

# Ekaterina Gubarkova

## List of Publications by Year in descending order

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43  
papers

507  
citations

759233

12  
h-index

794594

19  
g-index

44  
all docs

44  
docs citations

44  
times ranked

359  
citing authors

#	ARTICLE	IF	CITATIONS
1	Practical obstacles and their mitigation strategies in compressional optical coherence elastography of biological tissues. <i>Journal of Innovative Optical Health Sciences</i> , 2017, 10, 1742006.	1.0	60
2	OCT-elastography-based optical biopsy for breast cancer delineation and express assessment of morphological/molecular subtypes. <i>Biomedical Optics Express</i> , 2019, 10, 2244.	2.9	54
3	Histological validation of in vivo assessment of cancer tissue inhomogeneity and automated morphological segmentation enabled by Optical Coherence Elastography. <i>Scientific Reports</i> , 2020, 10, 11781.	3.3	53
4	Differential diagnosis of human bladder mucosa pathologies in vivo with cross-polarization optical coherence tomography. <i>Biomedical Optics Express</i> , 2015, 6, 1464.	2.9	48
5	Hybrid method of strain estimation in optical coherence elastography using combined sub-wavelength phase measurements and supra-pixel displacement tracking. <i>Journal of Biophotonics</i> , 2016, 9, 499-509.	2.3	48
6	Cross-Polarization Optical Coherence Tomography for Brain Tumor Imaging. <i>Frontiers in Oncology</i> , 2019, 9, 201.	2.8	48
7	In vivo assessment of functional and morphological alterations in tumors under treatment using OCT-angiography combined with OCT-elastography. <i>Biomedical Optics Express</i> , 2020, 11, 1365.	2.9	31
8	Diagnostic Accuracy of Cross-Polarization OCT and OCT-Elastography for Differentiation of Breast Cancer Subtypes: Comparative Study. <i>Diagnostics</i> , 2020, 10, 994.	2.6	24
9	Evaluation of oral mucosa collagen condition with cross-polarization optical coherence tomography. <i>Journal of Biophotonics</i> , 2013, 6, 321-329.	2.3	23
10	Combined use of fluorescence cystoscopy and cross-polarization OCT for diagnosis of bladder cancer and correlation with immunohistochemical markers. <i>Journal of Biophotonics</i> , 2013, 6, 687-698.	2.3	22
11	Multi-modal optical imaging characterization of atherosclerotic plaques. <i>Journal of Biophotonics</i> , 2016, 9, 1009-1020.	2.3	17
12	Nonlinear Elasticity Assessment with Optical Coherence Elastography for High-Selectivity Differentiation of Breast Cancer Tissues. <i>Materials</i> , 2022, 15, 3308.	2.9	15
13	Tissue optical properties estimation from cross-polarization OCT data for breast cancer margin assessment. <i>Laser Physics Letters</i> , 2020, 17, 075602.	1.4	12
14	Quantitative evaluation of atherosclerotic plaques using cross-polarization optical coherence tomography, nonlinear, and atomic force microscopy. <i>Journal of Biomedical Optics</i> , 2016, 21, 126010.	2.6	11
15	Compression optical coherence elastography versus strain ultrasound elastography for breast cancer detection and differentiation: pilot study. <i>Biomedical Optics Express</i> , 2022, 13, 2859.	2.9	8
16	Multiphoton tomography in differentiation of morphological and molecular subtypes of breast cancer: A quantitative analysis. <i>Journal of Biophotonics</i> , 2021, 14, e202000471.	2.3	6
17	Multimodal optical coherence tomography for in vivo imaging of brain tissue structure and microvascular network at glioblastoma. , 2017, , .		5
18	Optical coherence elastography as a new method for estimation of chemotherapy efficacy on triple-negative breast cancer in the experiment. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
19	Vessel-contrast enhancement in label-free optical coherence angiography based on phase and amplitude speckle variability. , 2016, , .		2
20	OCT-based characterization of the nonlinear properties of biological tissues in various states. , 2018, , .		2
21	Multimodal OCT characterization of human breast cancer morphological types: preliminary study. , 2018, , .		2
22	Characterization of elastic nonlinear properties of the tissues using compressional optical coherence elastography. , 2020, , .		2
23	Towards advanced OCT clinical applications. , 2015, , .		1
24	Quantitative analysis of the polarization characteristics of atherosclerotic plaques. Proceedings of SPIE, 2016, , .	0.8	1
25	Characterization of atherosclerotic plaques by cross-polarization optical coherence tomography. , 2016, , .		1
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	Visual assessment criteria of microstructural ex vivo co-and cross-polarized optical coherence tomography images in gliomas. , 2018, , .		1
29	Comparison of elastic properties of tissue samples in various pathological states using optical coherence elastography. , 2019, , .		1
30	Compressional optical coherence elastography for performing histology-like assessment of breast cancers. , 2019, , .		1
31	The Use of Cross-Polarization OCT in Determining the Dynamics of the State of Pathological and Normal Tissues During Radiation and Photodynamic Therapy. Sovremennyye Tehnologii V Medicine, 2015, 7, 119-129.	1.1	1
32	Multimodal optical imaging as breast cancer margins assessment methods. , 2019, , .		1
33	Multimodal OCT for Malignancy Imaging. , 2020, , 425-464.		1
34	Robust strain mapping in optical coherence elastography by combining local phase-resolved measurements and cumulative displacement tracking. , 2016, , .		0
35	OCT-based approach to local relaxations discrimination from translational relaxation motions. Proceedings of SPIE, 2016, , .	0.8	0
36	Multimodal OCT for assessment of vasculature-targeted PDT success. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
37	Quasistatic in-depth local strain relaxation/creep rate mapping using phase-sensitive optical coherence tomography. , 2017, , .		0
38	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
39	Quantitative compressional OCE: obviating pitfalls in using pre-calibrated compliant layers and some other practical obstacles. , 2018, , .		0
40	Two-dimensional OCT-relaxography of collagenous tissues. , 2018, , .		0
41	Why apparent contrast in elasticity of biological tissues is noticeably different for compression ultrasound elastography and OCE. , 2022, , .		0
42	Multimodal OCT imaging for intraoperative margins detection for breast conserving surgery. , 2022, , .		0
43	Improvement of breast cancer histological examination by means of multimodal OCT. , 2021, , .		0