

Fabien F Pinaud

List of Publications by Year in descending order

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44
papers

12,279
citations

236925

25
h-index

289244

40
g-index

49
all docs

49
docs citations

49
times ranked

14920
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Dots for Live Cells, in Vivo Imaging, and Diagnostics. <i>Science</i> , 2005, 307, 538-544.	12.6	7,371
2	Synthesis and Properties of Biocompatible Water-Soluble Silica-Coated CdSe/ZnS Semiconductor Quantum Dots. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8861-8871.	2.6	1,221
3	Bioactivation and Cell Targeting of Semiconductor CdSe/ZnS Nanocrystals with Phytochelatin-Related Peptides. <i>Journal of the American Chemical Society</i> , 2004, 126, 6115-6123.	13.7	564
4	Advances in fluorescence imaging with quantum dot bio-probes. <i>Biomaterials</i> , 2006, 27, 1679-1687.	11.4	411
5	Probing cellular events, one quantum dot at a time. <i>Nature Methods</i> , 2010, 7, 275-285.	19.0	376
6	Properties of Fluorescent Semiconductor Nanocrystals and their Application to Biological Labeling. <i>Single Molecules</i> , 2001, 2, 261-276.	0.9	365
7	Ultrahigh-resolution multicolor colocalization of single fluorescent probes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 9461-9466.	7.1	304
8	The Power and Prospects of Fluorescence Microscopies and Spectroscopies. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2003, 32, 161-182.	18.3	198
9	Dynamic Partitioning of a Glycosylâ€Phosphatidylinositolâ€Anchored Protein in Glycosphingolipidâ€Rich Microdomains Imaged by Singleâ€Quantum Dot Tracking. <i>Traffic</i> , 2009, 10, 691-712.	2.7	153
10	Characterization and Mechanism of Stress-induced Translocation of 78-Kilodalton Glucose-regulated Protein (GRP78) to the Cell Surface. <i>Journal of Biological Chemistry</i> , 2015, 290, 8049-8064.	3.4	139
11	Comparison of Photophysical and Colloidal Properties of Biocompatible Semiconductor Nanocrystals Using Fluorescence Correlation Spectroscopy. <i>Analytical Chemistry</i> , 2005, 77, 2235-2242.	6.5	115
12	Tracking bioâ€molecules in live cells using quantum dots. <i>Journal of Biophotonics</i> , 2008, 1, 287-298.	2.3	112
13	High-Affinity Labeling and Tracking of Individual Histidine-Tagged Proteins in Live Cells Using Ni ²⁺ Tris-nitrilotriacetic Acid Quantum Dot Conjugates. <i>Nano Letters</i> , 2009, 9, 1228-1234.	9.1	103
14	Cellular imaging by targeted assembly of hot-spot SERS and photoacoustic nanoprobe using split-fluorescent protein scaffolds. <i>Nature Communications</i> , 2018, 9, 607.	12.8	102
15	A New Family of Pyridine-Appended Multidentate Polymers As Hydrophilic Surface Ligands for Preparing Stable Biocompatible Quantum Dots. <i>Chemistry of Materials</i> , 2014, 26, 5327-5344.	6.7	94
16	Covalent Monofunctionalization of Peptide-Coated Quantum Dots for Single-Molecule Assays. <i>Nano Letters</i> , 2010, 10, 2147-2154.	9.1	93
17	Selfâ€Controlled Monofunctionalization of Quantum Dots for Multiplexed Protein Tracking in Live Cells. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4108-4112.	13.8	67
18	Targeting and imaging single biomolecules in living cells by complementation-activated light microscopy with split-fluorescent proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E201-E210.	7.1	61

