Olga Gursky

List of Publications by Year
in descending order

83 papers	2,468 citations	172207 29 h-index	223531 46 g-index
85 all docs	85 docs citations	85 times ranked	2559 citing authors

#	Article	IF	Citations
1	Dynamic protein structures in normal function and pathologic misfolding in systemic amyloidosis. Biophysical Chemistry, 2022, 280, 106699.	1.5	9
2	Heparin binding triggers human VLDL remodeling by circulating lipoprotein lipase: Relevance to VLDL functionality in health and disease. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2022, 1867, 159064.	1.2	5
3	Protein Amyloid Cofactors: Charged Side-Chain Arrays Meet Their Match?. Trends in Biochemical Sciences, 2021, 46, 626-629.	3.7	16
4	A Conservative Point Mutation in a Dynamic Antigen-binding Loop of Human Immunoglobulin Î»6 Light Chain Promotes Pathologic Amyloid Formation. Journal of Molecular Biology, 2021, 433, 167310.	2.0	9
5	Structural Basis for Vital Function and Malfunction of Serum Amyloid A: an Acute-Phase Protein that Wears Hydrophobicity on Its Sleeve. Current Atherosclerosis Reports, 2020, 22, 69.	2.0	22
6	Novel clinical manifestations and treatment of hereditary apoA-I amyloidosis: when a good protein turns bad. Kidney International, 2020, 98, 62-64.	2.6	1
7	Structural Basis for Lipid Binding and Function by an Evolutionarily Conserved Protein, Serum Amyloid A. Journal of Molecular Biology, 2020, 432, 1978-1995.	2.0	16
8	Binding to heparin triggers deleterious structural and biochemical changes in human low-density lipoprotein, which are amplified in hyperglycemia. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158712.	1.2	4
9	Effects of triacylglycerol on the structural remodeling of human plasma very low- and low-density lipoproteins. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 1061-1071.	1.2	8
10	Synergy between serum amyloid A and secretory phospholipase A2. ELife, 2019, 8, .	2.8	12
11	Serum amyloid A sequesters diverse phospholipids and their hydrolytic products, hampering fibril formation and proteolysis in a lipid-dependent manner. Chemical Communications, 2018, 54, 3532-3535.	2.2	11
12	Molecular Insights into Human Hereditary Apolipoprotein A-I Amyloidosis Caused by the Glu34Lys Mutation. Biochemistry, 2018, 57, 5738-5747.	1.2	9
13	Unusual duplication mutation in a surface loop of human transthyretin leads to an aggressive drug-resistant amyloid disease. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6428-E6436.	3.3	26
14	Structural and Immunological Characterization of Novel Recombinant MOMP-Based Chlamydial Antigens. Vaccines, 2018, 6, 2.	2.1	6
15	Effects of Disease-Causing Mutations on the Conformation of Human Apolipoprotein A-I in Model Lipoproteins. Biochemistry, 2018, 57, 4583-4596.	1.2	7
16	<i>In vitro</i> co-expression of human amyloidogenic immunoglobulin light and heavy chain proteins: a relevant cell-based model of AL amyloidosis. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2017, 24, 115-122.	1.4	6
17	Structural stability and local dynamics in disease-causing mutants of human apolipoprotein a-I: what makes the protein amyloidogenic?. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2017, 24, 11-12.	1.4	2
18	Structure of serum amyloid A suggests a mechanism for selective lipoprotein binding and functions: SAA as a hub in macromolecular interaction networks. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2017, 24, 13-14.	1.4	8

