

Mikhail V Volkov

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

222
citations

1040056

9
h-index

1199594

12
g-index

27
all docs

27
docs citations

27
times ranked

172
citing authors

#	ARTICLE	IF	CITATIONS
1	Video capillaroscopy clarifies mechanism of the photoplethysmographic waveform appearance. <i>Scientific Reports</i> , 2017, 7, 13298.	3.3	44
2	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
3	Fringe analysis for moiré interferometry by modification of the local intensity histogram and use of a two-dimensional Fourier transform method. <i>Measurement Science and Technology</i> , 2000, 11, 1328-1334.	2.6	23
4	High-speed video capillaroscopy method for imaging and evaluation of moving red blood cells. <i>Optics and Lasers in Engineering</i> , 2018, 104, 244-251.	3.8	23
5	Interferometric diagnostics of ablation craters formed by femtosecond laser pulses. <i>Journal of Optical Technology (A Translation of Opticheskii Zhurnal)</i> , 2002, 69, 478.	0.4	19
6	Visualization of skin capillaries with moving red blood cells in arbitrary area of the body. <i>Biomedical Optics Express</i> , 2019, 10, 4896.	2.9	13
7	Image reconstruction using measurements in volume speckle fields formed by different wavelengths. , 2011, , .		11
8	Imaging photoplethysmography and videocapillaroscopy enable noninvasive study of zebrafish cardiovascular system functioning. <i>Journal of Biophotonics</i> , 2020, 13, e202000061.	2.3	11
9	Exoscope-based videocapillaroscopy system for in vivo skin microcirculation imaging of various body areas. <i>Biomedical Optics Express</i> , 2021, 12, 4627.	2.9	11
10	The phase correlation algorithm for stabilization of capillary blood flow video frames. <i>Proceedings of SPIE</i> , 2015, , .	0.8	9
11	Blood Vessel Imaging at Pre-Larval Stages of Zebrafish Embryonic Development. <i>Diagnostics</i> , 2020, 10, 886.	2.6	5
12	Blood Peripheral Circulation Assessment Method Based on Combined Use of the Video-Capillaroscopy, Imaging Photoplethysmography, and Electrocardiography. , 2016, , .		5
13	Evaluation of blood microcirculation parameters by combined use of laser Doppler flowmetry and videocapillaroscopy methods. <i>Proceedings of SPIE</i> , 2017, , .	0.8	3
14	<title>Distorted noisy interferogram enhancement and evaluation by nonlinear 2D data-dependent fringe processing</title>. , 2001, 4398, 255.		2
15	<title>Noise-immune interference fringe analysis by modification of local intensity histogram and 2D Fourier transform method</title>. , 2001, , .		2
16	Nonlinear filtering of noisy interference fringes with the 2D spatially dependent filter impulse response. , 2002, , .		2
17	Study of The Cold Test Effect on Microcirculation by Video Capillaroscopy. <i>Scientific Visualization</i> , 2021, 13, .	0.4	2
18	<title>Distorted image enhancement by the nonlinear local histogram modification method</title>. , 2002, , .		1

#	ARTICLE	IF	CITATIONS
19	Investigation of noise-immunity of the method of extending the unambiguous range in two-wavelength interferometric systems. , 2013, , .		1
20	Method for dating old handwritten manuscripts based on spectral photometry of ink in near infrared range. , 2017, , .		1
21	Evaluation of laser ablation crater relief by white light micro interferometer. , 2017, , .		1
22	Distorted noisy interference fringes enhancement and evaluation by the nonlinear locally-adaptive method. , 2003, 5149, 197.		0
23	Phase reconstruction of noisy patterns of interference fringes. Journal of Optical Technology (A) Tj ETQq1 1 0.784314 rgBT /Qverlock 10	0.4	0
24	Optimized data processing for an optical 3D sensor based on flying triangulation. , 2013, , .		0
25	Analysis of light intensity modulation by red blood cells motion in capillaries. , 2017, , .		0
26	Assessment of tissue ischemia of nail fold precapillary zones using a fluorescence capillaroscopy. Proceedings of SPIE, 2017, , .	0.8	0
27	Investigation of blood microcirculation parameters in patients with rheumatic diseases by videocapillaroscopy and laser Doppler flowmetry during cold pressor test. , 2019, , .		0