

Emmanuel Beurepaire

List of Publications by Year in Descending Order

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Version: 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83
papers

5,300
citations

40
h-index

72
g-index

132
ext. papers

6,451
ext. citations

7.5
avg, IF

5.26
L-index

#	Paper	IF	Citations
83	Intravital deep-tumor single-beam 3-photon, 4-photon, and harmonic microscopy.. <i>ELife</i> , 2022 , 11,	8.9	6
82	Simultaneous NAD(P)H and FAD fluorescence lifetime microscopy of long UVA-induced metabolic stress in reconstructed human skin. <i>Scientific Reports</i> , 2021 , 11, 22171	4.9	5
81	Modeling nonlinear microscopy near index-mismatched interfaces. <i>Optica</i> , 2021 , 8, 944	8.6	1
80	Dynamic spatiotemporal coordination of neural stem cell fate decisions occurs through local feedback in the adult vertebrate brain. <i>Cell Stem Cell</i> , 2021 , 28, 1457-1472.e12	18	10
79	The TPLATE complex mediates membrane bending during plant clathrin-mediated endocytosis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
78	Fast Imaging of SHG Nanoprobes with Multiphoton Light-Sheet Microscopy. <i>ACS Photonics</i> , 2020 , 7, 1036-1049	6.3	14
77	Fast multiphoton light-sheet microscopy with optimal pulse frequency. <i>Biomedical Optics Express</i> , 2020 , 11, 6012-6026	3.5	9
76	In Utero Electroporation of Multiaddressable Genome-Integrating Color (MAGIC) Markers to Individualize Cortical Mouse Astrocytes. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	1
75	An actin-based viscoplastic lock ensures progressive body-axis elongation. <i>Nature</i> , 2019 , 573, 266-270	50.4	31
74	High-speed polarization-resolved third-harmonic microscopy. <i>Optica</i> , 2019 , 6, 385	8.6	11
73	Multicolor multiscale brain imaging with chromatic multiphoton serial microscopy. <i>Nature Communications</i> , 2019 , 10, 1662	17.4	49
72	Cortical astrocytes develop in a plastic manner at both clonal and cellular levels. <i>Nature Communications</i> , 2019 , 10, 4884	17.4	38
71	Third harmonic generation imaging and analysis of the effect of low gravity on the lacuno-canalicular network of mouse bone. <i>PLoS ONE</i> , 2019 , 14, e0209079	3.7	5
70	Multicolor Two-Photon Fluorescence Lifetimes Microscopy by Wavelength Mixing for Efficient and Simultaneous NADH and FAD Imaging Reveals Metabolic Shifts Associated to Cellular Differentiation and Oxidative Stress in Living Tissues. <i>Biophysical Journal</i> , 2018 , 114, 346a	2.9	2
69	Snapshots of archaeal DNA replication and repair in living cells using super-resolution imaging. <i>Nucleic Acids Research</i> , 2018 , 46, 10757-10770	20.1	12
68	Dual-color deep-tissue three-photon microscopy with a multiband infrared laser. <i>Light: Science and Applications</i> , 2018 , 7, 12	16.7	52
67	An Efficient Multicolor Two-Photon Imaging of Endogenous Fluorophores in Living Tissues by Wavelength Mixing. <i>Biophysical Journal</i> , 2017 , 112, 186a	2.9	2

