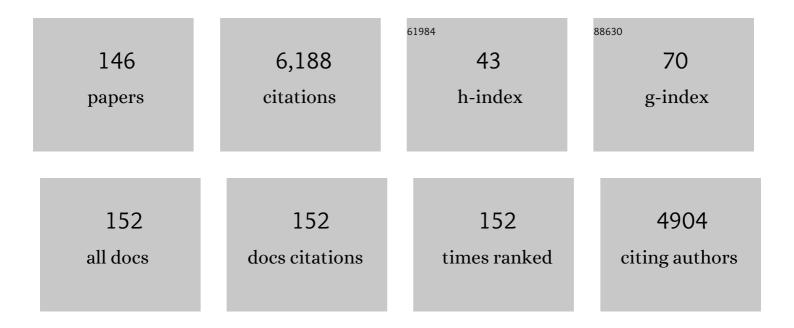
David B Volkin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Protein–excipient interactions: Mechanisms and biophysical characterization applied to protein formulation development. Advanced Drug Delivery Reviews, 2011, 63, 1118-1159.	13.7	416
2	Addressing the Cold Reality of mRNA Vaccine Stability. Journal of Pharmaceutical Sciences, 2021, 110, 997-1001.	3.3	302
3	Vaccine instability in the cold chain: Mechanisms, analysis and formulation strategies. Biologicals, 2014, 42, 237-259.	1.4	296
4	Protein Instability and Immunogenicity: Roadblocks to Clinical Application of Injectable Protein Delivery Systems for Sustained Release. Journal of Pharmaceutical Sciences, 2012, 101, 946-954.	3.3	205
5	Development of stable liquid formulations for adenovirus-based vaccines. Journal of Pharmaceutical Sciences, 2004, 93, 2458-2475.	3.3	141
6	Disassembly and reassembly of yeastâ€derived recombinant human papillomavirus virusâ€like particles (HPV VLPs). Journal of Pharmaceutical Sciences, 2006, 95, 2195-2206.	3.3	126
7	Characterization of the photodegradation of a human IgG1 monoclonal antibody formulated as a high-concentration liquid dosage form. Journal of Pharmaceutical Sciences, 2009, 98, 3117-3130.	3.3	117
8	Evaluation of Degradation Pathways for Plasmid DNA in Pharmaceutical Formulations via Accelerated Stability Studies. , 2000, 89, 76-87.		113
9	Structural Characterization of IgG1 mAb Aggregates and Particles Generated Under Various Stress Conditions. Journal of Pharmaceutical Sciences, 2014, 103, 796-809.	3.3	111
10	High-Throughput Biophysical Analysis of Protein Therapeutics to Examine Interrelationships Between Aggregate Formation and Conformational Stability. AAPS Journal, 2014, 16, 48-64.	4.4	106
11	Formulation design of acidic fibroblast growth factor. Pharmaceutical Research, 1993, 10, 649-659.	3.5	105
12	Degradative covalent reactions important to protein stability. Molecular Biotechnology, 1997, 8, 105-122.	2.4	104
13	Stabilization of human papillomavirus virus-like particles by non-ionic surfactants. Journal of Pharmaceutical Sciences, 2005, 94, 1538-1551.	3.3	103
14	Comparability assessments of process and product changes made during development of two different monoclonal antibodies. Biologicals, 2011, 39, 9-22.	1.4	100
15	Multidimensional methods for the formulation of biopharmaceuticals and vaccines. Journal of Pharmaceutical Sciences, 2011, 100, 4171-4197.	3.3	97
16	Effects of Salts from the Hofmeister Series on the Conformational Stability, Aggregation Propensity, and Local Flexibility of an IgG1 Monoclonal Antibody. Biochemistry, 2013, 52, 3376-3389.	2.5	96
17	Correlating Excipient Effects on Conformational and Storage Stability of an IgG1 Monoclonal Antibody with Local Dynamics as Measured by Hydrogen/Deuterium-Exchange Mass Spectrometry. Journal of Pharmaceutical Sciences, 2013, 102, 2136-2151.	3.3	92
18	Development of a Microflow Digital Imaging Assay to Characterize Protein Particulates During Storage of a High Concentration IgG1 Monoclonal Antibody Formulation. Journal of Pharmaceutical Sciences, 2010, 99, 3343-3361.	3.3	90

#	Article	IF	CITATIONS
19	Compatibility, Physical Stability, and Characterization of an IgG4 Monoclonal Antibody After Dilution into Different Intravenous Administration Bags. Journal of Pharmaceutical Sciences, 2012, 101, 3636-3650.	3.3	86
