

Sofia Giorgetti

List of Publications by Year in descending order

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91
papers

3,534
citations

136950

32
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155660

55
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94
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docs citations

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times ranked

3221
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| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Hereditary Systemic Amyloidosis Due to Asp76Asn Variant β_2 -Microglobulin. <i>New England Journal of Medicine</i> , 2012, 366, 2276-2283. | 27.0 | 172 |
| 2 | The solution structure of human β_2 -microglobulin reveals the prodromes of its amyloid transition. <i>Protein Science</i> , 2002, 11, 487-499. | 7.6 | 145 |
| 3 | A Partially Structured Species of β_2 -Microglobulin Is Significantly Populated under Physiological Conditions and Involved in Fibrillogenesis. <i>Journal of Biological Chemistry</i> , 2001, 276, 46714-46721. | 3.4 | 137 |
| 4 | Collagen Plays an Active Role in the Aggregation of β_2 -Microglobulin under Physiopathological Conditions of Dialysis-related Amyloidosis*. <i>Journal of Biological Chemistry</i> , 2006, 281, 16521-16529. | 3.4 | 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. | 3.0 | 124 |
| 6 | Detection of two partially structured species in the folding process of the amyloidogenic protein β_2 -microglobulin. <i>Journal of Molecular Biology</i> , 2001, 307, 379-391. | 4.2 | 115 |
| 7 | A novel mechano-enzymatic cleavage mechanism underlies transthyretin amyloidogenesis. <i>EMBO Molecular Medicine</i> , 2015, 7, 1337-1349. | 6.9 | 109 |
| 8 | Heparin Strongly Enhances the Formation of β_2 -Microglobulin Amyloid Fibrils in the Presence of Type I Collagen. <i>Journal of Biological Chemistry</i> , 2008, 283, 4912-4920. | 3.4 | 108 |
| 9 | Atomic structure of a nanobody-trapped domain-swapped dimer of an amyloidogenic β_2 -microglobulin variant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1314-1319. | 7.1 | 108 |
| 10 | Targeting Amyloid Aggregation: An Overview of Strategies and Mechanisms. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2677. | 4.1 | 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. | 7.1 | 91 |
| 12 | Effect of Tetracyclines on the Dynamics of Formation and Deconstruction of β_2 -Microglobulin Amyloid Fibrils. <i>Journal of Biological Chemistry</i> , 2011, 286, 2121-2131. | 3.4 | 87 |
| 13 | Conformational Switching and Fibrillogenesis in the Amyloidogenic Fragment of Apolipoprotein A-I. <i>Journal of Biological Chemistry</i> , 2003, 278, 2444-2451. | 3.4 | 86 |
| 14 | The Controlling Roles of Trp60 and Trp95 in β_2 -Microglobulin Function, Folding and Amyloid Aggregation Properties. <i>Journal of Molecular Biology</i> , 2008, 378, 887-897. | 4.2 | 82 |
| 15 | Structure, Folding Dynamics, and Amyloidogenesis of D76N β_2 -Microglobulin. <i>Journal of Biological Chemistry</i> , 2013, 288, 30917-30930. | 3.4 | 80 |
| 16 | Liver biopsy discloses a new apolipoprotein A-I hereditary amyloidosis in several unrelated Italian families. <i>Gastroenterology</i> , 2004, 126, 1416-1422. | 1.3 | 70 |
| 17 | Plasminogen activation triggers transthyretin amyloidogenesis in vitro. <i>Journal of Biological Chemistry</i> , 2018, 293, 14192-14199. | 3.4 | 68 |
| 18 | Properties of Some Variants of Human β_2 -Microglobulin and Amyloidogenesis. <i>Journal of Biological Chemistry</i> , 2004, 279, 9176-9189. | 3.4 | 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. | 3.3 | 63 |
| 20 | The workings of the amyloid diseases. <i>Annals of Medicine</i> , 2007, 39, 200-207. | 3.8 | 62 |
| 21 | Î2-Microglobulin isoforms display an heterogeneous affinity for type I collagen. <i>Protein Science</i> , 2005, 14, 696-702. | 7.6 | 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. | 3.4 | 55 |
| 23 | Topological investigation of amyloid fibrils obtained from Î2-microglobulin. <i>Protein Science</i> , 2009, 11, 2362-2369. | 7.6 | 53 |
| 24 | Capillary electrophoresis investigation of a partially unfolded conformation of Î2-microglobulin. <i>Electrophoresis</i> , 2002, 23, 918-925. | 2.4 | 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. | 2.4 | 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. | 4.2 | 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. | 7.6 | 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. | 4.2 | 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. | 2.3 | 36 |
| 30 | Proteomics of Î2-microglobulin amyloid fibrils. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1753, 23-33. | 2.3 | 36 |
| 31 | DE loop mutations affect Î2-microglobulin stability and amyloid aggregation. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 146-150. | 2.1 | 36 |
| 32 | Folding and Fibrillogenesis: Clues from Î2-Microglobulin. <i>Journal of Molecular Biology</i> , 2010, 401, 286-297. | 4.2 | 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. | 13.7 | 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. | 3.4 | 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. | 0.7 | 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. | 3.3 | 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. | 3.3 | 31 |
| 38 | Oleuropein aglycone: A polyphenol with different targets against amyloid toxicity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1432-1442. | 2.4 | 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. | 2.1 | 29 |
| 40 | Co-fibrillogenesis of Wild-type and D76N β 2-Microglobulin. <i>Journal of Biological Chemistry</i> , 2016, 291, 9678-9689. | 3.4 | 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. | 3.6 | 28 |
| 42 | Citrate-stabilized gold nanoparticles hinder fibrillogenesis of a pathological variant of β 2-microglobulin. <i>Nanoscale</i> , 2017, 9, 3941-3951. | 5.6 | 26 |
| 43 | Solution structure of β 2-microglobulin and insights into fibrillogenesis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1753, 76-84. | 2.3 | 25 |
| 44 | Single Point Mutations Induce a Switch in the Molecular Mechanism of the Aggregation of the Alzheimer's Disease Associated A β 42 Peptide. <i>ACS Chemical Biology</i> , 2014, 9, 378-382. | 3.4 | 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. | 3.0 | 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. | 7.6 | 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. | 3.0 | 24 |
| 48 | Dynamic of β 2-Microglobulin Fibril Formation and Reabsorption: The Role of Proteolysis. <i>Seminars in Dialysis</i> , 2001, 14, 117-122. | 1.3 | 23 |
| 49 | Structural and Folding Dynamic Properties of the T70N Variant of Human Lysozyme. <i>Journal of Biological Chemistry</i> , 2003, 278, 25910-25918. | 3.4 | 23 |
| 50 | Molecular insights into cell toxicity of a novel familial amyloidogenic variant of β 2-microglobulin. <i>Journal of Cellular and Molecular Medicine</i> , 2016, 20, 1443-1456. | 3.6 | 23 |
| 51 | Detection of fragments of β 2-microglobulin in amyloid fibrils. <i>Kidney International</i> , 2000, 57, 349-350. | 5.2 | 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. | 3.8 | 22 |
| 53 | Class I Major Histocompatibility Complex, the Trojan Horse for Secretion of Amyloidogenic β 2-Microglobulin. <i>Journal of Biological Chemistry</i> , 2014, 289, 3318-3327. | 3.4 | 22 |
| 54 | Decoding the Structural Bases of D76N β 2-Microglobulin High Amyloidogenicity through Crystallography and Asn-Scan Mutagenesis. <i>PLoS ONE</i> , 2015, 10, e0144061. | 2.5 | 22 |

