

Gildas Bertho

List of Publications by Year in descending order

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75
papers

1,930
citations

257450

24
h-index

276875

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79
all docs

79
docs citations

79
times ranked

2755
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural analysis of unstable norbixin isomers guided by pure shift nuclear magnetic resonance. <i>Magnetic Resonance in Chemistry</i> , 2022, 60, 504-514.	1.9	1
2	Ultrahigh-Resolution NMR with Water Signal Suppression for a Deeper Understanding of the Action of Antimetabolic Drugs on Diffuse Large B-Cell Lymphoma. <i>Journal of Proteome Research</i> , 2022, 21, 1041-1051.	3.7	9
3	Distinction between 2 ⁺ - and 3 ⁺ -Phosphate Isomers of a Fluorescent NADPH Analogue Led to Strong Inhibition of Cancer Cells Migration. <i>Antioxidants</i> , 2021, 10, 723.	5.1	1
4	Adenomyosis is associated with specific proton nuclear magnetic resonance (1H-NMR) serum metabolic profiles. <i>Fertility and Sterility</i> , 2021, 116, 243-254.	1.0	7
5	The complex metabolism of poststerone in male rats. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2021, 212, 105897.	2.5	2
6	Loss of prion protein control of glucose metabolism promotes neurodegeneration in model of prion diseases. <i>PLoS Pathogens</i> , 2021, 17, e1009991.	4.7	11
7	On the Supra π -LUMO Interaction: Case Study of a Sudden Change of Electronic Structure as a Functional Emergence. <i>Chemistry - A European Journal</i> , 2021, 27, 17889-17899.	3.3	3
8	Endometriosis phenotypes are associated with specific serum metabolic profiles determined by proton-nuclear magnetic resonance. <i>Reproductive BioMedicine Online</i> , 2020, 41, 640-652.	2.4	14
9	The follicular fluid metabolome differs according to the endometriosis phenotype. <i>Reproductive BioMedicine Online</i> , 2020, 41, 1023-1037.	2.4	20
10	Real-Time and Non-invasive Monitoring of the Activation of the IRE1 \pm -XBP1 Pathway in Individuals with Hemodynamic Impairment. <i>EBioMedicine</i> , 2018, 27, 284-292.	6.1	12
11	Urinary metabolic profiling of asymptomatic acute intermittent porphyria using a rule-mining-based algorithm. <i>Metabolomics</i> , 2018, 14, 10.	3.0	7
12	Insights into the interaction of high potency inhibitor IRC \times 083864 with phosphatase CDC25. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 593-601.	2.6	7
13	Model of the Interaction between the NF- κ B Inhibitory Protein p100 and the E3 Ubiquitin Ligase β -TrCP based on NMR and Docking Experiments. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 223-233.	5.4	7
14	Specific Physical Exercise Improves Energetic Metabolism in the Skeletal Muscle of Amyotrophic-Lateral- Sclerosis Mice. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 332.	2.9	37
15	Rule-Mining for the Early Prediction of Chronic Kidney Disease Based on Metabolomics and Multi-Source Data. <i>PLoS ONE</i> , 2016, 11, e0166905.	2.5	19
16	Interaction of a small molecule Natura \pm and STAT3-SH2 domain to block Y705 phosphorylation and inhibit lupus nephritis. <i>Biochemical Pharmacology</i> , 2016, 99, 123-131.	4.4	6
17	Expression in yeast, new substrates, and construction of a first 3D model of human orphan cytochrome P450 2U1: Interpretation of substrate hydroxylation regioselectivity from docking studies. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1426-1437.	2.4	16
18	The urinary metabolome of chronic kidney disease. <i>Kidney International</i> , 2014, 85, 1239-1240.	5.2	5