20	Application of a High-Throughput Screening Procedure with PEG-Induced Precipitation to Compare Relative Protein Solubility During Formulation Development with IgG1 Monoclonal Antibodies. Journal of Pharmaceutical Sciences, 2011, 100, 1009-1021.	3.3	85
21	Charge-mediated Fab-Fc interactions in an IgG1 antibody induce reversible self-association, cluster formation, and elevated viscosity. MAbs, 2016, 8, 1561-1574.	5.2	81
22	Formulation and stabilization of recombinant protein based virus-like particle vaccines. Advanced Drug Delivery Reviews, 2015, 93, 42-55.	13.7	75
23	Postproduction Handling and Administration of Protein Pharmaceuticals and Potential Instability Issues. Journal of Pharmaceutical Sciences, 2018, 107, 2013-2019.	3.3	75
24	Hydrogen exchange mass spectrometry reveals protein interfaces and distant dynamic coupling effects during the reversible self-association of an IgG1 monoclonal antibody. MAbs, 2015, 7, 525-539.	5.2	69
25	Hydrogen-Deuterium Exchange Mass Spectrometry as an Emerging Analytical Tool for Stabilization and Formulation Development of Therapeutic Monoclonal Antibodies. Journal of Pharmaceutical Sciences, 2015, 104, 327-345.	3.3	68
26	Engineered SARS-CoV-2 receptor binding domain improves manufacturability in yeast and immunogenicity in mice. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	68
27	Minimizing Carry-Over in an Online Pepsin Digestion System used for the H/D Exchange Mass Spectrometric Analysis of an IgG1 Monoclonal Antibody. Journal of the American Society for Mass Spectrometry, 2012, 23, 2140-2148.	2.8	64
28	Correlations between changes in conformational dynamics and physical stability in a mutant IgG1 mAb engineered for extended serum half-life. MAbs, 2015, 7, 84-95.	5.2	64
29	Analytical lessons learned from selected therapeutic protein drug comparability studies. Biologicals, 2013, 41, 131-147.	1.4	63
30	Safety, immunogenicity and efficacy in healthy infants of G1 and G2 human reassortant rotavirus vaccine in a new stabilizer/buffer liquid formulation. Pediatric Infectious Disease Journal, 2003, 22, 914-920.	2.0	62
31	Effect of polyanions on the unfolding of acidic fibroblast growth factor. Biochemistry, 1993, 32, 6419-6426.	2.5	61
32	Evaluating the Role of the Air-Solution Interface on the Mechanism of Subvisible Particle Formation Caused by Mechanical Agitation for an IgG1 mAb. Journal of Pharmaceutical Sciences, 2016, 105, 1643-1656.	3.3	60
33	Evaluation of a Dual-Wavelength Size Exclusion HPLC Method With Improved Sensitivity to Detect Protein Aggregates and Its Use to Better Characterize Degradation Pathways of an IgG1 Monoclonal Antibody. Journal of Pharmaceutical Sciences, 2010, 99, 2582-2597.	3.3	58
34	Comparison of High-Throughput Biophysical Methods to Identify Stabilizing Excipients for a Model IgG2 Monoclonal Antibody: Conformational Stability and Kinetic Aggregation Measurements. Journal of Pharmaceutical Sciences, 2012, 101, 1701-1720.	3.3	58
35	Physical Characterization and In Vitro Biological Impact of Highly Aggregated Antibodies Separated into Size-Enriched Populations by Fluorescence-Activated Cell Sorting. Journal of Pharmaceutical Sciences, 2015, 104, 1575-1591.	3.3	57
36	Sucralfate and soluble sucrose octasulfate bind and stabilize acidic fibroblast growth factor. BBA - Proteins and Proteomics, 1993, 1203, 18-26.	2.1	56

