

John S Philo

List of Publications by Year in descending order

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77
papers

5,030
citations

117625

34
h-index

91884

69
g-index

81
all docs

81
docs citations

81
times ranked

4828
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-Exclusion Chromatography with On-Line Light-Scattering, Absorbance, and Refractive Index Detectors for Studying Proteins and Their Interactions. <i>Analytical Biochemistry</i> , 1996, 240, 155-166.	2.4	487
2	Role of Arginine in Protein Refolding, Solubilization, and Purification. <i>Biotechnology Progress</i> , 2004, 20, 1301-1308.	2.6	378
3	A Method for Directly Fitting the Time Derivative of Sedimentation Velocity Data and an Alternative Algorithm for Calculating Sedimentation Coefficient Distribution Functions. <i>Analytical Biochemistry</i> , 2000, 279, 151-163.	2.4	253
4	Mechanisms of Protein Aggregation. <i>Current Pharmaceutical Biotechnology</i> , 2009, 10, 348-351.	1.6	246
5	An improved function for fitting sedimentation velocity data for low-molecular-weight solutes. <i>Biophysical Journal</i> , 1997, 72, 435-444.	0.5	233
6	Is any measurement method optimal for all aggregate sizes and types?. <i>AAPS Journal</i> , 2006, 8, E564-E571.	4.4	228
7	Improved methods for fitting sedimentation coefficient distributions derived by time-derivative techniques. <i>Analytical Biochemistry</i> , 2006, 354, 238-246.	2.4	210
8	Dimerization of the Extracellular Domain of the Erythropoietin (EPO) Receptor by EPO: One High-Affinity and One Low-Affinity Interaction. <i>Biochemistry</i> , 1996, 35, 1681-1691.	2.5	200
9	The critical role of mobile phase composition in size exclusion chromatography of protein pharmaceuticals. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 1674-1692.	3.3	188
10	Conformation of sLex Tetrasaccharide, Free in Solution and Bound to E-, P-, and L-Selectin,. <i>Journal of the American Chemical Society</i> , 1997, 119, 1727-1736.	13.7	181
11	Elution of antibodies from a Protein-A column by aqueous arginine solutions. <i>Protein Expression and Purification</i> , 2004, 36, 244-248.	1.3	181
12	A Critical Review of Methods for Size Characterization of Non-Particulate Protein Aggregates. <i>Current Pharmaceutical Biotechnology</i> , 2009, 10, 359-372.	1.6	180
13	Effects of acid exposure on the conformation, stability, and aggregation of monoclonal antibodies. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 66, 954-962.	2.6	176
14	Online Size-Exclusion High-Performance Liquid Chromatography Light Scattering and Differential Refractometry Methods to Determine Degree of Polymer Conjugation to Proteins and Protein-Protein or Protein-Ligand Association States. <i>Analytical Biochemistry</i> , 2001, 299, 136-146.	2.4	125
15	Mechanism of photoinhibition of photosynthetic water oxidation by chloride depletion and fluoride substitution: oxidation of a protein residue. <i>Biochemistry</i> , 1990, 29, 10814-10822.	2.5	109
16	High-sensitivity magnetic susceptometer employing superconducting technology. <i>Review of Scientific Instruments</i> , 1977, 48, 1529-1536.	1.3	88
17	Structure, signaling mechanism and regulation of the natriuretic peptide receptor guanylate cyclase. <i>FEBS Journal</i> , 2011, 278, 1818-1829.	4.7	79
18	Dimerization of the Extracellular Domain of Granulocyte-Colony Stimulating Factor Receptor by Ligand Binding: A Monovalent Ligand Induces 2:2 Complexes. <i>Biochemistry</i> , 1996, 35, 4886-4896.	2.5	74

