Donatella Bulone

List of Publications by Year
in descending order

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96 papers	2,524 citations	172457 29 h-index	233421 45 g-index
98 all docs	98 docs citations	98 times ranked	2966 citing authors

#	Article	IF	Citations
1	Recovery from Food Wasteâ€"Biscuit Doughs Enriched with Pomegranate Peel Powder as a Model of Fortified Aliment. Biology, 2022, 11, 416.	2.8	5
2	Recombinant mussel protein Pvfp5Î² enhances cell adhesion of poly(vinyl alcohol)/ĸ-carrageenan hydrogel scaffolds. International Journal of Biological Macromolecules, 2022, 211, 639-652.	7.5	5
3	Synaptosomes: new vesicles for neuronal mitochondrial transplantation. Journal of Nanobiotechnology, 2021, 19, 6.	9.1	26
4	Moringa oleifera Leaf Powder as Functional Additive in Cookies to Protect SH-SY5Y Cells. Applied Sciences (Switzerland), 2021, 11, 9995.	2.5	2
5	The degree of compactness of the incipient High Methoxyl Pectin networks. A rheological insight at the sol-gel transition. International Journal of Biological Macromolecules, 2020, 158, 985-993.	7.5	7
6	Multi-scale structural analysis of xyloglucan colloidal dispersions and hydro-alcoholic gels. Cellulose, 2020, 27, 3025-3035.	4.9	7
7	Recombinant mussel protein Pvfp-5Î²: A potential tissue bioadhesive. Journal of Biological Chemistry, 2019, 294, 12826-12835.	3.4	23
8	Immunomorphological Pattern of Molecular Chaperones in Normal and Pathological Thyroid Tissues and Circulating Exosomes: Potential Use in Clinics. International Journal of Molecular Sciences, 2019, 20, 4496.	4.1	39
9	A Multipronged Method for Unveiling Subtle Structuralâ€"Functional Defects of Mutant Chaperone Molecules Causing Human Chaperonopathies. Methods in Molecular Biology, 2019, 1873, 69-92.	0.9	1
10	The role of sucrose concentration in self-assembly kinetics of high methoxyl pectin. International Journal of Biological Macromolecules, 2018, 112, 1183-1190.	7.5	25
11	Data concerning the rheological behavior of high methoxyl pectin during gelation process. Data in Brief, 2018, 18, 1628-1631.	1.0	0
12	On the Sucrose-Induced Self-Assembly Kinetics of HM Pectin. Biophysical Journal, 2018, 114, 363a.	0.5	1
13	Biochemical and biophysical characterization of water-soluble pectin from Opuntia ficus-indica and its potential cytotoxic activity. Phytochemistry, 2018, 154, 47-55.	2.9	13
14	Curcumin-like compounds designed to modify amyloid beta peptide aggregation patterns. RSC Advances, 2017, 7, 31714-31724.	3.6	38
15	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.	1.3	5
16	Pectin from Opuntia ficus indica: Optimization of microwave-assisted extraction and preliminary characterization. Food Chemistry, 2017, 221, 91-99.	8.2	76
17	Physico-chemical and mechanical characterization of in-situ forming xyloglucan gels incorporating a growth factor to promote cartilage reconstruction. Materials Science and Engineering C, 2017, 70, 745-752.	7.3	14
18	Chaperonin of Group I: Oligomeric Spectrum and Biochemical and Biological Implications. Frontiers in Molecular Biosciences, 2017, 4, 99.	3.5	54

