

Ivan V Fedosov

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

307
citations

1307594

7
h-index

940533

16
g-index

56
all docs

56
docs citations

56
times ranked

349
citing authors

#	ARTICLE	IF	CITATIONS
1	In Vitro and in Vivo Visualization and Trapping of Fluorescent Magnetic Microcapsules in a Bloodstream. ACS Applied Materials & Interfaces, 2017, 9, 6885-6893.	8.0	102
2	Photodynamic opening of the blood-brain barrier and pathways of brain clearing. Journal of Biophotonics, 2018, 11, e201700287.	2.3	42
3	Night Photostimulation of Clearance of Beta-Amyloid from Mouse Brain: New Strategies in Preventing Alzheimer's Disease. Cells, 2021, 10, 3289.	4.1	29
4	Photomodulation of lymphatic delivery of liposomes to the brain bypassing the blood-brain barrier: new perspectives for glioma therapy. Nanophotonics, 2021, 10, 3215-3227.	6.0	20
5	<title>Use of dynamic speckle field space-time correlation function estimates for the direction and velocity determination of blood flow</title>. , 2001, 4434, 192.		15
6	Biophotonic Strategies of Measurement and Stimulation of the Cranial and the Extracranial Lymphatic Drainage Function. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-13.	2.9	13
7	Laser Doppler anemometer signal processing for blood flow velocity measurements. Quantum Electronics, 2015, 45, 275-282.	1.0	8
8	Intravital molecular tagging velocimetry of cerebral blood flow using Evans Blue. Journal of Biophotonics, 2018, 11, e201700343.	2.3	8
9	The space-time correlation of the intensity of a speckle field formed as a result of scattering of focused coherent radiation by a capillary liquid flow containing scattering particles. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2002, 93, 434-438.	0.6	7
10	Dynamic ultramicroscopy of laser-induced flows in colloidal solutions of plasmon-resonance particles. Quantum Electronics, 2008, 38, 530-535.	1.0	6
11	The Stress and Vascular Catastrophes in Newborn Rats: Mechanisms Preceding and Accompanying the Brain Hemorrhages. Frontiers in Physiology, 2016, 7, 210.	2.8	6
12	Double-wavelength laser scanning microphotometer (DWLSM) for in-vitro hair shaft and surrounding tissue imaging. , 2001, 4244, 152.		5
13	Laser monitoring of the flow velocity in lymphatic microvessels based on a spatiotemporal correlation of the dynamic speckle fields. Technical Physics Letters, 2002, 28, 690-692.	0.7	5
14	Blood flow velocity measurements in chicken embryo vascular network via PIV approach. , 2018, , .		5
15	Visualisation of the distributions of melanin and indocyanine green in biological tissues. Quantum Electronics, 2008, 38, 263-268.	1.0	4
16	Measurements of the diffusion coefficient of nanoparticles by selective plane illumination microscopy. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2009, 107, 846-852.	0.6	4
17	<title>Blood flow assessment in capillaries of human eye conjunctiva using laser Doppler technique</title>. , 2001, 4427, 104.		3
18	<title>Laser speckle flow velocity sensor for functional biomicroscopy</title>. , 2002, 4707, 206.		3

