Mayeul Collot

List of Publications by Year
in descending order

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76 papers	3,129 citations	212478 28 h-index	190340 53 g-index
81 all docs	81 docs citations	81 times ranked	4993 citing authors

#	Article	IF	Citations
1	Fluorescently Labeled Branched Copolymer Nanoparticles for In Situ Characterization of Nanovectors and Imaging of Cargo Release. ACS Applied Nano Materials, 2022, 5, 4241-4251.	2.4	2
2	Imaging and Measuring Vesicular Acidification with a Plasma Membrane-Targeted Ratiometric pH Probe. Analytical Chemistry, 2022, 94, 5996-6003.	3.2	13
3	Study of the spontaneous nano-emulsification process with different octadecyl succinic anhydride derivatives. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 645, 128858.	2.3	0
4	Rational Design of Self-Quenched Rhodamine Dimers as Fluorogenic Aptamer Probes for Live-Cell RNA Imaging. Analytical Chemistry, 2022, 94, 6657-6664.	3.2	6
5	Advanced functional fluorescent probes for cell plasma membranes. Current Opinion in Chemical Biology, 2022, 69, 102161.	2.8	21
6	Dyeâ€Loaded Nanoemulsions: Biomimetic Fluorescent Nanocarriers for Bioimaging and Nanomedicine. Advanced Healthcare Materials, 2021, 10, e2001289.	3.9	54
7	Recent advances in dioxaborine-based fluorescent materials for bioimaging applications. Materials Horizons, 2021, 8, 501-514.	6.4	29
8	Tunable functionalization of nano-emulsions using amphiphilic polymers. Soft Matter, 2021, 17, 1788-1795.	1.2	3
9	Fluorescent labeling of biocompatible block copolymers: synthetic strategies and applications in bioimaging. Materials Advances, 2021, 2, 3213-3233.	2.6	19
10	Fluorogenic Squaraine Dendrimers for Backgroundâ€Free Imaging of Integrin Receptors in Cancer Cells. Chemistry - A European Journal, 2021, 27, 6795-6803.	1.7	0
11	Ultrabright Green-Emitting Nanoemulsions Based on Natural Lipids-BODIPY Conjugates. Nanomaterials, 2021, 11, 826.	1.9	4
12	Dissection of the anti-Candida albicans mannan immune response using synthetic oligomannosides reveals unique properties of Î²-1,2 mannotriose protective epitopes. Scientific Reports, 2021, 11, 10825.	1.6	10
13	Fluorescent nanocarriers targeting VCAM-1 for early detection of senescent endothelial cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 34, 102379.	1.7	12
14	Probing Variations of Reduction Activity at the Plasma Membrane Using a Targeted Ratiometric FRET Probe. ACS Applied Materials & Interfaces, 2021, 13, 40315-40324.	4.0	12
15	Live-cell imaging of the nucleolus and mapping mitochondrial viscosity with a dual function fluorescent probe. Organic and Biomolecular Chemistry, 2021, 19, 3389-3395.	1.5	15
16	Near infrared emitting molecular rotor based on merocyanine for probing the viscosity of cellular lipid environments. Materials Chemistry Frontiers, 2021, 5, 2459-2469.	3.2	16
17	Confronting molecular rotors and self-quenched dimers as fluorogenic BODIPY systems to probe biotin receptors in cancer cells. Chemical Communications, 2021, 57, 4807-4810.	2.2	5
18	A dimerization-based fluorogenic dye-aptamer module for RNA imaging in live cells. Nature Chemical Biology, 2020, 16, 69-76.	3.9	89

