Mirco Zerbetto

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Parameter free evaluation of S _N 2 reaction rates for halide substitution in halomethane. Physical Chemistry Chemical Physics, 2022, 24, 7474-7480.	2.8	0
2	Ethanol electro-oxidation reaction on the Pd(111) surface in alkaline media: insights from quantum and molecular mechanics. Physical Chemistry Chemical Physics, 2022, , .	2.8	2
3	Stochastic Modelling of 13C NMR Spin Relaxation Experiments in Oligosaccharides. Molecules, 2021, 26, 2418.	3.8	1
4	Insights on the supramolecular polymorphism of poly(\hat{i}^3 -benzyl-L-glutamate) rod-like peptides from atomistic molecular dynamics simulations. Journal of Materials Science, 2021, 56, 16463-16474.	3.7	1
5	Conformational Entropy from Mobile Bond Vectors in Proteins: A Viewpoint that Unifies NMR Relaxation Theory and Molecular Dynamics Simulation Approaches. Journal of Physical Chemistry B, 2020, 124, 9323-9334.	2.6	9
6	Multiscale modeling of reaction rates: application to archetypal SN2 nucleophilic substitutions. Physical Chemistry Chemical Physics, 2020, 22, 3455-3465.	2.8	4
7	Glycosidic linkage flexibility: The ï^ torsion angle has a bimodal distribution in î± -L-Rha <i>p</i> -(1 â†' 2)- î± -L-Rha <i>p</i> -OMe as deduced from 13C NMR spin relaxati Journal of Chemical Physics, 2020, 152, 035103.	on.3.0	9
8	DiTe2: Calculating the diffusion tensor for flexible molecules. Journal of Computational Chemistry, 2019, 40, 697-705.	3.3	7
9	Mesoporous Carbon with Different Density of Thiophenicâ€Like Functional Groups and Their Effect on Oxygen Reduction. ChemSusChem, 2019, 12, 4229-4239.	6.8	29
10	Local Ordering at the N–H Sites of the Rho GTPase Binding Domain of Plexin-B1: Impact of Dimerization. Journal of Physical Chemistry B, 2019, 123, 8019-8033.	2.6	6
11	Evaluating rotation diffusion properties of molecules from short trajectories. Physical Chemistry Chemical Physics, 2019, 21, 3662-3668.	2.8	4
12	Stochastic modeling of macromolecules in solution. I. Relaxation processes. Journal of Chemical Physics, 2019, 150, 184107.	3.0	11
13	Stochastic modeling of macromolecules in solution. II. Spectral densities. Journal of Chemical Physics, 2019, 150, 184108.	3.0	9
14	Local Ordering at Mobile Sites in Proteins: Combining Perspectives from NMR Relaxation and Molecular Dynamics. Journal of Physical Chemistry B, 2019, 123, 2745-2755.	2.6	10
15	Effect of Different Conformational Distributions on the Ultrafast Coherence Dynamics in Porphyrin-Based Polymers. Journal of Physical Chemistry C, 2019, 123, 10212-10224.	3.1	10
16	Differential Dynamics at Glycosidic Linkages of an Oligosaccharide as Revealed by ¹³ C NMR Spin Relaxation and Stochastic Modeling. Journal of Physical Chemistry B, 2018, 122, 2287-2294.	2.6	4
17	Density Functional Theory (DFT) and Experimental Evidences of Metal–Support Interaction in Platinum Nanoparticles Supported on Nitrogen- and Sulfur-Doped Mesoporous Carbons: Synthesis, Activity, and Stability. ACS Catalysis, 2018, 8, 1122-1137.	11.2	83
18	Probing the correlation between Pt-support interaction and oxygen reduction reaction activity in mesoporous carbon materials modified with Pt-N active sites. Electrochimica Acta, 2018, 277, 287-300.	5.2	45

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19	¹⁵ N–H-Related Conformational Entropy Changes Entailed By Plexin-B1 RBD Dimerization: Combined Molecular Dynamics/NMR Relaxation Approach. Journal of Physical Chemistry B, 2017, 121, 3007-3015.	2.6	8