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19	Serum amyloid A forms stable oligomers that disrupt vesicles at lysosomal pH and contribute to the pathogenesis of reactive amyloidosis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6507-E6515.	3.3	56
20	Hereditary Renal Amyloidosis Associated With a Novel Apolipoprotein A-II Variant. Kidney International Reports, 2017, 2, 1223-1232.	0.4	17
21	Serum amyloid A self-assembles with phospholipids to form stable protein-rich nanoparticles with a distinct structure: A hypothetical function of SAA as a â€œmolecular mopâ€•in immune response. Journal of Structural Biology, 2017, 200, 293-302.	1.3	21
22	Triglyceride increase in the core of high-density lipoproteins augments apolipoprotein dissociation from the surface: Potential implications for treatment of apolipoprotein deposition diseases. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 200-210.	1.8	13
23	Paradoxical effects of SAA on lipoprotein oxidation suggest a new antioxidant function for SAA. Journal of Lipid Research, 2016, 57, 2138-2149.	2.0	21
24	Thermal stability of human plasma electronegative low-density lipoprotein: A paradoxical behavior of low-density lipoprotein aggregation. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1015-1024.	1.2	6
25	Structure of serum amyloid A suggests a mechanism for selective lipoprotein binding and functions: <scp>SAA</scp> as a hub in macromolecular interaction networks. FEBS Letters, 2016, 590, 866-879.	1.3	41
26	Structural Stability and Local Dynamics in Disease-Causing Mutants of Human Apolipoprotein A-I: What Makes the Protein Amyloidogenic?. Journal of Molecular Biology, 2016, 428, 449-462.	2.0	47
27	Amyloid-Forming Properties of Human Apolipoproteins: Sequence Analyses and Structural Insights. Advances in Experimental Medicine and Biology, 2015, 855, 175-211.	0.8	58
28	Structural stability and functional remodeling of highâ€density lipoproteins. FEBS Letters, 2015, 589, 2627-2639.	1.3	32
29	Thermal transitions in serum amyloid A in solution and on the lipid: implications for structure and stability of acute-phase HDL. Journal of Lipid Research, 2015, 56, 1531-1542.	2.0	28
30	Hot spots in apolipoprotein Aâ€II misfolding and amyloidosis in mice and men. FEBS Letters, 2014, 588, 845-850.	1.3	10
31	Amyloidogenic mutations in human apolipoprotein <scp>A</scp>â€<scp>I</scp> are not necessarily destabilizing â€“ a common mechanism of apolipoprotein <scp>A</scp>â€<scp>I</scp> misfolding in familial amyloidosis and atherosclerosis. FEBS Journal, 2014, 281, 2525-2542.	2.2	44
32	Crystal Structure of Î”(185â€“243)ApoA-I Suggests a Mechanistic Framework for the Protein Adaptation to the Changing Lipid Load in Good Cholesterol: From Flatland to Sphereland via Double Belt, Belt Buckle, Double Hairpin and Trefoil/Tetrafoil. Journal of Molecular Biology, 2013, 425, 1-16.	2.0	36
33	Changes in helical content or net charge of apolipoprotein C-I alter its affinity for lipid/water interfaces. Journal of Lipid Research, 2013, 54, 1927-1938.	2.0	11
34	Structural basis for distinct functions of the naturally occurring Cys mutants of human apolipoprotein A-I. Journal of Lipid Research, 2013, 54, 3244-3257.	2.0	20
35	Aggregation and fusion of low-density lipoproteins in vivo and in vitro. Biomolecular Concepts, 2013, 4, 501-518.	1.0	54
36	Probing molecular mechanism of destabilization and misfolding of human apolipoprotein Aâ€I in familial amyloidosis. FASEB Journal, 2013, 27, 996.4.	0.2	0

