Damien Hall

List of Publications by Year
in descending order

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80 papers	2,303 citations	257450 24 h-index	223800 46 g-index
80 all docs	80 docs citations	80 times ranked	2262 citing authors

#	Article	IF	Citations
1	Macromolecular crowding: qualitative and semiquantitative successes, quantitative challenges. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1649, 127-139.	2.3	431
2	Molecular recycling within amyloid fibrils. Nature, 2005, 436, 554-558.	27.8	342
3	Silent Prions Lying in Wait: A Two-hit Model of Prion/Amyloid Formation and Infection. Journal of Molecular Biology, 2004, 336, 775-786.	4.2	81
4	Use of Optical Biosensors for the Study of Mechanistically Concerted Surface Adsorption Processes. Analytical Biochemistry, 2001, 288, 109-125.	2.4	71
5	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. PLoS ONE, 2015, 10, e0126420.	2.5	71
6	Demonstration of an Upper Limit to the Range of Association Rate Constants Amenable to Study by Biosensor Technology Based on Surface Plasmon Resonance. Analytical Biochemistry, 1996, 235, 175-184.	2.4	64
7	Measurement of amyloid formation by turbidity assayâ€"seeing through the cloud. Biophysical Reviews, 2016, 8, 445-471.	3.2	60
8	Revisiting supersaturation as a factor determining amyloid fibrillation. Current Opinion in Structural Biology, 2016, 36, 32-39.	5.7	57
9	Use of a Resonant Mirror Biosensor to Characterize the Interaction of Carboxypeptidase A with an Elicited Monoclonal Antibody. Analytical Biochemistry, 1997, 244, 152-160.	2.4	48
10	Protein aggregate turbidity: Simulation of turbidity profiles for mixed-aggregation reactions. Analytical Biochemistry, 2016, 498, 78-94.	2.4	48
11	A Toy Model for Predicting the Rate of Amyloid Formation from Unfolded Protein. Journal of Molecular Biology, 2005, 351, 195-205.	4.2	47
12	Effects of inert volume-excluding macromolecules on protein fiber formation. I. Equilibrium models. Biophysical Chemistry, 2002, 98, 93-104.	2.8	41
13	Turbidity as a probe of tubulin polymerization kinetics: A theoretical and experimental re-examination. Analytical Biochemistry, 2005, 345, 198-213.	2.4	39
14	Effects of macromolecular crowding on intracellular diffusion from a single particle perspective. Biophysical Reviews, 2010, 2, 39-53.	3.2	39
15	Studies of Protein Interactions by Biosensor Technology: An Alternative Approach to the Analysis of Sensorgrams Deviating from Pseudo-First-Order Kinetic Behavior. Analytical Biochemistry, 1997, 244, 133-143.	2.4	38
16	A multiâ€pathway perspective on protein aggregation: Implications for control of the rate and extent of amyloid formation. FEBS Letters, 2015, 589, 672-679.	2.8	38
17	Interpretation of thermodynamic non-ideality in sedimentation equilibrium experiments on proteins. Biophysical Chemistry, 2000, 84, 217-225.	2.8	35
18	Effects of inert volume-excluding macromolecules on protein fiber formation. II. Kinetic models for nucleated fiber growth. Biophysical Chemistry, 2004, 107, 299-316.	2.8	34

