

David J Scott

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,510
citations

201385

27
h-index

223531

46
g-index

90
all docs

90
docs citations

90
times ranked

3872
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying the concentration dependence of sedimentation coefficients for globular macromolecules: a continuing age-old problem. <i>Biophysical Reviews</i> , 2021, 13, 273-288.	1.5	8
2	Thermodynamics of semi-specific ligand recognition: the binding of dipeptides to the E.coli dipeptide binding protein DppA. <i>European Biophysics Journal</i> , 2021, 50, 1103-1110.	1.2	4
3	Engineering the Human Fc Region Enables Direct Cell Killing by Cancer Glycan-Targeting Antibodies without the Need for Immune Effector Cells or Complement. <i>Cancer Research</i> , 2020, 80, 3399-3412.	0.4	7
4	Structure-Guided Enhancement of Selectivity of Chemical Probe Inhibitors Targeting Bacterial Seryl-tRNA Synthetase. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 9703-9717.	2.9	5
5	Experimental determination of second virial coefficients by small-angle X-ray scattering: a problem revisited. <i>European Biophysics Journal</i> , 2019, 48, 781-787.	1.2	0
6	Use of molecular crowding for the detection of protein self-association by size-exclusion chromatography. <i>Analytical Biochemistry</i> , 2019, 584, 113392.	1.1	2
7	Structural modeling of an outer membrane electron conduit from a metal-reducing bacterium suggests electron transfer via periplasmic redox partners. <i>Journal of Biological Chemistry</i> , 2018, 293, 8103-8112.	1.6	51
8	Allowance for boundary sharpening in the determination of diffusion coefficients by sedimentation velocity: a historical perspective. <i>Biophysical Reviews</i> , 2018, 10, 3-13.	1.5	4
9	Allowance for radial dilution in evaluating the concentration dependence of sedimentation coefficients for globular proteins. <i>European Biophysics Journal</i> , 2018, 47, 291-295.	1.2	9
10	The role of the jaw subdomain of peptidoglycan glycosyltransferases for lipid II polymerization. <i>Cell Surface</i> , 2018, 2, 54-66.	1.5	8
11	Thermodynamics and Thermodynamic Nonideality. , 2018, , 1-8.		0
12	Intrinsic disorder in the partitioning protein KorB persists after co-operative complex formation with operator DNA and KorA. <i>Biochemical Journal</i> , 2017, 474, 3121-3135.	1.7	6
13	The Vip3Ag4 Insecticidal Protoxin from <i>Bacillus thuringiensis</i> Adopts A Tetrameric Configuration That Is Maintained on Proteolysis. <i>Toxins</i> , 2017, 9, 165.	1.5	36
14	STAT2 Is a Pervasive Cytokine Regulator due to Its Inhibition of STAT1 in Multiple Signaling Pathways. <i>PLoS Biology</i> , 2016, 14, e2000117.	2.6	55
15	SilE is an intrinsically disordered periplasmic α -molecular sponge-involved in bacterial silver resistance. <i>Molecular Microbiology</i> , 2016, 101, 731-742.	1.2	38
16	Accounting for thermodynamic non-ideality in the Guinier region of small-angle scattering data of proteins. <i>Biophysical Reviews</i> , 2016, 8, 441-444.	1.5	2
17	Defining the Intrinsically Disordered C-Terminal Domain of SSB Reveals DNA-Mediated Compaction. <i>Journal of Molecular Biology</i> , 2016, 428, 357-364.	2.0	12
18	Flexibility of KorA, a plasmid-encoded, global transcription regulator, in the presence and the absence of its operator. <i>Nucleic Acids Research</i> , 2016, 44, 4947-4956.	6.5	6

