

Mayeul Collot

List of Publications by Year in descending order

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76
papers

3,129
citations

186265

28
h-index

168389

53
g-index

81
all docs

81
docs citations

81
times ranked

4511
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrabright and Fluorogenic Probes for Multicolor Imaging and Tracking of Lipid Droplets in Cells and Tissues. <i>Journal of the American Chemical Society</i> , 2018, 140, 5401-5411.	13.7	294
2	Calcium dynamics in astrocyte processes during neurovascular coupling. <i>Nature Neuroscience</i> , 2015, 18, 210-218.	14.8	235
3	Recent Advances in Fluorescent Probes for Lipid Droplets. <i>Materials</i> , 2018, 11, 1768.	2.9	190
4	Studying the Fate of Tumor Extracellular Vesicles at High Spatiotemporal Resolution Using the Zebrafish Embryo. <i>Developmental Cell</i> , 2019, 48, 554-572.e7.	7.0	160
5	Automated Solid-Phase Synthesis of Chondroitin Sulfate Glycosaminoglycans. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5858-5861.	13.8	150
6	MemBright: A Family of Fluorescent Membrane Probes for Advanced Cellular Imaging and Neuroscience. <i>Cell Chemical Biology</i> , 2019, 26, 600-614.e7.	5.2	128
7	Probing Polarity and Heterogeneity of Lipid Droplets in Live Cells Using a Push-Pull Fluorophore. <i>Analytical Chemistry</i> , 2019, 91, 1928-1935.	6.5	100
8	A dimerization-based fluorogenic dye-aptamer module for RNA imaging in live cells. <i>Nature Chemical Biology</i> , 2020, 16, 69-76.	8.0	89
9	Fluorogenic Squaraine Dimers with Polarity-Sensitive Folding As Bright Far-Red Probes for Background-Free Bioimaging. <i>Journal of the American Chemical Society</i> , 2015, 137, 405-412.	13.7	87
10	Hexameric Supramolecular Scaffold Orients Carbohydrates To Sense Bacteria. <i>Journal of the American Chemical Society</i> , 2011, 133, 13957-13966.	13.7	80
11	Fluorinated counterion-enhanced emission of rhodamine aggregates: ultrabright nanoparticles for bioimaging and light-harvesting. <i>Nanoscale</i> , 2015, 7, 18198-18210.	5.6	74
12	Design, synthesis and biological evaluation of carbohydrate-functionalized cyclodextrins and liposomes for hepatocyte-specific targeting. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 4987.	2.8	73
13	New red-fluorescent calcium indicators for optogenetics, photoactivation and multi-color imaging. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2284-2306.	4.1	73
14	Bright fluorogenic squaraines with tuned cell entry for selective imaging of plasma membrane vs. endoplasmic reticulum. <i>Chemical Communications</i> , 2015, 51, 17136-17139.	4.1	72
15	Calcium Rubies: A Family of Red-Emitting Functionalizable Indicators Suitable for Two-Photon Ca^{2+} Imaging. <i>Journal of the American Chemical Society</i> , 2012, 134, 14923-14931.	13.7	70
16	Plasticity of the β -2-Trefoil Protein Fold in the Recognition and Control of Invertebrate Predators and Parasites by a Fungal Defence System. <i>PLoS Pathogens</i> , 2012, 8, e1002706.	4.7	65
17	Dye-Loaded Nanoemulsions: Biomimetic Fluorescent Nanocarriers for Bioimaging and Nanomedicine. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001289.	7.6	54
18	New thioglycoside derivatives for use in odourless synthesis of MUXF3 N-glycan fragments related to food allergens. <i>Tetrahedron</i> , 2008, 64, 1523-1535.	1.9	48