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19	Enhancing the Photoluminescence of Peptide-Coated Nanocrystals with Shell Composition and UV Irradiation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1669-1674.	2.6	57
20	In vivo single-molecule imaging identifies altered dynamics of calcium channels in dystrophin-mutant <i>C. elegans</i> . <i>Nature Communications</i> , 2014, 5, 4974.	12.8	45
21	Solubilization of Quantum Dots with a Recombinant Peptide from <i>Escherichia coli</i> . <i>Small</i> , 2007, 3, 793-798.	10.0	38
22	Aromatic Aldehyde and Hydrazine Activated Peptide Coated Quantum Dots for Easy Bioconjugation and Live Cell Imaging. <i>Bioconjugate Chemistry</i> , 2011, 22, 1006-1011.	3.6	36
23	High Affinity scFv ⁺ Hapten Pair as a Tool for Quantum Dot Labeling and Tracking of Single Proteins in Live Cells. <i>Nano Letters</i> , 2008, 8, 4618-4623.	9.1	34
24	Characterization of Split Fluorescent Protein Variants and Quantitative Analyses of Their Self-Assembly Process. <i>Scientific Reports</i> , 2018, 8, 5344.	3.3	32
25	GRP78 regulates CD44v membrane homeostasis and cell spreading in tamoxifen-resistant breast cancer. <i>Life Science Alliance</i> , 2019, 2, e201900377.	2.8	28
26	Split ⁺ GFP: SERS Enhancers in Plasmonic Nanocluster Probes. <i>Small</i> , 2016, 12, 5891-5901.	10.0	25
27	Focused Ultrasound Stimulates ER Localized Mechanosensitive PANNEXIN-1 to Mediate Intracellular Calcium Release in Invasive Cancer Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 504.	3.7	20
28	Single molecule tracking of bacterial cell surface cytochromes reveals dynamics that impact long-distance electron transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119964119.	7.1	18
29	Notice of Violation of IEEE Publication Principles: Peptide coated quantum dots for biological applications. <i>IEEE Transactions on Nanobioscience</i> , 2006, 5, 231-238.	3.3	16
30	Conformational regulation of <i>Escherichia coli</i> DNA polymerase V by RecA and ATP. <i>PLoS Genetics</i> , 2019, 15, e1007956.	3.5	16
31	A Micropatterning Strategy to Study Nuclear Mechanotransduction in Cells. <i>Micromachines</i> , 2019, 10, 810.	2.9	9
32	Emerin self-assembly and nucleoskeletal coupling regulate nuclear envelope mechanics against stress. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	9
33	Cell-Shaping Micropatterns for Quantitative Super-Resolution Microscopy Imaging of Membrane Mechanosensing Proteins. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27575-27586.	8.0	8
34	Peptide-coated semiconductor nanocrystals for biomedical applications. , 2005, 5704, .		5
35	Gold nanorod/nanosphere clustering by split-GFP fragment assembly for tunable near-infrared SERS detections. <i>Optical Materials Express</i> , 2017, 7, 3270.	3.0	5
36	<title>Ultra-high-resolution multicolor colocalization of single fluorescent nanocrystals</title>. , 2001, 4258, .		4

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37	Zooming Into Live Cells. <i>Science</i> , 2008, 320, 187-188.	12.6	3
38	Host cell RecA activates a mobile element-encoded mutagenic DNA polymerase. <i>Nucleic Acids Research</i> , 0, , .	14.5	3
39	Single Quantum Dot Trajectory Analysis: Beyond the Single Diffusion Mode Model. <i>Biophysical Journal</i> , 2010, 98, 203a-204a.	0.5	2
40	In Vivo Single-Molecule Tracking of Voltage-Gated Calcium Channels with Split-Fluorescent Proteins in CRISPR-Engineered <i>C. elegans</i> . <i>Neuromethods</i> , 2020, , 11-37.	0.3	2
41	Near-infrared peptide-coated quantum dots for small animal imaging. , 2006, 6096, 29.		1
42	Mechanics of cup-shaped caveolae. <i>Physical Review E</i> , 2021, 104, L022401.	2.1	1
43	Enhancing the photoluminescence of peptide-coated nanocrystals. , 2005, , .		0
44	Split-FP Conjugated Metal Nanoparticle Raman Nanoprobes for Ultra-Sensitive Molecular Detection. <i>Biophysical Journal</i> , 2014, 106, 633a.	0.5	0