

# Pier Luigi San Biagio

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87  
papers

2,525  
citations

32  
h-index

46  
g-index

90  
ext. papers

2,813  
ext. citations

4.7  
avg, IF

4.53  
L-index

#	Paper	IF	Citations
87	Moringa oleifera Leaf Powder as Functional Additive in Cookies to Protect SH-SY5Y Cells. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9995	2.6	0
86	Agarose/Chondroitin-6-sulfate-based hydrogel film enriched with natural plant extracts for the treatment of cutaneous wounds. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 164, 2818-2830	7.9	11
85	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> , <b>2020</b> , 158, 985-993	7.9	3
84	Recombinant mussel protein Pvfp-5A potential tissue bioadhesive. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 12826-12835	5.4	10
83	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> , <b>2019</b> , 20,	6.3	23
82	Amyloid jams: Mechanical and dynamical properties of an amyloid fibrillar network. <i>Biophysical Chemistry</i> , <b>2019</b> , 253, 106231	3.5	4
81	Water Extract of (Hedw.) D. Mohr Bryophyte as a Natural Powerful Source of Biologically Active Compounds. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	5
80	The role of sucrose concentration in self-assembly kinetics of high methoxyl pectin. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 112, 1183-1190	7.9	19
79	Data concerning the rheological behavior of high methoxyl pectin during gelation process. <i>Data in Brief</i> , <b>2018</b> , 18, 1628-1631	1.2	
78	Biochemical and biophysical characterization of water-soluble pectin from <i>Opuntia ficus-indica</i> and its potential cytotoxic activity. <i>Phytochemistry</i> , <b>2018</b> , 154, 47-55	4	12
77	The precious content of the olive mill wastewater: the protective effect of the antioxidant fraction in cell cultures. <i>CYTA - Journal of Food</i> , <b>2018</b> , 16, 658-666	2.3	7
76	Nose-to-brain delivery of insulin enhanced by a nanogel carrier. <i>Journal of Controlled Release</i> , <b>2018</b> , 270, 23-36	11.7	51
75	Curcumin-like compounds designed to modify amyloid beta peptide aggregation patterns. <i>RSC Advances</i> , <b>2017</b> , 7, 31714-31724	3.7	33
74	Bioactive compounds from extra virgin olive oils: Correlation between phenolic content and oxidative stress cell protection. <i>Biophysical Chemistry</i> , <b>2017</b> , 230, 109-116	3.5	31
73	Investigation on different chemical stability of mitochondrial Hsp60 and its precursor. <i>Biophysical Chemistry</i> , <b>2017</b> , 229, 31-38	3.5	4
72	Pectin from <i>Opuntia ficus indica</i> : Optimization of microwave-assisted extraction and preliminary characterization. <i>Food Chemistry</i> , <b>2017</b> , 221, 91-99	8.5	58
71	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> , <b>2017</b> , 70, 745-752	8.3	10