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19	Multi-Functional Nanogels for Tumor Targeting and Redox-Sensitive Drug and siRNA Delivery. Molecules, 2016, 21, 1594.	3.8	34
20	The complex mechanism of HM pectin self-assembly: A rheological investigation. Carbohydrate Polymers, 2016, 146, 181-186.	10.2	15
21	Temporal control of xyloglucan self-assembly into layered structures by radiation-induced degradation. Carbohydrate Polymers, 2016, 152, 382-390.	10.2	13
22	Hsp60, amateur chaperone in amyloid-beta fibrillogenesis. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 2474-2483.	2.4	48
23	Curcumin-Like Compounds Designed to Modify Amyloid Beta Peptide Aggregation Pattern. Biophysical Journal, 2016, 110, 203a.	0.5	1
24	Structure and Stability of Hsp60 and Groel in Solution. Biophysical Journal, 2016, 110, 368a.	0.5	1
25	Investigation on Structural Features and Antiaggregation Properties of Chaperonins and Chaperon Like Molecules. Biophysical Journal, 2016, 110, 213a-214a.	0.5	0
26	Stability and disassembly properties of human naÃ¯ve Hsp60 and bacterial GroEL chaperonins. Biophysical Chemistry, 2016, 208, 68-75.	2.8	8
27	Amyloid Î²-peptide insertion in liposomes containing GM1-cholesterol domains. Biophysical Chemistry, 2016, 208, 9-16.	2.8	45
28	(DIS)Assembly and Structural Stability of mtHsp60 and its Precursor NaÃ¯ve Form. Biophysical Journal, 2015, 108, 502a.	0.5	0
29	Temperature-induced self-assembly of degalactosylated xyloglucan at low concentration. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1727-1735.	2.1	10
30	Photo-inhibition of AÎ² fibrillation mediated by a newly designed fluorinated oxadiazole. RSC Advances, 2015, 5, 16540-16548.	3.6	31
31	Influence of gamma-irradiation on thermally-induced mesoscopic gelation of degalactosylated xyloglucans. Radiation Physics and Chemistry, 2014, 94, 245-248.	2.8	6
32	Î±-Casein Inhibits Insulin Amyloid Formation by Preventing the Onset of Secondary Nucleation Processes. Journal of Physical Chemistry Letters, 2014, 5, 3043-3048.	4.6	24
33	High-energy radiation processing, a smart approach to obtain PVP-graft-AA nanogels. Radiation Physics and Chemistry, 2014, 94, 76-79.	2.8	24
34	Oligonucleotidesâ€decoratedâ€poly(Nâ€vinyl pyrrolidone) nanogels for gene delivery. Journal of Applied Polymer Science, 2014, 131, .	2.6	28
35	Human Hsp60 with Its Mitochondrial Import Signal Occurs in Solution as Heptamers and Tetradecamers Remarkably Stable over a Wide Range of Concentrations. PLoS ONE, 2014, 9, e97657.	2.5	46
36	Intrinsic Disorder and Chaperon-Like Activity of Different Caseins. Biophysical Journal, 2013, 104, 389a.	0.5	0

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37	Different effects of Alzheimer's peptide AÎ²(1â€“40) oligomers and fibrils on supported lipid membranes. Biophysical Chemistry, 2013, 182, 23-29.	2.8	51
38	Structure of e-beam sculptured poly(N-vinylpyrrolidone) networks across different length-scales, from macro to nano. Polymer, 2013, 54, 54-64.	3.8	29
39	Structure and biological evaluation of amino-functionalized PVP nanogels for fast cellular internalization. Reactive and Functional Polymers, 2013, 73, 1103-1113.	4.1	10
40	Entrapment of AÎ²1â^'40peptide in unstructured aggregates. Journal of Physics Condensed Matter, 2012, 24, 244103.	1.8	7
41	Î±-Casein Inhibition Mechanism in Concanavalin A Aggregation Process. Journal of Physical Chemistry B, 2012, 116, 14700-14707.	2.6	14
42	Studies of network organization and dynamics of e-beam crosslinked PVPs: From macro to nano. Radiation Physics and Chemistry, 2012, 81, 1349-1353.	2.8	24
43	Inhibiting effect of Î±s1-casein on AÎ²1â€“40 fibrillogenesis. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 124-132.	2.4	49
44	Minimalism in Radiation Synthesis of Biomedical Functional Nanogels. Biomacromolecules, 2012, 13, 1805-1817.	5.4	40
45	E-beam irradiation and UV photocrosslinking of microemulsion-laden poly(N-vinyl-2-pyrrolidone) hydrogels for â€œin situâ€•encapsulation of volatile hydrophobic compounds. Polymer Chemistry, 2011, 2, 192-202.	3.9	18
46	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.	4.2	3
47	Irreversible gelation of thermally unfolded proteins: structural and mechanical properties of lysozyme aggregates. European Biophysics Journal, 2010, 39, 1007-1017.	2.2	20
48	Synergistic interaction of Locust Bean Gum and Xanthan investigated by rheology and light scattering. Carbohydrate Polymers, 2010, 82, 733-741.	10.2	32
49	Quantification of Underivatized Fatty Acids From Vegetable Oils by HPLC with UV Detection. Journal of Chromatographic Science, 2010, 48, 663-668.	1.4	48
50	APPLICATIONS OF OPTICAL SENSORS TO THE DETECTION OF LIGHT SCATTERED FROM GELLING SYSTEMS. Series in Optics and Photonics, 2009, , 515-535.	0.1	0
51	Correlation between rheological properties and limonene release in pectin gels using an electronic nose. Food Hydrocolloids, 2008, 22, 916-924.	10.7	15
52	Kinetics of Different Processes in Human Insulin Amyloid Formation. Journal of Molecular Biology, 2007, 366, 258-274.	4.2	163
53	Relation between structural and release properties in a polysaccharide gel system. Biophysical Chemistry, 2007, 129, 18-22.	2.8	13
54	A statistical light scattering approach to separating fast and slow dynamics. European Biophysics Journal, 2007, 36, 743-752.	2.2	2

