

John S Philo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78 papers	4,454 citations	33 h-index	66 g-index
81 ext. papers	4,726 ext. citations	3.8 avg, IF	5.62 L-index

#	Paper	IF	Citations
78	Characterizing biopharmaceuticals using analytical ultracentrifugation 2020 , 225-283		0
77	The Glucagon-Like Peptide 2 Analog Teduglutide Reversibly Associates to Form Pentamers. <i>Journal of Pharmaceutical Sciences</i> , 2020 , 109, 775-784	3.9	2
76	The leucine-rich amelogenin protein (LRAP) is primarily monomeric and unstructured in physiological solution. <i>Journal of Structural Biology</i> , 2015 , 190, 81-91	3.4	12
75	Characterizing Biopharmaceuticals using Analytical Ultracentrifugation 2015 , 211-260		5
74	Neutron reflectometry studies of the adsorbed structure of the amelogenin, LRAP. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 3098-109	3.4	26
73	Comparison of Methods for Soluble Aggregate Detection and Size Characterization 2012 , 303-333		
72	Structure, signaling mechanism and regulation of the natriuretic peptide receptor guanylate cyclase. <i>FEBS Journal</i> , 2011 , 278, 1818-29	5.7	60
71	Limiting the sedimentation coefficient for sedimentation velocity data analysis: partial boundary modeling and g(s) approaches revisited. <i>Analytical Biochemistry</i> , 2011 , 412, 189-202	3.1	7
70	The critical role of mobile phase composition in size exclusion chromatography of protein pharmaceuticals. <i>Journal of Pharmaceutical Sciences</i> , 2010 , 99, 1674-92	3.9	158
69	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, 544-57	6.3	22
68	Development of Calcitonin Salmon Nasal Spray: similarity of peptide formulated in chlorobutanol compared to benzalkonium chloride as preservative. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 3691-706	3.9	11
67	A critical review of methods for size characterization of non-particulate protein aggregates. <i>Current Pharmaceutical Biotechnology</i> , 2009 , 10, 359-72	2.6	168
66	Mechanisms of protein aggregation. <i>Current Pharmaceutical Biotechnology</i> , 2009 , 10, 348-51	2.6	217
65	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, 3214-25	3.9	27
64	Monitoring the homogeneity of adenovirus preparations (a gene therapy delivery system) using analytical ultracentrifugation. <i>Analytical Biochemistry</i> , 2007 , 362, 16-37	3.1	33
63	Effects of acid exposure on the conformation, stability, and aggregation of monoclonal antibodies. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 66, 954-62	4.2	149
62	Is any measurement method optimal for all aggregate sizes and types?. <i>AAPS Journal</i> , 2006 , 8, E564-71	3.7	205

61	Improved methods for fitting sedimentation coefficient distributions derived by time-derivative techniques. <i>Analytical Biochemistry</i> , 2006 , 354, 238-46	3.1	185
60	Role of arginine in protein refolding, solubilization, and purification. <i>Biotechnology Progress</i> , 2004 , 20, 1301-8	2.8	327
59	Re-examining the oligomerization state of macrophage migration inhibitory factor (MIF) in solution. <i>Biophysical Chemistry</i> , 2004 , 108, 77-87	3.5	40
58	Elution of antibodies from a Protein-A column by aqueous arginine solutions. <i>Protein Expression and Purification</i> , 2004 , 36, 244-8	2	157
57	Structure of folding intermediates at pH 4.0 and native state of microbial transglutaminase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003 , 67, 291-4	2.1	3
56	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, 235-41	2.9	25
55	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	1.9	22
54	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, 136-46	3.1	109
53	Copper staining method for extracting biologically active proteins from native gels. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001 , 65, 1315-20	2.1	2
52	Molecular cloning of groESL locus, and purification and characterization of chaperonins, GroEL and GroES, from <i>Bacillus brevis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2001 , 65, 1379-87	2.1	2
51	Kinetic and thermodynamic analysis of thermal unfolding of recombinant erythropoietin. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001 , 65, 1321-7	2.1	29
50	Overview of the quantitation of protein interactions. <i>Current Protocols in Protein Science</i> , 2001 , Chapter 20, Unit20.1	3.1	3
49	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, 151-63	3.1	239
48	A chimera-like alpha-amylase inhibitor suggesting the evolution of <i>Phaseolus vulgaris</i> alpha-amylase inhibitor. <i>Journal of Biochemistry</i> , 2000 , 128, 139-44	3.1	8
47	Sedimentation equilibrium analysis of mixed associations using numerical constraints to impose mass or signal conservation. <i>Methods in Enzymology</i> , 2000 , 321, 100-20	1.7	34
46	Reversibility of heat-induced denaturation of the recombinant human megakaryocyte growth and development factor. <i>Pharmaceutical Research</i> , 1999 , 16, 799-807	4.5	33
45	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, 2523-34	3.2	34
44	Recombinant rat fibroblast growth factor-16: structure and biological activity. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 361, 34-46	4.1	17