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|----|---|-----|-----------|
| 55 | C. elegans Expressing Human β 2-Microglobulin: A Novel Model for Studying the Relationship between the Molecular Assembly and the Toxic Phenotype. PLoS ONE, 2012, 7, e52314. | 2.5 | 21 |
| 56 | A quantitative and qualitative method for direct 2D analysis of murine cartilage. Proteomics, 2007, 7, 4003-4007. | 2.2 | 20 |
| 57 | Equilibrium Unfolding Thermodynamics of β 2-Microglobulin Analyzed through Native-State H/D Exchange. Biophysical Journal, 2009, 96, 169-179. | 0.5 | 20 |
| 58 | Variants of β 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. | 4.7 | 19 |
| 59 | Biochemical and Electrophysiological Modification of Amyloid Transthyretin on Cardiomyocytes. Biophysical Journal, 2016, 111, 2024-2038. | 0.5 | 19 |
| 60 | Recombinant amyloidogenic domain of ApoA-I: Analysis of its fibrillogenic potential. Biochemical and Biophysical Research Communications, 2006, 351, 223-228. | 2.1 | 18 |
| 61 | Sulfonated molecules that bind a partially structured species of β 2-microglobulin also influence refolding and fibrillogenesis. Electrophoresis, 2008, 29, 1502-1510. | 2.4 | 18 |
| 62 | A specific nanobody prevents amyloidogenesis of D76N β 2-microglobulin in vitro and modifies its tissue distribution in vivo. Scientific Reports, 2017, 7, 46711. | 3.3 | 18 |
| 63 | Search of ligands for the amyloidogenic protein β 2-microglobulin by capillary electrophoresis and other techniques. Electrophoresis, 2005, 26, 4055-4063. | 2.4 | 17 |
| 64 | Screening of fibrillogenesis inhibitors of β 2-microglobulin: Integrated strategies by mass spectrometry capillary electrophoresis and in silico simulations. Analytica Chimica Acta, 2011, 685, 153-161. | 5.4 | 17 |
| 65 | Enhanced molecular chaperone activity of the small heat shock protein α -crystallin following covalent immobilization onto a solid-phase support. Biopolymers, 2011, 95, 376-389. | 2.4 | 14 |
| 66 | Increasing the accuracy of proteomic typing by decellularisation of amyloid tissue biopsies. Journal of Proteomics, 2017, 165, 113-118. | 2.4 | 14 |
| 67 | C. elegans expressing D76N β 2-microglobulin: a model for in vivo screening of drug candidates targeting amyloidosis. Scientific Reports, 2019, 9, 19960. | 3.3 | 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. | 2.4 | 13 |
| 69 | D β strand perturbation and amyloid propensity in beta β 2 microglobulin. FEBS Journal, 2011, 278, 2349-2358. | 4.7 | 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. | 3.4 | 12 |
| 71 | Interference of citrate-stabilized gold nanoparticles with β 2-microglobulin oligomeric association. Chemical Communications, 2018, 54, 5422-5425. | 4.1 | 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. | 3.5 | 11 |

