GrÃ©gory Durand

List of Publications by Year
in descending order

76 papers	1,944 citations	279798 23 h-index	289244 40 g-index
79 all docs	79 docs citations	79 times ranked	2355 citing authors

#	Article	IF	Citations
1	Molecular Determinants for OMF Selectivity in Tripartite RND Multidrug Efflux Systems. Antibiotics, 2022, 11, 126.	3.7	6
2	Maltose-Based Fluorinated Surfactants for Membrane-Protein Extraction and Stabilization. Langmuir, 2021, 37, 2111-2122.	3.5	11
3	Glucose-Based Fluorinated Surfactants as Additives for the Crystallization of Membrane Proteins: Synthesis and Preliminary Physicalâ€“Chemical and Biochemical Characterization. ACS Omega, 2021, 6, 24397-24406.	3.5	2
4	Selfâ€Assembly of Proteinâ€Containing Lipidâ€Bilayer Nanodiscs from Smallâ€Molecule Amphiphiles. Small, 2021, 17, e2103603.	10.0	16
5	Hybrid Fluorocarbonâ€“Hydrocarbon Surfactants: Synthesis and Colloidal Characterization. Journal of Organic Chemistry, 2021, 86, 14672-14683.	3.2	1
6	Detergentâ€Like Polymerizable Monomers: Synthesis, Physicochemical, and Biochemical Characterization. European Journal of Organic Chemistry, 2020, 2020, 5340-5349.	2.4	0
7	Biotinylated non-ionic amphipols for GPCR ligands screening. Methods, 2020, 180, 69-78.	3.8	6
8	Lactobionamide-based fluorinated detergent for functional and structural stabilization of membrane proteins. Methods, 2020, 180, 19-26.	3.8	7
9	Substituted Î±-Phenyl and Î±-Naphthlyl-<i>N</i>-<i>tert</i>-butyl Nitrones: Synthesis, Spin-Trapping, and Neuroprotection Evaluation. Journal of Organic Chemistry, 2020, 85, 6073-6085.	3.2	16
10	<i>Para</i>-Substituted Î±-Phenyl-<i>N</i>-<i>tert</i>-butyl Nitrones: Spin-Trapping, Redox and Neuroprotective Properties. ACS Omega, 2020, 5, 30989-30999.	3.5	5
11	Hybrid Double-Chain Maltose-Based Detergents: Synthesis and Colloidal and Biochemical Evaluation. Journal of Organic Chemistry, 2019, 84, 10606-10614.	3.2	6
12	Nitrone-Trolox conjugate as an inhibitor of lipid oxidation: Towards synergistic antioxidant effects. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 1489-1501.	2.6	11
13	Reactivities of MeO-substituted PBN-type nitrones. New Journal of Chemistry, 2019, 43, 15754-15762.	2.8	6
14	Glycosylated Amphiphilic Calixareneâ€Based Detergent for Functional Stabilization of Native Membrane Proteins.. ChemistrySelect, 2019, 4, 5535-5539.	1.5	11
15	A Novel Nitrone-Trolox Conjugate Inhibits Membrane Lipid Oxidation Through Synergistic Antioxidant Effects. Biophysical Journal, 2019, 116, 227a.	0.5	1
16	Hydrogenated Diglucose Detergents for Membrane-Protein Extraction and Stabilization. Langmuir, 2019, 35, 4287-4295.	3.5	12
17	Fluorinated diglucose detergents for membrane-protein extraction. Methods, 2018, 147, 84-94.	3.8	18
18	Model-Free Analysis of Critical Micellar Concentrations for Detecting Demixing in Surfactant Mixtures. Analytical Chemistry, 2017, 89, 3245-3249.	6.5	10

