

Donatella Bulone

List of Publications by Year in descending order

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96
papers

2,524
citations

172386

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98
docs citations

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times ranked

2966
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics of Different Processes in Human Insulin Amyloid Formation. <i>Journal of Molecular Biology</i> , 2007, 366, 258-274.	2.0	163
2	Thermoreversible gelation of \hat{I}^2 -Carrageenan: relation between conformational transition and aggregation. <i>Biophysical Chemistry</i> , 2003, 104, 95-105.	1.5	137
3	K ⁺ and Na ⁺ effects on the gelation properties of \hat{I}^2 -Carrageenan. <i>Biophysical Chemistry</i> , 2005, 113, 129-135.	1.5	114
4	Protofibril Formation of Amyloid \hat{I}^2 -Protein at Low pH via a Non-cooperative Elongation Mechanism. <i>Journal of Biological Chemistry</i> , 2005, 280, 30001-30008.	1.6	106
5	Pectin from <i>Opuntia ficus indica</i> : Optimization of microwave-assisted extraction and preliminary characterization. <i>Food Chemistry</i> , 2017, 221, 91-99.	4.2	76
6	Interaction of processes on different length scales in a bioelastomer capable of performing energy conversion. <i>Biopolymers</i> , 2001, 59, 51-64.	1.2	65
7	Kinetics of Insulin Aggregation: Disentanglement of Amyloid Fibrillation from Large-Size Cluster Formation. <i>Biophysical Journal</i> , 2006, 90, 4585-4591.	0.2	65
8	Spontaneous symmetry-breaking pathways: time-resolved study of agarose gelation. <i>Food Hydrocolloids</i> , 1996, 10, 91-97.	5.6	59
9	The Interplay between PolyQ and Protein Context Delays Aggregation by Forming a Reservoir of Protofibrils. <i>PLoS ONE</i> , 2006, 1, e111.	1.1	58
10	Self-assembly of biopolymeric structures below the threshold of random cross-link percolation. <i>Biophysical Journal</i> , 1996, 70, 494-499.	0.2	57
11	Chaperonin of Group I: Oligomeric Spectrum and Biochemical and Biological Implications. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 99.	1.6	54
12	Different effects of Alzheimer's peptide $A\hat{I}^2(1\hat{A}^{\epsilon}40)$ oligomers and fibrils on supported lipid membranes. <i>Biophysical Chemistry</i> , 2013, 182, 23-29.	1.5	51
13	Inhibiting effect of $\hat{I}^{\pm}1$ -casein on $A\hat{I}^21\hat{A}^{\epsilon}40$ fibrillogenesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 124-132.	1.1	49
14	Quantification of Underivatized Fatty Acids From Vegetable Oils by HPLC with UV Detection. <i>Journal of Chromatographic Science</i> , 2010, 48, 663-668.	0.7	48
15	Hsp60, amateur chaperone in amyloid-beta fibrillogenesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2474-2483.	1.1	48
16	Human Hsp60 with Its Mitochondrial Import Signal Occurs in Solution as Heptamers and Tetradecamers Remarkably Stable over a Wide Range of Concentrations. <i>PLoS ONE</i> , 2014, 9, e97657.	1.1	46
17	Amyloid \hat{I}^2 -peptide insertion in liposomes containing GM1-cholesterol domains. <i>Biophysical Chemistry</i> , 2016, 208, 9-16.	1.5	45
18	Interacting processes in protein coagulation. , 1999, 37, 116-120.		44

