

Bryan F Shaw

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,477
citations

331670

21
h-index

315739

38
g-index

46
all docs

46
docs citations

46
times ranked

1978
citing authors

#	ARTICLE	IF	CITATIONS
1	How do ALS-associated mutations in superoxide dismutase 1 promote aggregation of the protein?. Trends in Biochemical Sciences, 2007, 32, 78-85.	7.5	236
2	Loss of Metal Ions, Disulfide Reduction and Mutations Related to Familial ALS Promote Formation of Amyloid-Like Aggregates from Superoxide Dismutase. PLoS ONE, 2009, 4, e5004.	2.5	113
3	Abnormal SDS-PAGE migration of cytosolic proteins can identify domains and mechanisms that control surfactant binding. Protein Science, 2012, 21, 1197-1209.	7.6	111
4	PAI-1 promotes extracellular matrix deposition in the airways of a murine asthma model. Biochemical and Biophysical Research Communications, 2002, 294, 1155-1160.	2.1	106
5	Detergent-insoluble Aggregates Associated with Amyotrophic Lateral Sclerosis in Transgenic Mice Contain Primarily Full-length, Unmodified Superoxide Dismutase-1. Journal of Biological Chemistry, 2008, 283, 8340-8350.	3.4	79
6	Lysine acetylation can generate highly charged enzymes with increased resistance toward irreversible inactivation. Protein Science, 2008, 17, 1446-1455.	7.6	65
7	Insights into the Role of the Unusual Disulfide Bond in Copper-Zinc Superoxide Dismutase. Journal of Biological Chemistry, 2015, 290, 2405-2418.	3.4	61
8	Deamidation of Asparagine to Aspartate Destabilizes Cu, Zn Superoxide Dismutase, Accelerates Fibrillization, and Mirrors ALS-Linked Mutations. Journal of the American Chemical Society, 2013, 135, 15897-15908.	13.7	48
9	Arresting Amyloid with Coulomb's Law: Acetylation of ALS-Linked SOD1 by Aspirin Impedes Aggregation. Biophysical Journal, 2015, 108, 1199-1212.	0.5	44
10	Complexes of Native Ubiquitin and Dodecyl Sulfate Illustrate the Nature of Hydrophobic and Electrostatic Interactions in the Binding of Proteins and Surfactants. Journal of the American Chemical Society, 2011, 133, 17681-17695.	13.7	41
11	Pathway for Unfolding of Ubiquitin in Sodium Dodecyl Sulfate, Studied by Capillary Electrophoresis. Journal of the American Chemical Society, 2008, 130, 17384-17393.	13.7	39
12	Metal-free Superoxide Dismutase-1 and Three Different Amyotrophic Lateral Sclerosis Variants Share a Similar Partially Unfolded β^2 -Barrel at Physiological Temperature. Journal of Biological Chemistry, 2009, 284, 34382-34389.	3.4	39
13	Stochastic Formation of Fibrillar and Amorphous Superoxide Dismutase Oligomers Linked to Amyotrophic Lateral Sclerosis. ACS Chemical Neuroscience, 2016, 7, 799-810.	3.5	39
14	Selective photocrosslinking of functional ligands to antibodies via the conserved nucleotide binding site. Biomaterials, 2013, 34, 5700-5710.	11.4	30
15	Neutralizing Positive Charges at the Surface of a Protein Lowers Its Rate of Amide Hydrogen Exchange without Altering Its Structure or Increasing Its Thermostability. Journal of the American Chemical Society, 2010, 132, 17411-17425.	13.7	29
16	Effect of Metal Loading and Subcellular pH on Net Charge of Superoxide Dismutase-1. Journal of Molecular Biology, 2013, 425, 4388-4404.	4.2	29
17	How Do Gyrating Beads Accelerate Amyloid Fibrillization?. Biophysical Journal, 2017, 112, 250-264.	0.5	28
18	Lysine acylation in superoxide dismutase-1 electrostatically inhibits formation of fibrils with prion-like seeding. Journal of Biological Chemistry, 2017, 292, 19366-19380.	3.4	28

