

Tapan K Das

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,021
citations

331538

21
h-index

243529

44
g-index

70
all docs

70
docs citations

70
times ranked

2000
citing authors

#	ARTICLE	IF	CITATIONS
1	Folding of cytochrome c initiated by submillisecond mixing. <i>Nature Structural and Molecular Biology</i> , 1997, 4, 44-50.	3.6	218
2	Potential aggregation prone regions in biotherapeutics. <i>MAbs</i> , 2009, 1, 254-267.	2.6	173
3	Simultaneous observation of the O-O and Fe-O2 stretching modes in oxyhemoglobins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 479-484.	3.3	141
4	Predicting solution aggregation rates for therapeutic proteins: Approaches and challenges. <i>International Journal of Pharmaceutics</i> , 2011, 418, 318-333.	2.6	128
5	<i>Chlamydomonas</i> Chloroplast Ferrous Hemoglobin. <i>Journal of Biological Chemistry</i> , 1999, 274, 6898-6910.	1.6	106
6	Pentacoordinate Hemin Derivatives in Sodium Dodecyl Sulfate Micelles: Model Systems for the Assignment of the Fifth Ligand in Ferric Heme Proteins. <i>Biophysical Journal</i> , 1999, 77, 1143-1149.	0.2	96
7	Structural investigations of the hemoglobin of the cyanobacterium <i>Synechocystis</i> PCC6803 reveal a unique distal heme pocket. <i>FEBS Journal</i> , 2000, 267, 4770-4780.	0.2	96
8	Protein Particulate Detection Issues in Biotherapeutics Development—Current Status. <i>AAPS PharmSciTech</i> , 2012, 13, 732-746.	1.5	93
9	Challenges and new frontiers in analytical characterization of antibody-drug conjugates. <i>MAbs</i> , 2018, 10, 222-243.	2.6	79
10	Isomerization and Oxidation in the Complementarity-Determining Regions of a Monoclonal Antibody: A Study of the Modification—Structure—Function Correlations by Hydrogen—Deuterium Exchange Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 2041-2050.	3.2	66
11	Preservation of the Native Structure in Myoglobin at Low pH by Sol—Gel Encapsulation. <i>Journal of the American Chemical Society</i> , 1998, 120, 10268-10269.	6.6	56
12	Aggregation and pH—Temperature Phase Behavior for Aggregates of an IgG2 Antibody. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 1678-1687.	1.6	54
13	The Heme Environment in Barley Hemoglobin. <i>Journal of Biological Chemistry</i> , 1999, 274, 4207-4212.	1.6	45
14	Stress Factors in mAb Drug Substance Production Processes: Critical Assessment of Impact on Product Quality and Control Strategy. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 116-133.	1.6	41
15	A Biopharmaceutical Industry Perspective on the Control of Visible Particles in Biotechnology-Derived Injectable Drug Products. <i>PDA Journal of Pharmaceutical Science and Technology</i> , 2016, 70, 392-408.	0.3	37
16	Mechanism of response of potential-sensitive dyes studied by time-resolved fluorescence. <i>Biophysical Journal</i> , 1993, 64, 1122-1132.	0.2	35
17	Unique Impacts of Methionine Oxidation, Tryptophan Oxidation, and Asparagine Deamidation on Antibody Stability and Aggregation. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 656-669.	1.6	35
18	pH-Dependent Structural Changes at the Heme-Copper Binuclear Center of Cytochrome c Oxidase. <i>Biophysical Journal</i> , 2001, 80, 2039-2045.	0.2	33

