

Vadim Elagin

List of Publications by Year in descending order

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49
papers

343
citations

1040056

9
h-index

888059

17
g-index

49
all docs

49
docs citations

49
times ranked

458
citing authors

#	ARTICLE	IF	CITATIONS
1	Photodynamic therapy monitoring with optical coherence angiography. Scientific Reports, 2017, 7, 41506.	3.3	44
2	Continuous optical coherence tomography monitoring of nanoparticles accumulation in biological tissues. Journal of Nanoparticle Research, 2011, 13, 283-291.	1.9	33
3	In vivo assessment of functional and morphological alterations in tumors under treatment using OCT-angiography combined with OCT-elastography. Biomedical Optics Express, 2020, 11, 1365.	2.9	31
4	Pixel classification method in optical coherence tomography for tumor segmentation and its complementary usage with OCT microangiography. Journal of Biophotonics, 2018, 11, e201700072.	2.3	29
5	Accurate early prediction of tumour response to PDT using optical coherence angiography. Scientific Reports, 2019, 9, 6492.	3.3	27
6	Raster-scan optoacoustic angiography of blood vessel development in colon cancer models. Photoacoustics, 2019, 13, 25-32.	7.8	23
7	Multiparametric Optical Bioimaging Reveals the Fate of Epoxy Crosslinked Biomeshes in the Mouse Subcutaneous Implantation Model. Frontiers in Bioengineering and Biotechnology, 2020, 8, 107.	4.1	18
8	OCT-guided laser hyperthermia with passively tumor-targeted gold nanoparticles. Journal of Biophotonics, 2010, 3, 718-727.	2.3	16
9	Mapping metabolism of liver tissue using two-photon FLIM. Biomedical Optics Express, 2020, 11, 4458.	2.9	15
10	In vivo multimodal optical imaging of dermoscopic equivocal melanocytic skin lesions. Scientific Reports, 2021, 11, 1405.	3.3	10
11	Laser-assisted fabrication and in vitro verification of functionalized surface for cells biointegration. Optics and Laser Technology, 2021, 138, 106871.	4.6	9
12	Indirect laser surgery. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	8
13	Comparative Analysis of Biotissue Laser Resection Using Strongly Absorbing Optical Fiber Tips. Optics and Photonics Journal, 2015, 05, 1-5.	0.4	8
14	Luminescent patterns recorded by laser irradiation of a PMMA matrix with a soluble CdS precursor. Optical Materials Express, 2020, 10, 2114.	3.0	7
15	Multiphoton tomography in differentiation of morphological and molecular subtypes of breast cancer: A quantitative analysis. Journal of Biophotonics, 2021, 14, e202000471.	2.3	6
16	Multimodal optical coherence tomography for in vivo imaging of brain tissue structure and microvascular network at glioblastoma. , 2017, , .		5
17	Features of Morphological Changes in Experimental CT-26 Tumors Growth. Sovremennye Tehnologii V Medicine, 2015, 7, 32-39.	1.1	5
18	Efficacy of Photodynamic Inactivation against the Major Human Antibiotic-Resistant Uropathogens. Photonics, 2021, 8, 495.	2.0	5