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19	The substitution of Proline 168 favors Bax oligomerization and stimulates its interaction with LUVs and mitochondria. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1144-1155.	2.6	20
20	Î±-Phenyl-<i>N</i>-cyclohexyl Nitrones: Preparation and Use as Spin-Traps. Journal of Organic Chemistry, 2017, 82, 135-142.	3.2	2
21	Cholesterol-nitrone conjugates as protective agents against lipid oxidation: A model membrane study. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 2495-2504.	2.6	8
22	Protein aggregation with poly(vinyl) alcohol surfactant reduces double emulsion-encapsulated mammalian cell-free expression. PLoS ONE, 2017, 12, e0174689.	2.5	28
23	Nitrone Derivatives as Therapeutics: From Chemical Modification to Specific-targeting. Current Topics in Medicinal Chemistry, 2017, 17, 2006-2022.	2.1	25
24	Electrochemical and Spin-Trapping Properties of para-substituted Î±-Phenyl-N-tert-butyl Nitrones. Electrochimica Acta, 2016, 193, 231-239.	5.2	15
25	Vitamin C boosts ceria-based catalyst recycling. Green Chemistry, 2016, 18, 3656-3668.	9.0	26
26	Exercise does not activate the Î²3 adrenergic receptorâ€“eNOS pathway, but reduces inducible NOS expression to protect the heart of obese diabetic mice. Basic Research in Cardiology, 2016, 111, 40.	5.9	36
27	Nitrones reverse hyperglycemia-induced endothelial dysfunction in bovine aortic endothelial cells. Biochemical Pharmacology, 2016, 104, 108-117.	4.4	14
28	Divalent Amino-Acid-Based Amphiphilic Antioxidants: Synthesis, Self-Assembling Properties, and Biological Evaluation. Bioconjugate Chemistry, 2016, 27, 772-781.	3.6	3
29	Hybrid Fluorinated and Hydrogenated Double-Chain Surfactants for Handling Membrane Proteins. Journal of Organic Chemistry, 2016, 81, 681-688.	3.2	11
30	Micellar and biochemical properties of a propyl-ended fluorinated surfactant designed for membraneâ€“protein study. Journal of Colloid and Interface Science, 2015, 445, 127-136.	9.4	30
31	A Fluorinated Detergent for Membraneâ€Protein Applications. Angewandte Chemie - International Edition, 2015, 54, 5069-5073.	13.8	65
32	The Disordered Region of the HCV Protein NS5A: Conformational Dynamics, SH3 Binding, and Phosphorylation. Biophysical Journal, 2015, 109, 1483-1496.	0.5	19
33	Amphipols and Photosynthetic Light-Harvesting Pigment-Protein Complexes. Journal of Membrane Biology, 2014, 247, 1031-1041.	2.1	11
34	Amphipol-Mediated Screening of Molecular Orthoses Specific for Membrane Protein Targets. Journal of Membrane Biology, 2014, 247, 925-940.	2.1	22
35	Reactivities of Substituted Î±-Phenyl-<i>N</i>-<i>tert</i>-butyl Nitrones. Journal of Organic Chemistry, 2014, 79, 6615-6626.	3.2	21
36	The Use of Amphipols for Solution NMR Studies of Membrane Proteins: Advantages and Constraints as Compared to Other Solubilizing Media. Journal of Membrane Biology, 2014, 247, 827-842.	2.1	40