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37	Structureâ€based mechanism for the adaptation of apolipoprotein Aâ€I to the changing lipid load in Good Cholesterol. FASEB Journal, 2013, 27, 1208.7.	0.2	0
38	Kinetic analysis of thermal stability of human lowâ€density lipoproteins: A model for LDL fusion in atherogenesis. FASEB Journal, 2013, 27, 1208.8.	0.2	0
39	Folded functional lipid-poor apolipoprotein A-I obtained by heating of high-density lipoproteins: relevance to high-density lipoprotein biogenesis. Biochemical Journal, 2012, 442, 703-712.	1.7	25
40	The Crystal Structure of the C-Terminal Truncated Apolipoprotein A-I Sheds New Light on Amyloid Formation by the N-Terminal Fragment. Biochemistry, 2012, 51, 10-18.	1.2	66
41	Kinetic analysis of thermal stability of human low density lipoproteins: a model for LDL fusion in atherogenesis. Journal of Lipid Research, 2012, 53, 2175-2185.	2.0	17
42	Role of Apolipoprotein A-II in the Structure and Remodeling of Human High-Density Lipoprotein (HDL): Protein Conformational Ensemble on HDL. Biochemistry, 2012, 51, 4633-4641.	1.2	45
43	Pressure Perturbation Calorimetry of Lipoproteins Reveals an Endothermic Transition without Detectable Volume Changes. Implications for Adsorption of Apolipoprotein to a Phospholipid Surface. Biochemistry, 2011, 50, 3919-3927.	1.2	10
44	Effects of phospholipase A2 and its products on structural stability of human LDL: relevance to formation of LDL-derived lipid droplets. Journal of Lipid Research, 2011, 52, 549-557.	2.0	24
45	Human Plasma Very Low-Density Lipoproteins Are Stabilized by Electrostatic Interactions and Destabilized by Acidic pH. Journal of Lipids, 2011, 2011, 1-11.	1.9	5
46	Pressure perturbation calorimetry of apolipoproteins in solution and in model lipoproteins. Proteins: Structure, Function and Bioinformatics, 2010, 78, 1175-1185.	1.5	7
47	Effects of cholesterol on thermal stability of discoidal high density lipoproteins. Journal of Lipid Research, 2010, 51, 324-333.	2.0	12
48	Effects of Oxidation on Structural Stability and Remodeling of Human Very Low Density Lipoprotein. Biochemistry, 2010, 49, 9584-9593.	1.2	9
49	The Critical Role of the Constant Region in Thermal Stability and Aggregation of Amyloidogenic Immunoglobulin Light Chain. Biochemistry, 2010, 49, 9848-9857.	1.2	79
50	Effects of Particle Size and Protein Composition on Structural Stability and Functional Remodeling of Human Highâ€Density Lipoproteins. FASEB Journal, 2010, 24, 474.2.	0.2	0
51	Differential Stability of High-density Lipoprotein Subclasses: Effects of Particle Size and Protein Composition. Journal of Molecular Biology, 2009, 387, 628-638.	2.0	30
52	Mild Oxidation Promotes and Advanced Oxidation Impairs Remodeling of Human High-Density Lipoprotein In Vitro. Journal of Molecular Biology, 2008, 376, 997-1007.	2.0	24
53	Correlation of Structural Stability with Functional Remodeling of High-Density Lipoproteins: The Importance of Being Disordered. Biochemistry, 2008, 47, 11393-11397.	1.2	35
54	Effects of Protein Oxidation on the Structure and Stability of Model Discoidal High-Density Lipoproteins. Biochemistry, 2008, 47, 3875-3882.	1.2	34

