

# 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	Nanoscale imaging of the functional anatomy of the brain. Neuroforum, 2021, .	0.3	3
2	Super-resolution shadow imaging reveals local remodeling of astrocytic microstructures and brain extracellular space after osmotic challenge. Glia, 2021, 69, 1605-1613.	4.9	33
3	Cover Image, Volume 69, Issue 6. Glia, 2021, 69, C1.	4.9	0
4	Aberration correction in stimulated emission depletion microscopy to increase imaging depth in living brain tissue. Neurophotonics, 2021, 8, 035001.	3.3	14
5	Ex-vivo multiscale biomechanics in murine skin and human cornea using multiphoton microscopy (Conference Presentation). , 2020, , .		0
6	Combination of Traction Assays and Multiphoton Imaging to Quantify Skin Biomechanics. Methods in Molecular Biology, 2019, 1944, 145-155.	0.9	2
7	In tendons, differing physiological requirements lead to functionally distinct nanostructures. Scientific Reports, 2018, 8, 4409.	3.3	54
8	Combining tensile testing and structural analysis at the single collagen fibril level. Scientific Data, 2018, 5, 180229.	5.3	12
9	Chronic 2P-STED imaging reveals high turnover of dendritic spines in the hippocampus in vivo. ELife, 2018, 7, .	6.0	130
10	Gouy phase shift measurement using interferometric second-harmonic generation. Optics Letters, 2018, 43, 1958.	3.3	2
11	Effect of refractive index mismatch on forward-to-backward ratios in SHG imaging. Optics Letters, 2018, 43, 5082.	3.3	2
12	Role of Refractive Index Mismatch in Backward Nonlinear Optical Imaging. , 2018, , .		0
13	Affine kinematics in planar fibrous connective tissues: an experimental investigation. Biomechanics and Modeling in Mechanobiology, 2017, 16, 1459-1473.	2.8	18
14	A novel microstructural interpretation for the biomechanics of mouse skin derived from multiscale characterization. Acta Biomaterialia, 2017, 50, 302-311.	8.3	49
15	How aging impacts skin biomechanics: a multiscale study in mice. Scientific Reports, 2017, 7, 13750.	3.3	43
16	Probing microtubules polarity in mitotic spindles in situ using Interferometric Second Harmonic Generation Microscopy. Scientific Reports, 2017, 7, 6758.	3.3	17
17	Polarization-resolved Second Harmonic Imaging of collagen organization in connective tissues - Application to biomechanics. , 2017, , .		0
18	Fast interferometric second harmonic generation microscopy. Biomedical Optics Express, 2016, 7, 399.	2.9	18

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19	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
20	Nonlinear optical properties of calcium barium niobate epitaxial thin films. <i>Optics Express</i> , 2016, 24, 17497.	3.4	5
21	Special Section Guest Editorial: Antonello De Martino (1954–2014): in memoriam. <i>Journal of Biomedical Optics</i> , 2016, 21, 071101.	2.6	4
22	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
23	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
24	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
25	Second Harmonic Generation quantitative measurements on collagen fibrils through correlation to electron microscopy. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
26	The Impact of Collagen Fibril Polarity on Second Harmonic Generation Microscopy. <i>Biophysical Journal</i> , 2015, 109, 2501-2510.	0.5	44
27	High Contrast Interferometric Second Harmonic Generation Microscopy Probes the Polarity of Fibrils in Complex Collagenous Tissues. , 2015, , .		0
28	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
29	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
30	Determination of collagen fibril size via absolute measurements of second-harmonic generation signals. <i>Nature Communications</i> , 2014, 5, 4920.	12.8	107
31	Second Harmonic Generation imaging of collagen fibrillogenesis. , 2013, , .		0
32	In situ three-dimensional monitoring of collagen fibrillogenesis using SHG microscopy. <i>Biomedical Optics Express</i> , 2012, 3, 1446.	2.9	23
33	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