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19	Interference from Proteins and Surfactants on Particle Size Distributions Measured by Nanoparticle Tracking Analysis (NTA). <i>Pharmaceutical Research</i> , 2017, 34, 800-808.	1.7	27
20	Technical Decision Making With Higher Order Structure Data: Perspectives on Higher Order Structure Characterization From the Biopharmaceutical Industry. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 3465-3470.	1.6	26
21	Comparative study of therapeutic antibody candidates derived from miniâ€ool and clonal cell lines. <i>Biotechnology Progress</i> , 2017, 33, 1456-1462.	1.3	26
22	Investigation of Color in a Fusion Protein Using Advanced Analytical Techniques: Delineating Contributions from Oxidation Products and Process Related Impurities. <i>Pharmaceutical Research</i> , 2016, 33, 932-941.	1.7	22
23	Deamidation Can Compromise Antibody Colloidal Stability and Enhance Aggregation in a pH-Dependent Manner. <i>Molecular Pharmaceutics</i> , 2019, 16, 1939-1949.	2.3	21
24	Impact of Tryptophan Oxidation in Complementarity-Determining Regions of Two Monoclonal Antibodies on Structure-Function Characterized by Hydrogen-Deuterium Exchange Mass Spectrometry and Surface Plasmon Resonance. <i>Pharmaceutical Research</i> , 2019, 36, 24.	1.7	21
25	Characterization of Aggregation Propensity of a Human Fc-Fusion Protein Therapeutic by Hydrogen/Deuterium Exchange Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 795-802.	1.2	20
26	Probing the Tryptophan Environment in Therapeutic Proteins: Implications for Higher Order Structure on Tryptophan Oxidation. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 1944-1952.	1.6	20
27	Detection and Identification of the Vibrational Markers for the Quantification of Methionine Oxidation in Therapeutic Proteins. <i>Analytical Chemistry</i> , 2018, 90, 6959-6966.	3.2	19
28	Hydroxide Rather Than Histidine Is Coordinated to the Heme in Five-coordinate Ferric Scapharca inaequalvis Hemoglobin. <i>Journal of Biological Chemistry</i> , 1999, 274, 2916-2919.	1.6	18
29	NMR studies on interaction of lauryl maltoside with cytochrome c oxidase: a model for surfactant interaction with the membrane protein. <i>Journal of Inorganic Biochemistry</i> , 2002, 91, 116-124.	1.5	17
30	A Multicompany Assessment of Submicron Particle Levels by NTA and RMM in a Wide Range of Late-Phase Clinical and Commercial Biotechnology-Derived Protein Products. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 830-844.	1.6	17
31	Enhanced Precision of Circular Dichroism Spectral Measurements Permits Detection of Subtle Higher Order Structural Changes in Therapeutic Proteins. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 2559-2569.	1.6	15
32	Investigation of PEG Crystallization in Frozen and Freezeâ€dried PEGylated Recombinant Human Growth Hormoneâ€Sucrose Systems: Implications on Storage Stability. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 3062-3075.	1.6	14
33	Emerging Challenges and Innovations in Surfactant-mediated Stabilization of Biologic Formulations. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 919-932.	1.6	14
34	Effect of Adriamycin on the boundary lipid structure of cytochrome c oxidase: pico-second time-resolved fluorescence depolarization studies. <i>Biophysical Chemistry</i> , 2000, 86, 15-28.	1.5	13
35	Identification and quantification of signal peptide variants in an IgG1 monoclonal antibody produced in mammalian cell lines. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1068-1069, 193-200.	1.2	12
36	Stress Factors in Protein Drug Product Manufacturing and Their Impact on Product Quality. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 868-886.	1.6	12

