

GrÃ©gory Durand

List of Publications by Year in descending order

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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	Structural insights into biased G protein-coupled receptor signaling revealed by fluorescence spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6733-6738.	7.1	173
2	Regulation of Light Harvesting in the Green Alga <i>Chlamydomonas reinhardtii</i> : The C-Terminus of LHCSR Is the Knob of a Dimmer Switch. <i>Journal of the American Chemical Society</i> , 2013, 135, 18339-18342.	13.7	112
3	Degradation of Edible Oil during Food Processing by Ultrasound: Electron Paramagnetic Resonance, Physicochemical, and Sensory Appreciation. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 7761-7768.	5.2	93
4	Nonionic Homopolymeric Amphipols: Application to Membrane Protein Folding, Cell-Free Synthesis, and Solution Nuclear Magnetic Resonance. <i>Biochemistry</i> , 2012, 51, 1416-1430.	2.5	86
5	Small angle neutron scattering for the study of solubilised membrane proteins. <i>European Physical Journal E</i> , 2013, 36, 71.	1.6	70
6	A Fluorinated Detergent for Membrane Protein Applications. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5069-5073.	13.8	65
7	Non-Ionic Amphiphilic Homopolymers: Synthesis, Solution Properties, and Biochemical Validation. <i>Langmuir</i> , 2012, 28, 4625-4639.	3.5	64
8	Micellar and Biochemical Properties of (Hemi)Fluorinated Surfactants Are Controlled by the Size of the Polar Head. <i>Biophysical Journal</i> , 2009, 97, 1077-1086.	0.5	63
9	Fluorinated Amphiphilic Amino Acid Derivatives as Antioxidant Carriers: A New Class of Protective Agents. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 2812-2820.	6.4	44
10	Trapping and Stabilization of Integral Membrane Proteins by Hydrophobically Grafted Glucose-Based Telomers. <i>Biomacromolecules</i> , 2009, 10, 3317-3326.	5.4	44
11	Glucose-Based Amphiphilic Telomers Designed to Keep Membrane Proteins Soluble in Aqueous Solutions: Synthesis and Physicochemical Characterization. <i>Langmuir</i> , 2008, 24, 13581-13590.	3.5	42
12	Mitochondrial medicine: neuroprotection and life extension by the new amphiphilic nitron LPBNAH1 acting as a highly potent antioxidant agent. <i>Journal of Neurochemistry</i> , 2005, 95, 962-973.	3.9	41
13	Glucose-Based Surfactants with Hydrogenated, Fluorinated, or Hemifluorinated Tails: Synthesis and Comparative Physical-Chemical Characterization. <i>Journal of Organic Chemistry</i> , 2008, 73, 8142-8153.	3.2	41
14	Synthesis of a new family of glycolipidic nitrones as potential antioxidant drugs for neurodegenerative disorders. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 859-862.	2.2	40
15	Assessing the Conformational Changes of pb5, the Receptor-binding Protein of Phage T5, upon Binding to Its <i>Escherichia coli</i> Receptor FhuA. <i>Journal of Biological Chemistry</i> , 2013, 288, 30763-30772.	3.4	40
16	The Use of Amphipols for Solution NMR Studies of Membrane Proteins: Advantages and Constraints as Compared to Other Solubilizing Media. <i>Journal of Membrane Biology</i> , 2014, 247, 827-842.	2.1	40
17	Lactobionamide Surfactants with Hydrogenated, Perfluorinated or Hemifluorinated Tails: Physical-Chemical and Biochemical Characterization. <i>Langmuir</i> , 2006, 22, 8881-8890.	3.5	38
18	Exercise does not activate the β_3 adrenergic receptor-eNOS pathway, but reduces inducible NOS expression to protect the heart of obese diabetic mice. <i>Basic Research in Cardiology</i> , 2016, 111, 40.	5.9	36

