

# Sofia Giorgetti

## List of Publications by Year in descending order

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91  
papers

3,534  
citations

136740

32  
h-index

155451

55  
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94  
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94  
docs citations

94  
times ranked

3221  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hereditary Systemic Amyloidosis Due to Asp76Asn Variant $\hat{I}^2$ -Microglobulin. <i>New England Journal of Medicine</i> , 2012, 366, 2276-2283.	13.9	172
2	The solution structure of human $\hat{I}^2$ -microglobulin reveals the prodromes of its amyloid transition. <i>Protein Science</i> , 2009, 11, 487-499.	3.1	145
3	A Partially Structured Species of $\hat{I}^2$ -Microglobulin Is Significantly Populated under Physiological Conditions and Involved in Fibrillogenesis. <i>Journal of Biological Chemistry</i> , 2001, 276, 46714-46721.	1.6	137
4	Collagen Plays an Active Role in the Aggregation of $\hat{I}^2$ -Microglobulin under Physiopathological Conditions of Dialysis-related Amyloidosis*. <i>Journal of Biological Chemistry</i> , 2006, 281, 16521-16529.	1.6	128
5	Structure, function and amyloidogenic propensity of apolipoprotein A-I. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2006, 13, 191-205.	1.4	124
6	Detection of two partially structured species in the folding process of the amyloidogenic protein $\hat{I}^2$ -microglobulin. <i>Journal of Molecular Biology</i> , 2001, 307, 379-391.	2.0	115
7	A novel mechanoenzymatic cleavage mechanism underlies transthyretin amyloidogenesis. <i>EMBO Molecular Medicine</i> , 2015, 7, 1337-1349.	3.3	109
8	Heparin Strongly Enhances the Formation of $\hat{I}^2$ -Microglobulin Amyloid Fibrils in the Presence of Type I Collagen. <i>Journal of Biological Chemistry</i> , 2008, 283, 4912-4920.	1.6	108
9	Atomic structure of a nanobody-trapped domain-swapped dimer of an amyloidogenic $\hat{I}^2$ -microglobulin variant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1314-1319.	3.3	108
10	Targeting Amyloid Aggregation: An Overview of Strategies and Mechanisms. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2677.	1.8	103
11	Proteolytic cleavage of Ser52Pro variant transthyretin triggers its amyloid fibrillogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1539-1544.	3.3	91
12	Effect of Tetracyclines on the Dynamics of Formation and Deconstruction of $\hat{I}^2$ -Microglobulin Amyloid Fibrils. <i>Journal of Biological Chemistry</i> , 2011, 286, 2121-2131.	1.6	87
13	Conformational Switching and Fibrillogenesis in the Amyloidogenic Fragment of Apolipoprotein A-I. <i>Journal of Biological Chemistry</i> , 2003, 278, 2444-2451.	1.6	86
14	The Controlling Roles of Trp60 and Trp95 in $\hat{I}^2$ -Microglobulin Function, Folding and Amyloid Aggregation Properties. <i>Journal of Molecular Biology</i> , 2008, 378, 887-897.	2.0	82
15	Structure, Folding Dynamics, and Amyloidogenesis of D76N $\hat{I}^2$ -Microglobulin. <i>Journal of Biological Chemistry</i> , 2013, 288, 30917-30930.	1.6	80
16	Liver biopsy discloses a new apolipoprotein A-I hereditary amyloidosis in several unrelated Italian families. <i>Gastroenterology</i> , 2004, 126, 1416-1422.	0.6	70
17	Plasminogen activation triggers transthyretin amyloidogenesis in vitro. <i>Journal of Biological Chemistry</i> , 2018, 293, 14192-14199.	1.6	68
18	Properties of Some Variants of Human $\hat{I}^2$ -Microglobulin and Amyloidogenesis. <i>Journal of Biological Chemistry</i> , 2004, 279, 9176-9189.	1.6	65