#	ARTICLE	IF	CITATIONS
19	A Non-Chromatographic Method for the Purification of a Bivalently Active Monoclonal IgG Antibody from Biological Fluids. <i>Journal of the American Chemical Society</i> , 2009, 131, 9361-9367.	13.7	27
20	Colorimetric and Longitudinal Analysis of Leukocoria in Recreational Photographs of Children with Retinoblastoma. <i>PLoS ONE</i> , 2013, 8, e76677.	2.5	25
21	Autonomous early detection of eye disease in childhood photographs. <i>Science Advances</i> , 2019, 5, eaax6363.	10.3	25
22	Phase separation of 2D meso-scale Coulombic crystals from meso-scale polarizable ϵ -solvent. <i>Soft Matter</i> , 2009, 5, 1188-1191.	2.7	22
23	Gibbs Energy of Superoxide Dismutase Heterodimerization Accounts for Variable Survival in Amyotrophic Lateral Sclerosis. <i>Journal of the American Chemical Society</i> , 2016, 138, 5351-5362.	13.7	20
24	Kaplan-Meier Meets Chemical Kinetics: Intrinsic Rate of SOD1 Amyloidogenesis Decreased by Subset of ALS Mutations and Cannot Fully Explain Age of Disease Onset. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1378-1389.	3.5	20
25	Effect of Surfactant Hydrophobicity on the Pathway for Unfolding of Ubiquitin. <i>Journal of the American Chemical Society</i> , 2012, 134, 18739-18745.	13.7	19
26	Direct Measurement of Charge Regulation in Metalloprotein Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5364-5368.	13.8	18
27	What Are We Missing by Not Measuring the Net Charge of Proteins?. <i>Chemistry - A European Journal</i> , 2019, 25, 7581-7590.	3.3	18
28	Phase separation of two-dimensional Coulombic crystals of mesoscale dipolar particles from mesoscale polarizable ϵ -solvent. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	16
29	Taking Charge of Proteins. <i>Advances in Protein Chemistry and Structural Biology</i> , 2010, 79, 127-164.	2.3	16
30	Protein charge ladders reveal that the net charge of ALS-linked superoxide dismutase can be different in sign and magnitude from predicted values. <i>Protein Science</i> , 2014, 23, 1417-1433.	7.6	15
31	Detection of leukocoria using a soft fusion of expert classifiers under non-clinical settings. <i>BMC Ophthalmology</i> , 2014, 14, 110.	1.4	15
32	Metal-Ion-Specific Screening of Charge Effects in Protein Amide H/D Exchange and the Hofmeister Series. <i>Analytical Chemistry</i> , 2014, 86, 10303-10310.	6.5	11
33	Visualizing 3D imagery by mouth using candy-like models. <i>Science Advances</i> , 2021, 7, .	10.3	9
34	Voltage-Induced Misfolding of Zinc-Replete ALS Mutant Superoxide Dismutase-1. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1696-1707.	3.5	6
35	Direct Measurement of Charge Regulation in Metalloprotein Electron Transfer. <i>Angewandte Chemie</i> , 2018, 130, 5462-5466.	2.0	6
36	Kinetic Variability in Seeded Formation of ALS-Linked SOD1 Fibrils Across Multiple Generations. <i>ACS Chemical Neuroscience</i> , 2020, 11, 304-313.	3.5	6

#	ARTICLE	IF	CITATIONS
37	Glycerolipid Headgroups Control Rate and Mechanism of Superoxide Dismutase-1 Aggregation and Accelerate Fibrillization of Slowly Aggregating Amyotrophic Lateral Sclerosis Mutants. ACS Chemical Neuroscience, 2018, 9, 1743-1756.	3.5	4
38	Complete Charge Regulation by a Redox Enzyme Upon Single Electron Transfer. Angewandte Chemie - International Edition, 2020, 59, 10989-10995.	13.8	4
39	Measuring how two proteins affect each other's net charge in a crowded environment. Protein Science, 2021, 30, 1594-1605.	7.6	4
40	Supercharging Prions via Amyloid- β -Selective Lysine Acetylation. Angewandte Chemie - International Edition, 2021, 60, 15069-15079.	13.8	2
41	Ligand-Induced Protein Mobility in Complexes of Carbonic Anhydrase II and Benzenesulfonamides with Oligoglycine Chains. PLoS ONE, 2013, 8, e57629.	2.5	2
42	Frontispiece: What Are We Missing by Not Measuring the Net Charge of Proteins?. Chemistry - A European Journal, 2019, 25, .	3.3	1
43	Complete Charge Regulation by a Redox Enzyme Upon Single Electron Transfer. Angewandte Chemie, 2020, 132, 11082-11088.	2.0	1
44	InnenrÄ¼cktitelbild: Direct Measurement of Charge Regulation in Metalloprotein Electron Transfer (Angew. Chem. 19/2018). Angewandte Chemie, 2018, 130, 5655-5655.	2.0	0
45	Supercharging Prions via Amyloid- β -Selective Lysine Acetylation. Angewandte Chemie, 2021, 133, 15196-15206.	2.0	0