

# Pier Luigi San Biagio

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4608713/pier-luigi-san-biagio-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Kinetics of different processes in human insulin amyloid formation. <i>Journal of Molecular Biology</i> , <b>2007</b> , 366, 258-74	6.5	145
86	Thermoreversible gelation of kappa-carrageenan: relation between conformational transition and aggregation. <i>Biophysical Chemistry</i> , <b>2003</b> , 104, 95-105	3.5	106
85	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
84	K(+) and Na(+) effects on the gelation properties of kappa-Carrageenan. <i>Biophysical Chemistry</i> , <b>2005</b> , 113, 129-35	3.5	87
83	Abeta 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
82	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
81	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
80	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
79	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
78	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
77	Preparation, characterization and in vitro antimicrobial activity of ampicillin-loaded polyethylcyanoacrylate nanoparticles. <i>Biomaterials</i> , <b>1998</b> , 19, 1009-17	15.6	55
76	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
75	Spontaneous symmetry-breaking pathways: time-resolved study of agarose gelation. <i>Food Hydrocolloids</i> , <b>1996</b> , 10, 91-97	10.6	54
74	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
73	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
72	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
71	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

70	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
69	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
68	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
67	Employment of cationic solid-lipid nanoparticles as RNA carriers. <i>Bioconjugate Chemistry</i> , <b>2007</b> , 18, 302-86.3		43
66	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
65	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
64	Inhibiting effect of (s1)-casein on A $\beta$ (1-40) fibrillogenesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2012</b> , 1820, 124-32	4	40
63	Effects of intermediates on aggregation of native bovine serum albumin. <i>Biophysical Chemistry</i> , <b>2001</b> , 91, 61-9	3.5	40
62	Interacting processes in protein coagulation. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1999</b> , 37, 116-20	4.2	40
61	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
60	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
59	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
58	Curcumin-like compounds designed to modify amyloid beta peptide aggregation patterns. <i>RSC Advances</i> , <b>2017</b> , 7, 31714-31724	3.7	33
57	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
56	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
55	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
54	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
53	Hsp60, amateur chaperone in amyloid-beta fibrillogenesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2016</b> , 1860, 2474-2483	4	29

52	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
51	Amyloid $\beta$ peptide insertion in liposomes containing GM1-cholesterol domains. <i>Biophysical Chemistry</i> , <b>2016</b> , 208, 9-16	3.5	27
50	Collective properties of hydration: long range and specificity of hydrophobic interactions. <i>Biophysical Journal</i> , <b>1997</b> , 73, 31-7	2.9	26
49	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
48	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
47	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
46	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
45	Role of Sucrose in Pectin Gelation: Static and Dynamic Light Scattering Experiments. <i>Macromolecules</i> , <b>2002</b> , 35, 8147-8151	5.5	23
44	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
43	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
42	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
41	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
40	$\beta$ 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
39	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
38	Rheological characterization and release properties of inulin-based hydrogels. <i>Carbohydrate Polymers</i> , <b>2012</b> , 88, 1033-1040	10.3	18
37	Novel hydrogels based on a polyasparthydrazide. Synthesis and characterization. <i>Macromolecular Chemistry and Physics</i> , <b>2000</b> , 201, 2542-2549	2.6	18
36	Biomolecular-solvent stereodynamic coupling probed by deuteration. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>1983</b> , 1, 473-86	3.6	17
35	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

34	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
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	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
31	The complex mechanism of HM pectin self-assembly: A rheological investigation. <i>Carbohydrate Polymers</i> , <b>2016</b> , 146, 181-6	10.3	13
30	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
29	Large size fibrillar bundles of the Alzheimer amyloid beta-protein. <i>European Biophysics Journal</i> , <b>2007</b> , 36, 701-9	1.9	12
28	Casein inhibition mechanism in concanavalin A aggregation process. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 14700-7	3.4	11
27	Relation between structural and release properties in a polysaccharide gel system. <i>Biophysical Chemistry</i> , <b>2007</b> , 129, 18-22	3.5	11
26	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
25	Recombinant mussel protein Pvfp-5 potential tissue bioadhesive. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 12826-12835	5.4	10
24	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
23	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
22	Effects of solvent perturbation on gelation driven by spinodal demixing. <i>Biophysical Chemistry</i> , <b>1999</b> , 77, 1-8	3.5	10
21	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
20	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
19	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
18	Transputer-based upgrading of a laser photon correlator. <i>Review of Scientific Instruments</i> , <b>1989</b> , 60, 222-225	2.7	7
17	Stability and disassembly properties of human and bacterial Hsp60 and bacterial GroEL chaperonins. <i>Biophysical Chemistry</i> , <b>2016</b> , 208, 68-75	3.5	6

16	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
15	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
14	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
13	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
12	New photon correlator design based on Transputer array concurrency. <i>Review of Scientific Instruments</i> , <b>1989</b> , 60, 3425-3429	1.7	5
11	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
10	Chaperonotherapy for Alzheimer's Disease: Focusing on HSP60. <i>Heat Shock Proteins</i> , <b>2015</b> , 51-76	0.2	4
9	Amyloid jams: Mechanical and dynamical properties of an amyloid fibrillar network. <i>Biophysical Chemistry</i> , <b>2019</b> , 253, 106231	3.5	4
8	Investigation on different chemical stability of mitochondrial Hsp60 and its precursor. <i>Biophysical Chemistry</i> , <b>2017</b> , 229, 31-38	3.5	4
7	Mesoscopic gels at low agarose concentration: perturbation effects of ethanol. <i>Biophysical Journal</i> , <b>1997</b> , 72, 388-94	2.9	4
6	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
5	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
4	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
3	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
2	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
1	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	