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19	Reactivity of Superoxide Radical Anion and Hydroperoxyl Radical with β -Phenyl-N-tert-butyl nitrone (PBN) Derivatives. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12498-12509.	2.5	35
20	Synthesis and Preliminary Biological Evaluations of Ionic and Nonionic Amphiphilic β -Phenyl-N-tert-butyl nitrone Derivatives. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 5230-5237.	6.4	34
21	Lipophilic β -Cyclodextrin Cyclic Nitron Conjugate: Synthesis and Spin Trapping Studies. <i>Journal of Organic Chemistry</i> , 2009, 74, 5369-5380.	3.2	32
22	MALDI-TOF Mass Spectrometry Analysis of Amphipol-Trapped Membrane Proteins. <i>Analytical Chemistry</i> , 2012, 84, 6128-6135.	6.5	31
23	Micellar and biochemical properties of a propyl-ended fluorinated surfactant designed for membrane-protein study. <i>Journal of Colloid and Interface Science</i> , 2015, 445, 127-136.	9.4	30
24	Protein aggregation with poly(vinyl) alcohol surfactant reduces double emulsion-encapsulated mammalian cell-free expression. <i>PLoS ONE</i> , 2017, 12, e0174689.	2.5	28
25	Vitamin C boosts ceria-based catalyst recycling. <i>Green Chemistry</i> , 2016, 18, 3656-3668.	9.0	26
26	Nitron Derivatives as Therapeutics: From Chemical Modification to Specific-targeting. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 2006-2022.	2.1	25
27	Spin Trapping and Cytoprotective Properties of Fluorinated Amphiphilic Carrier Conjugates of Cyclic versus Linear Nitrones. <i>Chemical Research in Toxicology</i> , 2009, 22, 1570-1581.	3.3	22
28	Folding of diphtheria toxin T-domain in the presence of amphipols and fluorinated surfactants: Toward thermodynamic measurements of membrane protein folding. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1006-1012.	2.6	22
29	Amphipol-Mediated Screening of Molecular Orthoses Specific for Membrane Protein Targets. <i>Journal of Membrane Biology</i> , 2014, 247, 925-940.	2.1	22
30	Amphiphilic Amide Nitrones: A New Class of Protective Agents Acting as Modifiers of Mitochondrial Metabolism. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 4849-4861.	6.4	21
31	A diglucosylated fluorinated surfactant to handle integral membrane proteins in aqueous solution. <i>Journal of Fluorine Chemistry</i> , 2012, 134, 63-71.	1.7	21
32	Reactivities of Substituted β -Phenyl- <i>N</i> - <i>tert</i> -butyl Nitrones. <i>Journal of Organic Chemistry</i> , 2014, 79, 6615-6626.	3.2	21
33	Study of β -cyclodextrin/fluorinated trimethyl ammonium bromide surfactant inclusion complex by fluorinated surfactant ion selective electrode. <i>Talanta</i> , 2007, 74, 72-77.	5.5	20
34	Cholesterol-based β -phenyl- <i>N</i> - <i>tert</i> -butyl nitron derivatives as antioxidants against light-induced retinal degeneration. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 7405-7409.	2.2	20
35	The substitution of Proline 168 favors Bax oligomerization and stimulates its interaction with LUVs and mitochondria. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 1144-1155.	2.6	20
36	Fine-Tuning the Amphiphilicity: A Crucial Parameter in the Design of Potent β -Phenyl- <i>N</i> - <i>tert</i> -butyl nitron Analogues. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 3976-3979.	6.4	19