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19	Analytical ultracentrifugation: A versatile tool for the characterisation of macromolecular complexes in solution. <i>Methods</i> , 2016, 95, 55-61.	1.9	29
20	Atomistic modelling of scattering data in the Collaborative Computational Project for Small Angle Scattering (CCP-SAS). <i>Journal of Applied Crystallography</i> , 2016, 49, 1861-1875.	1.9	67
21	Characterization of Intrinsically Disordered Proteins by Analytical Ultracentrifugation. <i>Methods in Enzymology</i> , 2015, 562, 225-239.	0.4	6
22	Evaluation of diffusion coefficients by means of an approximate steady-state condition in sedimentation velocity distributions. <i>Analytical Biochemistry</i> , 2015, 490, 20-25.	1.1	4
23	The osmotic second virial coefficient for protein self-interaction: Use and misuse to describe thermodynamic nonideality. <i>Analytical Biochemistry</i> , 2015, 490, 55-65.	1.1	18
24	N-terminal Domain of Prion Protein Directs Its Oligomeric Association. <i>Journal of Biological Chemistry</i> , 2014, 289, 25497-25508.	1.6	20
25	Concentration dependence of translational diffusion coefficients for globular proteins. <i>Analyst, The</i> , 2014, 139, 6242-6248.	1.7	27
26	Structure and Catalytic Regulatory Function of Ubiquitin Specific Protease 11 N-Terminal and Ubiquitin-like Domains. <i>Biochemistry</i> , 2014, 53, 2966-2978.	1.2	34
27	Enthalpy/Entropy Compensation Effects from Cavity Desolvation Underpin Broad Ligand Binding Selectivity for Rat Odorant Binding Protein 3. <i>Biochemistry</i> , 2014, 53, 2371-2379.	1.2	20
28	A Hydrodynamic Comparison of Solution and Gas Phase Proteins and Their Complexes. <i>Journal of Physical Chemistry B</i> , 2014, 118, 8489-8495.	1.2	31
29	Engineering a reagentless biosensor for single-stranded DNA to measure real-time helicase activity in <i>Bacillus</i> . <i>Biosensors and Bioelectronics</i> , 2014, 61, 579-586.	5.3	6
30	Anomalous Small Angle X-Ray Scattering Simulations: Proof of Concept for Distance Measurements for Nanoparticle-Labelled Biomacromolecules in Solution. <i>PLoS ONE</i> , 2014, 9, e95664.	1.1	10
31	Crystal structure of signal regulatory protein gamma (SIRP γ) in complex with an antibody Fab fragment. <i>BMC Structural Biology</i> , 2013, 13, 13.	2.3	10
32	The lipidome and proteome of oil bodies from <i>Helianthus annuus</i> (common sunflower). <i>Journal of Chemical Biology</i> , 2013, 6, 63-76.	2.2	42
33	A potential for overestimating the absolute magnitudes of second virial coefficients by small-angle X-ray scattering. <i>Analytical Biochemistry</i> , 2013, 435, 159-165.	1.1	9
34	Synthesis of β -Glucan in Mycobacteria Involves a Hetero-octameric Complex of Trehalose Synthase TreS and Maltokinase Pep2. <i>ACS Chemical Biology</i> , 2013, 8, 2245-2255.	1.6	27
35	Sedimentation velocity of intrinsically disordered proteins: what information can we actually obtain?. <i>Molecular BioSystems</i> , 2012, 8, 378-380.	2.9	1
36	Effects of the Oncogenic V664E Mutation on Membrane Insertion, Structure, and Sequence-Dependent Interactions of the Neu Transmembrane Domain in Micelles and Model Membranes: An Integrated Biophysical and Simulation Study. <i>Biochemistry</i> , 2012, 51, 2558-2568.	1.2	18