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19	BODIPY with Tuned Amphiphilicity as a Fluorogenic Plasma Membrane Probe. <i>Bioconjugate Chemistry</i> , 2019, 30, 192-199.	3.6	48
20	Ultrabright Fluorescent Polymeric Nanoparticles with a Stealth Pluronic Shell for Live Tracking in the Mouse Brain. <i>ACS Nano</i> , 2020, 14, 9755-9770.	14.6	48
21	A fluorogenic BODIPY molecular rotor as an apoptosis marker. <i>Chemical Communications</i> , 2019, 55, 6902-6905.	4.1	46
22	H-Rubies, a new family of red emitting fluorescent pH sensors for living cells. <i>Chemical Science</i> , 2015, 6, 5928-5937.	7.4	45
23	BODIPY-loaded polymer nanoparticles: chemical structure of cargo defines leakage from nanocarrier in living cells. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5199-5210.	5.8	43
24	Turn-on Fluorene Push-Pull Probes with High Brightness and Photostability for Visualizing Lipid Order in Biomembranes. <i>ACS Chemical Biology</i> , 2017, 12, 3022-3030.	3.4	38
25	Cell-Penetrating Nanobiosensors for Pointillistic Intracellular Ca ²⁺ -Transient Detection. <i>Nano Letters</i> , 2014, 14, 2994-3001.	9.1	36
26	Probing biotin receptors in cancer cells with rationally designed fluorogenic squaraine dimers. <i>Chemical Science</i> , 2020, 11, 8240-8248.	7.4	34
27	Quantitative assessment of energy transfer in upconverting nanoparticles grafted with organic dyes. <i>Nanoscale</i> , 2017, 9, 11994-12004.	5.6	32
28	A Secondary Structural Element in a Wide Range of Fucosylated Glycoepitopes. <i>Chemistry - A European Journal</i> , 2017, 23, 11598-11610.	3.3	32
29	Molecular Tuning of Styryl Dyes Leads to Versatile and Efficient Plasma Membrane Probes for Cell and Tissue Imaging. <i>Bioconjugate Chemistry</i> , 2020, 31, 875-883.	3.6	32
30	Stealth and Bright Monomolecular Fluorescent Organic Nanoparticles Based on Folded Amphiphilic Polymer. <i>ACS Nano</i> , 2020, 14, 13924-13937.	14.6	29
31	Recent advances in dioxaborine-based fluorescent materials for bioimaging applications. <i>Materials Horizons</i> , 2021, 8, 501-514.	12.2	29
32	Particle-Based Optical Sensing of Intracellular Ions at the Example of Calcium - What Are the Experimental Pitfalls?. <i>Small</i> , 2015, 11, 896-904.	10.0	27
33	CaRuby-Nano: a novel high affinity calcium probe for dual color imaging. <i>ELife</i> , 2015, 4, .	6.0	27
34	Continuous Photochemical Cleavage of Linkers for Solid-Phase Synthesis. <i>Organic Letters</i> , 2014, 16, 1794-1797.	4.6	26
35	Functionalizing Nanoemulsions with Carboxylates: Impact on the Biodistribution and Pharmacokinetics in Mice. <i>Macromolecular Bioscience</i> , 2017, 17, 1600471.	4.1	26
36	Biotin Sulfone as a New Tool for Synthetic Oligosaccharide Immobilization: Application to Multiple Analysis Profiling and Surface Plasmonic Analysis of Anti-Candida albicans Antibody Reactivity against Î± and Î² (1â†’2) Oligomannosides. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 6201-6210.	6.4	25

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37	Detection of Antisynthetic Mannoside Antibodies (A β MA) Reveals Heterogeneity in the ASCA Response of Crohn's Disease Patients and Contributes to Differential Diagnosis, Stratification, and Prediction. <i>American Journal of Gastroenterology</i> , 2008, 103, 949-957.	0.4	25
38	Synthetic biotinylated tetra- β -D-galactofuranoside for in vitro aspergillosis diagnosis. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 547-555.	3.0	25
39	Ca-NIR: a ratiometric near-infrared calcium probe based on a dihydroxanthene-hemicyanine fluorophore. <i>Chemical Communications</i> , 2017, 53, 6117-6120.	4.1	23
40	Advanced functional fluorescent probes for cell plasma membranes. <i>Current Opinion in Chemical Biology</i> , 2022, 69, 102161.	6.1	21
41	Lipid-core/polymer-shell hybrid nanoparticles: synthesis and characterization by fluorescence labeling and electrophoresis. <i>Soft Matter</i> , 2020, 16, 4173-4181.	2.7	19
42	Fluorescent labeling of biocompatible block copolymers: synthetic strategies and applications in bioimaging. <i>Materials Advances</i> , 2021, 2, 3213-3233.	5.4	19
43	Optimizing the Fluorescence Properties of Nanoemulsions for Single Particle Tracking in Live Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13079-13090.	8.0	18
44	Glycosylation efficiencies on different solid supports using a hydrogenolysis-labile linker. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 97-105.	2.2	17
45	Dimerization of the fungal defense lectin CCL2 is essential for its toxicity against nematodes. <i>Glycobiology</i> , 2016, 27, 486-500.	2.5	17
46	Molecular and Functional Diversity of Distinct Subpopulations of the Stressed Insulin-Secreting Cell's Vesiculome. <i>Frontiers in Immunology</i> , 2020, 11, 1814.	4.8	17
47	A new formulation of poly(MAOTIB) nanoparticles as an efficient contrast agent for in vivo X-ray imaging. <i>Acta Biomaterialia</i> , 2018, 66, 200-212.	8.3	16
48	Near infrared emitting molecular rotor based on merocyanine for probing the viscosity of cellular lipid environments. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2459-2469.	5.9	16
49	Synthesis of cross-reactive carbohydrate determinants fragments as tools for in vitro allergy diagnosis. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1306-1320.	3.0	15
50	A near-infrared fluorogenic dimer enables background-free imaging of endogenous GPCRs in living mice. <i>Chemical Science</i> , 2020, 11, 6824-6829.	7.4	15
51	Live-cell imaging of the nucleolus and mapping mitochondrial viscosity with a dual function fluorescent probe. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 3389-3395.	2.8	15
52	FRET-Based Nanobiosensors for Imaging Intracellular Ca ²⁺ and H ⁺ Microdomains. <i>Sensors</i> , 2015, 15, 24662-24680.	3.8	13
53	Imaging and Measuring Vesicular Acidification with a Plasma Membrane-Targeted Ratiometric pH Probe. <i>Analytical Chemistry</i> , 2022, 94, 5996-6003.	6.5	13
54	Dye-doped silica nanoparticle probes for fluorescence lifetime imaging of reductive environments in living cells. <i>RSC Advances</i> , 2016, 6, 104164-104172.	3.6	12