43	Interactions between NFkappaB and its inhibitor ikappaB: biophysical characterization of a NFkappaB/ikappaB-alpha complex. <i>The Protein Journal</i> , 1998 , 17, 757-63		13
42	Biochemical, biophysical, and pharmacological characterization of bacterially expressed human agouti-related protein. <i>Biochemistry</i> , 1998 , 37, 16041-52	3.2	48
41	Comparison of solution properties of human and rat ciliary neurotrophic factor. <i>Chemical Biology and Drug Design</i> , 1997 , 50, 300-9		1
40	Granulocyte-colony stimulating factor maintains a thermally stable, compact, partially folded structure at pH2. <i>Chemical Biology and Drug Design</i> , 1997 , 50, 310-8		30
39	Structural characterization of an alpha-amylase inhibitor from a wild common bean (<i>Phaseolus vulgaris</i>): insight into the common structural features of leguminous alpha-amylase inhibitors. <i>Journal of Biochemistry</i> , 1997 , 121, 350-4	3.1	16
38	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, 370-5	3.1	21
37	Probing receptor-ligand interactions by sedimentation equilibrium 1997 , 2985, 170		
36	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. <i>Techniques in Protein Chemistry</i> , 1997 , 8, 113-119		7
35	An improved function for fitting sedimentation velocity data for low-molecular-weight solutes. <i>Biophysical Journal</i> , 1997 , 72, 435-44	2.9	213
34	Changes in conformation and stability upon formation of complexes of erythropoietin (EPO) and soluble EPO receptor. <i>The Protein Journal</i> , 1997 , 16, 213-25		10
33	Conformation of sLex Tetrasaccharide, Free in Solution and Bound to E-, P-, and L-SelectinIII <i>Journal of the American Chemical Society</i> , 1997 , 119, 1727-1736	16.4	166
32	Quaternary structure dynamics and carbon monoxide binding kinetics of hemoglobin valency hybrids. <i>Biophysical Journal</i> , 1996 , 70, 1949-65	2.9	9
31	Induction of alpha-helix in the beta-sheet protein tumor necrosis factor-alpha: acid-induced denaturation. <i>Biochemistry</i> , 1996 , 35, 11454-60	3.2	24
30	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, 1681-91	3.2	186
29	Induction of alpha-helix in the beta-sheet protein tumor necrosis factor-alpha: thermal- and trifluoroethanol-induced denaturation at neutral pH. <i>Biochemistry</i> , 1996 , 35, 11447-53	3.2	31
28	Characterization of keratinocyte growth factor binding to heparin and dextran sulfate. <i>Archives of Biochemistry and Biophysics</i> , 1996 , 332, 41-6	4.1	14
27	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	3.4	26
26	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, 4886-96	3.2	65