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37	Allowance for effects of thermodynamic nonideality in sedimentation equilibrium distributions reflecting protein dimerization. <i>Analytical Biochemistry</i> , 2012, 422, 28-32.	1.1	7
38	Structure of the USP15 N-Terminal Domains: A β -Hairpin Mediates Close Association between the DUSP and UBL Domains. <i>Biochemistry</i> , 2011, 50, 7995-8004.	1.2	25
39	Examination of the Discrepancy between Size Estimates for Ovalbumin from Small-Angle X-ray Scattering and Other Physicochemical Measurements. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10725-10729.	1.2	10
40	When a module is not a domain: the case of the REJ module and the redefinition of the architecture of polycystin-1. <i>Biochemical Journal</i> , 2011, 435, 651-660.	1.7	14
41	An Undecided Coiled Coil. <i>Journal of Biological Chemistry</i> , 2011, 286, 27537-27547.	1.6	33
42	Dynamics of Odorant Binding to Thin Aqueous Films of Rat-OBP3. <i>Chemical Senses</i> , 2011, 36, 659-671.	1.1	15
43	DyBOBS: A Dynamic Biomimetic Assay for Odorant-Binding to Odor-Binding Protein. <i>Chemosensory Perception</i> , 2010, 3, 108-117.	0.7	10
44	Allowance for the effect of protein charge in the characterization of nonideal solute self-association by sedimentation equilibrium. <i>Biophysical Chemistry</i> , 2010, 149, 83-91.	1.5	13
45	DnaB proteolysis in vivo regulates oligomerization and its localization at oriC in <i>Bacillus subtilis</i> . <i>Nucleic Acids Research</i> , 2010, 38, 2851-2864.	6.5	15
46	Order and Disorder in the Domain Organization of the Plasmid Partition Protein KorB. <i>Journal of Biological Chemistry</i> , 2010, 285, 15440-15449.	1.6	11
47	RepD-mediated recruitment of PcrA helicase at the <i>Staphylococcus aureus</i> pC221 plasmid replication origin, oriD. <i>Nucleic Acids Research</i> , 2010, 38, 1874-1888.	6.5	13
48	Characterisation of a GroEL Single-Ring Mutant that Supports Growth of <i>Escherichia coli</i> and Has GroES-Dependent ATPase Activity. <i>Journal of Molecular Biology</i> , 2010, 396, 1271-1283.	2.0	24
49	Rapid Odorant Release in Mammalian Odour Binding Proteins Facilitates Their Temporal Coupling to Odorant Signals. <i>Journal of Molecular Biology</i> , 2010, 404, 372-380.	2.0	16
50	Conformational Properties of β -PrP. <i>Journal of Biological Chemistry</i> , 2009, 284, 21981-21990.	1.6	34
51	Structure of rat odorant-binding protein OBP1 at 1.6 Å resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009, 65, 403-410.	2.5	17
52	Comparison of Methods for Characterizing Nonideal Solute Self-Association by Sedimentation Equilibrium. <i>Biophysical Journal</i> , 2009, 97, 886-896.	0.2	18
53	Role of Odorant Binding Proteins: Comparing Hypothetical Mechanisms with Experimental Data. <i>Chemosensory Perception</i> , 2008, 1, 153-162.	0.7	24
54	The shock of the old: hydrodynamics for the masses. <i>Biochemical Society Transactions</i> , 2008, 36, 766-770.	1.6	2

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55	Structural Characterisation of the Insecticidal Toxin XptA1, Reveals a 1.15ÅMDa Tetramer with a Cage-like Structure. <i>Journal of Molecular Biology</i> , 2007, 366, 1558-1568.	2.0	37
56	FtsZ Polymer-bundling by the Escherichia coli ZapA Orthologue, YgfE, Involves a Conformational Change in Bound GTP. <i>Journal of Molecular Biology</i> , 2007, 369, 210-221.	2.0	83
57	Dynamic Allostery in the Ring Protein TRAP. <i>Journal of Molecular Biology</i> , 2007, 371, 154-167.	2.0	24
58	A simpler analysis for the measurement of second virial coefficients by self-interaction chromatography. <i>Analytical Biochemistry</i> , 2007, 371, 21-25.	1.1	16
59	Dimerization of inositol monophosphatase Mycobacterium tuberculosis SuhB is not constitutive, but induced by binding of the activator Mg ²⁺ . <i>BMC Structural Biology</i> , 2007, 7, 55.	2.3	15
60	Domain swapping reveals that the C- and N-terminal domains of DnaG and DnaB, respectively, are functional homologues. <i>Molecular Microbiology</i> , 2007, 63, 1629-1639.	1.2	15
61	The 2-oxoacid dehydrogenase multi-enzyme complex of the archaeon <i>Thermoplasma acidophilum</i> recombinant expression, assembly and characterization. <i>FEBS Journal</i> , 2007, 274, 5406-5415.	2.2	26
62	The DNA-remodelling activity of DnaD is the sum of oligomerization and DNA-binding activities on separate domains. <i>Molecular Microbiology</i> , 2006, 60, 917-924.	1.2	33
63	Structural basis of filopodia formation induced by the IRSp53/MIM homology domain of human IRSp53. <i>EMBO Journal</i> , 2005, 24, 240-250.	3.5	214
64	Expression, purification and crystallization of the cell-division protein YgfE from Escherichia coli. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 305-307.	0.7	0
65	Cleavage of Individual DNA Strands by the Different Subunits of the Heterodimeric Restriction Endonuclease BbvCI. <i>Journal of Molecular Biology</i> , 2005, 348, 641-653.	2.0	40
66	The Bacillus subtilis DnaD protein: a putative link between DNA remodeling and initiation of DNA replication. <i>FEBS Letters</i> , 2004, 577, 460-464.	1.3	26
67	Subunit Assembly for DNA Cleavage by Restriction Endonuclease SgrAI. <i>Journal of Molecular Biology</i> , 2003, 327, 579-591.	2.0	41
68	Multifunctional Xylooligosaccharide/Cephalosporin C Deacetylase Revealed by the Hexameric Structure of the Bacillus subtilis Enzyme at 1.9Å... Resolution. <i>Journal of Molecular Biology</i> , 2003, 330, 593-606.	2.0	67
69	Isolation and Characterisation of Mutants of GroEL that are Fully Functional as Single Rings. <i>Journal of Molecular Biology</i> , 2003, 332, 715-728.	2.0	52
70	Crystal Structures of the Liganded and Unliganded Nickel-binding Protein NikA from Escherichia coli. <i>Journal of Biological Chemistry</i> , 2003, 278, 50322-50329.	1.6	77
71	Effect of Protein Kinase A-mediated Phosphorylation on the Structure and Association Properties of the Enteropathogenic Escherichia coli Tir Virulence Protein. <i>Journal of Biological Chemistry</i> , 2003, 278, 25839-25846.	1.6	9
72	Creating Hetero-11-mers Composed of Wild-type and Mutant Subunits to Study RNA Binding to TRAP. <i>Journal of Biological Chemistry</i> , 2002, 277, 11838-11844.	1.6	22

