Alberto Diaspro

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479 papers	11,197 citations	50 h-index	83 g-index
650 ext. papers	12,845 ext. citations	3.6 avg, IF	6.44 L-index

#	Paper	IF	Citations
479	Endocytic trafficking of Rac is required for the spatial restriction of signaling in cell migration. *Cell*, **2008**, 134, 135-47	56.2	364
478	Precisely and accurately localizing single emitters in fluorescence microscopy. *Nature Methods*, **2014**, 11, 253-66	21.6	341
477	Superoxide is a mediator of an altruistic aging program in Saccharomyces cerevisiae. *Journal of Cell Biology*, **2004**, 166, 1055-67	7.3	303
476	Live-cell 3D super-resolution imaging in thick biological samples. *Nature Methods*, **2011**, 8, 1047-9	21.6	295
475	SOD2 functions downstream of Sch9 to extend longevity in yeast. *Genetics*, **2003**, 163, 35-46	4	275
474	STED super-resolved microscopy. *Nature Methods*, **2018**, 15, 173-182	21.6	243
473	Two-photon fluorescence excitation and related techniques in biological microscopy. *Quarterly Reviews of Biophysics*, **2005**, 38, 97-166	7	235
472	Single Living Cell Encapsulation in Nano-organized Polyelectrolyte Shells. *Langmuir*, **2002**, 18, 5047-5050	4	214
471	The 2015 super-resolution microscopy roadmap. *Journal Physics D: Applied Physics*, **2015**, 48, 443001	3	211
470	Aloe-emodin is a new type of anticancer agent with selective activity against neuroectodermal tumors. *Cancer Research*, **2000**, 60, 2800-4	10.1	198
469	Multilayer nanoencapsulation. New approach for immune protection of human pancreatic islets. *Nano Letters*, **2006**, 6, 1933-9	11.5	156
468	Protein synthesis in liposomes with a minimal set of enzymes. *Biochemical and Biophysical Research Communications*, **2007**, 363, 12-7	3.4	128
467	Interaction of polyelectrolytes and their composites with living cells. *Nano Letters*, **2005**, 5, 2605-12	11.5	109
466	Multi-photon excitation microscopy. *BioMedical Engineering OnLine*, **2006**, 5, 36	4.1	97
465	Optical Properties of Femtosecond Laser-Synthesized Silicon Nanoparticles in Deionized Water. *Journal of Physical Chemistry C*, **2011**, 115, 5102-5107	3.8	90
464	Two-photon activation and excitation properties of PA-GFP in the 720-920-nm region. *Biophysical Journal*, **2005**, 89, 1346-52	2.9	89
463	Strategies to maximize the performance of a STED microscope. *Optics Express*, **2012**, 20, 7362-74	3.3	88

462	Glia re-sealed particles freshly prepared from adult rat brain are competent for exocytotic release of glutamate. *Journal of Neurochemistry*, **2006**, 96, 656-68	6	87
461	Two-photon excitation of fluorescence for three-dimensional optical imaging of biological structures. *Journal of Photochemistry and Photobiology B: Biology*, **2000**, 55, 1-8	6.7	87
460	Influence of refractive-index mismatch in high-resolution three-dimensional confocal microscopy. *Applied Optics*, **2002**, 41, 685-90	1.7	84
459	Evidence for aerobic ATP synthesis in isolated myelin vesicles. *International Journal of Biochemistry and Cell Biology*, **2009**, 41, 1581-91	5.6	81
458	Fluorescence recovery after photobleaching in material and life sciences: putting theory into practice. *Quarterly Reviews of Biophysics*, **2015**, 48, 323-87	7	78
457	Fabrication of large-area ordered and reproducible nanostructures for SERS biosensor application. *Analyst, The*, **2012**, 137, 1785-92	5	76
456	Synthesis of highly luminescent wurtzite CdSe/CdS giant-shell nanocrystals using a fast continuous injection route. *Journal of Materials Chemistry C*, **2014**, 2, 3439	7.1	75
455	Amyloid precursor protein and Presenilin1 interact with the adaptor GRB2 and modulate ERK 1,2 signaling. *Journal of Biological Chemistry*, **2007**, 282, 13833-44	5.4	75
454	Luminescent silicon nanoparticles prepared by ultra short pulsed laser ablation in liquid for imaging applications. *Optical Materials Express*, **2012**, 2, 510	2.6	72
453	Bioconjugated silicon quantum dots from one-step green synthesis. *Nanoscale*, **2012**, 4, 1271-4	7.7	70
452	Encapsulated living cells on microstructured surfaces. *Langmuir*, **2005**, 21, 705-9	4	70
451	A robust and versatile platform for image scanning microscopy enabling super-resolution FLIM. *Nature Methods*, **2019**, 16, 175-178	21.6	70
450	Laser synthesis of ligand-free bimetallic nanoparticles for plasmonic applications. *Physical Chemistry Chemical Physics*, **2013**, 15, 3075-82	3.6	68
449	A novel nanoscopic tool by combining AFM with STED microscopy. *Optical Nanoscopy*, **2012**, 1, 3		67
448	Unraveling the organization of the internal nuclear matrix: RNA-dependent anchoring of NuMA to a lamin scaffold. *Experimental Cell Research*, **2002**, 279, 202-18	4.2	67
447	Single-wavelength two-photon excitation-stimulated emission depletion (SW2PE-STED) superresolution imaging. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 6390-3	11.5	66
446	Evidence for aerobic metabolism in retinal rod outer segment disks. *International Journal of Biochemistry and Cell Biology*, **2009**, 41, 2555-65	5.6	65
445	Advanced correlative light/electron microscopy: current methods and new developments using Tokuyasu cryosections. *Journal of Histochemistry and Cytochemistry*, **2009**, 57, 1103-12	3.4	63