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55	Effects of acyl chain length, unsaturation, and pH on thermal stability of model discoidal HDLs*. Journal of Lipid Research, 2008, 49, 1752-1761.	2.0	22
56	Does Alpha-Helix Folding Necessarily Provide an Energy Source for the Protein-Lipid Binding?. Protein and Peptide Letters, 2007, 14, 171-174.	0.4	2
57	Role of Secondary Structure in Proteinâˆ'Phospholipid Surface Interactions:â€‰ Reconstitution and Denaturation of Apolipoprotein C-I:DMPC Complexes. Biochemistry, 2007, 46, 4184-4194.	1.2	9
58	Effects of Oxidation on the Structure and Stability of Human Low-Density Lipoprotein. Biochemistry, 2007, 46, 5790-5797.	1.2	29
59	Thermal Transitions in Human Very-Low-Density Lipoprotein:â€‰ Fusion, Rupture, and Dissociation of HDL-like Particles. Biochemistry, 2007, 46, 6043-6049.	1.2	19
60	Effects of Salt on the Thermal Stability of Human Plasma High-Density Lipoprotein. Biochemistry, 2006, 45, 4620-4628.	1.2	46
61	Monitoring protein aggregation during thermal unfolding in circular dichroism experiments. Protein Science, 2006, 15, 635-639.	3.1	189
62	Apolipoprotein structure and dynamics. Current Opinion in Lipidology, 2005, 16, 287-294.	1.2	39
63	Electrostatic Effects on the Stability of Discoidal High-Density Lipoproteins. Biochemistry, 2005, 44, 10218-10226.	1.2	23
64	Structural Basis for Thermal Stability of Human Low-Density Lipoproteinâ€. Biochemistry, 2005, 44, 3965-3971.	1.2	35
65	Kinetic Stabilization and Fusion of Apolipoprotein A-2:DMPC Disks: Comparison with apoA-1 and apoC-1. Biophysical Journal, 2005, 88, 2907-2918.	0.2	45
66	Thermodynamic Stability of a Îºl Immunoglobulin Light Chain: Relevance to Multiple Myeloma. Biophysical Journal, 2005, 88, 4232-4242.	0.2	21
67	Poly(ethylene glycol)-Induced Fusion and Destabilization of Human Plasma High-Density Lipoproteinsâ€. Biochemistry, 2004, 43, 5520-5531.	1.2	14
68	Structural Studies of N- and C-Terminally Truncated Human Apolipoprotein A-lâ€. Biochemistry, 2003, 42, 6881-6890.	1.2	36
69	Lipid-Binding Studies of Human Apolipoprotein A-I and Its Terminally Truncated Mutantsâ€. Biochemistry, 2003, 42, 13260-13268.	1.2	54
70	Effects of Mutations in Apolipoprotein C-1 on the Reconstitution and Kinetic Stability of Discoidal Lipoproteinsâ€. Biochemistry, 2003, 42, 4751-4758.	1.2	16
71	Human Plasma High-density Lipoproteins are Stabilized by Kinetic Factors. Journal of Molecular Biology, 2003, 328, 183-192.	2.0	80
72	Complex of Human Apolipoprotein C-1 with Phospholipid:Â Thermodynamic or Kinetic Stability?â€. Biochemistry, 2002, 41, 7373-7384.	1.2	58

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73	Solution Conformation of Human Apolipoprotein C-1 Inferred from Proline Mutagenesis:Â Far- and Near-UV CD Studyâ€. Biochemistry, 2001, 40, 12178-12185.	1.2	24
74	Temperature-dependent Î²-sheet formation in Î²-amyloid AÎ²1â€"40 peptide in water: uncoupling Î²-structure folding from aggregation. BBA - Proteins and Proteomics, 2000, 1476, 93-102.	2.1	122
75	Probing the Lipid-Free Structure and Stability of Apolipoprotein A-I by Mutationâ€. Biochemistry, 2000, 39, 15910-15919.	1.2	45
76	Probing the conformation of a human apolipoprotein Câ€1 by amino acid substitutions and trimethylamineâ€Nâ€oxide. Protein Science, 1999, 8, 2055-2064.	3.1	25
77	Thermodynamic Analysis of Human Plasma Apolipoprotein C-1:Â High-Temperature Unfolding and Low-Temperature Oligomer Dissociationâ€. Biochemistry, 1998, 37, 1283-1291.	1.2	37
78	Thermal unfolding of human high-density apolipoprotein A-1: implications for a lipid-free molten globular state.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 2991-2995.	3.3	178
79	Highâ€and lowâ€temperature unfolding of human highâ€density apolipoprotein Aâ€2. Protein Science, 1996, 5, 1874-1882.	3.1	46
80	Structure and selectivity of a monovalent cation binding site in cubic insulin crystals. Biophysical Journal, 1994, 66, 286-292.	0.2	14
81	Stereospecific dihaloalkane binding in a pH-sensitive cavity in cubic insulin crystals.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 12388-12392.	3.3	22
82	Conformational changes in cubic insulin crystals in the pH range 7â€"11. Biophysical Journal, 1992, 63, 1210-1220.	0.2	63
83	Monovalent cation binding to cubic insulin crystals. Biophysical Journal, 1992, 61, 604-611.	0.2	41