20	Integrated Computational Approach to the Electron Paramagnetic Resonance Characterization of Rigid 3 ₁₀ -Helical Peptides with TOAC Nitroxide Spin Labels. Journal of Physical Chemistry B, 2017, 121, 4379-4387.	2.6	4
21	Spectroscopic Insights into Carbon Dot Systems. Journal of Physical Chemistry Letters, 2017, 8, 2236-2242.	4.6	111
22	Synthesis of Gold Nanoparticles in Liquid Environment by Laser Ablation with Geometrically Confined Configurations: Insights To Improve Size Control and Productivity. Journal of Physical Chemistry C, 2016, 120, 9453-9463.	3.1	77
23	Multiscale modeling for interpreting nuclear magnetic resonance relaxation in flexible molecules. International Journal of Quantum Chemistry, 2016, 116, 1706-1722.	2.0	5
24	Loop Electrostatics Asymmetry Modulates the Preexisting Conformational Equilibrium in Thrombin. Biochemistry, 2016, 55, 3984-3994.	2.5	17
25	Flexibility at a glycosidic linkage revealed by molecular dynamics, stochastic modeling, and ¹³ C NMR spin relaxation: conformational preferences of α- <scp>I</scp> -Rhap-α-(1 →) Tj ETQq1 Physics, 2016, 18, 3086-3096.	1 0.784314 2.8	rgBT /Over
26	Probing the conformational energetics of alkyl thiols on gold surfaces by means of a morphing/steering non-equilibrium tool. Physical Chemistry Chemical Physics, 2015, 17, 8038-8052.	2.8	5
27	Towards bulk thermodynamics via non-equilibrium methods: gaseous methane as a case study. Physical Chemistry Chemical Physics, 2015, 17, 1966-1979.	2.8	7
28	Multidimensional integration through Markovian sampling under steered function morphing: A physical guise from statistical mechanics. Computer Physics Communications, 2015, 195, 129-139.	7.5	1
29	Conformational Mobility in Monolayer-Protected Nanoparticles: From Torsional Free Energy Profiles to NMR Relaxation. Journal of Physical Chemistry C, 2015, 119, 20100-20110.	3.1	17
30	Summation through stochastic drawing of addends under steered morphing. Journal of Computational and Applied Mathematics, 2015, 278, 101-109.	2.0	1
31	Lifetime Shortening and Fast Energyâ€Tansfer Processes upon Dimerization of a Aâ€Ï€â€Dâ€Ï€â€A Molecule. ChemPhysChem, 2014, 15, 310-319.	2.1	0
32	Computational Study of Environmental Effects on Torsional Free Energy Surface of N-Acetyl-N′-methyl-l-alanylamide Dipeptide. Journal of Chemical Education, 2014, 91, 96-102.	2.3	11
33	Bulky toroidal and vesicular self-assembled nanostructures from fullerene end-capped rod-like polymers. Chemical Communications, 2014, 50, 4571-4574.	4.1	20
34	Photoresponsive Supramolecular Architectures Based on Polypeptide Hybrids. Macromolecules, 2014, 47, 7272-7283.	4.8	13
35	Looking for some free energy? Call JEFREE (…). Journal of Computational Chemistry, 2014, 35, 1865-1881.	3.3	12
36	Analysis of ¹⁵ N– ¹ H NMR Relaxation in Proteins by a Combined Experimental and Molecular Dynamics Simulation Approach: Picosecond–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.	2.6	28

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37	Computational tools for the interpretation of electron spin resonance spectra in solution. Molecular Physics, 2013, 111, 2746-2756.	1.7	18
38	Sorting Nanoparticles by Centrifugal Fields in Clean Media. Journal of Physical Chemistry C, 2013, 117, 13217-13229.	3.1	83