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73	Structural Insights into the β -Mannosidase from <i>T. reesei</i> Obtained by Synchrotron Small-Angle X-ray Solution Scattering Enhanced by X-ray Crystallography. <i>Biochemistry</i> , 2002, 41, 9370-9375.	1.2	19
74	Low resolution solution structure of the apo form of Escherichia coli haemoglobin protease Hbp. <i>Journal of Molecular Biology</i> , 2002, 315, 1179-1187.	2.0	25
75	Dimer formation and transcription activation in the sporulation response regulator Spo0A. <i>Journal of Molecular Biology</i> , 2002, 316, 235-245.	2.0	68
76	Insulin at pH 2: Structural Analysis of the Conditions Promoting Insulin Fibre Formation. <i>Journal of Molecular Biology</i> , 2002, 318, 479-490.	2.0	196
77	Screening Transthyretin Amyloid Fibril Inhibitors. <i>Structure</i> , 2002, 10, 851-863.	1.6	106
78	Oligomerization of the Bacillus subtilis division protein DivIVA. <i>Microbiology (United Kingdom)</i> , 2002, 148, 807-813.	0.7	37
79	The Dimerization Interface of the Metastasis-associated Protein S100A4 (Mts1). <i>Journal of Biological Chemistry</i> , 2001, 276, 24212-24222.	1.6	53
80	Interaction of sigma factor σ^{70} with Escherichia coli RNA polymerase core enzyme. <i>Biochemical Journal</i> , 2000, 352, 539.	1.7	3
81	Structure of the intact transactivation domain of the human papillomavirus E2 protein. <i>Nature</i> , 2000, 403, 805-809.	13.7	95
82	Metastasis-associated protein Mts1 (S100A4) inhibits CK2-mediated phosphorylation and self-assembly of the heavy chain of nonmuscle myosin. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2000, 1498, 252-263.	1.9	53
83	Heterocomplex formation between metastasis-related protein S100A4 (Mts1) and S100A1 as revealed by the yeast two-hybrid system. <i>FEBS Letters</i> , 2000, 475, 187-191.	1.3	60
84	Interaction of σ^{70} with Escherichia coli RNA polymerase core enzyme studied by surface plasmon resonance. <i>FEBS Letters</i> , 2000, 481, 281-284.	1.3	16
85	Interaction of sigma factor σ^{70} with Escherichia coli RNA polymerase core enzyme. <i>Biochemical Journal</i> , 2000, 352, 539-547.	1.7	7
86	Remodeling of the AB site of rat parvalbumin and oncomodulin into a canonical EF-hand. <i>FEBS Journal</i> , 1999, 264, 790-799.	0.2	17
87	Quaternary re-arrangement analysed by spectral enhancement: the interaction of a sporulation repressor with its antagonist σ^H Edited by J. Karn. <i>Journal of Molecular Biology</i> , 1999, 293, 997-1004.	2.0	25
88	Oligomerisation of TBP1 from <i>Haloferax volcanii</i> . , 0, , 93-96.		0