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19	Novel RANK Antagonists for the Treatment of Bone-Resorptive Disease: Theoretical Predictions and Experimental Validation. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 1466-1477.	2.8	12
20	Urinary Metabolic Fingerprint of Acute Intermittent Porphyrin Analyzed by ¹ H NMR Spectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 2166-2174.	6.5	21
21	Toward Stable Electron Paramagnetic Resonance Oximetry Probes: Synthesis, Characterization, and Metabolic Evaluation of New Ester Derivatives of a Tris-(<i>para</i> -carboxyltetrahydroaryl)methyl (TAM) Radical. <i>Chemical Research in Toxicology</i> , 2013, 26, 1561-1569.	3.3	10
22	A new derivative detected in accelerated ageing of artesunate-amodiaquine fixed dose combination tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 81-82, 20-26.	2.8	6
23	Thiolactone Sulfoxides as New Reactive Metabolites Acting as Bis-Electrophiles: Implication in Clopidogrel and Prasugrel Bioactivation. <i>Chemical Research in Toxicology</i> , 2013, 26, 794-802.	3.3	14
24	Tryptophan Depletion and the Kinase GCN2 Mediate IFN- α -Induced Autophagy. <i>Journal of Immunology</i> , 2012, 189, 2954-2964.	0.8	38
25	Structural and Functional Characterization of Nrf2 Degradation by the Glycogen Synthase Kinase 3 β -TrCP Axis. <i>Molecular and Cellular Biology</i> , 2012, 32, 3486-3499.	2.3	338
26	Contact-based ligand-clustering approach for the identification of active compounds in virtual screening. <i>Advances and Applications in Bioinformatics and Chemistry</i> , 2012, 5, 61.	2.6	20
27	Cytochromes P450 Catalyze Both Steps of the Major Pathway of Clopidogrel Bioactivation, whereas Paraoxonase Catalyzes the Formation of a Minor Thiol Metabolite Isomer. <i>Chemical Research in Toxicology</i> , 2012, 25, 348-356.	3.3	108
28	Naphthalene-dioxygenase catalysed cis-dihydroxylation of bicyclic azaarenes. <i>RSC Advances</i> , 2012, 2, 605-615.	3.6	8
29	Metabolic Activation of Prasugrel: Nature of the Two Competitive Pathways Resulting in the Opening of Its Thiophene Ring. <i>Chemical Research in Toxicology</i> , 2012, 25, 1058-1065.	3.3	21
30	Paraoxonase-1 and clopidogrel efficacy. <i>Nature Medicine</i> , 2011, 17, 1040-1041.	30.7	50
31	NMR Applications for Identifying β -TrCP Protein-Ligand Interactions. <i>Mini-Reviews in Medicinal Chemistry</i> , 2011, 11, 283-297.	2.4	4
32	Formation and Fate of a Sulfenic Acid Intermediate in the Metabolic Activation of the Antithrombotic Prodrug Prasugrel. <i>Chemical Research in Toxicology</i> , 2010, 23, 1268-1274.	3.3	30
33	Automatic clustering of docking poses in virtual screening process using self-organizing map. <i>Bioinformatics</i> , 2010, 26, 53-60.	4.1	63
34	Synthetic studies towards diazepamone scaffolds. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 2320-2330.	1.8	20
35	Oxidative and Reductive Metabolism of Tris(<i>p</i> -carboxyltetrahydroaryl)methyl Radicals by Liver Microsomes. <i>Chemical Research in Toxicology</i> , 2009, 22, 1342-1350.	3.3	34
36	Possible role of region 152-156 in the structural duality of a peptide fragment from sheep prion protein. <i>Protein Science</i> , 2009, 13, 3151-3160.	7.6	25

