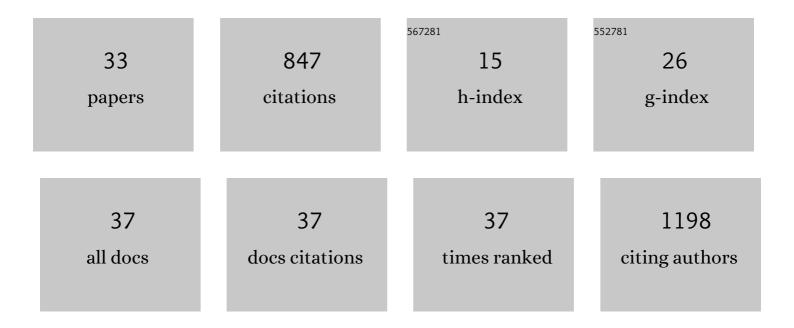
Stéphane Bancelin

List of Publications by Year in descending order

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

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19	Combining tensile testing and structural analysis at the single collagen fibril level. Scientific Data, 2018, 5, 180229.	5.3	12
20	Femoral epiphyseal cartilage matrix changes at predilection sites of equine osteochondrosis: Quantitative MRI, secondâ€harmonic microscopy, and histological findings. Journal of Orthopaedic Research, 2016, 34, 1743-1752.	2.3	9
21	Nonlinear optical properties of calcium barium niobate epitaxial thin films. Optics Express, 2016, 24, 17497.	3.4	5
22	Special Section Guest Editorial: Antonello De Martino (1954–2014): in memoriam. Journal of Biomedical Optics, 2016, 21, 071101.	2.6	4
23	Nanoscale imaging of the functional anatomy of the brain. Neuroforum, 2021, .	0.3	3
24	Gouy phase shift measurement using interferometric second-harmonic generation. Optics Letters, 2018, 43, 1958.	3.3	2
25	Combination of Traction Assays and Multiphoton Imaging to Quantify Skin Biomechanics. Methods in Molecular Biology, 2019, 1944, 145-155.	0.9	2
26	Effect of refractive index mismatch on forward-to-backward ratios in SHG imaging. Optics Letters, 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. Proceedings of SPIE, 2015, , .	0.8	0
29	Cover Image, Volume 69, Issue 6. Glia, 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