70	Heat- and pH-induced BSA conformational changes, hydrogel formation and application as 3D cell scaffold. <i>Archives of Biochemistry and Biophysics</i> , <b>2016</b> , 606, 134-42	4.1	32
69	Ionizing radiation-engineered nanogels as insulin nanocarriers for the development of a new strategy for the treatment of Alzheimer's disease. <i>Biomaterials</i> , <b>2016</b> , 80, 179-194	15.6	56
68	Stability and disassembly properties of human naïve Hsp60 and bacterial GroEL chaperonins. <i>Biophysical Chemistry</i> , <b>2016</b> , 208, 68-75	3.5	6
67	Amyloid $\beta$ peptide insertion in liposomes containing GM1-cholesterol domains. <i>Biophysical Chemistry</i> , <b>2016</b> , 208, 9-16	3.5	27
66	Biological and biophysics aspects of metformin-induced effects: cortex mitochondrial dysfunction and promotion of toxic amyloid pre-fibrillar aggregates. <i>Aging</i> , <b>2016</b> , 8, 1718-34	5.6	37
65	The complex mechanism of HM pectin self-assembly: A rheological investigation. <i>Carbohydrate Polymers</i> , <b>2016</b> , 146, 181-6	10.3	13
64	Data concerning the proteolytic resistance and oxidative stress in LAN5 cells after treatment with BSA hydrogels. <i>Data in Brief</i> , <b>2016</b> , 9, 324-7	1.2	3
63	Hsp60, amateur chaperone in amyloid-beta fibrillogenesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2016</b> , 1860, 2474-2483	4	29
62	Chaperonotherapy for Alzheimer's Disease: Focusing on HSP60. <i>Heat Shock Proteins</i> , <b>2015</b> , 51-76	0.2	4
61	Temperature-induced self-assembly of degalactosylated xyloglucan at low concentration. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2015</b> , 53, 1727-1735	2.6	8
60	Photo-inhibition of A $\beta$ fibrillation mediated by a newly designed fluorinated oxadiazole. <i>RSC Advances</i> , <b>2015</b> , 5, 16540-16548	3.7	23
59	Elevated blood Hsp60, its structural similarities and cross-reactivity with thyroid molecules, and its presence on the plasma membrane of oncocytes point to the chaperonin as an immunopathogenic factor in Hashimoto's thyroiditis. <i>Cell Stress and Chaperones</i> , <b>2014</b> , 19, 343-53	4	43
58	$\beta$ Casein Inhibits Insulin Amyloid Formation by Preventing the Onset of Secondary Nucleation Processes. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3043-8	6.4	19
57	Maltose-conjugated chitosans induce macroscopic gelation of pectin solutions at neutral pH. <i>Carbohydrate Polymers</i> , <b>2014</b> , 114, 141-148	10.3	10
56	Seasonal variations of antimicrobial activity and chemical composition of essential oils extracted from three Citrus limon L. Burm. cultivars. <i>Natural Product Research</i> , <b>2014</b> , 28, 383-91	2.3	16
55	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> , <b>2014</b> , 9, e97657	3.7	37
54	Different effects of Alzheimer's peptide A $\beta$ (1-40) oligomers and fibrils on supported lipid membranes. <i>Biophysical Chemistry</i> , <b>2013</b> , 182, 23-9	3.5	41
53	$\beta$ Casein inhibition mechanism in concanavalin A aggregation process. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 14700-7	3.4	11