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19	Molecular and Functional Diversity of Distinct Subpopulations of the Stressed Insulin-Secreting Cell's Vesiculome. Frontiers in Immunology, 2020, 11, 1814.	2.2	17
20	Stealth and Bright Monomolecular Fluorescent Organic Nanoparticles Based on Folded Amphiphilic Polymer. ACS Nano, 2020, 14, 13924-13937.	7.3	29
21	Ultrabright Fluorescent Polymeric Nanoparticles with a Stealth Pluronic Shell for Live Tracking in the Mouse Brain. ACS Nano, 2020, 14, 9755-9770.	7.3	48
22	A near-infrared fluorogenic dimer enables background-free imaging of endogenous GPCRs in living mice. Chemical Science, 2020, 11, 6824-6829.	3.7	15
23	Near infrared fluorogenic probe as a prodrug model for evaluating cargo release by nanoemulsions. Journal of Materials Chemistry B, 2020, 8, 5938-5944.	2.9	7
24	Lipid-core/polymer-shell hybrid nanoparticles: synthesis and characterization by fluorescence labeling and electrophoresis. Soft Matter, 2020, 16, 4173-4181.	1.2	19
25	Probing biotin receptors in cancer cells with rationally designed fluorogenic squaraine dimers. Chemical Science, 2020, 11, 8240-8248.	3.7	34
26	Further insights into release mechanisms from nano-emulsions, assessed by a simple fluorescence-based method. Journal of Colloid and Interface Science, 2020, 578, 768-778.	5.0	8
27	Molecular Tuning of Styryl Dyes Leads to Versatile and Efficient Plasma Membrane Probes for Cell and Tissue Imaging. Bioconjugate Chemistry, 2020, 31, 875-883.	1.8	32
28	BODIPY-loaded polymer nanoparticles: chemical structure of cargo defines leakage from nanocarrier in living cells. Journal of Materials Chemistry B, 2019, 7, 5199-5210.	2.9	43
29	A fluorogenic BODIPY molecular rotor as an apoptosis marker. Chemical Communications, 2019, 55, 6902-6905.	2.2	46
30	Optimizing the Fluorescence Properties of Nanoemulsions for Single Particle Tracking in Live Cells. ACS Applied Materials & Interfaces, 2019, 11, 13079-13090.	4.0	18
31	Studying the Fate of Tumor Extracellular Vesicles at High Spatiotemporal Resolution Using the Zebrafish Embryo. Developmental Cell, 2019, 48, 554-572.e7.	3.1	160
32	MemBright: A Family of Fluorescent Membrane Probes for Advanced Cellular Imaging and Neuroscience. Cell Chemical Biology, 2019, 26, 600-614.e7.	2.5	128
33	Probing Polarity and Heterogeneity of Lipid Droplets in Live Cells Using a Pushâ€“Pull Fluorophore. Analytical Chemistry, 2019, 91, 1928-1935.	3.2	100
34	BODIPY with Tuned Amphiphilicity as a Fluorogenic Plasma Membrane Probe. Bioconjugate Chemistry, 2019, 30, 192-199.	1.8	48
35	Toward the Formulation of Stable Micro and Nano Double Emulsions through a Silica Coating on Internal Water Droplets. Langmuir, 2019, 35, 2313-2325.	1.6	10
36	Spontaneous nano-emulsification with tailor-made amphiphilic polymers and related monomers. European Journal of Pharmaceutical Research, 2019, 1, 27-36.	1.0	5

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37	Ultrabright and Fluorogenic Probes for Multicolor Imaging and Tracking of Lipid Droplets in Cells and Tissues. Journal of the American Chemical Society, 2018, 140, 5401-5411.	6.6	294
38	A new formulation of poly(MAOTIB) nanoparticles as an efficient contrast agent for in vivo X-ray imaging. Acta Biomaterialia, 2018, 66, 200-212.	4.1	16
39	Recent Advances in Fluorescent Probes for Lipid Droplets. Materials, 2018, 11, 1768.	1.3	190
40	Ca-NIR: a ratiometric near-infrared calcium probe based on a dihydroxanthene-hemicyanine fluorophore. Chemical Communications, 2017, 53, 6117-6120.	2.2	23
41	Functionalizing Nanoemulsions with Carboxylates: Impact on the Biodistribution and Pharmacokinetics in Mice. Macromolecular Bioscience, 2017, 17, 1600471.	2.1	26
42	PEGylated Red-Emitting Calcium Probe with Improved Sensing Properties for Neuroscience. ACS Sensors, 2017, 2, 1706-1712.	4.0	6
43	Turn-on Fluorene Pushâ€“Pull Probes with High Brightness and Photostability for Visualizing Lipid Order in Biomembranes. ACS Chemical Biology, 2017, 12, 3022-3030.	1.6	38
44	Quantitative assessment of energy transfer in upconverting nanoparticles grafted with organic dyes. Nanoscale, 2017, 9, 11994-12004.	2.8	32
45	A Secondary Structural Element in a Wide Range of Fucosylated Glycoepitopes. Chemistry - A European Journal, 2017, 23, 11598-11610.	1.7	32
46	Dimerization of the fungal defense lectin CCL2 is essential for its toxicity against nematodes. Glycobiology, 2016, 27, 486-500.	1.3	17
47	Dye-doped silica nanoparticle probes for fluorescence lifetime imaging of reductive environments in living cells. RSC Advances, 2016, 6, 104164-104172.	1.7	12
48	FRET-Based Nanobiosensors for Imaging Intracellular Ca2+ and H+ Microdomains. Sensors, 2015, 15, 24662-24680.	2.1	13
49	Calcium dynamics in astrocyte processes during neurovascular coupling. Nature Neuroscience, 2015, 18, 210-218.	7.1	235
50	H-Rubies, a new family of red emitting fluorescent pH sensors for living cells. Chemical Science, 2015, 6, 5928-5937.	3.7	45
51	Fluorinated counterion-enhanced emission of rhodamine aggregates: ultrabright nanoparticles for bioimaging and light-harvesting. Nanoscale, 2015, 7, 18198-18210.	2.8	74
52	Bright fluorogenic squaraines with tuned cell entry for selective imaging of plasma membrane vs. endoplasmic reticulum. Chemical Communications, 2015, 51, 17136-17139.	2.2	72
53	Particle-Based Optical Sensing of Intracellular Ions at the Example of Calcium - What Are the Experimental Pitfalls?. Small, 2015, 11, 896-904.	5.2	27
54	Functionalizable red emitting calcium sensor bearing a 1,4-triazole chelating moiety. RSC Advances, 2015, 5, 6993-7000.	1.7	6