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19	Effects of intermediates on aggregation of native bovine serum albumin. <i>Biophysical Chemistry</i> , 2001, 91, 61-69.	1.5	44
20	Minimalism in Radiation Synthesis of Biomedical Functional Nanogels. <i>Biomacromolecules</i> , 2012, 13, 1805-1817.	2.6	40
21	Immunomorphological Pattern of Molecular Chaperones in Normal and Pathological Thyroid Tissues and Circulating Exosomes: Potential Use in Clinics. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4496.	1.8	39
22	Curcumin-like compounds designed to modify amyloid beta peptide aggregation patterns. <i>RSC Advances</i> , 2017, 7, 31714-31724.	1.7	38
23	The role of water in hemoglobin function and stability. <i>Science</i> , 1993, 259, 1335-1336.	6.0	36
24	Multiple interactions between molecular and supramolecular ordering. <i>Physical Review E</i> , 1999, 59, 2222-2230.	0.8	35
25	Microgel regions in dilute agarose solutions: the notion of non-gelling concentration, and the role of spinodal demixing. <i>Chemical Physics Letters</i> , 1991, 179, 339-343.	1.2	34
26	Multi-Functional Nanogels for Tumor Targeting and Redox-Sensitive Drug and siRNA Delivery. <i>Molecules</i> , 2016, 21, 1594.	1.7	34
27	Synergistic interaction of Locust Bean Gum and Xanthan investigated by rheology and light scattering. <i>Carbohydrate Polymers</i> , 2010, 82, 733-741.	5.1	32
28	Thermodynamic instability in supersaturated lysozyme solutions: Effect of salt and role of concentration fluctuations. <i>Physical Review E</i> , 2003, 68, 011904.	0.8	31
29	Detection of flavour release from pectin gels using electronic noses. <i>Sensors and Actuators B: Chemical</i> , 2004, 101, 28-38.	4.0	31
30	Photo-inhibition of A β fibrillation mediated by a newly designed fluorinated oxadiazole. <i>RSC Advances</i> , 2015, 5, 16540-16548.	1.7	31
31	Structure of e-beam sculptured poly(N-vinylpyrrolidone) networks across different length-scales, from macro to nano. <i>Polymer</i> , 2013, 54, 54-64.	1.8	29
32	Interaction between external medium and haem pocket in myoglobin probed by low-temperature optical spectroscopy. <i>Journal of Molecular Biology</i> , 1988, 199, 213-218.	2.0	28
33	Physics and biophysics of solvent induced forces: hydrophobic interactions and context-dependent hydration. <i>European Biophysics Journal</i> , 1998, 27, 183-196.	1.2	28
34	Ordering of agarose near the macroscopic gelation point. <i>Physical Review E</i> , 2004, 69, 041401.	0.8	28
35	Oligonucleotides decorated poly(N-vinyl pyrrolidone) nanogels for gene delivery. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	28
36	Density, structural lifetime, and entropy of H-bond cages promoted by monohydric alcohols in normal and supercooled water. <i>Journal of Chemical Physics</i> , 1991, 94, 6816-6826.	1.2	27

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37	Collective properties of hydration: long range and specificity of hydrophobic interactions. <i>Biophysical Journal</i> , 1997, 73, 31-37.	0.2	27
38	Synaptosomes: new vesicles for neuronal mitochondrial transplantation. <i>Journal of Nanobiotechnology</i> , 2021, 19, 6.	4.2	26
39	The role of sucrose concentration in self-assembly kinetics of high methoxyl pectin. <i>International Journal of Biological Macromolecules</i> , 2018, 112, 1183-1190.	3.6	25
40	Role of Sucrose in Pectin Gelation: A Static and Dynamic Light Scattering Experiments. <i>Macromolecules</i> , 2002, 35, 8147-8151.	2.2	24
41	Studies of network organization and dynamics of e-beam crosslinked PVPs: From macro to nano. <i>Radiation Physics and Chemistry</i> , 2012, 81, 1349-1353.	1.4	24
42	Î±-Casein Inhibits Insulin Amyloid Formation by Preventing the Onset of Secondary Nucleation Processes. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3043-3048.	2.1	24
43	High-energy radiation processing, a smart approach to obtain PVP-graft-AA nanogels. <i>Radiation Physics and Chemistry</i> , 2014, 94, 76-79.	1.4	24
44	Spinodal demixing, percolation and gelation of biostructural polymers. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1990, 40, 33-44.	0.6	23
45	Recombinant mussel protein Pvf-p-5Î²: A potential tissue bioadhesive. <i>Journal of Biological Chemistry</i> , 2019, 294, 12826-12835.	1.6	23
46	Effects of electric charges on hydrophobic forces. <i>Physical Review E</i> , 2000, 62, 6799-6809.	0.8	20
47	Irreversible gelation of thermally unfolded proteins: structural and mechanical properties of lysozyme aggregates. <i>European Biophysics Journal</i> , 2010, 39, 1007-1017.	1.2	20
48	Novel hydrogels based on a polyasparthydrazide. Synthesis and characterization. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 2542-2549.	1.1	18
49	Role of Charges and Solvent on the Conformational Properties of Poly(galacturonic acid) Chains: A Molecular Dynamics Study. <i>Biomacromolecules</i> , 2005, 6, 2555-2562.	2.6	18
50	E-beam irradiation and UV photocrosslinking of microemulsion-laden poly(N-vinyl-2-pyrrolidone) hydrogels for <i>in situ</i> encapsulation of volatile hydrophobic compounds. <i>Polymer Chemistry</i> , 2011, 2, 192-202.	1.9	18
51	Viscosity of aqueous solutions of monohydric alcohols in the normal and supercooled states. <i>Journal of Chemical Physics</i> , 1989, 91, 408-415.	1.2	17
52	Enthalpic and entropic contributions of water molecules to the functional T â†’ R transition of human hemoglobin in solution. <i>International Journal of Quantum Chemistry</i> , 1992, 42, 1427-1437.	1.0	17
53	Mesoscopic gel at low agarose concentration in water: a dynamic light scattering study. <i>Biophysical Journal</i> , 1995, 68, 1569-1573.	0.2	16
54	Effects of electric charges on hydrophobic forces. <i>Physical Review E</i> , 1997, 56, R4939-R4942.	0.8	16