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37	Stress Factors in Primary Packaging, Transportation and Handling of Protein Drug Products and Their Impact on Product Quality. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 887-902.	1.6	12
38	Time-resolved study of tryptophan fluorescence in vesicle reconstituted cytochrome oxidase. <i>FEBS Letters</i> , 1993, 336, 211-214.	1.3	11
39	Distal Heme Pocket Conformers of Carbonmonoxy Derivatives of Ascaris Hemoglobin. <i>Journal of Biological Chemistry</i> , 2004, 279, 10433-10441.	1.6	10
40	Mapping the Binding Interface in a Noncovalent Size Variant of a Monoclonal Antibody Using Native Mass Spectrometry, Hydrogen-Deuterium Exchange Mass Spectrometry, and Computational Analysis. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3222-3229.	1.6	10
41	Submicron Protein Particle Characterization using Resistive Pulse Sensing and Conventional Light Scattering Based Approaches. <i>Pharmaceutical Research</i> , 2018, 35, 58.	1.7	10
42	Bridging size and charge variants of a therapeutic monoclonal antibody by two-dimensional liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 183, 113178.	1.4	10
43	Impact of denaturation with urea on recombinant apolipoprotein A-Milano ion-exchange adsorption: Equilibrium uptake behavior and protein mass transfer kinetics. <i>Biotechnology Journal</i> , 2007, 2, 110-120.	1.8	9
44	Modulation of the active site conformation by site-directed mutagenesis in cytochrome c oxidase from <i>Paracoccus denitrificans</i> . <i>Journal of Inorganic Biochemistry</i> , 2010, 104, 318-323.	1.5	9
45	Nucleation in Protein Aggregation in Biotherapeutic Development: A look into the Heart of the Event. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 951-959.	1.6	8
46	Structure-Function Assessment and High-Throughput Quantification of Site-Specific Aspartate Isomerization in Monoclonal Antibody Using a Novel Analytical Tool Kit. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 422-428.	1.6	7
47	Multiple Active Site Conformers in the Carbon Monoxide Complexes of Trematode Hemoglobins. <i>Journal of Biological Chemistry</i> , 2006, 281, 11471-11479.	1.6	6
48	Ultrafiltration of a highly self-associating protein. <i>Journal of Membrane Science</i> , 2010, 353, 41-50.	4.1	6
49	Quadrupole Dalton-Based Controlled Proteolysis Method for Characterization of Higher Order Protein Structure. <i>Analytical Chemistry</i> , 2019, 91, 5339-5345.	3.2	6
50	An Interlaboratory Comparison on the Characterization of a Sub-micrometer Polydisperse Particle Dispersion. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 699-709.	1.6	6
51	Heterogeneous glycoform separation by process chromatography: I. <i>Journal of Chromatography A</i> , 2015, 1404, 51-59.	1.8	4
52	Characterization of therapeutic antibody fragmentation using automated capillary western blotting as an orthogonal analytical technique. <i>Electrophoresis</i> , 2019, 40, 2888-2898.	1.3	4
53	Mimicking Low pH Virus Inactivation Used in Antibody Manufacturing Processes: Effect of Processing Conditions and Biophysical Properties on Antibody Aggregation and Particle Formation. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 3188-3199.	1.6	4
54	Heme CD as a probe for monitoring local structural changes in hemeproteins: Alkaline transition in hemeproteins. <i>Journal of Chemical Sciences</i> , 1995, 107, 497-503.	0.7	4

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55	Rotational dynamics of lipid detergent mixtures probed by a cyanine dye: a mechanism for vesicle formation. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 4279-4283.	1.7	3
56	A three-point identity criteria tool for establishing product identity using icIEF method. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1083, 271-277.	1.2	3
57	Dual detection approach for charge variant analysis of monoclonal antibody combination products using imaged capillary isoelectric focusing. <i>Electrophoresis</i> , 0, , .	1.3	3
58	Codon-Directed Determination of the Biological Causes of Sequence Variants in Therapeutic Proteins. <i>Analytical Chemistry</i> , 2017, 89, 12749-12755.	3.2	2
59	A Detailed Protocol for Generation of Therapeutic Antibodies with Galactosylated Glycovariants at Laboratory Scale Using In-Vitro Glycoengineering Technology. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 935-945.	1.6	1
60	Time-resolved fluorescence study of the single tryptophan in thiocyanate and azide derivatives of horseradish peroxidase: Implication for apH-induced conformational change in the heme cavity. <i>Journal of Chemical Sciences</i> , 1995, 107, 505-518.	0.7	1
61	Modulation Of The Conformation Of Cytochrome C Oxidase From <i>Paracoccus Denitrificans</i> By Active-Site Mutations. , 2010, , .		0
62	Micele-induced release of heme-NO from nitric oxide complex of myoglobin. <i>Journal of Chemical Sciences</i> , 1994, 106, 763-763.	0.7	0
63	Picosecond fluorescence decay of tryptophan in bovine cytochrome-c oxidase. <i>Journal of Chemical Sciences</i> , 1994, 106, 766-766.	0.7	0
64	Protein-surfactant interaction: Selective unfolding in heme proteins. <i>Journal of Chemical Sciences</i> , 1996, 108, 313-313.	0.7	0
65	A Cluster of Articles in Memory of Wim Jiskoot, Ph.D.. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 859-860.	1.6	0