Ignacio Izeddin

List of Publications by Year
in descending order

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34 papers	2,487 citations	361388 20 h-index	395678 33 g-index
37 all docs	37 docs citations	37 times ranked	3631 citing authors

#	Article	IF	Citations
1	Real-Time Dynamics of RNA Polymerase II Clustering in Live Human Cells. Science, 2013, 341, 664-667.	12.6	417
2	Space-separated quantum cutting with silicon nanocrystals for photovoltaic applications. Nature Photonics, 2008, 2, 105-109.	31.4	302
3	Single-molecule tracking in live cells reveals distinct target-search strategies of transcription factors in the nucleus. ELife, 2014, 3, .	6.0	273
4	Quantitative Nanoscopy of Inhibitory Synapses: Counting Gephyrin Molecules and Receptor Binding Sites. Neuron, 2013, 79, 308-321.	8.1	190
5	Wavelet analysis for single molecule localization microscopy. Optics Express, 2012, 20, 2081.	3.4	173
6	PSF shaping using adaptive optics for three-dimensional single-molecule super-resolution imaging and tracking. Optics Express, 2012, 20, 4957.	3.4	140
7	Super-Resolution Dynamic Imaging of Dendritic Spines Using a Low-Affinity Photoconvertible Actin Probe. PLoS ONE, 2011, 6, e15611.	2.5	137
8	The SNARE Sec22b has a non-fusogenic function in plasma membrane expansion. Nature Cell Biology, 2014, 16, 434-444.	10.3	123
9	Nanosecond Dynamics of the Near-Infrared Photoluminescence of Er-DopedSiO2Sensitized with Si Nanocrystals. Physical Review Letters, 2006, 97, 207401.	7.8	87
10	Assessing the localization of centrosomal proteins by PALM/STORM nanoscopy. Cytoskeleton, 2011, 68, 619-627.	2.0	74
11	Multi-scale tracking reveals scale-dependent chromatin dynamics after DNA damage. Molecular Biology of the Cell, 2017, 28, 3323-3332.	2.1	71
12	Energy transfer in Er-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SiO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>with Si nanocrystals. Physical Review B, 2008, 78, .	3.2	70
13	Geometry of the nucleus: a perspective on gene expression regulation. Current Opinion in Chemical Biology, 2014, 20, 112-119.	6.1	48
14	Lateral Diffusion on Tubular Membranes: Quantification of Measurements Bias. PLoS ONE, 2011, 6, e25731.	2.5	43
15	Single cell correlation fractal dimension of chromatin. Nucleus, 2014, 5, 75-84.	2.2	40
16	Accessing the third dimension in localization-based super-resolution microscopy. Physical Chemistry Chemical Physics, 2014, 16, 16340-16348.	2.8	38
17	Isotope Dependence of the Lifetime of the1136â^'cmâ^'1Vibration of Oxygen in Silicon. Physical Review Letters, 2006, 96, 225503.	7.8	34
18	Anomalous Subdiffusion in Living Cells: Bridging the Gap Between Experiments and Realistic Models Through Collaborative Challenges. Frontiers in Physics, 2020, 8, .	2.1	31

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19	Donor-State-Enabling Er-Related Luminescence in Silicon: Direct Identification and Resonant Excitation. Physical Review Letters, 2007, 99, 077401.	7.8	29
20	Saturation of luminescence from Si nanocrystals embedded in SiO₂. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 183-187.	1.8	27
21	Single molecule study of non-specific binding kinetics of LacI in mammalian cells. Faraday Discussions, 2015, 184, 393-400.	3.2	23
22	Relocating Single Molecules in Super-Resolved Fluorescence Lifetime Images near a Plasmonic Nanostructure. ACS Photonics, 2020, 7, 393-400.	6.6	15
23	Additive Manufacturing of 3D Luminescent ZrO₂:Eu³⁺ Architectures. Advanced Optical Materials, 2022, 10, .	7.3	15
24	CramÃ©r-Rao analysis of lifetime estimations in time-resolved fluorescence microscopy. Optics Express, 2019, 27, 21239.	3.4	13
25	Excitation paths in RE-doped IIIâ€“V semiconductors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 105, 141-145.	3.5	12
26	Endothelium-dependent contraction induced by acetylcholine in the chicken ductus arteriosus involves cyclooxygenase-1 activation and TP receptor stimulation. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2010, 157, 28-34.	1.8	12
27	Er-Doped Electro-Optical Memory Element for 1.5-mu m Silicon Photonics. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1539-1544.	2.9	8
28	Non-radiative sub-microsecond recombination of excited Er3+ ions in SiO2 sensitized with Si nanocrystals. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 38, 144-147.	2.7	7
29	Dual-color 3D PALM/dSTORM imaging of centrosomal proteins using MicAO 3DSR. Proceedings of SPIE, 2013, , .	0.8	7
30	Super-resolution imaging: when biophysics meets nanophotonics. Nanophotonics, 2022, 11, 169-202.	6.0	6
31	Photoluminescence and excitation spectroscopy of the 1.5Â Î¼m Er-related band in MBE-grown GaN layers. Superlattices and Microstructures, 2004, 36, 701-705.	3.1	5
32	Visualizing the Ultrastructures and Dynamics of Synapses by Single-Molecule Nanoscopy. Neuromethods, 2014, , 75-91.	0.3	3
33	Isotope effects and temperature-dependence studies on vibrational lifetimes of interstitial oxygen in silicon. Nuclear Instruments & Methods in Physics Research B, 2006, 253, 200-204.	1.4	0
34	Mid-infrared spectroscopy of the Er-related donor state in Si/Si:Er3+ nanolayers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 146, 131-134.	3.5	0