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55	Kinetics of Insulin Aggregation: Disentanglement of Amyloid Fibrillation from Large-Size Cluster Formation. Biophysical Journal, 2006, 90, 4585-4591.	0.5	65
56	The Interplay between PolyQ and Protein Context Delays Aggregation by Forming a Reservoir of Protofibrils. PLoS ONE, 2006, 1, e111.	2.5	58
57	K+ and Na+ effects on the gelation properties of Î²-Carrageenan. Biophysical Chemistry, 2005, 113, 129-135.	2.8	114
58	Protofibril Formation of Amyloid Î²-Protein at Low pH via a Non-cooperative Elongation Mechanism. Journal of Biological Chemistry, 2005, 280, 30001-30008.	3.4	106
59	Role of Charges and Solvent on the Conformational Properties of Poly(galacturonic acid) Chains:Â A Molecular Dynamics Study. Biomacromolecules, 2005, 6, 2555-2562.	5.4	18
60	Thermodynamic instability and off-critical slowing down in supersaturated lysozyme solutions. Journal of Physics Condensed Matter, 2004, 16, S5023-S5033.	1.8	2
61	Ordering of agarose near the macroscopic gelation point. Physical Review E, 2004, 69, 041401.	2.1	28
62	Detection of flavour release from pectin gels using electronic noses. Sensors and Actuators B: Chemical, 2004, 101, 28-38.	7.8	31
63	Ergodic to non-ergodic transition monitored by scattered light intensity statistics. Physica A: Statistical Mechanics and Its Applications, 2004, 341, 40-54.	2.6	9
64	Electronic Nose Screening of Limonene Release from Multicomponent Essential Oils Encapsulated in Pectin Gels. Combinatorial Chemistry and High Throughput Screening, 2004, 7, 337-344.	1.1	12
65	Thermoreversible gelation of Î²-Carrageenan: relation between conformational transition and aggregation. Biophysical Chemistry, 2003, 104, 95-105.	2.8	137
66	Thermodynamic instability in supersaturated lysozyme solutions: Effect of salt and role of concentration fluctuations. Physical Review E, 2003, 68, 011904.	2.1	31
67	Role of Sucrose in Pectin Gelation:Â Static and Dynamic Light Scattering Experiments. Macromolecules, 2002, 35, 8147-8151.	4.8	24
68	Effects of intermediates on aggregation of native bovine serum albumin. Biophysical Chemistry, 2001, 91, 61-69.	2.8	44
69	Interaction of processes on different length scales in a bioelastomer capable of performing energy conversion. Biopolymers, 2001, 59, 51-64.	2.4	65
70	Novel hydrogels based on a polyasparthydrazide. Synthesis and characterization. Macromolecular Chemistry and Physics, 2000, 201, 2542-2549.	2.2	18
71	Potential of mean force between two ions in a sucrose rich aqueous solution. Chemical Physics Letters, 2000, 329, 221-227.	2.6	16
72	Micro- and mesoscopic process interactions in protein coagulation. AIP Conference Proceedings, 2000, , .	0.4	0

