulse oximetry and photoplethysmography measurements: publisher's note. Applied Optics, 2019, 58, 9688.	1.8	0
66	Optical fine needle biopsy in hepatocellular carcinoma mouse model. , 2020, , .		0
67	Monte Carlo simulation of signals in digital diaphanoscopy of the maxillary sinuses. , 2020, , .		0
68	Multimodal Laparoscopic System for Biological Tissue Perfusion and Metabolism Assessment. , 2021, , .		0
69	Machine Learning aided Fiber-Optical System for Liver Cancer Diagnosis in Minimally Invasive Surgical Interventions. , 2020, , .		0