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37	Origin of the isoelectric heterogeneity of monoclonal immunoglobulin h1B4. Pharmaceutical Research, 1993, 10, 1580-1586.	3.5	56
38	Excipients Differentially Influence the Conformational Stability and Pretransition Dynamics of Two IgG1 Monoclonal Antibodies. Journal of Pharmaceutical Sciences, 2012, 101, 3062-3077.	3.3	56
39	A Formulation Development Approach to Identify and Select Stable Ultra–High-Concentration Monoclonal Antibody Formulations With Reduced Viscosities. Journal of Pharmaceutical Sciences, 2017, 106, 3230-3241.	3.3	55
40	Effect of solution properties on the counting and sizing of subvisible particle standards as measured by light obscuration and digital imaging methods. European Journal of Pharmaceutical Sciences, 2014, 53, 95-108.	4.0	53
41	Effects of Protein Conformation, Apparent Solubility, and Protein–Protein Interactions on the Rates and Mechanisms of Aggregation for an IgG1Monoclonal Antibody. Journal of Physical Chemistry B, 2016, 120, 7062-7075.	2.6	51
42	Development of spirulina for the manufacture and oral delivery of protein therapeutics. Nature Biotechnology, 2022, 40, 956-964.	17.5	50
43	The adsorption of proteins to pharmaceutical container surfaces. International Journal of Pharmaceutics, 1992, 86, 89-93.	5.2	49
44	Ultraviolet Absorption Spectroscopy. , 1995, 40, 91-114.		48
45	Protein comparability assessments and potential applicability of high throughput biophysical methods and data visualization tools to compare physical stability profiles. Frontiers in Pharmacology, 2014, 5, 39.	3.5	47
46	Size and Conformational Stability of the Hepatitis a Virus used to Prepare VAQTA⊥, a Highly Purified Inactivated Vaccine. Journal of Pharmaceutical Sciences, 1997, 86, 666-673.	3.3	45
47	Characterization of the Physical Stability of a Lyophilized IgG1 mAb after Accelerated Shipping-Like Stress. Journal of Pharmaceutical Sciences, 2015, 104, 495-507.	3.3	43
48	Improved data visualization techniques for analyzing macromolecule structural changes. Protein Science, 2012, 21, 1540-1553.	7.6	42
49	The Science is There: Key Considerations for Stabilizing Viral Vector-Based Covid-19 Vaccines. Journal of Pharmaceutical Sciences, 2021, 110, 627-634.	3.3	42
50	Effect of Ionic Strength and pH on the Physical and Chemical Stability of a Monoclonal Antibody Antigen-Binding Fragment. Journal of Pharmaceutical Sciences, 2013, 102, 2520-2537.	3.3	40
51	High-Definition Mapping of Four Spatially Distinct Neutralizing Epitope Clusters on RiVax, a Candidate Ricin Toxin Subunit Vaccine. Vaccine Journal, 2017, 24, .	3.1	39
52	Preformulation studies—The next advance in aluminum adjuvant-containing vaccines. Vaccine, 2010, 28, 4868-4870.	3.8	38
53	Calculating the Mass of Subvisible Protein Particles with Improved Accuracy Using Microflow Imaging Data. Journal of Pharmaceutical Sciences, 2015, 104, 536-547.	3.3	38
54	Radar Chart Array Analysis to Visualize Effects of Formulation Variables on IgG1 Particle Formation as Measured by Multiple Analytical Techniques. Journal of Pharmaceutical Sciences, 2013, 102, 4256-4267.	3.3	37

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55	Characterization and biological evaluation of a microparticle adjuvant formulation for plasmid DNA vaccines. Journal of Pharmaceutical Sciences, 2004, 93, 1924-1939.	3.3	33
