

Antonio Benedetto

List of Publications by Citations

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45
papers

922
citations

18
h-index

29
g-index

61
ext. papers

1,102
ext. citations

3.2
avg, IF

5.1
L-index

#	Paper	IF	Citations
45	Room Temperature Ionic Liquids Meet Biomolecules: A Microscopic View of Structure and Dynamics. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 392-412	8.3	113
44	Puzzle of protein dynamical transition. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 7736-43	3.4	84
43	Structure and stability of phospholipid bilayers hydrated by a room-temperature ionic liquid/water solution: a neutron reflectometry study. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 12192-206	3.4	63
42	Mean square displacements from elastic incoherent neutron scattering evaluated by spectrometers working with different energy resolution on dry and hydrated (H ₂ O and D ₂ O) lysozyme. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 9268-74	3.4	53
41	Room-Temperature Ionic Liquids and Biomembranes: Setting the Stage for Applications in Pharmacology, Biomedicine, and Bionanotechnology. <i>Langmuir</i> , 2018 , 34, 9579-9597	4	49
40	Room-temperature ionic liquids meet bio-membranes: the state-of-the-art. <i>Biophysical Reviews</i> , 2017 , 9, 309-320	3.7	48
39	Structure and dynamics of POPC bilayers in water solutions of room temperature ionic liquids. <i>Journal of Chemical Physics</i> , 2015 , 142, 124706	3.9	41
38	Amino acid anions in organic ionic compounds. An ab initio study of selected ion pairs. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 2471-86	3.4	40
37	Elastic incoherent neutron scattering operating by varying instrumental energy resolution: principle, simulations, and experiments of the resolution elastic neutron scattering (RENS). <i>Review of Scientific Instruments</i> , 2011 , 82, 105115	1.7	37
36	Room temperature ionic liquids interacting with bio-molecules: an overview of experimental and computational studies. <i>Philosophical Magazine</i> , 2016 , 96, 870-894	1.6	32
35	Mechanisms of action of ionic liquids on living cells: the state of the art. <i>Biophysical Reviews</i> , 2020 , 12, 1187-1215	3.7	32
34	Thermal behaviour of hydrated lysozyme in the presence of sucrose and trehalose by EINS. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 664-670	3.9	27
33	Characterization of molecular motions in biomolecular systems by elastic incoherent neutron scattering. <i>Journal of Chemical Physics</i> , 2008 , 129, 155103	3.9	24
32	Bio-protective effects of homologous disaccharides on biological macromolecules. <i>European Biophysics Journal</i> , 2012 , 41, 361-7	1.9	23
31	Hydrogen-bond dynamics at the bio-water interface in hydrated proteins: a molecular-dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 318-329	3.6	21
30	Elastic incoherent neutron scattering on systems of biophysical interest: mean square displacement evaluation from self-distribution function. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 8936-42	3.4	21
29	Ionic liquids in protein amyloidogenesis: a brief screenshot of the state-of-the-art. <i>Biophysical Reviews</i> , 2018 , 10, 847-852	3.7	20

