Arnaud Gautier

List of Publications by Year
in descending order

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55 papers	3,122 citations	279798 23 h-index	189892 50 g-index
66 all docs	66 docs citations	66 times ranked	3590 citing authors

#	Article	IF	Citations
1	An Engineered Protein Tag for Multiprotein Labeling in Living Cells. Chemistry and Biology, 2008, 15, 128-136.	6.0	940
2	Genetically Encoded Photocontrol of Protein Localization in Mammalian Cells. Journal of the American Chemical Society, 2010, 132, 4086-4088.	13.7	232
3	How to control proteins with light in living systems. Nature Chemical Biology, 2014, 10, 533-541.	8.0	216
4	Small fluorescence-activating and absorption-shifting tag for tunable protein imaging in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 497-502.	7.1	186
5	Chemical probes shed light on protein function. Current Opinion in Structural Biology, 2007, 17, 488-494.	5.7	171
6	Light-Activated Kinases Enable Temporal Dissection of Signaling Networks in Living Cells. Journal of the American Chemical Society, 2011, 133, 2124-2127.	13.7	143
7	Nitric Oxideâ€"Triggered Remodeling of Chloroplast Bioenergetics and Thylakoid Proteins upon Nitrogen Starvation inChlamydomonas reinhardtiiÂ. Plant Cell, 2014, 26, 353-372.	6.6	110
8	A split fluorescent reporter with rapid and reversible complementation. Nature Communications, 2019, 10, 2822.	12.8	79
9	Dynamic multicolor protein labeling in living cells. Chemical Science, 2017, 8, 5598-5605.	7.4	76
10	Selective Cross-Linking of Interacting Proteins Using Self-Labeling Tags. Journal of the American Chemical Society, 2009, 131, 17954-17962.	13.7	65
11	Fluorogenic Labeling Strategies for Biological Imaging. International Journal of Molecular Sciences, 2017, 18, 1473.	4.1	65
12	Photochemical properties of Spinach and its use in selective imaging. Chemical Science, 2013, 4, 2865.	7.4	44
13	Orthogonal fluorescent chemogenetic reporters for multicolor imaging. Nature Chemical Biology, 2021, 17, 30-38.	8.0	43
14	Resonant out-of-phase fluorescence microscopy and remote imaging overcome spectral limitations. Nature Communications, 2017, 8, 969.	12.8	41
15	Fluorogen-based reporters for fluorescence imaging: a review. Methods and Applications in Fluorescence, 2015, 3, 042007.	2.3	40
16	â€œSelfâ€Immolativeâ€•Spacer for Uncaging with Fluorescence Reporting. Angewandte Chemie - International Edition, 2012, 51, 9344-9347.	13.8	39
17	Photoswitching Kinetics and Phaseâ€Sensitive Detection Add Discriminative Dimensions for Selective Fluorescence Imaging. Angewandte Chemie - International Edition, 2015, 54, 2633-2637.	13.8	36
18	Photoswitching Kinetics and Phaseâ€Sensitive Detection Add Discriminative Dimensions for Selective Fluorescence Imaging. Angewandte Chemie, 2015, 127, 2671-2675.	2.0	35