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55	Fluorescent nanocarriers targeting VCAM-1 for early detection of senescent endothelial cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 34, 102379.	3.3	12
56	Probing Variations of Reduction Activity at the Plasma Membrane Using a Targeted Ratiometric FRET Probe. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40315-40324.	8.0	12
57	Acylsulfonamide safety-catch linker: promise and limitations for solid-phase oligosaccharide synthesis. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 2067-2071.	2.2	10
58	Toward the Formulation of Stable Micro and Nano Double Emulsions through a Silica Coating on Internal Water Droplets. <i>Langmuir</i> , 2019, 35, 2313-2325.	3.5	10
59	Dissection of the anti-Candida albicans mannan immune response using synthetic oligomannosides reveals unique properties of Î²-1,2 mannotriose protective epitopes. <i>Scientific Reports</i> , 2021, 11, 10825.	3.3	10
60	(Î²-Arene)tricarbonylchromium and Ferrocene Complexes Linked to Binaphthyl Derivatives. <i>Organometallics</i> , 2007, 26, 6139-6149.	2.3	9
61	Further insights into release mechanisms from nano-emulsions, assessed by a simple fluorescence-based method. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 768-778.	9.4	8
62	Amphiphilic Behavior and Membrane Solubility of a Dicholesteryl-Cyclodextrin. <i>Langmuir</i> , 2011, 27, 7580-7586.	3.5	7
63	Near infrared fluorogenic probe as a prodrug model for evaluating cargo release by nanoemulsions. <i>Journal of Materials Chemistry B</i> , 2020, 8, 5938-5944.	5.8	7
64	Bis antennae amphiphilic cyclodextrins: the first examples. <i>Tetrahedron Letters</i> , 2007, 48, 8566-8569.	1.4	6
65	Functionalizable red emitting calcium sensor bearing a 1,4-triazole chelating moiety. <i>RSC Advances</i> , 2015, 5, 6993-7000.	3.6	6
66	PEGylated Red-Emitting Calcium Probe with Improved Sensing Properties for Neuroscience. <i>ACS Sensors</i> , 2017, 2, 1706-1712.	7.8	6
67	Rational Design of Self-Quenched Rhodamine Dimers as Fluorogenic Aptamer Probes for Live-Cell RNA Imaging. <i>Analytical Chemistry</i> , 2022, 94, 6657-6664.	6.5	6
68	Confronting molecular rotors and self-quenched dimers as fluorogenic BODIPY systems to probe biotin receptors in cancer cells. <i>Chemical Communications</i> , 2021, 57, 4807-4810.	4.1	5
69	Spontaneous nano-emulsification with tailor-made amphiphilic polymers and related monomers. <i>European Journal of Pharmaceutical Research</i> , 2019, 1, 27-36.	1.0	5
70	Ultrabright Green-Emitting Nanoemulsions Based on Natural Lipids-BODIPY Conjugates. <i>Nanomaterials</i> , 2021, 11, 826.	4.1	4
71	Unexpected remote effect in red fluorescent sensors based on extended APTRA. <i>Tetrahedron</i> , 2013, 69, 10482-10487.	1.9	3
72	Tunable functionalization of nano-emulsions using amphiphilic polymers. <i>Soft Matter</i> , 2021, 17, 1788-1795.	2.7	3

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73	Fluorescently Labeled Branched Copolymer Nanoparticles for <i>In Situ</i> Characterization of Nanovectors and Imaging of Cargo Release. ACS Applied Nano Materials, 2022, 5, 4241-4251.	5.0	2
74	Fluorogenic Squaraine Dendrimers for Background-Free Imaging of Integrin Receptors in Cancer Cells. Chemistry - A European Journal, 2021, 27, 6795-6803.	3.3	0
75	MemBright: A Family of Fluorescent Membrane Probes for Advanced Cellular Imaging and Neuroscience. SSRN Electronic Journal, 0, , .	0.4	0
76	Study of the spontaneous nano-emulsification process with different octadecyl succinic anhydride derivatives. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 645, 128858.	4.7	0