28	Mean square displacement evaluation by elastic neutron scattering self-distribution function. <i>Physical Review E</i> , 2008 , 77, 061802	2.4	19
27	Biomolecular motion characterization by a self-distribution-function procedure in elastic incoherent neutron scattering. <i>Physical Review E</i> , 2009 , 79, 041915	2.4	15
26	Motion characterization by self-distribution-function procedure. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010 , 1804, 49-55	4	15
25	Mean square displacement from self-distribution function evaluation by elastic incoherent neutron scattering. <i>Journal of Molecular Structure</i> , 2008 , 882, 140-145	3.4	15
24	Elastic Scattering Spectroscopy (ESS): an Instrument-Concept for Dynamics of Complex (Bio-) Systems From Elastic Neutron Scattering. <i>Scientific Reports</i> , 2016 , 6, 34266	4.9	13
23	Sub-Toxic Concentrations of Ionic Liquids Enhance Cell Migration by Reducing the Elasticity of the Cellular Lipid Membrane. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7327-7333	6.4	13
22	Low-Temperature Decoupling of Water and Protein Dynamics Measured by Neutron Scattering. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4883-4886	6.4	12
21	An overview of neutron scattering and molecular dynamics simulation studies of phospholipid bilayers in room-temperature ionic liquid/water solutions. <i>Physica B: Condensed Matter</i> , 2018 , 551, 227-231	2.8	12
20	The transition from salt-in-water to water-in-salt nanostructures in water solutions of organic ionic liquids relevant for biological applications. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 944-959	3.6	7
19	Protein dynamics by neutron scattering: The protein dynamical transition and the fragile-to-strong dynamical crossover in hydrated lysozyme. <i>Chemical Physics</i> , 2013 , 424, 26-31	2.3	6
18	Protein dynamics by neutron scattering. <i>Biophysical Chemistry</i> , 2013 , 182, 16-22	3.5	6
17	Overview of the "Ionic Liquids meet Biomolecules" session at the 19th international IUPAB and 11th EBSA congress. <i>Biophysical Reviews</i> , 2017 , 9, 279-281	3.7	6
16	Density Functional Computations and Molecular Dynamics Simulations of the Triethylammonium Triflate Protic Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 11410-11423	3.4	6
15	Response to Comment on Elastic incoherent neutron scattering operating by varying instrumental energy resolution: Principle, simulations, and experiments of the resolution elastic neutron scattering (RENS) [Rev. Sci. Instrum. 83, 107101 (2012)]. <i>Review of Scientific Instruments</i> , 2012 , 83, 107102	1.7	6
14	Controlling the mechanoelasticity of model biomembranes with room-temperature ionic liquids. <i>Biophysical Reviews</i> , 2018 , 10, 751-756	3.7	6
13	Dynamics from elastic neutron-scattering via direct measurement of the running time-integral of the van Hove distribution function. <i>Scientific Reports</i> , 2019 , 9, 11284	4.9	4
12	Reply to Comment on 'Puzzle of the Protein Dynamical Transition' [Journal of Physical Chemistry B, 2012 , 116, 6068-6069]	3.4	4
11	Self-distribution-function procedure in elastic incoherent neutron scattering for biosystems molecular motion characterization. <i>Spectroscopy</i> , 2010 , 24, 387-391		3

10	A Quantitative Comparison of the Counting Significance of van Hove Integral Spectroscopy and Quasielastic Neutron Scattering. <i>Scientific Reports</i> , 2020 , 10, 6350	4.9	3
9	Computational analysis of the effect of [Tea][Ms] and [Tea][HPO] ionic liquids on the structure and stability of A β (17-42) amyloid fibrils. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 6695-6709	3.6	3
8	Equilibrium Structure, Hydrogen Bonding, and Proton Conductivity in Half-Neutralized Diamine Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 5608-5625	3.4	2
7	Elastic and quasi-elastic incoherent neutron scattering: an integrated experimental, theoretical and simulative approach on systems of biophysical interest of increasing complexity. <i>AIP Conference Proceedings</i> , 2007 ,	0	2
6	Resolution Effects on the Mean Square Displacement as Obtained by the Self-Distribution-Function Procedure. <i>Journal of Physics: Conference Series</i> , 2012 , 340, 012093	0.3	1
5	Experimental demonstration of the novel "van-Hove integral method (vHI)" for measuring diffusive dynamics by elastic neutron scattering. <i>Scientific Reports</i> , 2021 , 11, 14093	4.9	1
4	From protein and its hydration water dynamics to controlling mechano-elasticity of cellular lipid membranes and cell migration via ionic liquids. <i>Biophysical Reviews</i> , 2020 , 12, 1111-1115	3.7	0
3	Stiffening Effect of the [Bmim][Cl] Ionic Liquid on the Bending Dynamics of DMPC Lipid Vesicles. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 7241-7250	3.4	0
2	Retraction notice to "Protein dynamics by neutron scattering" [Biophysical Chemistry 182 (2013) 16-22]. <i>Biophysical Chemistry</i> , 2016 , 209, 56	3.5	
1	Retraction of the article "Protein dynamics by neutron scattering" published in Biophysical Chemistry 2013, 182, 16-22. <i>Biophysical Chemistry</i> , 2014 , 185, 108	3.5	