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19	The influence on biotissue laser resection of a strongly absorbing layer at the optical fiber tip. Journal of Innovative Optical Health Sciences, 2016, 09, 1650011.	1.0	4
20	A Collagen Basketweave from the Giant Squid Mantle as a Robust Scaffold for Tissue Engineering. Marine Drugs, 2021, 19, 679.	4.6	4
21	Controlled Fragmentation of Urinary Stones as a Method of Preventing Inflammatory Infections in the Treatment of Urolithiasis (Experience in Successful Clinical Use). Sovremennye Tehnologii V Medicine, 2021, 13, 55.	1.1	3
22	Probing Metabolism and Viscosity of Cancer Cells using Fluorescence Lifetime Imaging Microscopy. Journal of Visualized Experiments, 2021, , .	0.3	3
23	The Development of the Methodology of Monitoring Experimental Tumors Using Multimodal Optical Coherence Tomography: the Choice of an Optimal Tumor Model. Sovremennye Tehnologii V Medicine, 2015, 7, 6-15.	1.1	3
24	Evaluation of Cutting Properties of a Laser Scalpel with Heavily Absorbing Coatings of an Optical Fiber. Sovremennye Tehnologii V Medicine, 2015, 7, 55-60.	1.1	3
25	Selection of stabilizing agents to provide effective penetration of gold nanoparticles into cells. Photonics & Lasers in Medicine, 2014, 3, .	0.2	2
26	Can Indirect-Contact Laser Surgery be Used for Fluorescence-Image Guided Tumor Resections? Preliminary Results. Technology in Cancer Research and Treatment, 2018, 17, 153303381880571.	1.9	2
27	The bactericidal effect of continuous wave laser with strongly absorbing coating at the fiber tip. Journal of Innovative Optical Health Sciences, 2018, 11, 1850029.	1.0	2
28	Multiphoton Microscopy and Mass Spectrometry for Revealing Metabolic Heterogeneity of Hepatocytes in vivo. Sovremennye Tehnologii V Medicine, 2021, 13, 18.	1.1	2
29	Diode Laser Lithotription Technique Based on Optothermal Converter. Photonics, 2021, 8, 452.	2.0	2
30	Multiphoton Tomography and Cross-Polarization Optical Coherence Tomography for Diagnosing Brain Gliomas: Pilot Study. Sovremennye Tehnologii V Medicine, 2016, 8, 64-75.	1.1	2
31	Energy Metabolism and Intracellular pH Alteration in Neural Spheroids Carrying Down Syndrome. Biomedicines, 2021, 9, 1741.	3.2	2
32	Investigation of biodistribution of gold nanoparticles in healthy animals. Nanotechnologies in Russia, 2010, 5, 409-416.	0.7	1
33	Photothermolysis of tumor with gold nanoparticles guided by NIR and acoustic thermometries. Proceedings of SPIE, 2010, , .	0.8	1
34	Plasmon resonance gold nanoparticles for improving optical diagnostics and photothermal therapy of tumor. , 2010, , .		1
35	Multiphoton tomography and multimodal OCT for in vivo visualization of oral malignancy in the hamster cheek pouch. , 2018, , .		1
36	Metabolic imaging of tumor for , diagnosis and response for therapy. , 2018, , .		1

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37	Multimodal optical imaging as breast cancer margins assessment methods. , 2019, , .		1
38	Toxicological Analysis of Hepatocytes Using FLIM Technique: In Vitro versus Ex Vivo Models. Cells, 2021, 10, 2894.	4.1	1
39	Multimodal OCT for Malignancy Imaging. , 2020, , 425-464.		1
40	Label-free sorting of iPS cells during neuronal differentiation using FLIM and multiphoton fluorescence microscopy. , 2020, , .		1
41	Evaluation of the potential pathogenicity of microorganisms associated with urinary calculi. Klinicheskaya Laboratornaya Diagnostika, 2022, 67, 369-373.	0.5	1
42	Laser hyperthermia of tumors using gold nanoparticles monitored by optical coherence tomography and acoustic thermometry. Biophysics (Russian Federation), 2011, 56, 1102-1105.	0.7	0
43	In Vitro Effect of Laser-Induced Hydrodynamics on Cancer Cells. Bulletin of Experimental Biology and Medicine, 2015, 160, 155-159.	0.8	0
44	Multiphoton imaging and OCT MA for diagnosis of human melanocytic lesions. , 2019, , .		0
45	Optoacoustic angiography of experimental tumors. , 2019, , .		0
46	Multimodal optical imaging for in vivo discrimination of equivocal melanocytic skin lesions. , 2020, , .		0
47	Probing metabolic alteration of differentiating induced pluripotent stem cells using label-free FLIM. , 2020, , .		0
48	P.118: Islet Cells Metabolism and Viability Probing With Non-label Optical Diagnostics. Transplantation, 2021, 105, S44-S44.	1.0	0
49	Metabolic imaging reveals a non-alcoholic hepatic steatosis. , 2022, , .		0