

Alex J Walsh

List of Publications by Year in descending order

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43
papers

1,773
citations

393982

19
h-index

344852

36
g-index

48
all docs

48
docs citations

48
times ranked

2335
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Metabolic Imaging Identifies Glycolytic Levels, Subtypes, and Early-Treatment Response in Breast Cancer. <i>Cancer Research</i> , 2013, 73, 6164-6174.	0.4	268
2	Quantitative Optical Imaging of Primary Tumor Organoid Metabolism Predicts Drug Response in Breast Cancer. <i>Cancer Research</i> , 2014, 74, 5184-5194.	0.4	251
3	Signal Transducer and Activator of Transcription 3, Mediated Remodeling of the Tumor Microenvironment Results in Enhanced Tumor Drug Delivery in a Mouse Model of Pancreatic Cancer. <i>Gastroenterology</i> , 2015, 149, 1932-1943.e9.	0.6	151
4	Optical Imaging of Drug-Induced Metabolism Changes in Murine and Human Pancreatic Cancer Organoids Reveals Heterogeneous Drug Response. <i>Pancreas</i> , 2016, 45, 863-869.	0.5	105
5	Classification of T-cell activation via autofluorescence lifetime imaging. <i>Nature Biomedical Engineering</i> , 2021, 5, 77-88.	11.6	92
6	In Vivo Autofluorescence Imaging of Tumor Heterogeneity in Response to Treatment. <i>Neoplasia</i> , 2015, 17, 862-870.	2.3	82
7	Drug response in organoids generated from frozen primary tumor tissues. <i>Scientific Reports</i> , 2016, 6, 18889.	1.6	81
8	Optical metabolic imaging quantifies heterogeneous cell populations. <i>Biomedical Optics Express</i> , 2015, 6, 559.	1.5	78
9	Optical Metabolic Imaging of Treatment Response in Human Head and Neck Squamous Cell Carcinoma. <i>PLoS ONE</i> , 2014, 9, e90746.	1.1	72
10	Optical imaging of metabolism in HER2 overexpressing breast cancer cells. <i>Biomedical Optics Express</i> , 2012, 3, 75.	1.5	70
11	<i>Ex vivo</i> optical metabolic measurements from cultured tissue reflect <i>in vivo</i> tissue status. <i>Journal of Biomedical Optics</i> , 2012, 17, 116015.	1.4	43
12	Development of Spectral Markers for the Discrimination of Ulcerative Colitis and Crohn's Disease Using Raman Spectroscopy. <i>Diseases of the Colon and Rectum</i> , 2011, 54, 48-53.	0.7	37
13	In vivo hyperspectral imaging of microvessel response to trastuzumab treatment in breast cancer xenografts. <i>Biomedical Optics Express</i> , 2014, 5, 2247.	1.5	37
14	Autofluorescence imaging identifies tumor cell cycle status on a single cell level. <i>Journal of Biophotonics</i> , 2018, 11, e201600276.	1.1	35
15	Temporal binning of time-correlated single photon counting data improves exponential decay fits and imaging speed. <i>Biomedical Optics Express</i> , 2016, 7, 1385.	1.5	33
16	Functional Optical Imaging of Primary Human Tumor Organoids: Development of a Personalized Drug Screen. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1367-1372.	2.8	33
17	Collagen density and alignment in responsive and resistant trastuzumab-treated breast cancer xenografts. <i>Journal of Biomedical Optics</i> , 2015, 20, 026004.	1.4	32
18	Action potential block in neurons by infrared light. <i>Neurophotonics</i> , 2016, 3, 040501.	1.7	31

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19	Mutant KRAS Exosomes Alter the Metabolic State of Recipient Colonic Epithelial Cells. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2018, 5, 627-629.e6.	2.3	27
20	An automated image processing routine for segmentation of cell cytoplasm in high-resolution autofluorescence images. <i>Proceedings of SPIE</i> , 2014, , .	0.8	23
21	High-throughput measurements of the optical redox ratio using a commercial microplate reader. <i>Journal of Biomedical Optics</i> , 2015, 20, 010503.	1.4	21
22	Classifying T cell activity in autofluorescence intensity images with convolutional neural networks. <i>Journal of Biophotonics</i> , 2020, 13, e201960050.	1.1	20
23	Carbomer-based adjuvant elicits CD8 T-cell immunity by inducing a distinct metabolic state in cross-presenting dendritic cells. <i>PLoS Pathogens</i> , 2021, 17, e1009168.	2.1	19
24	In vivo fluorescence lifetime imaging of macrophage intracellular metabolism during wound responses in zebrafish. <i>eLife</i> , 2022, 11, .	2.8	19
25	Quantitative optical imaging of vascular response in vivo in a model of peripheral arterial disease. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1168-H1180.	1.5	16
26	Fluorescence intensity and lifetime redox ratios detect metabolic perturbations in T cells. <i>Biomedical Optics Express</i> , 2020, 11, 5674.	1.5	15
27	Deconvolution of fluorescence lifetime imaging microscopy by a library of exponentials. <i>Optics Express</i> , 2015, 23, 23748.	1.7	13
28	Variation of fluorescence in tissue with temperature. <i>Lasers in Surgery and Medicine</i> , 2011, 43, 36-42.	1.1	9
29	Extracellular pH affects the fluorescence lifetimes of metabolic co-factors. <i>Journal of Biomedical Optics</i> , 2021, 26, .	1.4	9
30	The effect of temperature on the autofluorescence of scattering and non-scattering tissue. <i>Lasers in Surgery and Medicine</i> , 2012, 44, 712-718.	1.1	8
31	Blind deconvolution estimation of fluorescence measurements through quadratic programming. <i>Journal of Biomedical Optics</i> , 2015, 20, 075010.	1.4	7
32	Identification of rare cell populations in autofluorescence lifetime image data. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2022, 101, 497-506.	1.1	7
33	Fluorescence Lifetime Measurements of NAD(P)H in Live Cells and Tissue. <i>Springer Series in Chemical Physics</i> , 2015, , 435-456.	0.2	4
34	Fluorescence lifetime imaging of calcium flux in neurons in response to pulsed infrared light. , 2017, , .		3
35	Imaging intratumoral metabolic heterogeneity. <i>Nature Biomedical Engineering</i> , 2019, 3, 333-334.	11.6	3
36	Autofluorescence Imaging to Evaluate Cellular Metabolism. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	3

#	ARTICLE	IF	CITATIONS
37	Design and Implementation of Privilege for Sale, a JEDI Activity for a Biomedical Engineering Introductory Course. <i>Biomedical Engineering Education</i> , 2022, 2, 183-188.	0.6	2
38	Temporal and spatial binning of TCSPC data to improve signal-to-noise ratio and imaging speed. , 2016, , .		1
39	Density-based clustering analyses to identify heterogeneous cellular sub-populations. , 2017, , .		1
40	Imaging Cellular Metabolic Heterogeneity in Cancer. , 2016, , .		0
41	Differentiating quiescent cancer cell populations in heterogeneous samples with fluorescence lifetime imaging. , 2016, , .		0
42	Quantitative Autofluorescence Imaging Measures Early Response to Head and Neck Cancer Treatment In Vivo. , 2014, , .		0
43	Zebrafish xenograft breast cancer models for high-throughput drug response screening. , 2019, , .		0