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37	The Disordered Region of the HCV Protein NS5A: Conformational Dynamics, SH3 Binding, and Phosphorylation. <i>Biophysical Journal</i> , 2015, 109, 1483-1496.	0.5	19
38	Synthesis and antioxidant efficiency of a new amphiphilic spin-trap derived from PBN and lipoic acid. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 2673-2676.	2.2	18
39	Fluorinated diglucose detergents for membrane-protein extraction. <i>Methods</i> , 2018, 147, 84-94.	3.8	18
40	Mixtures of Hydrogenated and Fluorinated Lactobionamide Surfactants with Cationic Surfactants: Study of Hydrogenated and Fluorinated Chains Miscibility through Potentiometric Techniques. <i>Langmuir</i> , 2007, 23, 11465-11474.	3.5	16
41	Propyl-Ended Hemifluorinated Surfactants: Synthesis and Self-Assembling Properties. <i>Journal of Organic Chemistry</i> , 2011, 76, 2084-2093.	3.2	16
42	Substituted $\hat{1}\pm$ -Phenyl and $\hat{1}\pm$ -Naphthyl- <i>N</i> - <i>tert</i> -butyl Nitrones: Synthesis, Spin-Trapping, and Neuroprotection Evaluation. <i>Journal of Organic Chemistry</i> , 2020, 85, 6073-6085.	3.2	16
43	Self-Assembly of Protein-Containing Lipid Bilayer Nanodiscs from Small Molecule Amphiphiles. <i>Small</i> , 2021, 17, e2103603.	10.0	16
44	Electrochemical and Spin-Trapping Properties of para-substituted $\hat{1}\pm$ -Phenyl- <i>N</i> - <i>tert</i> -butyl Nitrones. <i>Electrochimica Acta</i> , 2016, 193, 231-239.	5.2	15
45	Nitrones reverse hyperglycemia-induced endothelial dysfunction in bovine aortic endothelial cells. <i>Biochemical Pharmacology</i> , 2016, 104, 108-117.	4.4	14
46	New Amphiphiles to Handle Membrane Proteins: $\hat{1}\pm$ Between Chemistry, Physical Chemistry, and Biochemistry. , 2014, , 205-251.		13
47	Hydrogenated Diglucose Detergents for Membrane-Protein Extraction and Stabilization. <i>Langmuir</i> , 2019, 35, 4287-4295.	3.5	12
48	A New Amphiphilic Derivative, $\hat{1}\pm$ -(Lactobionamido)methyl]benzylidene)-1,1-dimethyl-2-(octylsulfanyl)ethylamine <i>N</i> -oxide, Has a Protective Effect Against Copper-Induced Fulminant Hepatitis in Long-Evans Cinnamon Rats at an Extremely Low Concentration Compared with Its Original Form $\hat{1}\pm$ -Phenyl- <i>N</i> - <i>tert</i> -butyl Nitron. <i>Chemistry and Biodiversity</i> , 2007, 4, 2253-2267.	2.1	11
49	Amphipols and Photosynthetic Light-Harvesting Pigment-Protein Complexes. <i>Journal of Membrane Biology</i> , 2014, 247, 1031-1041.	2.1	11
50	Hybrid Fluorinated and Hydrogenated Double-Chain Surfactants for Handling Membrane Proteins. <i>Journal of Organic Chemistry</i> , 2016, 81, 681-688.	3.2	11
51	Nitron-Trolox conjugate as an inhibitor of lipid oxidation: Towards synergistic antioxidant effects. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 1489-1501.	2.6	11
52	Glycosylated Amphiphilic Calixarene-Based Detergent for Functional Stabilization of Native Membrane Proteins.. <i>ChemistrySelect</i> , 2019, 4, 5535-5539.	1.5	11
53	Maltose-Based Fluorinated Surfactants for Membrane-Protein Extraction and Stabilization. <i>Langmuir</i> , 2021, 37, 2111-2122.	3.5	11
54	Model-Free Analysis of Critical Micellar Concentrations for Detecting Demixing in Surfactant Mixtures. <i>Analytical Chemistry</i> , 2017, 89, 3245-3249.	6.5	10

