Mikhail V Volkov

List of Publications by Year
in descending order

27	222	1040056 9	1199594 12
papers	citations	h-index	g-index

27	27	27	172
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Study of The Cold Test Effect on Microcirculation by Video Capillaroscopy. Scientific Visualization, 2021, 13, .	0.4	2
2	Exoscope-based videocapillaroscopy system for in vivo skin microcirculation imaging of various body areas. Biomedical Optics Express, 2021, 12, 4627.	2.9	11
3	Blood Vessel Imaging at Pre-Larval Stages of Zebrafish Embryonic Development. Diagnostics, 2020, 10, 886.	2.6	5
4	Imaging photoplethysmography and videocapillaroscopy enable noninvasive study of zebrafish cardiovascular system functioning. Journal of Biophotonics, 2020, 13, e202000061.	2.3	11
5	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
6	Visualization of skin capillaries with moving red blood cells in arbitrary area of the body. Biomedical Optics Express, 2019, 10, 4896.	2.9	13
7	Investigation of blood microcirculation parameters in patients with rheumatic diseases by videocapillaroscopy and laser Doppler flowmetry during cold pressor test. , 2019, , .		0
8	High-speed video capillaroscopy method for imaging and evaluation of moving red blood cells. Optics and Lasers in Engineering, 2018, 104, 244-251.	3.8	23
9	Evaluation of blood microcirculation parameters by combined use of laser Doppler flowmetry and videocapillaroscopy methods. Proceedings of SPIE, 2017, , .	0.8	3
10	Method for dating old handwritten manuscripts based on spectral photometry of ink in near infrared range. , 2017, , .		1
11	Analysis of light intensity modulation by red blood cells motion in capillaries. , 2017, , .		0
12	Video capillaroscopy clarifies mechanism of the photoplethysmographic waveform appearance. Scientific Reports, 2017, 7, 13298.	3.3	44
13	Evaluation of laser ablation crater relief by white light micro interferometer. , 2017, , .		1
14	Assessment of tissue ischemia of nail fold precapillary zones using a fluorescence capillaroscopy. Proceedings of SPIE, 2017, , .	0.8	0
15	Blood Peripheral Circulation Assessment Method Based on Combined Use of the Video-Capillaroscopy, Imaging Photoplethysmography, and Electrocardiography. , 2016, , .		5
16	The phase correlation algorithm for stabilization of capillary blood flow video frames. Proceedings of SPIE, 2015, , .	0.8	9
17	Investigation of noise-immunity of the method of extending the unambiguous range in two-wavelength interferometric systems. , 2013, , .		1
18	Optimized data processing for an optical 3D sensor based on flying triangulation. , 2013, , .		0

#	Article	IF	Citations
19	Image reconstruction using measurements in volume speckle fields formed by different wavelengths. , 2011, , .		11
20	Phase reconstruction of noisy patterns of interference fringes. Journal of Optical Technology (A) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	0.4	0
21	Distorted noisy interference fringes enhancement and evaluation by the nonlinear locally-adaptive method. , 2003, 5149, 197.		0
22	Nonlinear filtering of noisy interference fringes with the 2D spatially dependent filter impulse response. , 2002, , .		2
23	<title>Distorted image enhancement by the nonlinear local histogram modification method</title>. , 2002, , .		1
24	Interferometric diagnostics of ablation craters formed by femtosecond laser pulses. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2002, 69, 478.	0.4	19
25	<title>Distorted noisy interferogram enhancement and evaluation by nonlinear 2D data-dependent fringe processing</title>. , 2001, 4398, 255.		2
26	<title>Noise-immune interference fringe analysis by modification of local intensity histogram and 2D Fourier transform method</title>. , 2001, , .		2
27	Fringe analysis for moirÃ© interferometry by modification of the local intensity histogram and use of a two-dimensional Fourier transform method. Measurement Science and Technology, 2000, 11, 1328-1334.	2.6	23