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19	In situ characterization of protein aggregates in human tissues affected by light chain amyloidosis: a FTIR microspectroscopy study. <i>Scientific Reports</i> , 2016, 6, 29096.	1.6	63
20	The workings of the amyloid diseases. <i>Annals of Medicine</i> , 2007, 39, 200-207.	1.5	62
21	Î2-Microglobulin isoforms display an heterogeneous affinity for type I collagen. <i>Protein Science</i> , 2005, 14, 696-702.	3.1	56
22	Native-unlike Long-lived Intermediates along the Folding Pathway of the Amyloidogenic Protein Î2-Microglobulin Revealed by Real-time Two-dimensional NMR. <i>Journal of Biological Chemistry</i> , 2010, 285, 5827-5835.	1.6	55
23	Topological investigation of amyloid fibrils obtained from Î2-microglobulin. <i>Protein Science</i> , 2009, 11, 2362-2369.	3.1	53
24	Capillary electrophoresis investigation of a partially unfolded conformation of Î2-microglobulin. <i>Electrophoresis</i> , 2002, 23, 918-925.	1.3	52
25	Pharmaceutical Strategies Against Amyloidosis: Old and New Drugs in Targeting a Protein Misfolding Disease. <i>Current Medicinal Chemistry</i> , 2004, 11, 1065-1084.	1.2	48
26	Effects of the Known Pathogenic Mutations on the Aggregation Pathway of the Amyloidogenic Peptide of Apolipoprotein A-I. <i>Journal of Molecular Biology</i> , 2011, 407, 465-476.	2.0	48
27	Amyloid fibrils derived from the apolipoprotein A1 Leu174Ser variant contain elements of ordered helical structure. <i>Protein Science</i> , 2001, 10, 187-199.	3.1	44
28	Î2-Microglobulin H31Y Variant 3D Structure Highlights the Protein Natural Propensity Towards Intermolecular Aggregation. <i>Journal of Molecular Biology</i> , 2004, 335, 1051-1064.	2.0	38
29	Limited proteolysis in the investigation of Î2-microglobulin amyloidogenic and fibrillar states. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1753, 44-50.	1.1	36
30	Proteomics of Î2-microglobulin amyloid fibrils. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1753, 23-33.	1.1	36
31	DE loop mutations affect Î2-microglobulin stability and amyloid aggregation. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 146-150.	1.0	36
32	Folding and Fibrillogenesis: Clues from Î2-Microglobulin. <i>Journal of Molecular Biology</i> , 2010, 401, 286-297.	2.0	35
33	Fibrillar vs Crystalline Full-Length Î2-Microglobulin Studied by High-Resolution Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 5556-5557.	6.6	32
34	Monitoring the Interaction between Î2-Microglobulin and the Molecular Chaperone ÎB-crystallin by NMR and Mass Spectrometry. <i>Journal of Biological Chemistry</i> , 2013, 288, 17844-17858.	1.6	32
35	Î2-Microglobulin is potentially neurotoxic, but the blood brain barrier is likely to protect the brain from its toxicity. <i>Nephrology Dialysis Transplantation</i> , 2008, 24, 1176-1181.	0.4	31
36	Inhibition of the mechano-enzymatic amyloidogenesis of transthyretin: role of ligand affinity, binding cooperativity and occupancy of the inner channel. <i>Scientific Reports</i> , 2017, 7, 182.	1.6	31