56	Biophysical Characterization and Stabilization of the Recombinant Albumin Fusion Protein sEphB4–HSA. Journal of Pharmaceutical Sciences, 2012, 101, 1969-1984.	3.3	31
57	High-Throughput Biophysical Analysis and Data Visualization of Conformational Stability of an IgG1 Monoclonal Antibody After Deglycosylation. Journal of Pharmaceutical Sciences, 2013, 102, 3942-3956.	3.3	31
58	Physical Stability Comparisons of IgG1-Fc Variants: Effects of N-Glycosylation Site Occupancy and Asp/Gln Residues at Site Asn 297. Journal of Pharmaceutical Sciences, 2014, 103, 1613-1627.	3.3	31
59	High-Resolution Epitope Positioning of a Large Collection of Neutralizing and Nonneutralizing Single-Domain Antibodies on the Enzymatic and Binding Subunits of Ricin Toxin. Vaccine Journal, 2017, 24, .	3.1	31
60	Analytical Comparability Assessments of 5 Recombinant CRM 197 Proteins From Different Manufacturers and Expression Systems. Journal of Pharmaceutical Sciences, 2018, 107, 1806-1819.	3.3	31
61	Ongoing Challenges to Develop High Concentration Monoclonal Antibody-based Formulations for Subcutaneous Administration: Quo Vadis?. Journal of Pharmaceutical Sciences, 2022, 111, 861-867.	3.3	30
62	A Micro–Polyethylene Glycol Precipitation Assay as a Relative Solubility Screening Tool for Monoclonal Antibody Design and Formulation Development. Journal of Pharmaceutical Sciences, 2016, 105, 2319-2327.	3.3	29
63	Investigation of Protein Conformational Stability Employing a Multimodal Spectrometer. Analytical Chemistry, 2011, 83, 9399-9405.	6.5	28
64	Preformulation Characterization of an Aluminum Salt-Adjuvanted Trivalent Recombinant Protein-Based Vaccine Candidate Against Streptococcus Pneumoniae. Journal of Pharmaceutical Sciences, 2012, 101, 3078-3090.	3.3	28
65	Correlating the Effects of Antimicrobial Preservatives on Conformational Stability, Aggregation Propensity, and Backbone Flexibility of an IgG1 mAb. Journal of Pharmaceutical Sciences, 2017, 106, 1508-1518.	3.3	28
66	Production, Characterization, and Biological Evaluation of Well-Defined IgG1 Fc Glycoforms as a Model System for Biosimilarity Analysis. Journal of Pharmaceutical Sciences, 2016, 105, 559-574.	3.3	27
67	SARS-CoV-2 receptor binding domain displayed on HBsAg virus–like particles elicits protective immunity in macaques. Science Advances, 2022, 8, eabl6015.	10.3	27
68	Glassy-State Stabilization of a Dominant Negative Inhibitor Anthrax Vaccine Containing Aluminum Hydroxide and Glycopyranoside Lipid A Adjuvants. Journal of Pharmaceutical Sciences, 2015, 104, 627-639.	3.3	26
69	Preformulation Characterization and Stability Assessments of Secretory IgA Monoclonal Antibodies as Potential Candidates for Passive Immunization by Oral Administration. Journal of Pharmaceutical Sciences, 2020, 109, 407-421.	3.3	26
70	Physical Characterization and Stabilization of a Lentiviral Vector Against Adsorption and Freeze-Thaw. Journal of Pharmaceutical Sciences, 2018, 107, 2764-2774.	3.3	25
71	An empirical phase diagram approach to investigate conformational stability of "secondâ€generation― functional mutants of acidic fibroblast growth factorâ€1. Protein Science, 2012, 21, 418-432.	7.6	24
