

Nathaniel V Nucci

List of Publications by Year in descending order

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26
papers

1,359
citations

471509

17
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

1797
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen Bonding and the Cryoprotective Properties of Glycerol/Water Mixtures. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13670-13677.	2.6	250
2	Site-resolved measurement of water-protein interactions by solution NMR. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 245-249.	8.2	212
3	Mapping the Hydration Dynamics of Ubiquitin. <i>Journal of the American Chemical Society</i> , 2011, 133, 12326-12329.	13.7	103
4	Coupled Motion in Proteins Revealed by Pressure Perturbation. <i>Journal of the American Chemical Society</i> , 2012, 134, 8543-8550.	13.7	99
5	Effects of salts of the Hofmeister series on the hydrogen bond network of water. <i>Journal of Molecular Liquids</i> , 2008, 143, 160-170.	4.9	83
6	Liquid and Ice Water and Glycerol/Water Glasses Compared by Infrared Spectroscopy from 295 to 12 K. <i>Journal of Physical Chemistry A</i> , 2004, 108, 11141-11150.	2.5	73
7	Role of cavities and hydration in the pressure unfolding of T ₄ lysozyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13846-13851.	7.1	71
8	Temperature Dependence of Hydrogen Bonding and Freezing Behavior of Water in Reverse Micelles. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18301-18309.	2.6	62
9	Changes in Water Structure Induced by the Guanidinium Cation and Implications for Protein Denaturation. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10939-10948.	2.5	61
10	Defining the Apoptotic Trigger. <i>Journal of Biological Chemistry</i> , 2015, 290, 30879-30887.	3.4	53
11	Optimized Reverse Micelle Surfactant System for High-Resolution NMR Spectroscopy of Encapsulated Proteins and Nucleic Acids Dissolved in Low Viscosity Fluids. <i>Journal of the American Chemical Society</i> , 2014, 136, 3465-3474.	13.7	50
12	Cloning and Characterization of a Functional Type II Gonadotropin-Releasing Hormone Receptor with a Lengthy Carboxy-Terminal Tail from an Ancestral Vertebrate, the Sea Lamprey. <i>Endocrinology</i> , 2005, 146, 3351-3361.	2.8	48
13	High-resolution NMR spectroscopy of encapsulated proteins dissolved in low-viscosity fluids. <i>Journal of Magnetic Resonance</i> , 2014, 241, 137-147.	2.1	36
14	Measurement and Control of pH in the Aqueous Interior of Reverse Micelles. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2020-2031.	2.6	33
15	Reverse Micelles As a Platform for Dynamic Nuclear Polarization in Solution NMR of Proteins. <i>Journal of the American Chemical Society</i> , 2014, 136, 2800-2807.	13.7	22
16	In situ Characterization of Gonadotropin-Releasing Hormone-I, -III, and Glutamic Acid Decarboxylase Expression in the Brain of the Sea Lamprey, <i>Petromyzon marinus</i> . <i>Brain, Behavior and Evolution</i> , 2005, 65, 60-70.	1.7	20
17	Optimization of NMR spectroscopy of encapsulated proteins dissolved in low viscosity fluids. <i>Journal of Biomolecular NMR</i> , 2011, 50, 421-30.	2.8	20
18	Pyrene-1-Carboxylate in Water and Glycerol Solutions: Origin of the Change of pK Upon Excitation. <i>Journal of Fluorescence</i> , 2008, 18, 41-49.	2.5	15

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19	Modification of encapsulation pressure of reverse micelles in liquid ethane. <i>Journal of Magnetic Resonance</i> , 2011, 212, 229-233.	2.1	12
20	Toward comprehensive measurement of protein hydration dynamics: Facilitation of NMR-based methods by reverse micelle encapsulation. <i>Methods</i> , 2018, 148, 146-153.	3.8	10
21	Protein conformational entropy is not slaved to water. <i>Scientific Reports</i> , 2020, 10, 17587.	3.3	8
22	Coupling of Complex Aromatic Ring Vibrations to Solvent through Hydrogen Bonds: Effect of Varied On-Ring and Off-Ring Hydrogen-Bonding Substitutions. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4022-4035.	2.6	6
23	Phosphate Assisted Proton Transfer in Water and Sugar Glasses: A Study Using Fluorescence of Pyrene-1-carboxylate and IR Spectroscopy. <i>Journal of Fluorescence</i> , 2009, 19, 21-31.	2.5	5
24	Reply to Kitahara and Mulder: An ensemble view of protein stability best explains pressure effects in a T4 lysozyme cavity mutant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E924-E924.	7.1	4
25	New insight on the S100A1-STIP1 complex highlights the important relationship between allostery and entropy in protein function. <i>Biochemical Journal</i> , 2017, 474, 2977-2980.	3.7	2
26	Optimization of Biocompatibility for a Hydrophilic Biological Molecule Encapsulation System. <i>Molecules</i> , 2022, 27, 1572.	3.8	1