

# Arnaud Gautier

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7668630/publications.pdf>

Version: 2024-02-01

55  
papers

3,122  
citations

279701

23  
h-index

189801

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. <i>Chemistry and Biology</i> , 2008, 15, 128-136.                                                                                      | 6.2 | 940       |
| 2  | Genetically Encoded Photocontrol of Protein Localization in Mammalian Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 4086-4088.                                                        | 6.6 | 232       |
| 3  | How to control proteins with light in living systems. <i>Nature Chemical Biology</i> , 2014, 10, 533-541.                                                                                                   | 3.9 | 216       |
| 4  | Small fluorescence-activating and absorption-shifting tag for tunable protein imaging in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 497-502. | 3.3 | 186       |
| 5  | Chemical probes shed light on protein function. <i>Current Opinion in Structural Biology</i> , 2007, 17, 488-494.                                                                                           | 2.6 | 171       |
| 6  | Light-Activated Kinases Enable Temporal Dissection of Signaling Networks in Living Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 2124-2127.                                           | 6.6 | 143       |
| 7  | Nitric Oxide-Triggered Remodeling of Chloroplast Bioenergetics and Thylakoid Proteins upon Nitrogen Starvation in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2014, 26, 353-372.                 | 3.1 | 110       |
| 8  | A split fluorescent reporter with rapid and reversible complementation. <i>Nature Communications</i> , 2019, 10, 2822.                                                                                      | 5.8 | 79        |
| 9  | Dynamic multicolor protein labeling in living cells. <i>Chemical Science</i> , 2017, 8, 5598-5605.                                                                                                          | 3.7 | 76        |
| 10 | Selective Cross-Linking of Interacting Proteins Using Self-Labeling Tags. <i>Journal of the American Chemical Society</i> , 2009, 131, 17954-17962.                                                         | 6.6 | 65        |
| 11 | Fluorogenic Labeling Strategies for Biological Imaging. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1473.                                                                                | 1.8 | 65        |
| 12 | Photochemical properties of Spinach and its use in selective imaging. <i>Chemical Science</i> , 2013, 4, 2865.                                                                                              | 3.7 | 44        |
| 13 | Orthogonal fluorescent chemogenetic reporters for multicolor imaging. <i>Nature Chemical Biology</i> , 2021, 17, 30-38.                                                                                     | 3.9 | 43        |
| 14 | Resonant out-of-phase fluorescence microscopy and remote imaging overcome spectral limitations. <i>Nature Communications</i> , 2017, 8, 969.                                                                | 5.8 | 41        |
| 15 | Fluorogen-based reporters for fluorescence imaging: a review. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 042007.                                                                            | 1.1 | 40        |
| 16 | Self-Immolative Spacer for Uncaging with Fluorescence Reporting. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9344-9347.                                                                    | 7.2 | 39        |
| 17 | Photoswitching Kinetics and Phase-Sensitive Detection Add Discriminative Dimensions for Selective Fluorescence Imaging. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2633-2637.             | 7.2 | 36        |
| 18 | Photoswitching Kinetics and Phase-Sensitive Detection Add Discriminative Dimensions for Selective Fluorescence Imaging. <i>Angewandte Chemie</i> , 2015, 127, 2671-2675.                                    | 1.6 | 35        |