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55	Fluorogenic Squaraine Dimers with Polarity-Sensitive Folding As Bright Far-Red Probes for Background-Free Bioimaging. Journal of the American Chemical Society, 2015, 137, 405-412.	6.6	87
56	CaRuby-Nano: a novel high affinity calcium probe for dual color imaging. ELife, 2015, 4, .	2.8	27
57	New red-fluorescent calcium indicators for optogenetics, photoactivation and multi-color imaging. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2284-2306.	1.9	73
58	Cell-Penetrating Nanobiosensors for Pointillistic Intracellular Ca²⁺-Transient Detection. Nano Letters, 2014, 14, 2994-3001.	4.5	36
59	Continuous Photochemical Cleavage of Linkers for Solid-Phase Synthesis. Organic Letters, 2014, 16, 1794-1797.	2.4	26
60	Unexpected remote effect in red fluorescent sensors based on extended APTRA. Tetrahedron, 2013, 69, 10482-10487.	1.0	3
61	Automated Solidâ€Phase Synthesis of Chondroitin Sulfate Glycosaminoglycans. Angewandte Chemie - International Edition, 2013, 52, 5858-5861.	7.2	150
62	Glycosylation efficiencies on different solid supports using a hydrogenolysis-labile linker. Beilstein Journal of Organic Chemistry, 2013, 9, 97-105.	1.3	17
63	Plasticity of the Î²-Trefoil Protein Fold in the Recognition and Control of Invertebrate Predators and Parasites by a Fungal Defence System. PLoS Pathogens, 2012, 8, e1002706.	2.1	65
64	Calcium Rubies: A Family of Red-Emitting Functionalizable Indicators Suitable for Two-Photon Ca²⁺ Imaging. Journal of the American Chemical Society, 2012, 134, 14923-14931.	6.6	70
65	Acylsulfonamide safety-catch linker: promise and limitations for solidâ€“phase oligosaccharide synthesis. Beilstein Journal of Organic Chemistry, 2012, 8, 2067-2071.	1.3	10
66	Amphiphilic Behavior and Membrane Solubility of a Dicholesteryl-Cyclodextrin. Langmuir, 2011, 27, 7580-7586.	1.6	7
67	Hexameric Supramolecular Scaffold Orients Carbohydrates To Sense Bacteria. Journal of the American Chemical Society, 2011, 133, 13957-13966.	6.6	80
68	Synthetic biotinylated tetra Î²(1â†'5) galactofuranoside for in vitro aspergillosis diagnosis. Bioorganic and Medicinal Chemistry, 2011, 19, 547-555.	1.4	25
69	Synthesis of cross-reactive carbohydrate determinants fragments as tools for in vitro allergy diagnosis. Bioorganic and Medicinal Chemistry, 2011, 19, 1306-1320.	1.4	15
70	Design, synthesis and biological evaluation of carbohydrate-functionalized cyclodextrins and liposomes for hepatocyte-specific targeting. Organic and Biomolecular Chemistry, 2010, 8, 4987.	1.5	73
71	New thioglycoside derivatives for use in odourless synthesis of MUXF3 N-glycan fragments related to food allergens. Tetrahedron, 2008, 64, 1523-1535.	1.0	48
72	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. Journal of Medicinal Chemistry, 2008, 51, 6201-6210.	2.9	25

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73	Detection of Antisynthetic Mannoside Antibodies (AÎ£MA) Reveals Heterogeneity in the ASCA Response of Crohn's Disease Patients and Contributes to Differential Diagnosis, Stratification, and Prediction. American Journal of Gastroenterology, 2008, 103, 949-957.	0.2	25
74	(Î·⁶-Arene)tricarbonylchromium and Ferrocene Complexes Linked to Binaphthyl Derivatives. Organometallics, 2007, 26, 6139-6149.	1.1	9
75	Bis antennae amphiphilic cyclodextrins: the first examples. Tetrahedron Letters, 2007, 48, 8566-8569.	0.7	6
76	MemBright: A Family of Fluorescent Membrane Probes for Advanced Cellular Imaging and Neuroscience. SSRN Electronic Journal, 0, , .	0.4	0