Willy Supatto

List of Publications by Citations

39 papers	2,583 citations	22 h-index	50 g-index
62 ext. papers	3,138 ext. citations	10.9 avg, IF	4.82 L-index

#	Paper	IF	Citations
39	Imaging lipid bodies in cells and tissues using third-harmonic generation microscopy. *Nature Methods*, **2006**, 3, 47-53	21.6	410
38	Deep and fast live imaging with two-photon scanned light-sheet microscopy. *Nature Methods*, **2011**, 8, 757-60	21.6	352
37	Tissue deformation modulates twist expression to determine anterior midgut differentiation in Drosophila embryos. *Developmental Cell*, **2008**, 15, 470-477	10.2	250
36	In vivo modulation of morphogenetic movements in Drosophila embryos with femtosecond laser pulses. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 1047-52	11.5	201
35	Dynamic analyses of Drosophila gastrulation provide insights into collective cell migration. *Science*, **2008**, 322, 1546-50	33.3	127
34	Multicolor two-photon tissue imaging by wavelength mixing. *Nature Methods*, **2012**, 9, 815-8	21.6	122
33	Multiplex cell and lineage tracking with combinatorial labels. *Neuron*, **2014**, 81, 505-20	13.9	112
32	Whole-brain functional imaging with two-photon light-sheet microscopy. *Nature Methods*, **2015**, 12, 379-80	21.6	90
31	Multicolor two-photon light-sheet microscopy. *Nature Methods*, **2014**, 11, 600-1	21.6	87
30	Advances in whole-embryo imaging: a quantitative transition is underway. *Nature Reviews Molecular Cell Biology*, **2014**, 15, 327-39	48.7	76
29	Multicolor two-photon imaging of endogenous fluorophores in living tissues by wavelength mixing. *Scientific Reports*, **2017**, 7, 3792	4.9	69
28	Mesoderm migration in Drosophila is a multi-step process requiring FGF signaling and integrin activity. *Development (Cambridge)*, **2010**, 137, 2167-75	6.6	61
27	Quantitative imaging of collective cell migration during Drosophila gastrulation: multiphoton microscopy and computational analysis. *Nature Protocols*, **2009**, 4, 1397-412	18.8	52
26	Structure sensitivity in third-harmonic generation microscopy. *Optics Letters*, **2005**, 30, 2134-6	3	52
25	Dual-color deep-tissue three-photon microscopy with a multiband infrared laser. *Light: Science and Applications*, **2018**, 7, 12	16.7	52
24	An all-optical approach for probing microscopic flows in living embryos. *Biophysical Journal*, **2008**, 95, L29-31	2.9	50
23	Multicolor multiscale brain imaging with chromatic multiphoton serial microscopy. *Nature Communications*, **2019**, 10, 1662	17.4	49

22	Large-scale live imaging of adult neural stem cells in their endogenous niche. *Development (Cambridge)*, **2015**, 142, 3592-600	6.6	44
21	Advances in multiphoton microscopy for imaging embryos. *Current Opinion in Genetics and Development*, **2011**, 21, 538-48	4.9	43
20	Mitigating phototoxicity during multiphoton microscopy of live Drosophila embryos in the 1.0-1.2 μm wavelength range. *PLoS ONE*, **2014**, 9, e104250	3.7	42
19	Velocimetric third-harmonic generation microscopy: micrometer-scale quantification of morphogenetic movements in unstained embryos. *Optics Letters*, **2004**, 29, 2881-3	3	42
18	Physical limits of flow sensing in the left-right organizer. *ELife*, **2017**, 6,	8.9	28
17	Toward high-content/high-throughput imaging and analysis of embryonic morphogenesis. *Genesis*, **2011**, 49, 555-69	1.9	22
16	Is mechano-sensitive expression of twist involved In mesoderm formation?. *Biology of the Cell*, **2004** , 96, 471-7	3.5	22
15	Efficient second-harmonic imaging of collagen in histological slides using Bessel beam excitation. *Scientific Reports*, **2016**, 6, 29863	4.9	20
14	From cilia hydrodynamics to zebrafish embryonic development. *Current Topics in Developmental Biology*, **2011**, 95, 33-66	5.3	17
13	Fast Imaging of SHG Nanoprobes with Multiphoton Light-Sheet Microscopy. *ACS Photonics*, **2020**, 7, 1036-1049	6.5	14
12	Femtosecond pulse-induced microprocessing of live Drosophila embryos. *Medical Laser Application: International Journal for Laser Treatment and Research*, **2005**, 20, 207-216		14
11	High-speed polarization-resolved third-harmonic microscopy. *Optica*, **2019**, 6, 385	8.6	11
10	Dynamic spatiotemporal coordination of neural stem cell fate decisions occurs through local feedback in the adult vertebrate brain. *Cell Stem Cell*, **2021**, 28, 1457-1472.e12	18	10
9	Fast multiphoton light-sheet microscopy with optimal pulse frequency. *Biomedical Optics Express*, **2020**, 11, 6012-6026	3.5	9
8	Metrology of Multiphoton Microscopes Using Second Harmonic Generation Nanoprobes. *Small*, **2017**, 13, 1701442	11	8
7	Chiral Cilia Orientation in the Left-Right Organizer. *Cell Reports*, **2018**, 25, 2008-2016.e4	10.6	7
6	An Efficient Multicolor Two-Photon Imaging of Endogenous Fluorophores in Living Tissues by Wavelength Mixing. *Biophysical Journal*, **2017**, 112, 186a	2.9	2
5	In vivo microdissection and live embryo imaging by two-photon microscopy to study Drosophila melanogaster early development **2004**, 5463, 13		1

4	Chiral cilia orientation in the left-right organizer	1
3	Structure sensitivity and sources of contrast in third-harmonic generation (THG) microscopy of cells and tissues **2006**, 6089, 229	
2	In vivo analysis of Drosophila embryo developmental dynamics by femtosecond pulse-induced ablation and multimodal nonlinear microscopy **2005**, 5700, 256	
1	Large-scale live imaging of adult neural stem cells in their endogenous niche. *Journal of Cell Science* , **2015**, 128, e1.2-e1.2	5.3