66	All-fiber femtosecond laser providing 9 nJ, 50 MHz pulses at 1650 nm for three-photon microscopy. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 065506	1.7	26
65	Metrology of Multiphoton Microscopes Using Second Harmonic Generation Nanoprobes. <i>Small</i> , 2017 , 13, 1701442	11	8
64	Life-Long Neurogenic Activity of Individual Neural Stem Cells and Continuous Growth Establish an Outside-In Architecture in the Teleost Pallium. <i>Current Biology</i> , 2017 , 27, 3288-3301.e3	6.3	34
63	Label-free imaging of bone multiscale porosity and interfaces using third-harmonic generation microscopy. <i>Scientific Reports</i> , 2017 , 7, 3419	4.9	37
62	Multicolor two-photon imaging of endogenous fluorophores in living tissues by wavelength mixing. <i>Scientific Reports</i> , 2017 , 7, 3792	4.9	69
61	Efficient second-harmonic imaging of collagen in histological slides using Bessel beam excitation. <i>Scientific Reports</i> , 2016 , 6, 29863	4.9	20
60	Whole-brain functional imaging with two-photon light-sheet microscopy. <i>Nature Methods</i> , 2015 , 12, 379-806	21.6	90
59	Large-scale live imaging of adult neural stem cells in their endogenous niche. <i>Development (Cambridge)</i> , 2015 , 142, 3592-600	6.6	44
58	Large-scale live imaging of adult neural stem cells in their endogenous niche. <i>Journal of Cell Science</i> , 2015 , 128, e1.2-e1.2	5.3	
57	Multicolor two-photon light-sheet microscopy. <i>Nature Methods</i> , 2014 , 11, 600-1	21.6	87
56	Multiplex cell and lineage tracking with combinatorial labels. <i>Neuron</i> , 2014 , 81, 505-20	13.9	112
55	Mitigating phototoxicity during multiphoton microscopy of live <i>Drosophila</i> embryos in the 1.0-1.2 μm wavelength range. <i>PLoS ONE</i> , 2014 , 9, e104250	3.7	42
54	Non-invasive monitoring of cell metabolism and lipid production in 3D engineered human adipose tissues using label-free multiphoton microscopy. <i>Biomaterials</i> , 2013 , 34, 8607-16	15.6	21
53	Probing Ordered Lipid Assemblies with Polarized Third-Harmonic-Generation Microscopy. <i>Physical Review X</i> , 2013 , 3,	9.1	15
52	Assessing correction accuracy in image-based adaptive optics 2012 ,		5
51	Methodology for reconstructing early zebrafish development from in vivo multiphoton microscopy. <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 2335-40	8.7	13
50	Multicolor two-photon tissue imaging by wavelength mixing. <i>Nature Methods</i> , 2012 , 9, 815-8	21.6	122
49	3D resolved mapping of optical aberrations in thick tissues. <i>Biomedical Optics Express</i> , 2012 , 3, 1898-913	3.5	34

48	Accuracy of correction in modal sensorless adaptive optics. <i>Optics Express</i> , 2012 , 20, 2598-612	3.3	68
47	Third-harmonic generation microscopy with Bessel beams: a numerical study. <i>Optics Express</i> , 2012 , 20, 24886-902	3.3	14
46	Advances in multiphoton microscopy for imaging embryos. <i>Current Opinion in Genetics and Development</i> , 2011 , 21, 538-48	4.9	43
45	Combined third-harmonic generation and four-wave mixing microscopy of tissues and embryos. <i>Biomedical Optics Express</i> , 2011 , 2, 2837-49	3.5	23
44	Simple characterisation of a deformable mirror inside a high numerical aperture microscope using phase diversity. <i>Journal of Microscopy</i> , 2011 , 244, 136-43	1.9	8
43	Multimodal nonlinear imaging of the human cornea 2010 , 51, 2459-65		103
42	Multiphoton microscopy of engineered dermal substitutes: assessment of 3-D collagen matrix remodeling induced by fibroblast contraction. <i>Journal of Biomedical Optics</i> , 2010 , 15, 056018	3.5	27
41	Harmonic microscopy of isotropic and anisotropic microstructure of the human cornea. <i>Optics Express</i> , 2010 , 18, 5028-40	3.3	41
40	Dispersion-based pulse shaping for multiplexed two-photon fluorescence microscopy. <i>Optics Letters</i> , 2010 , 35, 3444-6	3	14
39	Cell lineage reconstruction of early zebrafish embryos using label-free nonlinear microscopy. <i>Science</i> , 2010 , 329, 967-71	33.3	271
38	Two-photon microscopy with simultaneous standard and extended depth of field using a tunable acoustic gradient-index lens. <i>Optics Letters</i> , 2009 , 34, 1684-6	3	45
37	Dynamic aberration correction for multiharmonic microscopy. <i>Optics Letters</i> , 2009 , 34, 3145-7	3	45
36	Multiplexed two-photon microscopy of dynamic biological samples with shaped broadband pulses. <i>Optics Express</i> , 2009 , 17, 12741-52	3.3	23
35	Third-harmonic generation microscopy with focus-engineered beams: a numerical study. <i>Optics Express</i> , 2008 , 16, 14703-15	3.3	37
34	Tissue deformation modulates twist expression to determine anterior midgut differentiation in <i>Drosophila</i> embryos. <i>Developmental Cell</i> , 2008 , 15, 470-477	10.2	250
33	Mechanical factors activate beta-catenin-dependent oncogene expression in APC mouse colon. <i>HFSP Journal</i> , 2008 , 2, 286-94		68
32	Quantitative characterization of biological liquids for third-harmonic generation microscopy. <i>Biophysical Journal</i> , 2007 , 92, 603-12	2.9	60
31	Three-dimensional investigation and scoring of extracellular matrix remodeling during lung fibrosis using multiphoton microscopy. <i>Microscopy Research and Technique</i> , 2007 , 70, 162-70	2.8	111