| #  | ARTICLE                                                                                                                                                                                                    | IF  | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Next-Generation Fluorogen-Based Reporters and Biosensors for Advanced Bioimaging. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6142.                                                     | 1.8 | 35        |
| 20 | Engineering of a fluorescent chemogenetic reporter with tunable color for advanced live-cell imaging. <i>Nature Communications</i> , 2021, 12, 6989.                                                       | 5.8 | 35        |
| 21 | Light-Activated Proteolysis for the Spatiotemporal Control of Proteins. <i>ACS Chemical Biology</i> , 2015, 10, 1643-1647.                                                                                 | 1.6 | 34        |
| 22 | Improved Chemical-Genetic Fluorescent Markers for Live Cell Microscopy. <i>Biochemistry</i> , 2018, 57, 5648-5653.                                                                                         | 1.2 | 34        |
| 23 | The inducible chemical-genetic fluorescent marker FAST outperforms classical fluorescent proteins in the quantitative reporting of bacterial biofilm dynamics. <i>Scientific Reports</i> , 2018, 8, 10336. | 1.6 | 32        |
| 24 | Site-Specific Protein Labeling. <i>Methods in Molecular Biology</i> , 2015, 1266, v-viii.                                                                                                                  | 0.4 | 29        |
| 25 | A Far-Red Emitting Fluorescent Chemogenetic Reporter for In Vivo Molecular Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17917-17923.                                              | 7.2 | 29        |
| 26 | Circularly Permuted Fluorogenic Proteins for the Design of Modular Biosensors. <i>ACS Chemical Biology</i> , 2018, 13, 2392-2397.                                                                          | 1.6 | 27        |
| 27 | Design and characterization of red fluorogenic push-pull chromophores holding great potential for bioimaging and biosensing. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 9253-9261.              | 1.5 | 26        |
| 28 | Single-Molecule Localization Microscopy with the Fluorescence-Activating and Absorption-Shifting Tag (FAST) System. <i>ACS Chemical Biology</i> , 2019, 14, 1115-1120.                                     | 1.6 | 26        |
| 29 | Fluorogenic Probing of Membrane Protein Trafficking. <i>Bioconjugate Chemistry</i> , 2018, 29, 1823-1828.                                                                                                  | 1.8 | 24        |
| 30 | Live cell super resolution imaging by radial fluctuations using fluorogen binding tags. <i>Nanoscale</i> , 2019, 11, 3626-3632.                                                                            | 2.8 | 20        |
| 31 | Sensing cellular biochemistry with fluorescent chemical-genetic hybrids. <i>Current Opinion in Chemical Biology</i> , 2020, 57, 58-64.                                                                     | 2.8 | 19        |
| 32 | Fluorescent secreted bacterial effectors reveal active intravacuolar proliferation of <i>Listeria monocytogenes</i> in epithelial cells. <i>PLoS Pathogens</i> , 2020, 16, e1009001.                       | 2.1 | 18        |
| 33 | Chromophore Renewal and Fluorogen-Binding Tags: A Match Made to Last. <i>Scientific Reports</i> , 2017, 7, 12316.                                                                                          | 1.6 | 16        |
| 34 | Visualizing the dynamics of exported bacterial proteins with the chemogenetic fluorescent reporter FAST. <i>Scientific Reports</i> , 2020, 10, 15791.                                                      | 1.6 | 15        |
| 35 | Macroscale fluorescence imaging against autofluorescence under ambient light. <i>Light: Science and Applications</i> , 2018, 7, 97.                                                                        | 7.7 | 14        |
| 36 | A Far-Red Emitting Fluorescent Chemogenetic Reporter for In Vivo Molecular Imaging. <i>Angewandte Chemie</i> , 2020, 132, 18073-18079.                                                                     | 1.6 | 14        |

| #  | ARTICLE                                                                                                                                                                          | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Illuminating Cellular Biochemistry: Fluorogenic Chemogenetic Biosensors for Biological Imaging. ChemPlusChem, 2020, 85, 1487-1497.                                               | 1.3 | 13        |
| 38 | Kinetics of Reactive Modules Adds Discriminative Dimensions for Selective Cell Imaging. ChemPhysChem, 2016, 17, 1396-1413.                                                       | 1.0 | 12        |
| 39 | Fluorogenic Protein-Based Strategies for Detection, Actuation, and Sensing. BioEssays, 2018, 40, e1800118.                                                                       | 1.2 | 12        |
| 40 | Modification-Free Photocontrol of $\beta$ -Lactam Conversion with Spatiotemporal Resolution. ACS Synthetic Biology, 2012, 1, 526-531.                                            | 1.9 | 11        |
| 41 | Expanding discriminative dimensions for analysis and imaging. Chemical Science, 2015, 6, 2968-2978.                                                                              | 3.7 | 10        |
| 42 | Simple imaging protocol for autofluorescence elimination and optical sectioning in fluorescence endomicroscopy. Optica, 2019, 6, 972.                                            | 4.8 | 9         |
| 43 | An expanded palette of fluorogenic HaloTag probes with enhanced contrast for targeted cellular imaging. Organic and Biomolecular Chemistry, 2022, 20, 3619-3628.                 | 1.5 | 6         |
| 44 | Engineering Glowing Chemogenetic Hybrids for Spying on Cells. European Journal of Organic Chemistry, 2020, 2020, 5637-5646.                                                      | 1.2 | 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. | 0.4 | 5         |
| 46 | Reciprocal Regulation of Shh Trafficking and H <sub>2</sub> O <sub>2</sub> Levels via a Noncanonical BOC-Rac1 Pathway. Antioxidants, 2022, 11, 718.                              | 2.2 | 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.                                    | 1.3 | 1         |
| 49 | 2nd PSL Chemical Biology Symposium (2019): At the Crossroads of Chemistry and Biology. ChemBioChem, 2019, 20, 968-973.                                                           | 1.3 | 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         |

| #  | ARTICLE                                                                                                                                            | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Isolating and Engineering Fluorescence-Activating Proteins Using Yeast Surface Display. <i>Methods in Molecular Biology</i> , 2022, 2491, 593-626. | 0.4 | 0         |