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37	Metabolic Oxidative Cleavage of Thioesters: Evidence for the Formation of Sulfenic Acid Intermediates in the Bioactivation of the Antithrombotic Prodrugs Ticlopidine and Clopidogrel. <i>Chemical Research in Toxicology</i> , 2009, 22, 369-373.	3.3	88
38	Oxidation of tris-(p-carboxyltetraaryl)methyl radical EPR probes: evidence for their oxidative decarboxylation and molecular origin of their specific ability to react with O ₂ ^{•-} . <i>Chemical Communications</i> , 2009, , 1416.	4.1	27
39	Diastereoselective Additions to (S)- β -Aminodehydrocaprolactams: Development of a Versatile Synthesis of New Substituted Cyclic α -Lysines. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 1901-1909.	2.4	10
40	The key-role of tyrosine 155 in the mechanism of prion transconformation as highlighted by a study of sheep mutant peptides. <i>Peptides</i> , 2008, 29, 1073-1084.	2.4	4
41	Transfer-NMR and Docking Studies Identify the Binding of the Peptide Derived from Activating Transcription Factor 4 to Protein Ubiquitin Ligase β -TrCP. Competition STD-NMR with β -Catenin. <i>Biochemistry</i> , 2008, 47, 14-29.	2.5	28
42	Structure of the Complex between Phosphorylated Substrates and the SCF β -TrCP Ubiquitin Ligase Receptor: A Combined NMR, Molecular Modeling, and Docking Approach. <i>Journal of Chemical Information and Modeling</i> , 2008, 48, 2350-2361.	5.4	9
43	Phosphorylation-dependent structure of ATF4 peptides derived from a human ATF4 protein, a member of the family of transcription factors. <i>Peptides</i> , 2007, 28, 2253-2267.	2.4	17
44	Structural Studies on 24P- β Peptide Derived from a Human β Protein Related to the Inhibition of the Activity of the Transcription Factor NF- κ B. <i>Biochemistry</i> , 2007, 46, 2958-2972.	2.5	16
45	Allosteric Tuning of the Intra-Cavity Binding Properties of a Calix[6]arene through External Binding to a ZnII Center Coordinated to Amino Side Chains. <i>Chemistry - A European Journal</i> , 2007, 13, 2078-2088.	3.3	29
46	Efficient synthesis of polyfunctionalised enantiopure diazepanone scaffolds. <i>Tetrahedron Letters</i> , 2007, 48, 8149-8152.	1.4	26
47	Ecdysteroids from the medicinal fern <i>Microsorium scolopendria</i> (Burm. f.). <i>Phytochemical Analysis</i> , 2007, 18, 441-450.	2.4	28
48	STD and TRNOESY NMR studies for the epitope mapping of the phosphorylation motif of the oncogenic protein β -catenin recognized by a selective monoclonal antibody. <i>FEBS Letters</i> , 2006, 580, 5411-5422.	2.8	11
49	NMR studies for identifying phosphopeptide ligands of the HIV-1 protein Vpu binding to the F-box protein β -TrCP. <i>Peptides</i> , 2006, 27, 194-210.	2.4	17
50	Fixing the conformations of diamineplatinum(II)-GpG chelates: NMR and CD signatures of individual rotamers. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 139-152.	2.6	10
51	Synthesis and glycosidase inhibitory activity of new hexa-substituted C8-glycomimetics. <i>Beilstein Journal of Organic Chemistry</i> , 2005, 1, 12.	2.2	15
52	STD and TRNOESY NMR Studies on the Conformation of the Oncogenic Protein β -Catenin Containing the Phosphorylated Motif DpSGXXpS Bound to the β -TrCP Protein. <i>Journal of Biological Chemistry</i> , 2005, 280, 29107-29116.	3.4	23
53	First evidence that cytochrome P450 may catalyze both S-oxidation and epoxidation of thiophene derivatives. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 450-455.	2.1	86
54	Solution structure of a peptide derived from the oncogenic protein β -Catenin in its phosphorylated and nonphosphorylated states. <i>Peptides</i> , 2005, 26, 227-241.	2.4	20

