Sabine Bouguet-Bonnet

List of Publications by Year
in descending order

41	864	623574 14	477173 29
papers	citations	h-index	g-index

42	42	42	1238
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Importance of the CMAP Correction to the CHARMM22 Protein Force Field: Dynamics of Hen Lysozyme. Biophysical Journal, 2006, 90, L36-L38.	0.2	321
2	About Long-Lived Nuclear Spin States Involved in Para-Hydrogenated Molecules. Journal of the American Chemical Society, 2007, 129, 1445-1449.	6.6	55
3	Compensatory and Long-Range Changes in Picosecondâ€“Nanosecond Main-Chain Dynamics upon Complex Formation: 15N Relaxation Analysis of the Free and Bound States of the Ubiquitin-like Domain of Human Plexin-B1 and the Small GTPase Rac1. Journal of Molecular Biology, 2008, 377, 1474-1487.	2.0	50
4	Behavior of Cesium and Thallium Cations inside a Calixarene Cavity As Probed by Nuclear Spin Relaxation. Evidence of Cationâ^'Ï€ Interactions in Water. Journal of Physical Chemistry B, 2009, 113, 10800-10807.	1.2	32
5	Combining NMR and Molecular Dynamics Studies for Insights into the Allostery of Small GTPaseâ€“Protein Interactions. Methods in Molecular Biology, 2012, 796, 235-259.	0.4	31
6	Analysis of ¹⁵Nâ€“¹H NMR Relaxation in Proteins by a Combined Experimental and Molecular Dynamics Simulation Approach: Picosecondâ€“Nanosecond Dynamics of the Rho GTPase Binding Domain of Plexin-B1 in the Dimeric State Indicates Allosteric Pathways. Journal of Physical Chemistry B, 2013, 117, 174-184.	1.2	28
7	Solvent Dynamical Behavior in an Organogel Phase As Studied by NMR Relaxation and Diffusion Experiments. Journal of Physical Chemistry B, 2011, 115, 2511-2517.	1.2	26
8	Solution Structure and Backbone Dynamics of the Reduced Form and an Oxidized Form of E. coli Methionine Sulfoxide Reductase A (MsrA): Structural Insight of the MsrA Catalytic Cycle. Journal of Molecular Biology, 2007, 366, 193-206.	2.0	24
9	New Application of Proton Nuclear Spin Relaxation Unraveling the Intermolecular Structural Features of Low-Molecular-Weight Organogel Fibers. Journal of the American Chemical Society, 2012, 134, 10621-10627.	6.6	23
10	Functionalization of pectin with laccase-mediated oxidation products of ferulic acid. Enzyme and Microbial Technology, 2017, 104, 1-8.	1.6	23
11	Improving and fine-tuning the properties of peptide-based hydrogels via incorporation of peptide nucleic acids. Nanoscale, 2020, 12, 19905-19917.	2.8	23
12	Total assignment of1H and13C NMR spectra of three triterpene saponins from roots ofSilene vulgaris (Moench) Garcke. Magnetic Resonance in Chemistry, 2002, 40, 618-621.	1.1	20
13	Effect of the static magnetic field strength on parahydrogen induced polarization NMR spectra. Journal of Chemical Physics, 2009, 130, 234507.	1.2	17
14	Water Behavior in Mesoporous Materials As Studied by NMR Relaxometry. Journal of Physical Chemistry A, 2011, 115, 9941-9946.	1.1	17
15	Creation and evolution of net proton hyperpolarization arising from para-hydrogenation. Journal of Magnetic Resonance, 2011, 210, 107-112.	1.2	14
16	Co-assembly and multicomponent hydrogel formation upon mixing nucleobase-containing peptides. Nanoscale, 2021, 13, 10566-10578.	2.8	14
17	Molecular Identification of Endophytic Bacteria in Leucojum aestivum In Vitro Culture, NMR-Based Metabolomics Study and LC-MS Analysis Leading to Potential Amaryllidaceae Alkaloid Production. International Journal of Molecular Sciences, 2021, 22, 1773.	1.8	14
18	High-Relaxivity Gd(III)â€“Hemicryptophane Complex. Organic Letters, 2019, 21, 1999-2003.	2.4	12