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19	Binding of Neu Differentiation Factor with the Extracellular Domain of Her2 and Her3. <i>Journal of Biological Chemistry</i> , 1995, 270, 24604-24608.	3.4	70
20	Human Stem Cell Factor Dimer Forms a Complex with Two Molecules of the Extracellular Domain of Its Receptor, Kit. <i>Journal of Biological Chemistry</i> , 1996, 271, 6895-6902.	3.4	65
21	Stoichiometry of Heparin Binding to Basic Fibroblast Growth Factor. <i>Archives of Biochemistry and Biophysics</i> , 1994, 308, 267-273.	3.0	57
22	Biochemical, Biophysical, and Pharmacological Characterization of Bacterially Expressed Human Agouti-Related Protein. <i>Biochemistry</i> , 1998, 37, 16041-16052.	2.5	54
23	Monitoring the homogeneity of adenovirus preparations (a gene therapy delivery system) using analytical ultracentrifugation. <i>Analytical Biochemistry</i> , 2007, 362, 16-37.	2.4	51
24	Temperature dependence of the diamagnetism of water. <i>Journal of Chemical Physics</i> , 1980, 72, 4429-4433.	3.0	46
25	Re-examining the oligomerization state of macrophage migration inhibitory factor (MIF) in solution. <i>Biophysical Chemistry</i> , 2004, 108, 77-87.	2.8	45
26	Complete Sequence, Subunit Structure, and Complexes with Pancreatic α -Amylase of an α -Amylase Inhibitor from <i>Phaseolus vulgaris</i> White Kidney Beans. <i>Journal of Biochemistry</i> , 1996, 120, 177-183.	1.7	40
27	Photosynthetic oxygen evolution: changes in magnetism of the water-oxidizing enzyme. <i>Journal of the American Chemical Society</i> , 1989, 111, 3221-3225.	13.7	38
28	Refolding of brain-derived neurotrophic factor from guanidine hydrochloride: Kinetic trapping in a collapsed form which is incompetent for dimerization. <i>Biochemistry</i> , 1993, 32, 10812-10818.	2.5	38
29	Studies on the Structure and Function of Glycosylated and Nonglycosylated neu Differentiation Factors. <i>Journal of Biological Chemistry</i> , 1995, 270, 4784-4791.	3.4	37
30	Human Hepatic Lipase Subunit Structure Determination. <i>Journal of Biological Chemistry</i> , 1996, 271, 22931-22936.	3.4	37
31	Sedimentation equilibrium analysis of mixed associations using numerical constraints to impose mass or signal conservation. <i>Methods in Enzymology</i> , 2000, 321, 100-120.	1.0	37
32	Reversibility of heat-induced denaturation of the recombinant human megakaryocyte growth and development factor. <i>Pharmaceutical Research</i> , 1999, 16, 799-807.	3.5	36
33	Heparin Is Essential for a Single Keratinocyte Growth Factor Molecule To Bind and Form a Complex with Two Molecules of the Extracellular Domain of Its Receptor. <i>Biochemistry</i> , 1999, 38, 2523-2534.	2.5	36
34	Induction of α -Helix in the β -Sheet Protein Tumor Necrosis Factor- α : Thermal- and Trifluoroethanol-Induced Denaturation at Neutral pH. <i>Biochemistry</i> , 1996, 35, 11447-11453.	2.5	34
35	Granulocyte colony stimulating factor maintains a thermally stable, compact, partially folded structure at pH 2. <i>Chemical Biology and Drug Design</i> , 1997, 50, 310-318.	1.1	33
36	Reversibly bound chloride in the atrial natriuretic peptide receptor hormone-binding domain: Possible allosteric regulation and a conserved structural motif for the chloride-binding site. <i>Protein Science</i> , 2010, 19, 544-557.	7.6	32

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37	Kinetic and Thermodynamic Analysis of Thermal Unfolding of Recombinant Erythropoietin. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 1321-1327.	1.3	31
38	Induction of α -Helix in the β -Sheet Protein Tumor Necrosis Factor- α : Acid-Induced Denaturation. <i>Biochemistry</i> , 1996, 35, 11454-11460.	2.5	30
39	ErbB Receptor Activation, Cell Morphology Changes, and Apoptosis Induced by Anti-Her2 Monoclonal Antibodies. <i>Biochemical and Biophysical Research Communications</i> , 1996, 226, 59-69.	2.1	29
40	Secondary and quaternary structural transition of the halophilic archaeon nucleoside diphosphate kinase under high- and low-salt conditions. <i>FEMS Microbiology Letters</i> , 2002, 216, 235-241.	1.8	28
41	Neutron Reflectometry Studies of the Adsorbed Structure of the Amelogenin, LRAP. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3098-3109.	2.6	28
42	Effect of the intermolecular disulfide bond on the conformation and stability of glial cell line-derived neurotrophic factor. <i>Protein Engineering, Design and Selection</i> , 2002, 15, 59-64.	2.1	27
43	Protein isolated from biopharmaceutical formulations cannot be used for comparative studies: Follow-up to a case study using Epoetin Alfa from Epogen and EPREX. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 3214-3225.	3.3	27
44	Dimerization of Granulocyte-Colony Stimulating Factor Receptor: The Ig Plus CRH Construct of Granulocyte-Colony Stimulating Factor Receptor Forms a 2:2 Complex with a Ligand. <i>Journal of Biochemistry</i> , 1997, 121, 370-375.	1.7	25
45	Diamagnetism of human apo-, oxy-, and carbon monoxyhemoglobin. <i>Biochemistry</i> , 1984, 23, 865-872.	2.5	23
46	Acid-induced unfolding of brain-derived neurotrophic factor results in the formation of a monomeric "A state". <i>Biochemistry</i> , 1993, 32, 10819-10825.	2.5	23
47	Structural Characterization of an α -Amylase Inhibitor from a Wild Common Bean (<i>Phaseolus vulgaris</i>): Insight into the Common Structural Features of Leguminous α -Amylase Inhibitors. <i>Journal of Biochemistry</i> , 1997, 121, 350-354.	1.7	21
48	Quaternary structure has little influence on spin states in mixed-spin human methemoglobins. <i>Biochemistry</i> , 1985, 24, 2985-2992.	2.5	19
49	Calcium depletion from the photosynthetic water-oxidizing complex reveals photooxidation of a protein residue. <i>Biochemistry</i> , 1991, 30, 4740-4747.	2.5	19
50	Recombinant Rat Fibroblast Growth Factor-16: Structure and Biological Activity. <i>Archives of Biochemistry and Biophysics</i> , 1999, 361, 34-46.	3.0	18
51	The inorganic biochemistry of photosynthetic water oxidation. <i>Biochemical Society Transactions</i> , 1994, 22, 323-327.	3.4	17
52	Sites of iodination in recombinant human brain-derived neurotrophic factor and its effect on neurotrophic activity. <i>Protein Science</i> , 1993, 2, 1664-1674.	7.6	16
53	Characterization of Keratinocyte Growth Factor Binding to Heparin and Dextran Sulfate. <i>Archives of Biochemistry and Biophysics</i> , 1996, 332, 41-46.	3.0	15
54	The leucine-rich amelogenin protein (LRAP) is primarily monomeric and unstructured in physiological solution. <i>Journal of Structural Biology</i> , 2015, 190, 81-91.	2.8	15

