

Willy Supatto

List of Publications by Year in descending order

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53
papers

3,390
citations

257101

24
h-index

329751

37
g-index

63
all docs

63
docs citations

63
times ranked

4293
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging lipid bodies in cells and tissues using third-harmonic generation microscopy. <i>Nature Methods</i> , 2006, 3, 47-53.	9.0	522
2	Deep and fast live imaging with two-photon scanned light-sheet microscopy. <i>Nature Methods</i> , 2011, 8, 757-760.	9.0	453
3	Tissue Deformation Modulates Twist Expression to Determine Anterior Midgut Differentiation in <i>Drosophila</i> Embryos. <i>Developmental Cell</i> , 2008, 15, 470-477.	3.1	306
4	In vivo modulation of morphogenetic movements in <i>Drosophila</i> embryos with femtosecond laser pulses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1047-1052.	3.3	243
5	Multicolor two-photon tissue imaging by wavelength mixing. <i>Nature Methods</i> , 2012, 9, 815-818.	9.0	165
6	Multiplex Cell and Lineage Tracking with Combinatorial Labels. <i>Neuron</i> , 2014, 81, 505-520.	3.8	142
7	Dynamic Analyses of <i>Drosophila</i> Gastrulation Provide Insights into Collective Cell Migration. <i>Science</i> , 2008, 322, 1546-1550.	6.0	141
8	Multicolor two-photon light-sheet microscopy. <i>Nature Methods</i> , 2014, 11, 600-601.	9.0	130
9	Whole-brain functional imaging with two-photon light-sheet microscopy. <i>Nature Methods</i> , 2015, 12, 379-380.	9.0	129
10	Advances in whole-embryo imaging: a quantitative transition is underway. <i>Nature Reviews Molecular Cell Biology</i> , 2014, 15, 327-339.	16.1	102
11	Multicolor two-photon imaging of endogenous fluorophores in living tissues by wavelength mixing. <i>Scientific Reports</i> , 2017, 7, 3792.	1.6	99
12	Dual-color deep-tissue three-photon microscopy with a multiband infrared laser. <i>Light: Science and Applications</i> , 2018, 7, 12.	7.7	91
13	Multicolor multiscale brain imaging with chromatic multiphoton serial microscopy. <i>Nature Communications</i> , 2019, 10, 1662.	5.8	75
14	An All-Optical Approach for Probing Microscopic Flows in Living Embryos. <i>Biophysical Journal</i> , 2008, 95, L29-L31.	0.2	71
15	Mesoderm migration in <i>Drosophila</i> is a multi-step process requiring FGF signaling and integrin activity. <i>Development (Cambridge)</i> , 2010, 137, 2167-2175.	1.2	71
16	Structure sensitivity in third-harmonic generation microscopy. <i>Optics Letters</i> , 2005, 30, 2134.	1.7	63
17	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.	1.1	59
18	Quantitative imaging of collective cell migration during <i>Drosophila</i> gastrulation: multiphoton microscopy and computational analysis. <i>Nature Protocols</i> , 2009, 4, 1397-1412.	5.5	58