444	Simultaneous multiplane confocal microscopy using acoustic tunable lenses. *Optics Express*, **2014**, 22, 19293-301	3.3	62
443	Probing cytoskeletal structures by coupling optical superresolution and AFM techniques for a correlative approach. *Cytoskeleton*, **2013**, 70, 729-40	2.4	62
442	Three-dimensional (3D) backward and forward second harmonic generation (SHG) microscopy of biological tissues. *Journal of Biophotonics*, **2008**, 1, 443-50	3.1	61
441	STED-FLCS: An Advanced Tool to Reveal Spatiotemporal Heterogeneity of Molecular Membrane Dynamics. *Nano Letters*, **2015**, 15, 5912-8	11.5	59
440	Dynamics of green fluorescent protein mutant2 in solution, on spin-coated glasses, and encapsulated in wet silica gels. *Protein Science*, **2002**, 11, 1152-61	6.3	59
439	Encoding and decoding spatio-temporal information for super-resolution microscopy. *Nature Communications*, **2015**, 6, 6701	17.4	58
438	Nanoscale Molecular Reorganization of the Inhibitory Postsynaptic Density Is a Determinant of GABAergic Synaptic Potentiation. *Journal of Neuroscience*, **2017**, 37, 1747-1756	6.6	57
437	Order versus Disorder: in vivo bone formation within osteoconductive scaffolds. *Scientific Reports*, **2012**, 2, 274	4.9	57
436	Involvement of p53 in specific anti-neuroectodermal tumor activity of aloe-emodin. *International Journal of Cancer*, **2003**, 106, 836-47	7.5	57
435	Two-photon thermal bleaching of single fluorescent molecules. *Biophysical Journal*, **2003**, 84, 588-98	2.9	56
434	STED nanoscopy: a glimpse into the future. *Cell and Tissue Research*, **2015**, 360, 143-50	4.2	54
433	A new FRAP/FRAPa method for three-dimensional diffusion measurements based on multiphoton excitation microscopy. *Biophysical Journal*, **2008**, 95, 3457-69	2.9	53
432	Measurement of nanoscale three-dimensional diffusion in the interior of living cells by STED-FCS. *Nature Communications*, **2017**, 8, 65	17.4	51
431	Proteomic analysis of the retinal rod outer segment disks. *Journal of Proteome Research*, **2008**, 7, 2654-69	3.6	50
430	Light-sheet confined super-resolution using two-photon photoactivation. *PLoS ONE*, **2013**, 8, e67667	3.7	50
429	Biocompatibility and biodistribution of functionalized carbon nano-onions (f-CNOs) in a vertebrate model. *Scientific Reports*, **2016**, 6, 33923	4.9	49
428	Evaluating image resolution in stimulated emission depletion microscopy. *Optica*, **2018**, 5, 32	8.6	49
427	Gated CW-STED microscopy: a versatile tool for biological nanometer scale investigation. *Methods*, **2014**, 66, 124-30	4.6	49

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425	Photobleaching **2006**, 690-702		48
424	Presynaptic mGlu1 and mGlu5 autoreceptors facilitate glutamate exocytosis from mouse cortical nerve endings. *Neuropharmacology*, **2008**, 55, 474-82	5.5	47
423	Management of sport-related maxillofacial injuries. *Journal of Craniofacial Surgery*, **2008**, 19, 377-82	1.2	47
422	High data output and automated 3D correlative light-electron microscopy method. *Traffic*, **2008**, 9, 1828-38	5.7	47
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420	Fourier ring correlation simplifies image restoration in fluorescence microscopy. *Nature Communications*, **2019**, 10, 3103	17.4	45
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397	Towards excimer-laser-based stereolithography: a rapid process to fabricate rigid biodegradable photopolymer scaffolds. *Journal of the Royal Society Interface*, **2012**, 9, 3017-26	4.1	32
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