

Stéphane Bancelin

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

847
citations

567281

15
h-index

552781

26
g-index

37
all docs

37
docs citations

37
times ranked

1198
citing authors

#	ARTICLE	IF	CITATIONS
1	Chronic 2P-STED imaging reveals high turnover of dendritic spines in the hippocampus in vivo. <i>ELife</i> , 2018, 7, .	6.0	130
2	Determination of collagen fibril size via absolute measurements of second-harmonic generation signals. <i>Nature Communications</i> , 2014, 5, 4920.	12.8	107
3	Ex vivo multiscale quantitation of skin biomechanics in wild-type and genetically-modified mice using multiphoton microscopy. <i>Scientific Reports</i> , 2015, 5, 17635.	3.3	80
4	Determination of collagen fiber orientation in histological slides using Mueller microscopy and validation by second harmonic generation imaging. <i>Optics Express</i> , 2014, 22, 22561.	3.4	77
5	In tendons, differing physiological requirements lead to functionally distinct nanostructures. <i>Scientific Reports</i> , 2018, 8, 4409.	3.3	54
6	A novel microstructural interpretation for the biomechanics of mouse skin derived from multiscale characterization. <i>Acta Biomaterialia</i> , 2017, 50, 302-311.	8.3	49
7	Analysis of forward and backward Second Harmonic Generation images to probe the nanoscale structure of collagen within bone and cartilage. <i>Journal of Biophotonics</i> , 2015, 8, 993-1001.	2.3	45
8	The Impact of Collagen Fibril Polarity on Second Harmonic Generation Microscopy. <i>Biophysical Journal</i> , 2015, 109, 2501-2510.	0.5	44
9	How aging impacts skin biomechanics: a multiscale study in mice. <i>Scientific Reports</i> , 2017, 7, 13750.	3.3	43
10	Super-resolution shadow imaging reveals local remodeling of astrocytic microstructures and brain extracellular space after osmotic challenge. <i>Glia</i> , 2021, 69, 1605-1613.	4.9	33
11	Effect of Incident Light Wavelength and Corneal Edema on Light Scattering and Penetration: Laboratory Study of Human Corneas. <i>Journal of Refractive Surgery</i> , 2010, 26, 786-795.	2.3	24
12	In situ three-dimensional monitoring of collagen fibrillogenesis using SHG microscopy. <i>Biomedical Optics Express</i> , 2012, 3, 1446.	2.9	23
13	Fast interferometric second harmonic generation microscopy. <i>Biomedical Optics Express</i> , 2016, 7, 399.	2.9	18
14	Affine kinematics in planar fibrous connective tissues: an experimental investigation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1459-1473.	2.8	18
15	Probing microtubules polarity in mitotic spindles in situ using Interferometric Second Harmonic Generation Microscopy. <i>Scientific Reports</i> , 2017, 7, 6758.	3.3	17
16	Optimization of Picosirius red staining protocol to determine collagen fiber orientations in vaginal and uterine cervical tissues by Mueller polarized microscopy. <i>Microscopy Research and Technique</i> , 2015, 78, 723-730.	2.2	16
17	Aberration correction in stimulated emission depletion microscopy to increase imaging depth in living brain tissue. <i>Neurophotonics</i> , 2021, 8, 035001.	3.3	14
18	Fibrillogenesis from nanosurfaces: multiphoton imaging and stereological analysis of collagen 3D self-assembly dynamics. <i>Soft Matter</i> , 2014, 10, 6651-6657.	2.7	13

#	ARTICLE	IF	CITATIONS
19	Combining tensile testing and structural analysis at the single collagen fibril level. <i>Scientific Data</i> , 2018, 5, 180229.	5.3	12
20	Femoral epiphyseal cartilage matrix changes at predilection sites of equine osteochondrosis: Quantitative MRI, second-harmonic microscopy, and histological findings. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1743-1752.	2.3	9
21	Nonlinear optical properties of calcium barium niobate epitaxial thin films. <i>Optics Express</i> , 2016, 24, 17497.	3.4	5
22	Special Section Guest Editorial: Antonello De Martino (1954-2014): in memoriam. <i>Journal of Biomedical Optics</i> , 2016, 21, 071101.	2.6	4
23	Nanoscale imaging of the functional anatomy of the brain. <i>Neuroforum</i> , 2021, .	0.3	3
24	Gouy phase shift measurement using interferometric second-harmonic generation. <i>Optics Letters</i> , 2018, 43, 1958.	3.3	2
25	Combination of Traction Assays and Multiphoton Imaging to Quantify Skin Biomechanics. <i>Methods in Molecular Biology</i> , 2019, 1944, 145-155.	0.9	2
26	Effect of refractive index mismatch on forward-to-backward ratios in SHG imaging. <i>Optics Letters</i> , 2018, 43, 5082.	3.3	2
27	Second Harmonic Generation imaging of collagen fibrillogenesis. , 2013, , .		0
28	Second Harmonic Generation quantitative measurements on collagen fibrils through correlation to electron microscopy. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
29	Cover Image, Volume 69, Issue 6. <i>Glia</i> , 2021, 69, C1.	4.9	0
30	High Contrast Interferometric Second Harmonic Generation Microscopy Probes the Polarity of Fibrils in Complex Collagenous Tissues. , 2015, , .		0
31	Polarization-resolved Second Harmonic Imaging of collagen organization in connective tissues - Application to biomechanics. , 2017, , .		0
32	Role of Refractive Index Mismatch in Backward Nonlinear Optical Imaging. , 2018, , .		0
33	Ex-vivo multiscale biomechanics in murine skin and human cornea using multiphoton microscopy (Conference Presentation). , 2020, , .		0