52	Are oxidative stress and mitochondrial dysfunction the key players in the neurodegenerative diseases?. <i>Free Radical Research</i> , <b>2012</b> , 46, 1327-38	4	82
51	Inhibiting effect of $\kappa$ (s1)-casein on A $\beta$ (1-40) fibrillogenesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2012</b> , 1820, 124-32	4	40
50	Alzheimer's disease: biological aspects, therapeutic perspectives and diagnostic tools. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 244102	1.8	46
49	Rheological characterization and release properties of inulin-based hydrogels. <i>Carbohydrate Polymers</i> , <b>2012</b> , 88, 1033-1040	10.3	18
48	Entrapment of A $\beta$ (1-40) peptide in unstructured aggregates. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 244103	1.8	6
47	Insulin-activated Akt rescues A $\beta$ oxidative stress-induced cell death by orchestrating molecular trafficking. <i>Aging Cell</i> , <b>2011</b> , 10, 832-43	9.9	50
46	Amyloid gels: precocious appearance of elastic properties during the formation of an insulin fibrillar network. <i>Langmuir</i> , <b>2010</b> , 26, 1424-6	4	21
45	Irreversible gelation of thermally unfolded proteins: structural and mechanical properties of lysozyme aggregates. <i>European Biophysics Journal</i> , <b>2010</b> , 39, 1007-17	1.9	19
44	Thermal aggregation and ion-induced cold-gelation of bovine serum albumin. <i>European Biophysics Journal</i> , <b>2009</b> , 38, 437-46	1.9	50
43	A $\beta$ oligomers and fibrillar aggregates induce different apoptotic pathways in LAN5 neuroblastoma cell cultures. <i>Biophysical Journal</i> , <b>2009</b> , 96, 4200-11	2.9	83
42	Protein stability modulated by a conformational effector: effects of trifluoroethanol on bovine serum albumin. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 4007-18	3.6	41
41	Relation between structural and release properties in a polysaccharide gel system. <i>Biophysical Chemistry</i> , <b>2007</b> , 129, 18-22	3.5	11
40	A statistical light scattering approach to separating fast and slow dynamics: application to a model system. <i>European Biophysics Journal</i> , <b>2007</b> , 36, 743-52	1.9	2
39	Large size fibrillar bundles of the Alzheimer amyloid beta-protein. <i>European Biophysics Journal</i> , <b>2007</b> , 36, 701-9	1.9	12
38	Kinetics of different processes in human insulin amyloid formation. <i>Journal of Molecular Biology</i> , <b>2007</b> , 366, 258-74	6.5	145
37	Employment of cationic solid-lipid nanoparticles as RNA carriers. <i>Bioconjugate Chemistry</i> , <b>2007</b> , 18, 302-86.3	6.3	43
36	Toxicity of recombinant beta-amyloid prefibrillar oligomers on the morphogenesis of the sea urchin <i>Paracentrotus lividus</i> . <i>FASEB Journal</i> , <b>2006</b> , 20, 1916-7	0.9	44
35	Kinetics of insulin aggregation: disentanglement of amyloid fibrillation from large-size cluster formation. <i>Biophysical Journal</i> , <b>2006</b> , 90, 4585-91	2.9	54

34	The interplay between PolyQ and protein context delays aggregation by forming a reservoir of protofibrils. <i>PLoS ONE</i> , <b>2006</b> , 1, e111	3.7	53
33	Role of charges and solvent on the conformational properties of poly(galacturonic acid) chains: a molecular dynamics study. <i>Biomacromolecules</i> , <b>2005</b> , 6, 2555-62	6.9	14
32	K(+) and Na(+) effects on the gelation properties of kappa-Carrageenan. <i>Biophysical Chemistry</i> , <b>2005</b> , 113, 129-35	3.5	87
31	Protofibril formation of amyloid beta-protein at low pH via a non-cooperative elongation mechanism. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 30001-8	5.4	96
30	Thermodynamic instability and off-critical slowing down in supersaturated lysozyme solutions. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, S5023-S5033	1.8	2
29	The role of pH on instability and aggregation of sickle hemoglobin solutions. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2004</b> , 55, 169-76	4.2	26
28	Ergodic to non-ergodic transition monitored by scattered light intensity statistics. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2004</b> , 341, 40-54	3.3	9
27	Thermoreversible gelation of kappa-carrageenan: relation between conformational transition and aggregation. <i>Biophysical Chemistry</i> , <b>2003</b> , 104, 95-105	3.5	106
26	Thermodynamic instability in supersaturated lysozyme solutions: effect of salt and role of concentration fluctuations. <i>Physical Review E</i> , <b>2003</b> , 68, 011904	2.4	28
25	Role of Sucrose in Pectin Gelation: Static and Dynamic Light Scattering Experiments. <i>Macromolecules</i> , <b>2002</b> , 35, 8147-8151	5.5	23
24	Effects of intermediates on aggregation of native bovine serum albumin. <i>Biophysical Chemistry</i> , <b>2001</b> , 91, 61-9	3.5	40
23	Novel hydrogels based on a polyasparthydrazide. Synthesis and characterization. <i>Macromolecular Chemistry and Physics</i> , <b>2000</b> , 201, 2542-2549	2.6	18
22	Potential of mean force between two ions in a sucrose rich aqueous solution. <i>Chemical Physics Letters</i> , <b>2000</b> , 329, 221-227	2.5	14
21	Effects of solvent perturbation on gelation driven by spinodal demixing. <i>Biophysical Chemistry</i> , <b>1999</b> , 77, 1-8	3.5	10
20	Interacting processes in protein coagulation. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1999</b> , 37, 116-20	4.2	40
19	Solvent-induced free energy landscape and solute-solvent dynamic coupling in a multielement solute. <i>Biophysical Journal</i> , <b>1999</b> , 77, 2470-8	2.9	5
18	Physics and biophysics of solvent induced forces: hydrophobic interactions and context-dependent hydration. <i>European Biophysics Journal</i> , <b>1998</b> , 27, 183-196	1.9	25
17	Preparation, characterization and in vitro antimicrobial activity of ampicillin-loaded polyethylcyanoacrylate nanoparticles. <i>Biomaterials</i> , <b>1998</b> , 19, 1009-17	15.6	55