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55	Kinetics of hemoglobin-carbon monoxide reactions measured with a superconducting magnetometer: a new method for fast reactions in solution.. Proceedings of the National Academy of Sciences of the United States of America, 1977, 74, 2620-2623.	7.1	14
56	The importance of Arg40 and 45 in the mitogenic activity and structural stability of basic fibroblast growth factor: Effects of acidic amino acid substitutions. The Protein Journal, 1995, 14, 263-274.	1.1	13
57	Interactions between NFkappaB and its inhibitor ikappaB: biophysical characterization of a NFkappaB/ikappaB-alpha complex. The Protein Journal, 1998, 17, 757-763.	1.1	13
58	Development of Calcitonin Salmon Nasal Spray: Similarity of Peptide Formulated in Chlorobutanol Compared to Benzalkonium Chloride as Preservative. Journal of Pharmaceutical Sciences, 2009, 98, 3691-3706.	3.3	12
59	Densimetric determination of equilibrium binding of sucrose octasulfate with basic fibroblast growth factor. The Protein Journal, 1993, 12, 689-693.	1.1	11
60	Changes in conformation and stability upon formation of complexes of erythropoietin (EPO) and soluble EPO receptor. The Protein Journal, 1997, 16, 213-225.	1.1	11
61	A light scattering/size exclusion chromatography method for studying the stoichiometry of a protein-protein complex. Techniques in Protein Chemistry, 1996, , 23-31.	0.3	10
62	Structure and solubility of interleukinâ€”2 in sodium dodecyl sulfate. International Journal of Peptide and Protein Research, 1994, 43, 583-587.	0.1	10
63	Limiting the sedimentation coefficient for sedimentation velocity data analysis: Partial boundary modeling and g(sâˆ—) approaches revisited. Analytical Biochemistry, 2011, 412, 189-202.	2.4	10
64	Characterizing Biopharmaceuticals using Analytical Ultracentrifugation. , 2015, , 211-260.		10
65	Quaternary structure dynamics and carbon monoxide binding kinetics of hemoglobin valency hybrids. Biophysical Journal, 1996, 70, 1949-1965.	0.5	9
66	A Chimera-Like Â—Amylase Inhibitor Suggesting the Evolution of Phaseolus vulgaris Â—Amylase Inhibitor. Journal of Biochemistry, 2000, 128, 139-144.	1.7	9
67	Chromatographic determination of extinction coefficients of non-glycosylated proteins using refractive index (RI) and UV absorbance (UV) detectors: Applications for studying protein interactions by size exclusion chromatography with light-scattering, UV, and RI detectors. Techniques in Protein Chemistry, 1997, 8, 113-119.	0.3	8
68	The Glucagon-Like Peptide 2 Analog Teduglutide Reversibly Associates to Form Pentamers. Journal of Pharmaceutical Sciences, 2020, 109, 775-784.	3.3	4
69	Overview of the Quantitation of Protein Interactions. Current Protocols in Protein Science, 1999, 17, Unit20.1.	2.8	3
70	Structure of Folding Intermediates at pH 4.0 and Native State of Microbial Transglutaminase. Bioscience, Biotechnology and Biochemistry, 2003, 67, 291-294.	1.3	3
71	Characterizing biopharmaceuticals using analytical ultracentrifugation. , 2020, , 225-283.		3
72	Kinetics of oxygen binding and subunit assembly for the hemoglobin alpha subunit. Biophysical Chemistry, 1992, 43, 61-71.	2.8	2

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73	Copper Staining Method for Extracting Biologically Active Proteins from Native Gels. Bioscience, Biotechnology and Biochemistry, 2001, 65, 1315-1320.	1.3	2
74	Molecular Cloning of groESL Locus, and Purification and Characterization of Chaperonins, GroEL and GroES, from Bacillus brevis. Bioscience, Biotechnology and Biochemistry, 2001, 65, 1379-1387.	1.3	2
75	Commercial superconducting squid systems. AIP Conference Proceedings, 1978, , .	0.4	1
76	Comparison of solution properties of human and rat ciliary neurotrophic factor. Chemical Biology and Drug Design, 1997, 50, 300-309.	1.1	1
77	<title>Probing receptor-ligand interactions by sedimentation equilibrium</title>. , 1997, 2985, 170.		0