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55	Epitope Mapping of the Phosphorylation Motif of the HIV-1 Protein Vpu Bound to the Selective Monoclonal Antibody Using TRNOESY and STD NMR Spectroscopy. <i>Biochemistry</i> , 2004, 43, 14555-14565.	2.5	10
56	3-Carboxy-4-phosphonocyclopentane amino acids: New metabotropic glutamate receptor ligands. <i>Amino Acids</i> , 2003, 24, 303-310.	2.7	7
57	Synthesis and glycosidase inhibitory activity of enantiopure polyhydroxylated octahydroindoles and decahydroquinolines, analogs to castanospermine. <i>Tetrahedron</i> , 2003, 59, 8721-8730.	1.9	24
58	NMR Studies of the Phosphorylation Motif of the HIV-1 Protein Vpu Bound to the F-Box Protein \hat{I}^2 -TrCP. <i>Biochemistry</i> , 2003, 42, 14741-14751.	2.5	42
59	Antibiotic Resistance Peptides: Interaction of Peptides Conferring Macrolide and Ketolide Resistance with <i>Staphylococcus aureus</i> Ribosomes. Conformation of Bound Peptides As Determined by Transferred NOE Experiments. <i>Biochemistry</i> , 2002, 41, 4218-4229.	2.5	23
60	The First Water-Soluble Copper(I) Calix[6]arene Complex Presenting a Hydrophobic Ligand Binding Pocket: A Remarkable Model for Active Sites in Metalloenzymes. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1044-1046.	13.8	71
61	Covalent bonding of bridged pyridinium aldehyde derivatives with guanine N7 is controlled by CpG site conformation. <i>Perkin Transactions II RSC</i> , 2001, , 1771-1780.	1.1	0
62	Purification and structure of the major product obtained by reaction of NADPH and NMNH with the myeloperoxidase/hydrogen peroxide/chloride system. <i>FEBS Journal</i> , 2001, 268, 2889-2895.	0.2	10
63	Solution structure of the sheep prion PrP ^{Sc} 142-166: a possible site for the conformational conversion of prion protein. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 2001, 4, 739-743.	0.1	1
64	A novel mechanism of antibiotic resistance: study of the complex state of peptides with bacterial <i>Staphylococcus aureus</i> ribosomes. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 2001, 4, 745-750.	0.1	0
65	Identification and quantitative analysis of the phytoecdysteroids in <i>Silene</i> species (Caryophyllaceae) by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2001, 935, 309-319.	3.7	42
66	Sheep Prion Protein Synthetic Peptide Spanning Helix 1 and \hat{I}^2 -Strand 2 (Residues 142-166) Shows \hat{I}^2 -Hairpin Structure in Solution. <i>Journal of Biological Chemistry</i> , 2001, 276, 46364-46370.	3.4	32
67	Microbial hydroxylation/functionalization of terpenoid synthons derived from communic acids. <i>Phytochemistry</i> , 2000, 54, 23-27.	2.9	4
68	Lincomycin and clindamycin conformations. A fragment shared by macrolides, ketolides and lincosamides determined from TRNOE ribosome-bound conformations. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 1225-1243.	3.0	27
69	Conformations in solution and bound to bacterial ribosomes of ketolides, HMR 3647 (telithromycin) and RU 72366: A new class of highly potent antibacterials. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 1579-1597.	3.0	24
70	Dissociation equilibrium constant and bound conformation for weak antibiotic binding interaction with different bacterial ribosomes. <i>Perkin Transactions II RSC</i> , 2000, , 2363-2371.	1.1	13
71	Conformational analysis of josamycin, a 16-membered macrolide free in solution and bound to bacterial ribosomes. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999, , 529-544.	0.9	9
72	Conformational Analysis of Ketolide, Conformations of RU 004 in Solution and Bound to Bacterial Ribosomes. <i>Journal of Medicinal Chemistry</i> , 1998, 41, 3373-3386.	6.4	39

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73	Transferred nuclear Overhauser effect study of macrolide-ribosome interactions: correlation between antibiotic activities and bound conformations. <i>Bioorganic and Medicinal Chemistry</i> , 1998, 6, 209-221.	3.0	44
74	Solution conformation of methylated macrolide antibiotics roxithromycin and erythromycin using NMR and molecular modelling. Ribosome-bound conformation determined by TRNOE and formation of cytochrome P450-metabolite complex. <i>International Journal of Biological Macromolecules</i> , 1998, 22, 103-127.	7.5	29
75	Conformation of macrolides antibiotics bound to ribosomes as determined from transferred nuclear Overhauser effect spectroscopy. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1998, 95, 423-429.	0.2	8