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55	PBN Derived Amphiphilic Spin-Traps. I/Synthesis and Study of Their Miscibility with Polyunsaturated Phospholipids. <i>Langmuir</i> , 2003, 19, 9699-9705.	3.5	9
56	Protection Against Reactive Oxygen Species Injuries in Rat Isolated Perfused Hearts: Effect of LPBNAH, a New Amphiphilic Spin-Trap Derived from PBN. <i>Cardiovascular Drugs and Therapy</i> , 2006, 20, 147-149.	2.6	9
57	Synthesis and Determination of Polymerization Rate Constants of Glucose-Based Monomers. <i>Designed Monomers and Polymers</i> , 2011, 14, 499-513.	1.6	9
58	Synthesis and preliminary investigations into norbornane-based amphiphiles and their self-assembly. <i>New Journal of Chemistry</i> , 2013, 37, 1895.	2.8	9
59	Cholesterol-nitronone conjugates as protective agents against lipid oxidation: A model membrane study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 2495-2504.	2.6	8
60	Lactobionamide-based fluorinated detergent for functional and structural stabilization of membrane proteins. <i>Methods</i> , 2020, 180, 19-26.	3.8	7
61	Synthesis of Tris-hydroxymethyl-Based Nitronone Derivatives with Highly Reactive Nitronyl Carbon. <i>Journal of Organic Chemistry</i> , 2012, 77, 938-948.	3.2	6
62	PBN derived amphiphilic spin-traps. II/Study of their antioxidant properties in biomimetic membranes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 384-393.	5.0	6
63	Hybrid Double-Chain Maltose-Based Detergents: Synthesis and Colloidal and Biochemical Evaluation. <i>Journal of Organic Chemistry</i> , 2019, 84, 10606-10614.	3.2	6
64	Reactivities of MeO-substituted PBN-type nitronones. <i>New Journal of Chemistry</i> , 2019, 43, 15754-15762.	2.8	6
65	Biotinylated non-ionic amphipols for GPCR ligands screening. <i>Methods</i> , 2020, 180, 69-78.	3.8	6
66	Molecular Determinants for OMF Selectivity in Tripartite RND Multidrug Efflux Systems. <i>Antibiotics</i> , 2022, 11, 126.	3.7	6
67	<i>Para</i> -Substituted $\hat{\pm}$ -Phenyl- <i>N</i> - <i>tert</i> -butyl Nitronones: Spin-Trapping, Redox and Neuroprotective Properties. <i>ACS Omega</i> , 2020, 5, 30989-30999.	3.5	5
68	Synthesis, physical-chemical and biological properties of amphiphilic amino acid conjugates of nitroxides. <i>New Journal of Chemistry</i> , 2010, 34, 1909.	2.8	4
69	Divalent Amino-Acid-Based Amphiphilic Antioxidants: Synthesis, Self-Assembling Properties, and Biological Evaluation. <i>Bioconjugate Chemistry</i> , 2016, 27, 772-781.	3.6	3
70	Temperature-Responsive Self-Assemblies of $\hat{\pm}$ 'Kinked' Amphiphiles. <i>Australian Journal of Chemistry</i> , 2013, 66, 899.	0.9	2
71	$\hat{\pm}$ -Phenyl- <i>N</i> -cyclohexyl Nitronones: Preparation and Use as Spin-Traps. <i>Journal of Organic Chemistry</i> , 2017, 82, 135-142.	3.2	2
72	Glucose-Based Fluorinated Surfactants as Additives for the Crystallization of Membrane Proteins: Synthesis and Preliminary Physical-Chemical and Biochemical Characterization. <i>ACS Omega</i> , 2021, 6, 24397-24406.	3.5	2

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73	A Novel Nitron-Trolox Conjugate Inhibits Membrane Lipid Oxidation Through Synergistic Antioxidant Effects. <i>Biophysical Journal</i> , 2019, 116, 227a.	0.5	1
74	Hybrid Fluorocarbon-Hydrocarbon Surfactants: Synthesis and Colloidal Characterization. <i>Journal of Organic Chemistry</i> , 2021, 86, 14672-14683.	3.2	1
75	Fluorinated Surfactants for Structural Studies of Membrane Proteins. <i>Biophysical Journal</i> , 2012, 102, 289a.	0.5	0
76	Detergent-Like Polymerizable Monomers: Synthesis, Physicochemical, and Biochemical Characterization. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 5340-5349.	2.4	0