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19	Advances in multiphoton microscopy for imaging embryos. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 538-548.	1.5	54
20	Velocimetric third-harmonic generation microscopy: a micrometer-scale quantification of morphogenetic movements in unstained embryos. <i>Optics Letters</i> , 2004, 29, 2881.	1.7	52
21	Large-scale live imaging of adult neural stem cells in their endogenous niche. <i>Development (Cambridge)</i> , 2015, 142, 3592-600.	1.2	51
22	Physical limits of flow sensing in the left-right organizer. <i>ELife</i> , 2017, 6, .	2.8	45
23	Fast <i>In Vivo</i> Imaging of SHG Nanoprobes with Multiphoton Light-Sheet Microscopy. <i>ACS Photonics</i> , 2020, 7, 1036-1049.	3.2	29
24	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.	5.2	29
25	Toward high-content/high-throughput imaging and analysis of embryonic morphogenesis. <i>Genesis</i> , 2011, 49, 555-569.	0.8	26
26	High-speed polarization-resolved third-harmonic microscopy. <i>Optica</i> , 2019, 6, 385.	4.8	24
27	Is mechano-sensitive expression of twist involved in mesoderm formation?. <i>Biology of the Cell</i> , 2004, 96, 471-477.	0.7	23
28	Efficient second-harmonic imaging of collagen in histological slides using Bessel beam excitation. <i>Scientific Reports</i> , 2016, 6, 29863.	1.6	22
29	Fast in vivo multiphoton light-sheet microscopy with optimal pulse frequency. <i>Biomedical Optics Express</i> , 2020, 11, 6012.	1.5	19
30	Femtosecond pulse-induced microprocessing of live <i>Drosophila</i> embryos. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2005, 20, 207-216.	0.4	18
31	From Cilia Hydrodynamics to Zebrafish Embryonic Development. <i>Current Topics in Developmental Biology</i> , 2011, 95, 33-66.	1.0	17
32	Metrology of Multiphoton Microscopes Using Second Harmonic Generation Nanoprobes. <i>Small</i> , 2017, 13, 1701442.	5.2	16
33	Chiral Cilia Orientation in the Left-Right Organizer. <i>Cell Reports</i> , 2018, 25, 2008-2016.e4.	2.9	14
34	Three-Photon Microscopy with a Monolithic All-Fiber Format Laser Emitting at 1650 nm. , 2016, , .		2
35	An Efficient Multicolor Two-Photon Imaging of Endogenous Fluorophores in Living Tissues by Wavelength Mixing. <i>Biophysical Journal</i> , 2017, 112, 186a.	0.2	2
36	In vivo microdissection and live embryo imaging by two-photon microscopy to study <i>Drosophila melanogaster</i> early development. , 2004, 5463, 13.		1

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37	In vivo analysis of Drosophila embryo developmental dynamics by femtosecond pulse-induced ablation and multimodal nonlinear microscopy. , 2005, 5700, 256.		0
38	An all-optical approach to modulate and quantitatively analyse embryo morphogenetic movements by using ultrashort laser pulses. , 2006, , .		0
39	Structure sensitivity and sources of contrast in third-harmonic generation (THG) microscopy of cells and tissues. , 2006, 6089, 229.		0
40	Quantitative imaging of the collective cell movements shaping an embryo. , 2008, , .		0
41	Probing cilia-driven flow in living embryos using femtosecond laser ablation and fast imaging. Proceedings of SPIE, 2009, , .	0.8	0
42	Challenges session. , 2011, , .		0
43	Multiphoton light-sheet microscopy using wavelength mixing: fast multicolor imaging of the beating Zebrafish heart with low photobleaching. , 2015, , .		0
44	Volumetric multicolor multiphoton microscopy for neuron connectivity and cell lineage analysis. , 2017, , .		0
45	Microscopie multiphoton illuminée par nappe : imagerie de fluorescence rapide et en profondeur dans les tissus vivants. Photoniques, 2012, , 33-37.	0.0	0
46	Studying connectivity and brain development with combinatorial Brainbow labels. Frontiers in Neuroinformatics, 0, 7, .	1.3	0
47	Large-scale live imaging of adult neural stem cells in their endogenous niche. Journal of Cell Science, 2015, 128, e1.2-e1.2.	1.2	0
48	Chromatic serial multiphoton microscopy for high-content multiscale analysis of large brain volumes. , 2019, , .		0
49	Chromatic serial multiphoton microscopy for multicolor imaging of large brain volumes. , 2019, , .		0
50	Fast P-THG microscopy for the characterization of biomaterials. , 2019, , .		0
51	Multiphoton Light-sheet Microscopy at Optimal Pulse Frequency for Fast In Vivo Imaging. , 2020, , .		0
52	Advances in fast multiphoton microscopy using light-sheet illumination. , 2020, , .		0
53	Fast cardiac imaging in live embryos using multiphoton light-sheet microscopy at low laser repetition rate. , 2021, , .		0