#	Article	IF	Citations
19	Direct 1H NMR evidence of spin-rotation coupling as a source of para â†' ortho-H2 conversion in diamagnetic solvents. Journal of Chemical Physics, 2017, 146, 154203.	1.2	11
20	Location of a Metallic Cation Complexed in a Calixarene Cavity As Determined by Calixarene 13C Spin Relaxation. Application to Cesium and Thallium Complexed by p-Sulfonatocalix[4]arene in Water. Journal of Physical Chemistry B, 2009, 113, 3499-3503.	1.2	10
21	A new liquid chromatography-high resolution Orbitrap mass spectrometry-based strategy to characterize Glucuronide Oleanane-type Triterpenoid Carboxylic Acid 3, 28-O-Bidesmosides (GOTCAB) saponins.A case study of Gypsophila glomerata Pall ex M. B. (Caryophyllaceae). Journal of Pharmaceutical and Biomedical Analysis, 2018, 159, 567-581.	1.4	10
22	â€œRelaxometryâ€•experiments and analysis of dispersion curves: An illustrative example of toluene in liquid and in organogel phases. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2012, 40A, 80-89.	0.2	9
23	Electron Spin Polarization Transfer to ortho-H₂ by Interaction of para-H₂ with Paramagnetic Species: A Key to a Novel para â†' ortho Conversion Mechanism. Journal of Physical Chemistry Letters, 2015, 6, 1611-1615.	2.1	9
24	Increased synthesis of a new oleanane-type saponin in hairy roots of marigold (Calendula) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	1.0	9
25	Membrane fluidity does not explain how solvents act on the middle-ear reflex. NeuroToxicology, 2016, 57, 13-21.	1.4	7
26	Bridging Structural and Dynamical Models of a Confined Sodium Nitroprusside Complex. Journal of Physical Chemistry C, 2018, 122, 21883-21890.	1.5	6
27	Differential scanning calorimetry and NMR study of water confined in a mesoporous bioactive glass. Microporous and Mesoporous Materials, 2021, 316, 110922.	2.2	6
28	On the calculation of cross-correlation spectral density functions within the model-free approach. Concepts in Magnetic Resonance, 2003, 19A, 65-70.	1.3	5
29	Unraveling protein dynamics through fast spectral density mapping. Journal of Biomolecular NMR, 2007, 37, 159-177.	1.6	5
30	Carbon-13 Heteronuclear Longitudinal Spin Relaxation for Geometrical (and Stereochemical) Determinations in Small or Medium Size Molecules. Annual Reports on NMR Spectroscopy, 2011, 74, 89-123.	0.7	5
31	Mn-Doped Quinary Agâ€“Inâ€“Gaâ€“Znâ€“S Quantum Dots for Dual-Modal Imaging. ACS Omega, 2021, 6, 33100-33110.	1.6	5
32	1H, 15N, 13C assignments for the activated form of the small Rho-GTPase Rac1. Journal of Biomolecular NMR, 2006, 36, 51-51.	1.6	4
33	The concept of effective correlation times for describing backbone motions in proteins. Part I. A residue-per-residue self-consistent analysis of multifield15N relaxation parameters. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2005, 24A, 1-9.	0.2	3
34	Selective HOESY experiments for stereochemical determinations. Magnetic Resonance in Chemistry, 2008, 46, 939-942.	1.1	3
35	Polymer functionalization through an enzymatic process: Intermediate products characterization and their grafting onto gum Arabic. International Journal of Biological Macromolecules, 2021, 169, 480-491.	3.6	3
36	The Molecular Bases of the Interaction between a Saponin from the Roots of Gypsophila paniculata L. and Model Lipid Membranes. International Journal of Molecular Sciences, 2022, 23, 3397.	1.8	3

#	Article	IF	Citations
37	Simulation of radio-frequency field inhomogeneity effects: application to pulse trains aimed at the determination of CSA-dipolar interference terms. Magnetic Resonance in Chemistry, 2003, 41, 769-775.	1.1	2
38	An alternative spin-state-selective pulse sequence element. Magnetic Resonance in Chemistry, 2003, 41, 1030-1033.	1.1	2
39	HMBC-like experiment based on longitudinal csa/dipolar cross-correlation.. Journal of Magnetic Resonance, 2005, 173, 29-33.	1.2	2
40	The concept of effective correlation times for describing backbone motions in proteins. Part II. Tentative interpretation of the residue-specific correlation time in terms of overall rotation-diffusion. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2005, 24A, 10-16.	0.2	1
41	Nuclear Magnetic Resonance. Second Edition. By Peter Hore. Oxford University Press, 2015. Pp. 120. Price GBP 14.99. ISBN 9780198703419.. Journal of Applied Crystallography, 2017, 50, 1243-1243.	1.9	0