Periklis Pantazis

List of Publications by Citations

37 papers	1,888 citations	20 h-index	43 g-index
45 ext. papers	2,146 ext. citations	10 avg, IF	4.63 L-index

#	Paper	IF	Citations
37	Kinetics of morphogen gradient formation. *Science*, **2007**, 315, 521-5	33.3	296
36	Second harmonic generating (SHG) nanoprobes for in vivo imaging. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 14535-40	11.5	228
35	Oct4 kinetics predict cell lineage patterning in the early mammalian embryo. *Nature Cell Biology*, **2011**, 13, 117-23	23.4	178
34	Paramagnetic, silicon quantum dots for magnetic resonance and two-photon imaging of macrophages. *Journal of the American Chemical Society*, **2010**, 132, 2016-23	16.4	140
33	Precision of the Dpp gradient. *Development (Cambridge)*, **2008**, 135, 1137-46	6.6	111
32	Dpp gradient formation by dynamin-dependent endocytosis: receptor trafficking and the diffusion model. *Development (Cambridge)*, **2004**, 131, 4843-56	6.6	86
31	Robust formation of morphogen gradients. *Physical Review Letters*, **2005**, 94, 018103	7.4	84
30	Advances in whole-embryo imaging: a quantitative transition is underway. *Nature Reviews Molecular Cell Biology*, **2014**, 15, 327-39	48.7	76
29	Optogenetic control with a photocleavable protein, PhoCl. *Nature Methods*, **2017**, 14, 391-394	21.6	68
28	SHG nanoprobes: advancing harmonic imaging in biology. *BioEssays*, **2012**, 34, 351-60	4.1	68
27	Automated processing of zebrafish imaging data: a survey. *Zebrafish*, **2013**, 10, 401-21	2	65
26	Intercellular bridges in vertebrate gastrulation. *PLoS ONE*, **2011**, 6, e20230	3.7	61
25	Surface functionalization of barium titanate SHG nanoprobes for in vivo imaging in zebrafish. *Nature Protocols*, **2012**, 7, 1618-33	18.8	58
24	In vivo single-cell labeling by confined primed conversion. *Nature Methods*, **2015**, 12, 645-8	21.6	54
23	Determination of S-nitrosoglutathione in human and rat plasma by high-performance liquid chromatography with fluorescence and ultraviolet absorbance detection after precolumn derivatization with o-phthalaldehyde. *Analytical Biochemistry*, **1999**, 273, 32-40	3.1	52
22	Morphogen transport in epithelia. *Physical Review E*, **2007**, 75, 011901	2.4	40
21	PhOTO zebrafish: a transgenic resource for in vivo lineage tracing during development and regeneration. *PLoS ONE*, **2012**, 7, e32888	3.7	38

20	Rational Engineering of Photoconvertible Fluorescent Proteins for Dual-Color Fluorescence Nanoscopy Enabled by a Triplet-State Mechanism of Primed Conversion. *Angewandte Chemie - International Edition*, **2017**, 56, 11628-11633	16.4	27
19	Membrane traffic during embryonic development: epithelial formation, cell fate decisions and differentiation. *Current Opinion in Cell Biology*, **2004**, 16, 407-14	9	21
18	Labeling cellular structures in vivo using confined primed conversion of photoconvertible fluorescent proteins. *Nature Protocols*, **2016**, 11, 2419-2431	18.8	20
17	Localized multiphoton photoactivation of paGFP in Drosophila wing imaginal discs. *Journal of Biomedical Optics*, **2007**, 12, 044004	3.5	19
16	Fast Imaging of SHG Nanoprobes with Multiphoton Light-Sheet Microscopy. *ACS Photonics*, **2020**, 7, 1036-1049	6.5	14
15	Monitoring and manipulating cellular crosstalk during kidney fibrosis inside a 3D in vitro co-culture. *Scientific Reports*, **2017**, 7, 14490	4.9	13
14	Effective Labeling of Primary Somatic Stem Cells with BaTiO Nanocrystals for Second Harmonic Generation Imaging. *Small*, **2018**, 14, 1703386	11	11
13	Transcription factor kinetics and the emerging asymmetry in the early mammalian embryo. *Cell Cycle*, **2012**, 11, 2055-8	4.7	11
12	In vivo cell tracking using PhOTO zebrafish. *Methods in Molecular Biology*, **2014**, 1148, 217-28	1.4	9
11	Image Correlation Spectroscopy with Second Harmonic Generating Nanoparticles in Suspension and in Cells. *Journal of Physical Chemistry Letters*, **2018**, 9, 6112-6118	6.4	8
10	Primed Conversion: The New Kid on the Block for Photoconversion. *Chemistry - A European Journal*, **2018**, 24, 8268-8274	4.8	5
9	Rational Engineering of Photoconvertible Fluorescent Proteins for Dual-Color Fluorescence Nanoscopy Enabled by a Triplet-State Mechanism of Primed Conversion. *Angewandte Chemie*, **2017**, 129, 11786-11791	3.6	4
8	Determination of the source of SHG verniers in zebrafish skeletal muscle. *Scientific Reports*, **2015**, 5, 18119	4.9	4
7	Symmetry breaking in the early mammalian embryo: the case for quantitative single-cell imaging analysis. *Molecular Human Reproduction*, **2016**, 22, 172-81	4.4	3
6	Primed Track, high-fidelity lineage tracing in mouse pre-implantation embryos using primed conversion of photoconvertible proteins. *ELife*, **2019**, 8,	8.9	3
5	Biodegradable Harmonophores for Targeted High-Resolution Tumor Imaging. *ACS Nano*, **2021**, 15, 4144-4154	16.7	3
4	Second harmonic generating (SHG) nanoprobes: a new tool for biomedical imaging **2009**,		2
3	GenEPi: Piezo1-based fluorescent reporter for visualizing mechanical stimuli with high spatiotemporal resolution		1

2	Primed Track: Reliable Volumetric Single-cell Tracking and Lineage Tracing of Living Specimen with Dual-labeling Approaches. *Bio-protocol*, **2020**, 10, e3645	0.9
1	PhOTO zebrafish and primed conversion: advancing the mechanistic view of development and disease **2020**, 309-322	