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37	PBN derived amphiphilic spin-traps. II/Study of their antioxidant properties in biomimetic membranes. Colloids and Surfaces B: Biointerfaces, 2014, 113, 384-393.	5.0	6
38	New Amphiphiles to Handle Membrane Proteins: â€œMÃ©nage Ã Troisâ€•Between Chemistry, Physical Chemistry, and Biochemistry. , 2014, , 205-251.		13
39	Small angle neutron scattering for the study of solubilised membrane proteins. European Physical Journal E, 2013, 36, 71.	1.6	70
40	Assessing the Conformational Changes of pb5, the Receptor-binding Protein of Phage T5, upon Binding to Its Escherichia coli Receptor FhuA. Journal of Biological Chemistry, 2013, 288, 30763-30772.	3.4	40
41	Temperature-Responsive Self-Assemblies of â€˜Kinked' Amphiphiles. Australian Journal of Chemistry, 2013, 66, 899.	0.9	2
42	Regulation of Light Harvesting in the Green Alga <i>Chlamydomonas reinhardtii</i>: The C-Terminus of LHCSR Is the Knob of a Dimmer Switch. Journal of the American Chemical Society, 2013, 135, 18339-18342.	13.7	112
43	Synthesis and preliminary investigations into norbornane-based amphiphiles and their self-assembly. New Journal of Chemistry, 2013, 37, 1895.	2.8	9
44	Synthesis of Tris-hydroxymethyl-Based Nitrone Derivatives with Highly Reactive Nitronyl Carbon. Journal of Organic Chemistry, 2012, 77, 938-948.	3.2	6
45	Degradation of Edible Oil during Food Processing by Ultrasound: Electron Paramagnetic Resonance, Physicochemical, and Sensory Appreciation. Journal of Agricultural and Food Chemistry, 2012, 60, 7761-7768.	5.2	93
46	Non-Ionic Amphiphilic Homopolymers: Synthesis, Solution Properties, and Biochemical Validation. Langmuir, 2012, 28, 4625-4639.	3.5	64
47	Structural insights into biased G protein-coupled receptor signaling revealed by fluorescence spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6733-6738.	7.1	173
48	Folding of diphtheria toxin T-domain in the presence of amphipols and fluorinated surfactants: Toward thermodynamic measurements of membrane protein folding. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1006-1012.	2.6	22
49	Nonionic Homopolymeric Amphipols: Application to Membrane Protein Folding, Cell-Free Synthesis, and Solution Nuclear Magnetic Resonance. Biochemistry, 2012, 51, 1416-1430.	2.5	86
50	Fluorinated Surfactants for Structural Studies of Membrane Proteins. Biophysical Journal, 2012, 102, 289a.	0.5	0
51	MALDI-TOF Mass Spectrometry Analysis of Amphipol-Trapped Membrane Proteins. Analytical Chemistry, 2012, 84, 6128-6135.	6.5	31
52	A diglucosylated fluorinated surfactant to handle integral membrane proteins in aqueous solution. Journal of Fluorine Chemistry, 2012, 134, 63-71.	1.7	21
53	Synthesis and Determination of Polymerization Rate Constants of Glucose-Based Monomers. Designed Monomers and Polymers, 2011, 14, 499-513.	1.6	9
54	Propyl-Ended Hemifluorinated Surfactants: Synthesis and Self-Assembling Properties. Journal of Organic Chemistry, 2011, 76, 2084-2093.	3.2	16