#	ARTICLE	IF	CITATIONS
19	Bioflow Measuring: Laser Doppler and Speckle Techniques. , 2013, , 487-563.		3
20	A Novel Method to Stimulate Lymphatic Clearance of Beta-Amyloid from Mouse Brain Using Noninvasive Music-Induced Opening of the Bloodâ€œBrain Barrier with EEG Markers. Applied Sciences (Switzerland), 2021, 11, 10287.	2.5	3
21	In-vivo study of blood flow in capillaries using $\hat{1}/4$ PIV method. , 2014, , .		2
22	Laser Doppler and Speckle Techniques for Bioflow Measurements. , 2004, , 397-435.		2
23	Dynamic analysis of optical cell trapping in the ray optics regime. Computer Optics, 2015, 39, 694-701.	2.2	2
24	<title>Speckle-correlation method of bioflow diagnostics</title>. , 2001, , .		1
25	Special training laboratory on optical biophysics. , 2002, , .		1
26	<title>In-vivo lymph dynamic monitoring using speckle-correlation technique and light microscopy</title>. , 2002, 4624, 130.		1
27	Compact laser Doppler flowmeter for application in dentistry. , 2005, , .		1
28	Advanced digital methods for blood flow flux analysis using \hat{A} μ PIV approach. , 2015, , .		1
29	Micro-PIV quantification of capillary blood flow redistribution caused by laser-assisted vascular occlusion. , 2016, , .		1
30	Simple technique of Fourier-transform holographic microscope with compensation of phase aberration. Proceedings of SPIE, 2016, , .	0.8	1
31	Fluorescent angiography of chicken embryo and photobleaching velocimetry. , 2017, , .		1
32	Particle image velocimetry for visualizing laser-induced motion of nanoparticles. SPIE Newsroom, 2007, , .	0.1	1
33	Laser Doppler measurements of a model blood flow. , 1999, , .		0
34	<title>Slit-lamp-based laser Doppler measuring system</title>. , 2000, 4001, 174.		0
35	Laser-based instrument for blood flow assessment in capillaries of human eye conjunctiva. , 2000, 4163, 80.		0
36	<title>Program for laser scanning microphotometer data visualization</title>. , 2001, , .		0

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37	Laser Doppler velocimeter for laboratory training. , 2002, 4588, 507.		0
38	<title>Design of sensors for microcirculation investigation in pharyngeal mucosa</title>. , 2004, , .		0
39	<title>Laser speckle technique for monitoring of blood and lymph flow</title>. , 2004, 5486, 148.		0
40	Laser speckle instrument for complex lymph microcirculation dynamics studies. , 2005, , .		0
41	Laser Doppler flowmetry in diagnoses of chronic tonsillitis. , 2005, 5771, 291.		0
42	<title>Laser measurements for biomedical applications</title>. , 2006, 6254, 411.		0
43	<title>Handling of nanoparticles with light pressure forces</title>. , 2007, 6536, 79.		0
44	Optical microscopy for nanoparticles temperature and velocity field visualization. , 2010, , .		0
45	Lens-free dark-field digital holographic microscopy for 3D tracking of microparticles. , 2015, , .		0
46	Tissue perfusability assessment from capillary velocimetry data via the multicompartment Windkessel model. , 2015, , .		0
47	Cell trapping in a blood capillary phantom using laser tweezers. Proceedings of SPIE, 2015, , .	0.8	0
48	Hypoxia and Neonatal Haemorrhagic Stroke: Experimental Study of Mechanisms. Advances in Experimental Medicine and Biology, 2016, 923, 173-179.	1.6	0
49	Stiffness of RBC optical confinement affected by optical clearing. , 2017, , .		0
50	Adaptive $\hat{1}/4$ PIV for visualization of capillary network microcirculation using Niblack local binarization. , 2017, , .		0
51	Photodynamic diagnostics of stress-induced gastrointestinal neoplasia in laboratory animals using 5-aminolevulinic acid and Al-phthalocyanine. , 2018, , .		0
52	Quantification of absolute blood velocity using LDA. , 2018, , .		0
53	Highly localized laser-induced vascular responses. , 2018, , .		0
54	GB20 Pharmacopuncture As a Potential Method for Brain Drug Delivery via the Perivascular Spaces. JAMS Journal of Acupuncture and Meridian Studies, 2022, 15, 43-49.	0.7	0

#	ARTICLE	IF	CITATIONS
55	The study of local mucociliary clearance of the middle nasal meatus in clinically healthy individuals and patients with foreign body in the maxillary sinus. Science and Innovations in Medicine, 2022, 7, 128-133.	0.1	0