16	Collective properties of hydration: long range and specificity of hydrophobic interactions. <i>Biophysical Journal</i> , <b>1997</b> , 73, 31-7	2.9	26
15	Mesoscopic gels at low agarose concentration: perturbation effects of ethanol. <i>Biophysical Journal</i> , <b>1997</b> , 72, 388-94	2.9	4
14	Self-assembly of biopolymeric structures below the threshold of random cross-link percolation. <i>Biophysical Journal</i> , <b>1996</b> , 70, 494-9	2.9	56
13	Spontaneous symmetry-breaking pathways: time-resolved study of agarose gelation. <i>Food Hydrocolloids</i> , <b>1996</b> , 10, 91-97	10.6	54
12	Mesoscopic gel at low agarose concentration in water: a dynamic light scattering study. <i>Biophysical Journal</i> , <b>1995</b> , 68, 1569-73	2.9	15
11	Water-mediated interactions of biosolutes: Aspects of dynamics, structure, and configuration lifetime of the solvent.. <i>Journal of Molecular Liquids</i> , <b>1993</b> , 58, 129-155	6	6
10	Microgel regions in dilute agarose solutions: the notion of non-gelling concentration, and the role of spinodal demixing. <i>Chemical Physics Letters</i> , <b>1991</b> , 179, 339-343	2.5	33
9	Spinodal lines and Flory-Huggins free-energies for solutions of human hemoglobins HbS and HbA. <i>Biophysical Journal</i> , <b>1991</b> , 60, 508-12	2.9	67
8	New photon correlator design based on Transputer array concurrency. <i>Review of Scientific Instruments</i> , <b>1989</b> , 60, 3425-3429	1.7	5
7	Transputer-based upgrading of a laser photon correlator. <i>Review of Scientific Instruments</i> , <b>1989</b> , 60, 222-225	2.7	7
6	CO-Solute control of the self-assembly of a biopolymeric supramolecular structure. <i>Chemical Physics Letters</i> , <b>1989</b> , 154, 477-483	2.5	23
5	Current perspectives on the kinetics of hemoglobin S gelation. <i>Annals of the New York Academy of Sciences</i> , <b>1989</b> , 565, 53-62	6.5	6
4	The overlap of elastomeric polypeptide coils in solution required for single-phase initiation of elastogenesis. <i>Chemical Physics Letters</i> , <b>1988</b> , 145, 571-574	2.5	36
3	Biomolecular-solvent stereodynamic coupling probed by deuteration. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>1983</b> , 1, 473-86	3.6	17
2	Photon scattering as a probe of microviscosity and channel size in gels such as sickle haemoglobin. <i>Nature</i> , <b>1983</b> , 302, 412-5	50.4	32
1	Temperature induced difference spectra of oxy and deoxy hemoglobin in the near IR, visible and Soret regions. <i>Biochemical and Biophysical Research Communications</i> , <b>1977</b> , 77, 1158-65	3.4	23