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55	Cholesterol-based Î±-phenyl-N-tert-butyl nitrone derivatives as antioxidants against light-induced retinal degeneration. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 7405-7409.	2.2	20
56	Amphiphilic Amide Nitrones: A New Class of Protective Agents Acting as Modifiers of Mitochondrial Metabolism. Journal of Medicinal Chemistry, 2010, 53, 4849-4861.	6.4	21
57	Synthesis, physical-chemical and biological properties of amphiphilic amino acid conjugates of nitroxides. New Journal of Chemistry, 2010, 34, 1909.	2.8	4
58	Trapping and Stabilization of Integral Membrane Proteins by Hydrophobically Grafted Glucose-Based Telomers. Biomacromolecules, 2009, 10, 3317-3326.	5.4	44
59	Spin Trapping and Cytoprotective Properties of Fluorinated Amphiphilic Carrier Conjugates of Cyclic versus Linear Nitrones. Chemical Research in Toxicology, 2009, 22, 1570-1581.	3.3	22
60	Micellar and Biochemical Properties of (Hemi)Fluorinated Surfactants Are Controlled by the Size of the Polar Head. Biophysical Journal, 2009, 97, 1077-1086.	0.5	63
61	Lipophilic Î²-Cyclodextrin Cyclicâˆ’Nitrone Conjugate: Synthesis and Spin Trapping Studies. Journal of Organic Chemistry, 2009, 74, 5369-5380.	3.2	32
62	Glucose-Based Surfactants with Hydrogenated, Fluorinated, or Hemifluorinated Tails: Synthesis and Comparative Physical-Chemical Characterization. Journal of Organic Chemistry, 2008, 73, 8142-8153.	3.2	41
63	Glucose-Based Amphiphilic Telomers Designed to Keep Membrane Proteins Soluble in Aqueous Solutions: Synthesis and Physicochemical Characterization. Langmuir, 2008, 24, 13581-13590.	3.5	42
64	Reactivity of Superoxide Radical Anion and Hydroperoxyl Radical with Î±-Phenyl-N-tert-butylnitrone (PBN) Derivatives. Journal of Physical Chemistry A, 2008, 112, 12498-12509.	2.5	35
65	Study of Î²-cyclodextrin/fluorinated trimethyl ammonium bromide surfactant inclusion complex by fluorinated surfactant ion selective electrode. Talanta, 2007, 74, 72-77.	5.5	20
66	Mixtures of Hydrogenated and Fluorinated Lactobionamide Surfactants with Cationic Surfactants:â€‰ Study of Hydrogenated and Fluorinated Chains Miscibility through Potentiometric Techniques. Langmuir, 2007, 23, 11465-11474.	3.5	16
67	Fine-Tuning the Amphiphilicity:â€‰ A Crucial Parameter in the Design of Potent Î±-Phenyl-<i>N</i>-<i>tert</i>-butylnitrone Analogues. Journal of Medicinal Chemistry, 2007, 50, 3976-3979.	6.4	19
68	A New Amphiphilic Derivative, <i>N</i>â€{[4â€(Lactobionamido)methyl]benzylidene}â€• 1,1â€dimethylâ€2â€(octylsulfanyl)ethylamine <i>N</i>â€Oxide, Has a Protective Effect Against Copperâ€Induced Fulminant Hepatitis in <i>Longâ€"Evans</i> Cinnamon Rats at an Extremely Low Concentration Compared with Its Original Form <i>Î±</i>â€Phenylâ€<i>N</i>â€(<i>tert</i>â€butyl) Nitrone. Chemistry and Biodiversity, 2007, 4, 2253-2267.	2.1	11
69	Fluorinated Amphiphilic Amino Acid Derivatives as Antioxidant Carriers:â€‰ A New Class of Protective Agents. Journal of Medicinal Chemistry, 2006, 49, 2812-2820.	6.4	44
70	Lactobionamide Surfactants with Hydrogenated, Perfluorinated or Hemifluorinated Tails:Â Physical-Chemical and Biochemical Characterization. Langmuir, 2006, 22, 8881-8890.	3.5	38
71	Protection Against Reactive Oxygen Species Injuries in Rat Isolated Perfused Hearts: Effect of LPBNAH, a New Amphiphilic Spin-Trap Derived from PBN. Cardiovascular Drugs and Therapy, 2006, 20, 147-149.	2.6	9
72	Mitochondrial medicine: neuroprotection and life extension by the new amphiphilic nitrone LPBNAH1 acting as a highly potent antioxidant agent. Journal of Neurochemistry, 2005, 95, 962-973.	3.9	41

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73	Synthesis of a new family of glycolipidic nitrones as potential antioxidant drugs for neurodegenerative disorders. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 859-862.	2.2	40
74	Synthesis and antioxidant efficiency of a new amphiphilic spin-trap derived from PBN and lipoic acid. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2673-2676.	2.2	18
75	Synthesis and Preliminary Biological Evaluations of Ionic and Nonionic Amphiphilic Î±-Phenyl-N-tert-butylnitrone Derivatives. Journal of Medicinal Chemistry, 2003, 46, 5230-5237.	6.4	34
76	PBN Derived Amphiphilic Spin-Traps. I/Synthesis and Study of Their Miscibility with Polyunsaturated Phospholipids. Langmuir, 2003, 19, 9699-9705.	3.5	9