30	Second harmonic imaging and scoring of collagen in fibrotic tissues. <i>Optics Express</i> , 2007 , 15, 4054-65	3.3	217
29	Signal epidetection in third-harmonic generation microscopy of turbid media. <i>Optics Express</i> , 2007 , 15, 8913-24	3.3	44
28	Micrometer scale ex vivo multiphoton imaging of unstained arterial wall structure. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2006 , 69, 20-6	4.6	71
27	Optical in situ size determination of single lanthanide-ion doped oxide nanoparticles. <i>Applied Physics Letters</i> , 2006 , 89, 253103	3.4	15
26	Fourier-transform coherent anti-Stokes Raman scattering microscopy. <i>Optics Letters</i> , 2006 , 31, 480-2	3	103
25	Use of coherent control for selective two-photon fluorescence microscopy in live organisms. <i>Optics Express</i> , 2006 , 14, 759-66	3.3	97
24	Structure sensitivity and sources of contrast in third-harmonic generation (THG) microscopy of cells and tissues 2006 , 6089, 229		
23	Imaging lipid bodies in cells and tissues using third-harmonic generation microscopy. <i>Nature Methods</i> , 2006 , 3, 47-53	21.6	410
22	Structure sensitivity in third-harmonic generation microscopy. <i>Optics Letters</i> , 2005 , 30, 2134-6	3	52
21	Emission properties and applications of nanostructured luminescent oxide nanoparticles. <i>Progress in Solid State Chemistry</i> , 2005 , 33, 99-106	8	41
20	Multiphoton microscopy using intrinsic signals for pharmacological studies in unstained cardiac and vascular tissue 2005 ,		1
19	Functionalized luminescent oxide nanoparticles for sodium channel imaging at the single molecule level 2005 , 5705, 192		0
18	In vivo analysis of Drosophila embryo developmental dynamics by femtosecond pulse-induced ablation and multimodal nonlinear microscopy 2005 , 5700, 256		
17	Femtosecond pulse-induced microprocessing of live Drosophila embryos. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2005 , 20, 207-216		14
16	In vivo modulation of morphogenetic movements in Drosophila embryos with femtosecond laser pulses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 1047-52	11.5	201
15	Functionalized Fluorescent Oxide Nanoparticles: Artificial Toxins for Sodium Channel Targeting and Imaging at the Single-Molecule Level. <i>Nano Letters</i> , 2004 , 4, 2079-2083	11.5	175
14	Second-harmonic microscopy of unstained living cardiac myocytes: measurements of sarcomere length with 20-nm accuracy. <i>Optics Letters</i> , 2004 , 29, 2031-3	3	80
13	Velocimetric third-harmonic generation microscopy: micrometer-scale quantification of morphogenetic movements in unstained embryos. <i>Optics Letters</i> , 2004 , 29, 2881-3	3	42

12	In vivo microdissection and live embryo imaging by two-photon microscopy to study <i>Drosophila melanogaster</i> early development 2004 , 5463, 13		1
11	High-resolution full-field optical coherence tomography with a Linnik microscope. <i>Applied Optics</i> , 2002 , 41, 805-12	1.7	329
10	Epifluorescence collection in two-photon microscopy. <i>Applied Optics</i> , 2002 , 41, 5376-82	1.7	51
9	Two-photon microscopy in brain tissue: parameters influencing the imaging depth. <i>Journal of Neuroscience Methods</i> , 2001 , 111, 29-37	3	308
8	Ultra-deep two-photon fluorescence excitation in turbid media. <i>Optics Communications</i> , 2001 , 188, 25-29		101
7	Odor-evoked calcium signals in dendrites of rat mitral cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 1230-1234	11.5	128
6	Odor-evoked calcium signals in dendrites of rat mitral cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 1230-4	11.5	71
5	Optical coherence microscopy for high-resolution biological imaging 2000 , 4160, 24		2
4	Combined scanning optical coherence and two-photon-excited fluorescence microscopy. <i>Optics Letters</i> , 1999 , 24, 969-71	3	121
3	High-resolution real-time full-field interference microscopy 1999 , 3605, 13		
2	Full-field optical coherence microscopy. <i>Optics Letters</i> , 1998 , 23, 244-6	3	290
1	nAdder: A scale-space approach for the 3D analysis of neuronal traces		2