

Ekaterina Gubarkova

List of Publications by Year in descending order

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43
papers

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44
times ranked

359
citing authors

#	ARTICLE	IF	CITATIONS
1	Why apparent contrast in elasticity of biological tissues is noticeably different for compression ultrasound elastography and OCE. , 2022, , .		0
2	Multimodal OCT imaging for intraoperative margins detection for breast conserving surgery. , 2022, , .		0
3	Compression optical coherence elastography versus strain ultrasound elastography for breast cancer detection and differentiation: pilot study. Biomedical Optics Express, 2022, 13, 2859.	2.9	8
4	Nonlinear Elasticity Assessment with Optical Coherence Elastography for High-Selectivity Differentiation of Breast Cancer Tissues. Materials, 2022, 15, 3308.	2.9	15
5	Multiphoton tomography in differentiation of morphological and molecular subtypes of breast cancer: A quantitative analysis. Journal of Biophotonics, 2021, 14, e202000471.	2.3	6
6	Improvement of breast cancer histological examination by means of multimodal OCT. , 2021, , .		0
7	Diagnostic Accuracy of Cross-Polarization OCT and OCT-Elastography for Differentiation of Breast Cancer Subtypes: Comparative Study. Diagnostics, 2020, 10, 994.	2.6	24
8	Histological validation of in vivo assessment of cancer tissue inhomogeneity and automated morphological segmentation enabled by Optical Coherence Elastography. Scientific Reports, 2020, 10, 11781.	3.3	53
9	Tissue optical properties estimation from cross-polarization OCT data for breast cancer margin assessment. Laser Physics Letters, 2020, 17, 075602.	1.4	12
10	Characterization of elastic nonlinear properties of the tissues using compressional optical coherence elastography. , 2020, , .		2
11	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
12	Multimodal OCT for Malignancy Imaging. , 2020, , 425-464.		1
13	Cross-Polarization Optical Coherence Tomography for Brain Tumor Imaging. Frontiers in Oncology, 2019, 9, 201.	2.8	48
14	Comparison of elastic properties of tissue samples in various pathological states using optical coherence elastography. , 2019, , .		1
15	Optical coherence elastography as a new method for estimation of chemotherapy efficacy on triple-negative breast cancer in the experiment. , 2019, , .		3
16	Compressional optical coherence elastography for performing histology-like assessment of breast cancers. , 2019, , .		1
17	OCT-elastography-based optical biopsy for breast cancer delineation and express assessment of morphological/molecular subtypes. Biomedical Optics Express, 2019, 10, 2244.	2.9	54
18	Multimodal optical imaging as breast cancer margins assessment methods. , 2019, , .		1

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19	OCT-based characterization of the nonlinear properties of biological tissues in various states. , 2018, , .		2
20	Multimodal OCT characterization of human breast cancer morphological types: preliminary study. , 2018, , .		2
21	Visual assessment criteria of microstructural ex vivo co-and cross-polarized optical coherence tomography images in gliomas. , 2018, , .		1
22	Quantitative compressional OCE: obviating pitfalls in using pre-calibrated compliant layers and some other practical obstacles. , 2018, , .		0
23	Two-dimensional OCT-relaxography of collagenous tissues. , 2018, , .		0
24	Multimodal optical coherence tomography for in vivo imaging of brain tissue structure and microvascular network at glioblastoma. , 2017, , .		5
25	Multimodal OCT for assessment of vasculature-targeted PDT success. , 2017, , .		0
26	Manifestations of nonlinear elasticity of biological tissues in compressional optical coherence elastography. Proceedings of SPIE, 2017, , .	0.8	1
27	Multimodal OCT for complex assessment of tumors response to therapy. , 2017, , .		1
28	Quasistatic in-depth local strain relaxation/creep rate mapping using phase-sensitive optical coherence tomography. , 2017, , .		0
29	Practical obstacles and their mitigation strategies in compressional optical coherence elastography of biological tissues. Journal of Innovative Optical Health Sciences, 2017, 10, 1742006.	1.0	60
30	Multi-modal optical imaging characterization of atherosclerotic plaques. Journal of Biophotonics, 2016, 9, 1009-1020.	2.3	17
31	Robust strain mapping in optical coherence elastography by combining local phase-resolved measurements and cumulative displacement tracking. , 2016, , .		0
32	Quantitative evaluation of atherosclerotic plaques using cross-polarization optical coherence tomography, nonlinear, and atomic force microscopy. Journal of Biomedical Optics, 2016, 21, 126010.	2.6	11
33	OCT-based approach to local relaxations discrimination from translational relaxation motions. Proceedings of SPIE, 2016, , .	0.8	0
34	Vessel-contrast enhancement in label-free optical coherence angiography based on phase and amplitude speckle variability. , 2016, , .		2
35	Hybrid method of strain estimation in optical coherence elastography using combined sub-wavelength phase measurements and supra-pixel displacement tracking. Journal of Biophotonics, 2016, 9, 499-509.	2.3	48
36	Quantitative analysis of the polarization characteristics of atherosclerotic plaques. Proceedings of SPIE, 2016, , .	0.8	1

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37	Characterization of atherosclerotic plaques by cross-polarization optical coherence tomography. , 2016, , .		1
38	Differential diagnosis of human bladder mucosa pathologies in vivo with cross-polarization optical coherence tomography. Biomedical Optics Express, 2015, 6, 1464.	2.9	48
39	Towards advanced OCT clinical applications. , 2015, , .		1
40	The Use of Cross-Polarization OCT in Determining the Dynamics of the State of Pathological and Normal Tissues During Radiation and Photodynamic Therapy. Sovremennye Tehnologii V Medicine, 2015, 7, 119-129.	1.1	1
41	Quantitative Evaluation of the Polarization Characteristics of Coronary Arteries Atherosclerotic Plaques at Different Development Stages. Sovremennye Tehnologii V Medicine, 2015, 7, 39-49.	1.1	0
42	Evaluation of oral mucosa collagen condition with cross-polarization optical coherence tomography. Journal of Biophotonics, 2013, 6, 321-329.	2.3	23
43	Combined use of fluorescence cystoscopy and cross-polarization OCT for diagnosis of bladder cancer and correlation with immunohistochemical markers. Journal of Biophotonics, 2013, 6, 687-698.	2.3	22