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19	Heparin-dependent aggregation of hen egg white lysozyme reveals two distinct mechanisms of amyloid fibrillation. Journal of Biological Chemistry, 2017, 292, 21219-21230.	3.4	33
20	Stabilizing effect of sucrose against irreversible denaturation of rabbit muscle lactate dehydrogenase. Biophysical Chemistry, 1995, 57, 47-54.	2.8	32
21	Effect of Lipid Type on the Binding of Lipid Vesicles to Islet Amyloid Polypeptide Amyloid Fibrils. Biochemistry, 2010, 49, 3040-3048.	2.5	31
22	Expanding to fill the gap: A possible role for inert biopolymers in regulating the extent of the â€˜macromolecular crowdingâ€™ effect. FEBS Letters, 2006, 580, 2584-2590.	2.8	29
23	Computational modeling of the relationship between amyloid and disease. Biophysical Reviews, 2012, 4, 205-222.	3.2	29
24	Deamidation of N76 in human Î³S-crystallin promotes dimer formation. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 315-324.	2.4	28
25	Unified theoretical description of the kinetics of protein aggregation. Biophysical Reviews, 2019, 11, 191-208.	3.2	28
26	Theoretical and Experimental Considerations of the Pseudo-First-Order Approximation in Conventional Kinetic Analysis of IAsys Biosensor Data. Analytical Biochemistry, 1997, 253, 145-155.	2.4	26
27	The effects of Tubulin denaturation on the characterization of its polymerization behavior. Biophysical Chemistry, 2003, 104, 655-682.	2.8	26
28	A model of amyloid's role in disease based on fibril fracture. Biophysical Chemistry, 2009, 145, 17-28.	2.8	26
29	Multi-scale modelling of amyloid formation from unfolded proteins using a set of theory derived rate constants. Biophysical Chemistry, 2009, 140, 122-128.	2.8	24
30	Intrinsic Disorder Mediates Cooperative Signal Transduction in STIM1. Journal of Molecular Biology, 2014, 426, 2082-2097.	4.2	24
31	Potential of biosensor technology for the characterization of interactions by quantitative affinity chromatography. Biomedical Applications, 1998, 715, 163-181.	1.7	23
32	Analysis and interpretation of two-dimensional single-particle tracking microscopy measurements: Effect of local surface roughness. Analytical Biochemistry, 2008, 377, 24-32.	2.4	21
33	Protein self-association in the cell: a mechanism for fine tuning the level of macromolecular crowding?. European Biophysics Journal, 2006, 35, 276-280.	2.2	20
34	On the use of size exclusion chromatography for the resolution of mixed amyloid aggregate distributions: I. Equilibrium partition models. Analytical Biochemistry, 2012, 426, 69-85.	2.4	20
35	Ionic liquids and protein foldingâ€”old tricks for new solvents. Biophysical Reviews, 2019, 11, 209-225.	3.2	19
36	On the role of the macromolecular phase transitions in biology in response to change in solution volume or macromolecular composition: action as an entropy buffer. Biophysical Chemistry, 2002, 98, 233-248.	2.8	18

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37	Semi-automated methods for simulation and measurement of amyloid fiber distributions obtained from transmission electron microscopy experiments. Analytical Biochemistry, 2012, 421, 262-277.	2.4	18
38	On the nature of the optimal form of the holdaseâ€type chaperone stress response. FEBS Letters, 2020, 594, 43-66.	2.8	17
39	Recognizing and analyzing variability in amyloid formation kinetics: Simulation and statistical methods. Analytical Biochemistry, 2016, 510, 56-71.	2.4	11
40	RNAâ€“LIM: A novel procedure for analyzing protein/single-stranded RNA propensity data with concomitant estimation of interface structure. Analytical Biochemistry, 2015, 472, 52-61.	2.4	10
41	A new look at an old view of denaturant induced protein unfolding. Analytical Biochemistry, 2018, 542, 40-57.	2.4	10
42	Biophysical Reviews enters the online world, provides a focus on biophysics in Asia. Biophysical Reviews, 2019, 11, 249-250.	3.2	10
43	A new decade for Biophysical Reviews and a look into the future of biophysics. Biophysical Reviews, 2020, 12, 1-7.	3.2	10
44	Stochastic modelling of the effects of human-mobility restriction and viral infection characteristics on the spread of COVID-19. Scientific Reports, 2021, 11, 6856.	3.3	10
45	Innovations in publication: free sharing of all Biophysical Reviewsâ€™ content. Biophysical Reviews, 2017, 9, 67-68.	3.2	9
46	Biophysical Reviewsâ€”Quantitative analysis of biological phenomenon. Biophysical Reviews, 2020, 12, 601-605.	3.2	9
47	Practical considerations for feature assignment in high-speed AFM of live cell membranes. Biophysics and Physicobiology, 2022, 19, n/a.	1.0	9
48	Editorsâ€™ Roundup: April 2022. Biophysical Reviews, 2022, 14, 423-425.	3.2	9
49	Reassessment of the calibration constant for the IAsys biosensor. Journal of Chromatography A, 1999, 844, 395-401.	3.7	8
50	Biophysical Reviewsâ€™ national biophysical society partnership program. Biophysical Reviews, 2020, 12, 187-192.	3.2	8
51	Kinetic Models Describing Biomolecular Interactions at Surfaces. , 2008, , 81-122.		8
52	A structural and functional study of Gln147 deamidation in Î±A-crystallin, a site of modification in human cataract. Experimental Eye Research, 2017, 161, 163-173.	2.6	7
53	The benefits of writing a Review. Biophysical Reviews, 2019, 11, 663-666.	3.2	7
54	Biophysical Reviewsâ€”A call to young biophysicists. Biophysical Reviews, 2021, 13, 289-294.	3.2	7