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37	A FTIR microspectroscopy study of the structural and biochemical perturbations induced by natively folded and aggregated transthyretin in HL-1 cardiomyocytes. <i>Scientific Reports</i> , 2018, 8, 12508.	1.6	31
38	Oleuropein aglycone: A polyphenol with different targets against amyloid toxicity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1432-1442.	1.1	30
39	Human beta-2 microglobulin W60V mutant structure: Implications for stability and amyloid aggregation. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 543-547.	1.0	29
40	Co-fibrillogenesis of Wild-type and D76N $\beta$ 2-Microglobulin. <i>Journal of Biological Chemistry</i> , 2016, 291, 9678-9689.	1.6	29
41	Crtap and p3h1 knock out zebrafish support defective collagen chaperoning as the cause of their osteogenesis imperfecta phenotype. <i>Matrix Biology</i> , 2020, 90, 40-60.	1.5	28
42	Citrate-stabilized gold nanoparticles hinder fibrillogenesis of a pathological variant of $\beta$ 2-microglobulin. <i>Nanoscale</i> , 2017, 9, 3941-3951.	2.8	26
43	Solution structure of $\beta$ 2-microglobulin and insights into fibrillogenesis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1753, 76-84.	1.1	25
44	Single Point Mutations Induce a Switch in the Molecular Mechanism of the Aggregation of the Alzheimer's Disease Associated A $\beta$ 42 Peptide. <i>ACS Chemical Biology</i> , 2014, 9, 378-382.	1.6	25
45	Amyloid persistence in decellularized liver: biochemical and histopathological characterization. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2016, 23, 1-7.	1.4	25
46	Lysine 58-cleaved beta2-microglobulin is not detectable by 2D electrophoresis in ex vivo amyloid fibrils of two patients affected by dialysis-related amyloidosis. <i>Protein Science</i> , 2006, 16, 343-349.	3.1	24
47	Benefit of doxycycline treatment on articular disability caused by dialysis related amyloidosis. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2013, 20, 173-178.	1.4	24
48	Dynamic of $\beta$ 2-Microglobulin Fibril Formation and Reabsorption: The Role of Proteolysis. <i>Seminars in Dialysis</i> , 2001, 14, 117-122.	0.7	23
49	Structural and Folding Dynamic Properties of the T70N Variant of Human Lysozyme. <i>Journal of Biological Chemistry</i> , 2003, 278, 25910-25918.	1.6	23
50	Molecular insights into cell toxicity of a novel familial amyloidogenic variant of $\beta$ 2-microglobulin. <i>Journal of Cellular and Molecular Medicine</i> , 2016, 20, 1443-1456.	1.6	23
51	Detection of fragments of $\beta$ 2-microglobulin in amyloid fibrils. <i>Kidney International</i> , 2000, 57, 349-350.	2.6	22
52	The intracellular quality control system down-regulates the secretion of amyloidogenic apolipoprotein A-I variants: A possible impact on the natural history of the disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 87-93.	1.8	22
53	Class I Major Histocompatibility Complex, the Trojan Horse for Secretion of Amyloidogenic $\beta$ 2-Microglobulin. <i>Journal of Biological Chemistry</i> , 2014, 289, 3318-3327.	1.6	22
54	Decoding the Structural Bases of D76N $\beta$ 2-Microglobulin High Amyloidogenicity through Crystallography and Asn-Scan Mutagenesis. <i>PLoS ONE</i> , 2015, 10, e0144061.	1.1	22

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55	C. elegans Expressing Human $\beta$ 2-Microglobulin: A Novel Model for Studying the Relationship between the Molecular Assembly and the Toxic Phenotype. PLoS ONE, 2012, 7, e52314.	1.1	21
56	A quantitative and qualitative method for direct 2D analysis of murine cartilage. Proteomics, 2007, 7, 4003-4007.	1.3	20
57	Equilibrium Unfolding Thermodynamics of $\beta$ 2-Microglobulin Analyzed through Native-State H/D Exchange. Biophysical Journal, 2009, 96, 169-179.	0.2	20
58	Variants of $\beta$ 2-microglobulin cleaved at lysine-58 retain the main conformational features of the native protein but are more conformationally heterogeneous and unstable at physiological temperature. FEBS Journal, 2006, 273, 2461-2474.	2.2	19
59	Biochemical and Electrophysiological Modification of Amyloid Transthyretin on Cardiomyocytes. Biophysical Journal, 2016, 111, 2024-2038.	0.2	19
60	Recombinant amyloidogenic domain of ApoA-I: Analysis of its fibrillogenic potential. Biochemical and Biophysical Research Communications, 2006, 351, 223-228.	1.0	18
61	Sulfonated molecules that bind a partially structured species of $\beta$ 2-microglobulin also influence refolding and fibrillogenesis. Electrophoresis, 2008, 29, 1502-1510.	1.3	18
62	A specific nanobody prevents amyloidogenesis of D76N $\beta$ 2-microglobulin in vitro and modifies its tissue distribution in vivo. Scientific Reports, 2017, 7, 46711.	1.6	18
63	Search of ligands for the amyloidogenic protein $\beta$ 2-microglobulin by capillary electrophoresis and other techniques. Electrophoresis, 2005, 26, 4055-4063.	1.3	17
64	Screening of fibrillogenesis inhibitors of $\beta$ 2-microglobulin: Integrated strategies by mass spectrometry capillary electrophoresis and in silico simulations. Analytica Chimica Acta, 2011, 685, 153-161.	2.6	17
65	Enhanced molecular chaperone activity of the small heat shock protein $\alpha$ -crystallin following covalent immobilization onto a solid-phase support. Biopolymers, 2011, 95, 376-389.	1.2	14
66	Increasing the accuracy of proteomic typing by decellularisation of amyloid tissue biopsies. Journal of Proteomics, 2017, 165, 113-118.	1.2	14
67	C. elegans expressing D76N $\beta$ 2-microglobulin: a model for in vivo screening of drug candidates targeting amyloidosis. Scientific Reports, 2019, 9, 19960.	1.6	14
68	2D and MALDI-TOF-MS for a comparative analysis of proteins expressed in different cellular models of amyotrophic lateral sclerosis. Electrophoresis, 2007, 28, 4320-4329.	1.3	13
69	D $\beta$ strand perturbation and amyloid propensity in beta $\beta$ 2 microglobulin. FEBS Journal, 2011, 278, 2349-2358.	2.2	13
70	Comparative study of the stabilities of synthetic in vitro and natural ex vivo transthyretin amyloid fibrils. Journal of Biological Chemistry, 2020, 295, 11379-11387.	1.6	12
71	Interference of citrate-stabilized gold nanoparticles with $\beta$ 2-microglobulin oligomeric association. Chemical Communications, 2018, 54, 5422-5425.	2.2	11
72	Amyloid Formation by Globular Proteins: The Need to Narrow the Gap Between in Vitro and in Vivo Mechanisms. Frontiers in Molecular Biosciences, 2022, 9, 830006.	1.6	11