39	Stochastic Modeling of Flexible Biomolecules Applied to NMR Relaxation. I. Internal Dynamics of Cyclodextrins: γ-Cyclodextrin as a Case Study. Journal of Physical Chemistry B, 2012, 116, 13159-13171.	2.6	12
40	Interpretation of cw-ESR spectra of p-methyl-thio-phenyl-nitronyl nitroxide in a nematic liquid crystalline phase. Physical Chemistry Chemical Physics, 2012, 14, 3200.	2.8	7
41	SRLS Analysis of ¹⁵ N Spin Relaxation from <i>E. coli</i> Ribonuclease HI: The Tensorial Perspective. Journal of Physical Chemistry B, 2012, 116, 886-894.	2.6	15
42	Stochastic Modeling of Flexible Biomolecules Applied to NMR Relaxation. 2. Interpretation of Complex Dynamics in Linear Oligosaccharides. Journal of Physical Chemistry B, 2012, 116, 14541-14555.	2.6	19
43	<i>In Silico</i> Interpretation of cw-ESR at 9 and 95 GHz of Mono- and bis- TOAC-Labeled Aib-Homopeptides in Fluid and Frozen Acetonitrile. Journal of Physical Chemistry B, 2011, 115, 13026-13036.	2.6	5
44	Backbone Dynamics of Deoxy and Carbonmonoxy Hemoglobin by NMR/SRLS. Journal of Physical Chemistry B, 2011, 115, 143-157.	2.6	13
45	Integrated Computational Approach to the Analysis of NMR Relaxation in Proteins: Application to psâ^'ns Main Chain ¹⁵ Nâ^' ¹ H and Global Dynamics of the Rho GTPase Binding Domain of Plexin-B1. Journal of Physical Chemistry B, 2011, 115, 376-388.	2.6	32
46	C++OPPS, a new software for the interpretation of protein dynamics from nuclear magnetic resonance measurements. International Journal of Quantum Chemistry, 2010, 110, 387-405.	2.0	9
47	Hydrodynamic modeling of diffusion tensor properties of flexible molecules. Journal of Computational Chemistry, 2009, 30, 2-13.	3.3	36
48	Simulation of electron spin resonance spectroscopy in diverse environments: An integrated approach. Computer Physics Communications, 2009, 180, 2680-2697.	7.5	20
49	An integrated approach to NMR spin relaxation in flexible biomolecules: Application to β-D-glucopyranosyl-(1→6)-α-D-mannopyranosyl-OMe. Journal of Chemical Physics, 2009, 131, 234501.	3.0	27
50	General Theoretical/Computational Tool for Interpreting NMR Spin Relaxation in Proteins. Journal of Physical Chemistry B, 2009, 113, 13613-13625.	2.6	50
51	Modeling of cw-EPR Spectra of Propagating Radicals in Methacrylic Polymerization at Different Temperatures. Journal of Physical Chemistry B, 2008, 112, 11202-11208.	2.6	13
52	On the interpretation of continuous wave electron spin resonance spectra of tempo-palmitate in 5-cyanobiphenyl. Journal of Chemical Physics, 2008, 128, 024501.	3.0	20
53	Unraveling Solvent-Driven Equilibria between α- and 3 ₁₀ -Helices through an Integrated Spin Labeling and Computational Approach. Journal of the American Chemical Society, 2007, 129, 11248-11258.	13.7	40
54	Ab InitioModeling of CW-ESR Spectra of the Double Spin Labeled Peptide Fmoc-(Aib-Aib-TOAC)2-Aib-OMe in Acetonitrile. Journal of Physical Chemistry B, 2007, 111, 2668-2674.	2.6	32

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55	Development and Validation of an Integrated Computational Approach for the Modeling of cw-ESR Spectra of Free Radicals in Solution:Âp-(Methylthio)phenyl Nitronylnitroxide in Toluene as a Case Study. Journal of the American Chemical Society, 2006, 128, 15865-15873.	13.7	38
56	Stochastic Modeling of CW-ESR Spectroscopy of [60]Fulleropyrrolidine Bisadducts with Nitroxide Probes. Journal of the American Chemical Society, 2006, 128, 4734-4741.	13.7	27