

# Erik BÃ©langer

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

407  
citations

759233

12  
h-index

888059

17  
g-index

21  
all docs

21  
docs citations

21  
times ranked

567  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensory Afferents Use Different Coding Strategies for Heat and Cold. <i>Cell Reports</i> , 2018, 23, 2001-2013.	6.4	88
2	Live animal myelin histomorphometry of the spinal cord with video-rate multimodal nonlinear microendoscopy. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	2.6	42
3	<i>In vivo</i> optical monitoring of tissue pathologies and diseases with vibrational contrast. <i>Journal of Biophotonics</i> , 2009, 2, 632-642.	2.3	40
4	Automated method for the segmentation and morphometry of nerve fibers in large-scale CARS images of spinal cord tissue. <i>Biomedical Optics Express</i> , 2014, 5, 4145.	2.9	38
5	Comparative study of quantitative phase imaging techniques for refractometry of optical waveguides. <i>Optics Express</i> , 2018, 26, 17498.	3.4	34
6	Highly Efficient and High-Power Raman Fiber Laser Based on Broadband Chirped Fiber Bragg Gratings. <i>Journal of Lightwave Technology</i> , 2006, 24, 5039-5043.	4.6	26
7	Local assessment of myelin health in a multiple sclerosis mouse model using a 2D Fourier transform approach. <i>Biomedical Optics Express</i> , 2013, 4, 2003.	2.9	23
8	Probing pain pathways with light. <i>Neuroscience</i> , 2016, 338, 248-271.	2.3	19
9	Long-term stable device for tuning fiber Bragg gratings. <i>Applied Optics</i> , 2007, 46, 3189.	2.1	18
10	Sample and substrate preparation for exploring living neurons in culture with quantitative-phase imaging. <i>Methods</i> , 2018, 136, 90-107.	3.8	14
11	Intravital assessment of myelin molecular order with polarimetric multiphoton microscopy. <i>Scientific Reports</i> , 2016, 6, 31685.	3.3	13
12	Betacellulin regulates schwann cell proliferation and myelin formation in the injured mouse peripheral nerve. <i>Glia</i> , 2017, 65, 657-669.	4.9	13
13	Polychromatic digital holographic microscopy: a quasicohherent-noise-free imaging technique to explore the connectivity of living neuronal networks. <i>Neurophotonics</i> , 2020, 7, 040501.	3.3	12
14	Measuring Absolute Cell Volume Using Quantitative-Phase Digital Holographic Microscopy and a Low-Cost, Open-Source, and 3D-Printed Flow Chamber. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	10
15	Maintaining polarization in polarimetric multiphoton microscopy. <i>Journal of Biophotonics</i> , 2015, 8, 884-888.	2.3	8
16	Low-cost production and sealing procedure of mechanical parts of a versatile 3D-printed perfusion chamber for digital holographic microscopy of primary neurons in culture. , 2017, , .		3
17	High power and highly efficient Raman fiber laser based on broadband fiber Bragg gratings. , 2006, , .		2
18	Simultaneous measurements of a specimen quantitative-phase signal and its surrounding medium refractive index using quantitative-phase imaging. <i>Optics Letters</i> , 2020, 45, 5587.	3.3	2

#	ARTICLE	IF	CITATIONS
19	Engineered fluidic device to achieve multiplexed monitoring of cell cultures with digital holographic microscopy. Optics Express, 2022, 30, 414.	3.4	2
20	Polychromatic digital holographic microscopy for denoising of quantitative phase images of neurons. , 2020, , .		0
21	Label-Free Phenotyping of Human Cells with Multimodal Quantitative-Phase Digital Holographic Microscopy: Towards the Identification of New Cellular Biomarkers of Diseases. , 2020, , .		0