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55	Potential of mean force between two ions in a sucrose rich aqueous solution. <i>Chemical Physics Letters</i> , 2000, 329, 221-227.	1.2	16
56	Correlation between rheological properties and limonene release in pectin gels using an electronic nose. <i>Food Hydrocolloids</i> , 2008, 22, 916-924.	5.6	15
57	The complex mechanism of HM pectin self-assembly: A rheological investigation. <i>Carbohydrate Polymers</i> , 2016, 146, 181-186.	5.1	15
58	Î±-Casein Inhibition Mechanism in Concanavalin A Aggregation Process. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14700-14707.	1.2	14
59	Physico-chemical and mechanical characterization of in-situ forming xyloglucan gels incorporating a growth factor to promote cartilage reconstruction. <i>Materials Science and Engineering C</i> , 2017, 70, 745-752.	3.8	14
60	Relation between structural and release properties in a polysaccharide gel system. <i>Biophysical Chemistry</i> , 2007, 129, 18-22.	1.5	13
61	Temporal control of xyloglucan self-assembly into layered structures by radiation-induced degradation. <i>Carbohydrate Polymers</i> , 2016, 152, 382-390.	5.1	13
62	Biochemical and biophysical characterization of water-soluble pectin from <i>Opuntia ficus-indica</i> and its potential cytotoxic activity. <i>Phytochemistry</i> , 2018, 154, 47-55.	1.4	13
63	Conformational and functional properties of hemoglobin in water-organic cosolvent mixtures: Effect of ethylene glycol and glycerol on oxygen affinity. <i>Biopolymers</i> , 1983, 22, 119-123.	1.2	12
64	Electronic Nose Screening of Limonene Release from Multicomponent Essential Oils Encapsulated in Pectin Gels. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2004, 7, 337-344.	0.6	12
65	Effects of solvent perturbation on gelation driven by spinodal demixing. <i>Biophysical Chemistry</i> , 1999, 77, 1-8.	1.5	10
66	Structure and biological evaluation of amino-functionalized PVP nanogels for fast cellular internalization. <i>Reactive and Functional Polymers</i> , 2013, 73, 1103-1113.	2.0	10
67	Temperature-induced self-assembly of degalactosylated xyloglucan at low concentration. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 1727-1735.	2.4	10
68	Ergodic to non-ergodic transition monitored by scattered light intensity statistics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 341, 40-54.	1.2	9
69	Stability and disassembly properties of human α -Hsp60 and bacterial GroEL chaperonins. <i>Biophysical Chemistry</i> , 2016, 208, 68-75.	1.5	8
70	Entrapment of α -40peptide in unstructured aggregates. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 244103.	0.7	7
71	The degree of compactness of the incipient High Methoxyl Pectin networks. A rheological insight at the sol-gel transition. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 985-993.	3.6	7
72	Multi-scale structural analysis of xyloglucan colloidal dispersions and hydro-alcoholic gels. <i>Cellulose</i> , 2020, 27, 3025-3035.	2.4	7