25	Complete sequence, subunit structure, and complexes with pancreatic alpha-amylase of an alpha-amylase inhibitor from Phaseolus vulgaris white kidney beans. <i>Journal of Biochemistry</i> , 1996 , 120, 177-83	3.1	35
24	A light scattering/size exclusion chromatography method for studying the stoichiometry of a protein-protein complex. <i>Techniques in Protein Chemistry</i> , 1996 , 23-31		9
23	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, 155-66	3.1	443
22	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, 6895-902	5.4	56
21	Human hepatic lipase subunit structure determination. <i>Journal of Biological Chemistry</i> , 1996 , 271, 22931-4	5.4	32
20	The importance of Arg40 and 45 in the mitogenic activity and structural stability of basic fibroblast growth factor: effects of acidic amino acid substitutions. <i>The Protein Journal</i> , 1995 , 14, 263-74		12
19	Binding of Neu differentiation factor with the extracellular domain of Her2 and Her3. <i>Journal of Biological Chemistry</i> , 1995 , 270, 24604-8	5.4	59
18	Studies on the structure and function of glycosylated and nonglycosylated neu differentiation factors. Similarities and differences of the alpha and beta isoforms. <i>Journal of Biological Chemistry</i> , 1995 , 270, 4784-91	5.4	36
17	Structure and solubility of interleukin-2 in sodium dodecyl sulfate. <i>International Journal of Peptide and Protein Research</i> , 1994 , 43, 583-7		10
16	Measuring Sedimentation, Diffusion, and Molecular Weights of Small Molecules by Direct Fitting of Sedimentation Velocity Concentration Profiles 1994 , 156-170		44
15	Stoichiometry of heparin binding to basic fibroblast growth factor. <i>Archives of Biochemistry and Biophysics</i> , 1994 , 308, 267-73	4.1	54
14	The inorganic biochemistry of photosynthetic water oxidation. <i>Biochemical Society Transactions</i> , 1994 , 22, 323-7	5.1	17
13	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, 10812-8	3.2	36
12	Acid-induced unfolding of brain-derived neurotrophic factor results in the formation of a monomeric "a state". <i>Biochemistry</i> , 1993 , 32, 10819-25	3.2	20
11	Sites of iodination in recombinant human brain-derived neurotrophic factor and its effect on neurotrophic activity. <i>Protein Science</i> , 1993 , 2, 1664-74	6.3	15
10	Densimetric determination of equilibrium binding of sucrose octasulfate with basic fibroblast growth factor. <i>The Protein Journal</i> , 1993 , 12, 689-93		10
9	Kinetics of oxygen binding and subunit assembly for the hemoglobin alpha subunit. <i>Biophysical Chemistry</i> , 1992 , 43, 61-71	3.5	2
8	Ca ²⁺ depletion from the photosynthetic water-oxidizing complex reveals photooxidation of a protein residue. <i>Biochemistry</i> , 1991 , 30, 4740-7	3.2	18

7	Mechanism of photoinhibition of photosynthetic water oxidation by Cl ⁻ depletion and F-substitution: oxidation of a protein residue. <i>Biochemistry</i> , 1990 , 29, 10814-22	3.2	105
6	Photosynthetic oxygen evolution: changes in magnetism of the water-oxidizing enzyme. <i>Journal of the American Chemical Society</i> , 1989 , 111, 3221-3225	16.4	35
5	Quaternary structure has little influence on spin states in mixed-spin human methemoglobins. <i>Biochemistry</i> , 1985 , 24, 2985-92	3.2	15
4	Diamagnetism of human apo-, oxy-, and (carbonmonoxy)hemoglobin. <i>Biochemistry</i> , 1984 , 23, 865-72	3.2	19
3	Temperature dependence of the diamagnetism of water. <i>Journal of Chemical Physics</i> , 1980 , 72, 4429-4433	3.9	41
2	Kinetics of hemoglobin-carbon monoxide reactions measured with a superconducting magnetometer: a new method for fast reactions in solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1977 , 74, 2620-3	11.5	10
1	High-sensitivity magnetic susceptometer employing superconducting technology. <i>Review of Scientific Instruments</i> , 1977 , 48, 1529-1536	1.7	65