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|----|---|-----|-----------|
| 73 | Reduction of conformational mobility and aggregation in W60G β 2-microglobulin: assessment by ^{15}N NMR relaxation. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 795-807. | 1.9 | 10 |
| 74 | The effects of an ideal β -turn on β -2 microglobulin fold stability. <i>Journal of Biochemistry</i> , 2011, 150, 39-47. | 1.7 | 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. | 3.0 | 9 |
| 76 | Proteomics in protein misfolding diseases. <i>Clinical Chemistry and Laboratory Medicine</i> , 2009, 47, 627-35. | 2.3 | 8 |
| 77 | Fibrillogenesis of human β 2-microglobulin in three-dimensional silicon microstructures. <i>Journal of Biophotonics</i> , 2012, 5, 785-792. | 2.3 | 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. | 3.0 | 8 |
| 79 | Purification and Characterization of Soluble Cichorium intybus Var. silvestre Lipoxigenase. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 6448-6454. | 5.2 | 7 |
| 80 | The interaction of β 2-microglobulin with gold nanoparticles: impact of coating, charge and size. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5964-5974. | 5.8 | 7 |
| 81 | Insights into a Protein-Nanoparticle System by Paramagnetic Perturbation NMR Spectroscopy. <i>Molecules</i> , 2020, 25, 5187. | 3.8 | 7 |
| 82 | Capillary electrophoresis analysis of different variants of the amyloidogenic protein β 2-microglobulin as a simple tool for misfolding and stability studies. <i>Electrophoresis</i> , 2015, 36, 2465-2472. | 2.4 | 6 |
| 83 | Hepatitis C virus-associated cryoglobulinaemic glomerulonephritis with delayed appearance of monoclonal cryoglobulinaemia. <i>Nephrology Dialysis Transplantation</i> , 2001, 16, 432-434. | 0.7 | 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. | 3.0 | 5 |
| 85 | S-Homocysteinylation effects on transthyretin: worsening of cardiomyopathy onset. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129453. | 2.4 | 5 |
| 86 | Exploring exchange processes in proteins by paramagnetic perturbation of NMR spectra. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6247-6259. | 2.8 | 5 |
| 87 | The corona of protein-gold nanoparticle systems: the role of ionic strength. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1630-1637. | 2.8 | 5 |
| 88 | Short-Chain Alkanethiol Coating for Small-Size Gold Nanoparticles Supporting Protein Stability. <i>Magnetochemistry</i> , 2017, 3, 40. | 2.4 | 4 |
| 89 | Clinical ApoA-IV amyloid is associated with fibrillogenic signal sequence. <i>Journal of Pathology</i> , 2021, 255, 311-318. | 4.5 | 4 |
| 90 | Characterization of immunoglobulin variable regions of two human pathogenic monoclonal cryoglobulins. <i>Molecular Immunology</i> , 2008, 45, 1519-1524. | 2.2 | 2 |

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|----|---|-----|-----------|
| 91 | Topologically non-trivial metal-organic assemblies inhibit β 2-microglobulin amyloidogenesis. Cell Reports Physical Science, 2021, 2, 100477. | 5.6 | 1 |