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19	Next-Generation Fluorogen-Based Reporters and Biosensors for Advanced Bioimaging. International Journal of Molecular Sciences, 2019, 20, 6142.	4.1	35
20	Engineering of a fluorescent chemogenetic reporter with tunable color for advanced live-cell imaging. Nature Communications, 2021, 12, 6989.	12.8	35
21	Light-Activated Proteolysis for the Spatiotemporal Control of Proteins. ACS Chemical Biology, 2015, 10, 1643-1647.	3.4	34
22	Improved Chemical-Genetic Fluorescent Markers for Live Cell Microscopy. Biochemistry, 2018, 57, 5648-5653.	2.5	34
23	The inducible chemical-genetic fluorescent marker FAST outperforms classical fluorescent proteins in the quantitative reporting of bacterial biofilm dynamics. Scientific Reports, 2018, 8, 10336.	3.3	32
24	Site-Specific Protein Labeling. Methods in Molecular Biology, 2015, 1266, v-viii.	0.9	29
25	A Farâ€Red Emitting Fluorescent Chemogenetic Reporter for Inâ€…Vivo Molecular Imaging. Angewandte Chemie - International Edition, 2020, 59, 17917-17923.	13.8	29
26	Circularly Permuted Fluorogenic Proteins for the Design of Modular Biosensors. ACS Chemical Biology, 2018, 13, 2392-2397.	3.4	27
27	Design and characterization of red fluorogenic pushâ€“pull chromophores holding great potential for bioimaging and biosensing. Organic and Biomolecular Chemistry, 2016, 14, 9253-9261.	2.8	26
28	Single-Molecule Localization Microscopy with the Fluorescence-Activating and Absorption-Shifting Tag (FAST) System. ACS Chemical Biology, 2019, 14, 1115-1120.	3.4	26
29	Fluorogenic Probing of Membrane Protein Trafficking. Bioconjugate Chemistry, 2018, 29, 1823-1828.	3.6	24
30	Live cell super resolution imaging by radial fluctuations using fluorogen binding tags. Nanoscale, 2019, 11, 3626-3632.	5.6	20
31	Sensing cellular biochemistry with fluorescent chemicalâ€“genetic hybrids. Current Opinion in Chemical Biology, 2020, 57, 58-64.	6.1	19
32	Fluorescent secreted bacterial effectors reveal active intravacuolar proliferation of Listeria monocytogenes in epithelial cells. PLoS Pathogens, 2020, 16, e1009001.	4.7	18
33	Chromophore Renewal and Fluorogen-Binding Tags: A Match Made to Last. Scientific Reports, 2017, 7, 12316.	3.3	16
34	Visualizing the dynamics of exported bacterial proteins with the chemogenetic fluorescent reporter FAST. Scientific Reports, 2020, 10, 15791.	3.3	15
35	Macroscale fluorescence imaging against autofluorescence under ambient light. Light: Science and Applications, 2018, 7, 97.	16.6	14
36	A Farâ€Red Emitting Fluorescent Chemogenetic Reporter for Inâ€…Vivo Molecular Imaging. Angewandte Chemie, 2020, 132, 18073-18079.	2.0	14

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37	Illuminating Cellular Biochemistry: Fluorogenic Chemogenetic Biosensors for Biological Imaging. ChemPlusChem, 2020, 85, 1487-1497.	2.8	13
38	Kinetics of Reactive Modules Adds Discriminative Dimensions for Selective Cell Imaging. ChemPhysChem, 2016, 17, 1396-1413.	2.1	12
39	Fluorogenic Proteinâ€Based Strategies for Detection, Actuation, and Sensing. BioEssays, 2018, 40, e1800118.	2.5	12
40	Modification-Free Photocontrol of Î²-Lactam Conversion with Spatiotemporal Resolution. ACS Synthetic Biology, 2012, 1, 526-531.	3.8	11
41	Expanding discriminative dimensions for analysis and imaging. Chemical Science, 2015, 6, 2968-2978.	7.4	10
42	Simple imaging protocol for autofluorescence elimination and optical sectioning in fluorescence endomicroscopy. Optica, 2019, 6, 972.	9.3	9
43	An expanded palette of fluorogenic HaloTag probes with enhanced contrast for targeted cellular imaging. Organic and Biomolecular Chemistry, 2022, 20, 3619-3628.	2.8	6
44	Engineering Glowing Chemogenetic Hybrids for Spying on Cells. European Journal of Organic Chemistry, 2020, 2020, 5637-5646.	2.4	5
45	Versatile On-Demand Fluorescent Labeling of Fusion Proteins Using Fluorescence-Activating and Absorption-Shifting Tag (FAST). Methods in Molecular Biology, 2021, 2350, 253-265.	0.9	5
46	Reciprocal Regulation of Shh Trafficking and H2O2 Levels via a Noncanonical BOC-Rac1 Pathway. Antioxidants, 2022, 11, 718.	5.1	4
47	AGT/SNAP-Tag: A Versatile Tag for Covalent Protein Labeling. , 0, , 89-107.		2
48	PSL Chemical Biology Symposia First 2016 Edition: When Chemistry and Biology Share the Language of Discovery. ChemBioChem, 2017, 18, 883-887.	2.6	1
49	2nd PSL Chemical Biology Symposium (2019): At the Crossroads of Chemistry and Biology. ChemBioChem, 2019, 20, 968-973.	2.6	0
50	CHAPTER 3. The Glowing Panoply of Fluorogen-based Markers for Advanced Bioimaging. Comprehensive Series in Photochemical and Photobiological Sciences, 2018, , 41-62.	0.3	0
51	Title is missing!. , 2020, 16, e1009001.		0
52	Title is missing!. , 2020, 16, e1009001.		0
53	Title is missing!. , 2020, 16, e1009001.		0
54	Title is missing!. , 2020, 16, e1009001.		0

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55	Isolating and Engineering Fluorescence-Activating Proteins Using Yeast Surface Display. Methods in Molecular Biology, 2022, 2491, 593-626.	0.9	0