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73	Effects of electric charges on hydrophobic forces.â€ƒII.. Physical Review E, 2000, 62, 6799-6809.	2.1	20
74	Multiple interactions between molecular and supramolecular ordering. Physical Review E, 1999, 59, 2222-2230.	2.1	35
75	Effects of solvent perturbation on gelation driven by spinodal demixing. Biophysical Chemistry, 1999, 77, 1-8.	2.8	10
76	Interacting processes in protein coagulation. , 1999, 37, 116-120.		44
77	Solvent-Induced Free Energy Landscape and Solute-Solvent Dynamic Coupling in a Multielement Solute. Biophysical Journal, 1999, 77, 2470-2478.	0.5	5
78	Physics and biophysics of solvent induced forces: hydrophobic interactions and context-dependent hydration. European Biophysics Journal, 1998, 27, 183-196.	2.2	28
79	Effects of electric charges on hydrophobic forces. Physical Review E, 1997, 56, R4939-R4942.	2.1	16
80	Collective properties of hydration: long range and specificity of hydrophobic interactions. Biophysical Journal, 1997, 73, 31-37.	0.5	27
81	Mesoscopic gels at low agarose concentration: perturbation effects of ethanol. Biophysical Journal, 1997, 72, 388-394.	0.5	5
82	Self-assembly of biopolymeric structures below the threshold of random cross-link percolation. Biophysical Journal, 1996, 70, 494-499.	0.5	57
83	Spontaneous symmetry-breaking pathways: time-resolved study of agarose gelation. Food Hydrocolloids, 1996, 10, 91-97.	10.7	59
84	Mesoscopic gel at low agarose concentration in water: a dynamic light scattering study. Biophysical Journal, 1995, 68, 1569-1573.	0.5	16
85	Transputer-based upgrading of a differential scanning calorimeter. Measurement Science and Technology, 1994, 5, 1443-1447.	2.6	2
86	Physical Origin and Biological Significance of Solvent Induced Forces. , 1994, , 457-479.		5
87	Water-mediated interactions of biosolutes: Aspects of dynamics, structure, and configuration lifetime of the solvent.. Journal of Molecular Liquids, 1993, 58, 129-155.	4.9	6
88	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
89	The role of water in hemoglobin function and stability. Science, 1993, 259, 1335-1336.	12.6	36
90	Enthalpic and entropic contributions of water molecules to the functional T â†' R transition of human hemoglobin in solution. International Journal of Quantum Chemistry, 1992, 42, 1427-1437.	2.0	17

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91	Density, structural lifetime, and entropy of Hâ€bond cages promoted by monohydric alcohols in normal and supercooled water. Journal of Chemical Physics, 1991, 94, 6816-6826.	3.0	27
92	Microgel regions in dilute agarose solutions: the notion of non-gelling concentration, and the role of spinodal demixing. Chemical Physics Letters, 1991, 179, 339-343.	2.6	34
93	Spinodal demixing, percolation and gelation of biostructural polymers. Makromolekulare Chemie Macromolecular Symposia, 1990, 40, 33-44.	0.6	23
94	Viscosity of aqueous solutions of monohydric alcohols in the normal and supercooled states. Journal of Chemical Physics, 1989, 91, 408-415.	3.0	17
95	Interaction between external medium and haem pocket in myoglobin probed by low-temperature optical spectroscopy. Journal of Molecular Biology, 1988, 199, 213-218.	4.2	28
96	Conformational and functional properties of hemoglobin in water-organic cosolvent mixtures: Effect of ethylene glycol and glycerol on oxygen affinity. Biopolymers, 1983, 22, 119-123.	2.4	12