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73	Reduction of conformational mobility and aggregation in W60G $\beta$ 2-microglobulin: assessment by $^{15}\text{N}$ NMR relaxation. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 795-807.	1.1	10
74	The effects of an ideal $\beta$ -turn on $\beta$ -2 microglobulin fold stability. <i>Journal of Biochemistry</i> , 2011, 150, 39-47.	0.9	9
75	Enhanced toxicity of silver nanoparticles in transgenic <i>Caenorhabditis elegans</i> expressing amyloidogenic proteins. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2015, 22, 221-228.	1.4	9
76	Proteomics in protein misfolding diseases. <i>Clinical Chemistry and Laboratory Medicine</i> , 2009, 47, 627-35.	1.4	8
77	Fibrillogenesis of human $\beta$ 2-microglobulin in three-dimensional silicon microstructures. <i>Journal of Biophotonics</i> , 2012, 5, 785-792.	1.1	8
78	Misidentification of transthyretin and immunoglobulin variants by proteomics due to methyl lysine formation in formalin-fixed paraffin-embedded amyloid tissue. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2017, 24, 229-237.	1.4	8
79	Purification and Characterization of Soluble Cichorium intybus Var. silvestre Lipoygenase. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 6448-6454.	2.4	7
80	The interaction of $\beta$ 2-microglobulin with gold nanoparticles: impact of coating, charge and size. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5964-5974.	2.9	7
81	Insights into a Protein-Nanoparticle System by Paramagnetic Perturbation NMR Spectroscopy. <i>Molecules</i> , 2020, 25, 5187.	1.7	7
82	Capillary electrophoresis analysis of different variants of the amyloidogenic protein $\beta$ 2-microglobulin as a simple tool for misfolding and stability studies. <i>Electrophoresis</i> , 2015, 36, 2465-2472.	1.3	6
83	Hepatitis C virus-associated cryoglobulinaemic glomerulonephritis with delayed appearance of monoclonal cryoglobulinaemia. <i>Nephrology Dialysis Transplantation</i> , 2001, 16, 432-434.	0.4	5
84	Clinical, radiological, and biochemical features of a bilateral buttock amyloidoma emerging after 27 years of hemodialysis. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2009, 16, 115-121.	1.4	5
85	S-Homocysteinylation effects on transthyretin: worsening of cardiomyopathy onset. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129453.	1.1	5
86	Exploring exchange processes in proteins by paramagnetic perturbation of NMR spectra. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6247-6259.	1.3	5
87	The corona of protein-gold nanoparticle systems: the role of ionic strength. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1630-1637.	1.3	5
88	Short-Chain Alkanethiol Coating for Small-Size Gold Nanoparticles Supporting Protein Stability. <i>Magnetochemistry</i> , 2017, 3, 40.	1.0	4
89	Clinical ApoA-IV amyloid is associated with fibrillogenic signal sequence. <i>Journal of Pathology</i> , 2021, 255, 311-318.	2.1	4
90	Characterization of immunoglobulin variable regions of two human pathogenic monoclonal cryocryoglobulins. <i>Molecular Immunology</i> , 2008, 45, 1519-1524.	1.0	2

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91	Topologically non-trivial metal-organic assemblies inhibit $\beta$ 2-microglobulin amyloidogenesis. Cell Reports Physical Science, 2021, 2, 100477.	2.8	1