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73	Water-mediated interactions of biosolutes: Aspects of dynamics, structure, and configuration lifetime of the solvent.. Journal of Molecular Liquids, 1993, 58, 129-155.	2.3	6
74	Influence of gamma-irradiation on thermally-induced mesoscopic gelation of degalactosylated xyloglucans. Radiation Physics and Chemistry, 2014, 94, 245-248.	1.4	6
75	Mesoscopic gels at low agarose concentration: perturbation effects of ethanol. Biophysical Journal, 1997, 72, 388-394.	0.2	5
76	Solvent-Induced Free Energy Landscape and Solute-Solvent Dynamic Coupling in a Multielement Solute. Biophysical Journal, 1999, 77, 2470-2478.	0.2	5
77	Quantitative analysis of the impact of a human pathogenic mutation on the CCT5 chaperonin subunit using a proxy archaeal ortholog. Biochemistry and Biophysics Reports, 2017, 12, 66-71.	0.7	5
78	Physical Origin and Biological Significance of Solvent Induced Forces. , 1994, , 457-479.		5
79	Recovery from Food Wasteâ€”Biscuit Doughs Enriched with Pomegranate Peel Powder as a Model of Fortified Aliment. Biology, 2022, 11, 416.	1.3	5
80	Recombinant mussel protein Pvfp5 ¹² enhances cell adhesion of poly(vinyl alcohol)/k-carrageenan hydrogel scaffolds. International Journal of Biological Macromolecules, 2022, 211, 639-652.	3.6	5
81	Corrigendum to â€œKinetics of Different Processes in Human Insulin Amyloid Formationâ€-[J. Mol. Biol. 366/1 (2007) 258-274]. Journal of Molecular Biology, 2011, 406, 354.	2.0	3
82	The role of solvent-induced forces in biomolecular function and stability. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1993, 15, 443-450.	0.4	2
83	Transputer-based upgrading of a differential scanning calorimeter. Measurement Science and Technology, 1994, 5, 1443-1447.	1.4	2
84	Thermodynamic instability and off-critical slowing down in supersaturated lysozyme solutions. Journal of Physics Condensed Matter, 2004, 16, S5023-S5033.	0.7	2
85	A statistical light scattering approach to separating fast and slow dynamics. European Biophysics Journal, 2007, 36, 743-752.	1.2	2
86	Moringa oleifera Leaf Powder as Functional Additive in Cookies to Protect SH-SY5Y Cells. Applied Sciences (Switzerland), 2021, 11, 9995.	1.3	2
87	Curcumin-Like Compounds Designed to Modify Amyloid Beta Peptide Aggregation Pattern. Biophysical Journal, 2016, 110, 203a.	0.2	1
88	Structure and Stability of Hsp60 and Groel in Solution. Biophysical Journal, 2016, 110, 368a.	0.2	1
89	On the Sucrose-Induced Self-Assembly Kinetics of HM Pectin. Biophysical Journal, 2018, 114, 363a.	0.2	1
90	A Multipronged Method for Unveiling Subtle Structuralâ€“Functional Defects of Mutant Chaperone Molecules Causing Human Chaperonopathies. Methods in Molecular Biology, 2019, 1873, 69-92.	0.4	1

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91	Micro- and mesoscopic process interactions in protein coagulation. AIP Conference Proceedings, 2000, , .	0.3	0
92	Intrinsic Disorder and Chaperon-Like Activity of Different Caseins. Biophysical Journal, 2013, 104, 389a.	0.2	0
93	(DIS)Assembly and Structural Stability of mtHsp60 and its Precursor Naïve Form. Biophysical Journal, 2015, 108, 502a.	0.2	0
94	Investigation on Structural Features and Antiaggregation Properties of Chaperonins and Chaperon Like Molecules. Biophysical Journal, 2016, 110, 213a-214a.	0.2	0
95	Data concerning the rheological behavior of high methoxyl pectin during gelation process. Data in Brief, 2018, 18, 1628-1631.	0.5	0
96	APPLICATIONS OF OPTICAL SENSORS TO THE DETECTION OF LIGHT SCATTERED FROM GELLING SYSTEMS. Series in Optics and Photonics, 2009, , 515-535.	0.1	0