

Alex J Walsh

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | In vivo fluorescence lifetime imaging of macrophage intracellular metabolism during wound responses in zebrafish. <i>ELife</i> , 2022, 11, . | 2.8 | 19 |
| 3 | 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 |
| 4 | Classification of T-cell activation via autofluorescence lifetime imaging. <i>Nature Biomedical Engineering</i> , 2021, 5, 77-88. | 11.6 | 92 |
| 5 | Extracellular pH affects the fluorescence lifetimes of metabolic co-factors. <i>Journal of Biomedical Optics</i> , 2021, 26, . | 1.4 | 9 |
| 6 | 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 |
| 7 | Autofluorescence Imaging to Evaluate Cellular Metabolism. <i>Journal of Visualized Experiments</i> , 2021, , . | 0.2 | 3 |
| 8 | Classifying T cell activity in autofluorescence intensity images with convolutional neural networks. <i>Journal of Biophotonics</i> , 2020, 13, e201960050. | 1.1 | 20 |
| 9 | Fluorescence intensity and lifetime redox ratios detect metabolic perturbations in T cells. <i>Biomedical Optics Express</i> , 2020, 11, 5674. | 1.5 | 15 |
| 10 | Imaging intratumoral metabolic heterogeneity. <i>Nature Biomedical Engineering</i> , 2019, 3, 333-334. | 11.6 | 3 |
| 11 | Zebrafish xenograft breast cancer models for high-throughput drug response screening. , 2019, , . | | 0 |
| 12 | Autofluorescence imaging identifies tumor cell cycle status on a single cell level. <i>Journal of Biophotonics</i> , 2018, 11, e201600276. | 1.1 | 35 |
| 13 | 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 |
| 14 | Fluorescence lifetime imaging of calcium flux in neurons in response to pulsed infrared light. , 2017, , . | | 3 |
| 15 | 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 |
| 16 | Density-based clustering analyses to identify heterogeneous cellular sub-populations. , 2017, , . | | 1 |
| 17 | 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 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | Action potential block in neurons by infrared light. Neurophotonics, 2016, 3, 040501. | 1.7 | 31 |
| 20 | Drug response in organoids generated from frozen primary tumor tissues. Scientific Reports, 2016, 6, 18889. | 1.6 | 81 |
| 21 | Temporal and spatial binning of TCSPC data to improve signal-to-noise ratio and imaging speed. , 2016, , . | | 1 |
| 22 | Imaging Cellular Metabolic Heterogeneity in Cancer. , 2016, , . | | 0 |
| 23 | Differentiating quiescent cancer cell populations in heterogeneous samples with fluorescence lifetime imaging. , 2016, , . | | 0 |
| 24 | In Vivo Autofluorescence Imaging of Tumor Heterogeneity in Response to Treatment. Neoplasia, 2015, 17, 862-870. | 2.3 | 82 |
| 25 | Blind deconvolution estimation of fluorescence measurements through quadratic programming. Journal of Biomedical Optics, 2015, 20, 075010. | 1.4 | 7 |
| 26 | High-throughput measurements of the optical redox ratio using a commercial microplate reader. Journal of Biomedical Optics, 2015, 20, 010503. | 1.4 | 21 |
| 27 | Collagen density and alignment in responsive and resistant trastuzumab-treated breast cancer xenografts. Journal of Biomedical Optics, 2015, 20, 026004. | 1.4 | 32 |
| 28 | Optical metabolic imaging quantifies heterogeneous cell populations. Biomedical Optics Express, 2015, 6, 559. | 1.5 | 78 |
| 29 | Deconvolution of fluorescence lifetime imaging microscopy by a library of exponentials. Optics Express, 2015, 23, 23748. | 1.7 | 13 |
| 30 | 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. Gastroenterology, 2015, 149, 1932-1943.e9. | 0.6 | 151 |
| 31 | Fluorescence Lifetime Measurements of NAD(P)H in Live Cells and Tissue. Springer Series in Chemical Physics, 2015, , 435-456. | 0.2 | 4 |
| 32 | An automated image processing routine for segmentation of cell cytoplasm in high-resolution autofluorescence images. Proceedings of SPIE, 2014, , . | 0.8 | 23 |
| 33 | In vivo hyperspectral imaging of microvessel response to trastuzumab treatment in breast cancer xenografts. Biomedical Optics Express, 2014, 5, 2247. | 1.5 | 37 |
| 34 | Quantitative Optical Imaging of Primary Tumor Organoid Metabolism Predicts Drug Response in Breast Cancer. Cancer Research, 2014, 74, 5184-5194. | 0.4 | 251 |
| 35 | Optical Metabolic Imaging of Treatment Response in Human Head and Neck Squamous Cell Carcinoma. PLoS ONE, 2014, 9, e90746. | 1.1 | 72 |
| 36 | Quantitative Autofluorescence Imaging Measures Early Response to Head and Neck Cancer Treatment In Vivo. , 2014, , . | | 0 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Optical imaging of metabolism in HER2 overexpressing breast cancer cells. <i>Biomedical Optics Express</i> , 2012, 3, 75. | 1.5 | 70 |
| 40 | <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 |
| 41 | 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 |
| 42 | 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 |
| 43 | Variation of fluorescence in tissue with temperature. <i>Lasers in Surgery and Medicine</i> , 2011, 43, 36-42. | 1.1 | 9 |