Valentin V Demidov

List of Publications by Year
in descending order

28	277	1040056 9	996975 15
papers	citations	h-index	g-index

29	29	29	370
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hybrid M-mode-like OCT imaging of three-dimensional microvasculature in vivo using reference-free processing of complex valued B-scans. Optics Letters, 2015, 40, 1472.	3.3	61
2	Optical clearing of melanomain vivo: characterization by diffuse reflectance spectroscopy and optical coherence tomography. Journal of Biomedical Optics, 2016, 21, 081210.	2.6	33
3	Preclinical longitudinal imaging of tumor microvascular radiobiological response with functional optical coherence tomography. Scientific Reports, 2018, 8, 38.	3.3	28
4	Modeling chemical reactions by forced limit-cycle oscillator: synchronization phenomena and transition to chaos. Chaos, Solitons and Fractals, 2003, 15, 395-405.	5.1	24
5	Analysis of low-scattering regions in optical coherence tomography: applications to neurography and lymphangiography. Biomedical Optics Express, 2019, 10, 4207.	2.9	22
6	Dual-Agent Photodynamic Therapy with Optical Clearing Eradicates Pigmented Melanoma in Preclinical Tumor Models. Cancers, 2020, 12, 1956.	3.7	21
7	Microvascular contrast enhancement in optical coherence tomography using microbubbles. Journal of Biomedical Optics, 2016, 21, 076014.	2.6	14
8	Novel methodology to image stromal tissue and assess its morphological features with polarized light: towards a tumour microenvironment prognostic signature. Biomedical Optics Express, 2019, 10, 3963.	2.9	14
9	Volumetric tumor delineation and assessment of its early response to radiotherapy with optical coherence tomography. Biomedical Optics Express, 2021, 12, 2952.	2.9	12
10	Talin Is Required Continuously for Cardiomyocyte Remodeling during Heart Growth in Drosophila. PLoS ONE, 2015, 10, e0131238.	2.5	10
11	Preclinical quantitative in-vivo assessment of skin tissue vascularity in radiation-induced fibrosis with optical coherence tomography. Journal of Biomedical Optics, 2018, 23, 1.	2.6	9
12	Imaging the electro-kinetic response of biological tissues with optical coherence tomography. Optics Letters, 2013, 38, 2572.	3.3	7
13	Longitudinal in-vivo quantification of tumour microvascular heterogeneity by optical coherence angiography in pre-clinical radiation therapy. Scientific Reports, 2022, 12, 6140.	3.3	7
14	Scan-pattern and signal processing for microvasculature visualization with complex SD-OCT: tissue-motion artifacts robustness and decorrelation time - blood vessel characteristics. , 2015, , .		5
15	Spatial and temporal patterns in dynamic-contrast enhanced intraoperative fluorescence imaging enable classification of bone perfusion in patients undergoing leg amputation. Biomedical Optics Express, 2022, 13, 3171.	2.9	4
16	An approach to OCT-based microvascular imaging using reference-free processing of complex valued B-scans. , 2015, , .		2
17	Vessel-contrast enhancement in label-free optical coherence angiography based on phase and amplitude speckle variability. , 2016, , .		2
18	The volume of information as a measure of the chaos synchronization. Technical Physics Letters, 2001, 27, 476-479.	0.7	1

#	Article	IF	Citations
19	OCT lymphangiography based on speckle statistics evaluation. , 2019, , .		1
20	Multistability and synchronization of chaos in maps with â€œInternalâ€•coupling. Journal of Communications Technology and Electronics, 2008, 53, 666-675.	0.5	0
21	Imaging the electro-kinetic response of biological tissues with phase-resolved optical coherence tomography. Photonics & Lasers in Medicine, 2014, 3, .	0.2	0
22	Towards understanding speckle pattern formation in optical coherence tomography (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50		0
23	Blood flow contrast enhancement in optical coherence tomography using microbubbles: a phantom study. , 2016, , .		0
24	Pulsed-light illumination optical system integrated into surgical microscope for 5-ALA-induced tumor fluorescence detection without surgical process interruption. , 2021, , .		0
25	An approach to OCT-based microvascular imaging using reference-free processing of complex-valued B-scans. , 2015, , .		0
26	Modeling and interpreting speckle pattern formation in swept-source optical coherence tomography (Conference Presentation). , 2017, , .		0
27	Assessment of optical coherence tomography speckle patterns in low-scatterer-concentration regions: simulations for lymphatic vessels mapping. , 2019, , .		0
28	Longitudinal in-vivo quantification of tumour microvasculature heterogeneity via optical coherence tomography (OCT) angiography in a pre-clinical model of radiation therapy. , 2021, , .		0