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55	Editorsâ€™ Roundup: June 2022. Biophysical Reviews, 0, , .	3.2	7
56	Effect of heterogeneity on the characterization of cell membrane compartments: I. Uniform size and permeability. Analytical Biochemistry, 2010, 398, 230-244.	2.4	6
57	Biophysical Reviewsâ€”the IUPAB journal tasked with advancing biophysics. Biophysical Reviews, 2021, 13, 1-6.	3.2	6
58	Foreword to the biophysics of protein-protein and protein-ligand interactions in dilute and crowded mediaâ€”a special issue in honor of Allen Mintonâ€™s 70th birthday. Biophysical Reviews, 2013, 5, 57-60.	3.2	5
59	A novel protein distance matrix based on the minimum arc-length between two amino-acid residues on the surface of a globular protein. Biophysical Chemistry, 2014, 190-191, 50-55.	2.8	5
60	Biophysics of human anatomy and physiologyâ€”a Special Issue in honor of Prof. Cristobal dos Remedios on the occasion of his 80th birthday. Biophysical Reviews, 2020, 12, 731-739.	3.2	5
61	A simple method for modeling amyloid kinetics featuring position biased fiber breakage. Biophysics and Physicobiology, 2020, 17, 30-35.	1.0	5
62	Biophysical Reviews: from the umbra of 2020â€“2021 into the antumbra of 2022. Biophysical Reviews, 2022, 14, 3-12.	3.2	5
63	Foreword to â€˜Quantitative and analytical relations in biochemistryâ€™â€”a special issue in honour of Donald J. Winzorâ€™s 80th birthday. Biophysical Reviews, 2016, 8, 269-277.	3.2	4
64	Foreword to â€˜Multiscale structural biology: biophysical principles and mechanisms underlying the action of bio-nanomachinesâ€™, a special issue in Honour of Fumio Arisakaâ€™s 70th birthday. Biophysical Reviews, 2018, 10, 105-129.	3.2	4
65	Biophysical Reviews: slowly getting back to â€˜normalâ€™?. Biophysical Reviews, 2021, 13, 161-165.	3.2	4
66	Biophysical reviews: call for nominations for the 2023 MichÃ¨le Auger Award. Biophysical Reviews, 0, , .	3.2	4
67	Special Issue of Biophysical Reviews dedicated to the 19th IUPAB Conference in Edinburgh, Scotland (July 2017)ï»¿.. Biophysical Reviews, 2017, 9, 269-271.	3.2	3
68	A composite polynomial approach for analyzing the indefinite self-association of macromolecules studied by sedimentation equilibrium. Biophysical Chemistry, 2017, 228, 10-16.	2.8	3
69	Biophysical Reviews Special Issue call: Computational biophysics and structural biology of proteinsâ€”A Special Issue in honor of Prof. Haruki Nakamuraâ€™s 70th birthday. Biophysical Reviews, 2022, 14, 21-22.	3.2	3
70	Biophysical Reviews: focusing on an issue. Biophysical Reviews, 2022, 14, 413-416.	3.2	3
71	Real-time monitoring of amyloid growth in a rigid gel matrix. Analytical Biochemistry, 2016, 511, 13-16.	2.4	2
72	Biophysical Reviews: promoting the African synchrotron facility, partnering with national biophysical societies, highlighting advances in structural biology. Biophysical Reviews, 2019, 11, 495-497.	3.2	2

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73	2019â€"A year in Biophysical Reviews. Biophysical Reviews, 2019, 11, 833-839.	3.2	2
74	Biophysical Reviews: a Q1 ranked journal in biophysics and structural biology. Biophysical Reviews, 2020, 12, 1085-1089.	3.2	2
75	Biophysical Reviews: 2020â€"looking back, going forward. Biophysical Reviews, 2020, 12, 1269-1276.	3.2	2
76	A note of appreciation for Prof. Cristobal dos Remedios on behalf of Biophysical Reviews. Biophysical Reviews, 2019, 11, 129-130.	3.2	1
77	Biophysical reviewsâ€"providing an effective critique. Biophysical Reviews, 2021, 13, 427-434.	3.2	1
78	Biophysical Reviewsâ€"Â2021, the year that was. Biophysical Reviews, 2021, 13, 1-9.	3.2	1
79	A Toy Model for Calculating the Rate and Position of Amyloid Fibril Dissociation. Biophysical Journal, 2010, 98, 635a.	0.5	0
80	1D1524 P20 The HHH Index for assessing heterogeneity in an amyloid fibril population(Protein: Property) Tj ETQq0 0 0 rgBT /Overlock 1	0.1	0