72	Correlating the Impact of Well-Defined Oligosaccharide Structures on Physical Stability Profiles of IgG1-Fc Glycoforms. Journal of Pharmaceutical Sciences, 2016, 105, 588-601.	3.3	24

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73	Effect of Aluminum Adjuvant and Preservatives on Structural Integrity and Physicochemical Stability Profiles of Three Recombinant Subunit Rotavirus Vaccine Antigens. Journal of Pharmaceutical Sciences, 2020, 109, 476-487.	3.3	24
74	Physical Characterization and Formulation Development of a Recombinant Pneumolysoid Protein-Based Pneumococcal Vaccine. Journal of Pharmaceutical Sciences, 2013, 102, 387-400.	3.3	23
75	Evaluation of Hydrogen Exchange Mass Spectrometry as a Stability-Indicating Method for Formulation Excipient Screening for an IgG4 Monoclonal Antibody. Journal of Pharmaceutical Sciences, 2018, 107, 1009-1019.	3.3	23
76	Vaccines as physically and chemically well-defined pharmaceutical dosage forms. Expert Review of Vaccines, 2010, 9, 689-691.	4.4	22
77	Combined semi-empirical screening and design of experiments (DOE) approach to identify candidate formulations of a lyophilized live attenuated tetravalent viral vaccine candidate. Vaccine, 2018, 36, 3169-3179.	3.8	22
78	Local Dynamics and Their Alteration by Excipients Modulate the Global Conformational Stability of an lgG1 Monoclonal Antibody. Journal of Pharmaceutical Sciences, 2012, 101, 4444-4457.	3.3	21
79	Development of a Stable Virus-Like Particle Vaccine Formulation against Chikungunya Virus and Investigation of the Effects of Polyanions. Journal of Pharmaceutical Sciences, 2013, 102, 4305-4314.	3.3	21
80	Comparative Evaluation of the Chemical Stability of 4 Well-Defined Immunoglobulin G1-Fc Glycoforms. Journal of Pharmaceutical Sciences, 2016, 105, 575-587.	3.3	20
81	A C-terminal Pfs48/45 malaria transmission-blocking vaccine candidate produced in the baculovirus expression system. Scientific Reports, 2020, 10, 395.	3.3	20
82	An Improved Methodology for Multidimensional High-Throughput Preformulation Characterization of Protein Conformational Stability. Journal of Pharmaceutical Sciences, 2012, 101, 2017-2024.	3.3	19
83	Probing structurally altered and aggregated states of therapeutically relevant proteins using <scp>G</scp> roEL coupled to bioâ€layer interferometry. Protein Science, 2014, 23, 1461-1478.	7.6	19
84	Development of Stabilizing Formulations of a Trivalent Inactivated Poliovirus Vaccine in a Dried State for Delivery in the Nanopatchâ"¢ Microprojection Array. Journal of Pharmaceutical Sciences, 2018, 107, 1540-1551.	3.3	19
85	Understanding the relevance of local conformational stability and dynamics to the aggregation propensity of an IgG1 and IgG2 monoclonal antibodies. Protein Science, 2013, 22, 1295-1305.	7.6	18
86	Coformulation of Broadly Neutralizing Antibodies 3BNC117 and PGT121: Analytical Challenges During Preformulation Characterization and Storage Stability Studies. Journal of Pharmaceutical Sciences, 2018, 107, 3032-3046.	3.3	18
87	Structural Changes and Aggregation Mechanisms of Two Different Dimers of an IgG2 Monoclonal Antibody. Biochemistry, 2018, 57, 5466-5479.	2.5	18
88	Biophysical and formulation studies of the <i>Schistosoma mansoni</i> TSP-2 extracellular domain recombinant protein, a lead vaccine candidate antigen for intestinal schistosomiasis. Human Vaccines and Immunotherapeutics, 2013, 9, 2351-2361.	3.3	17
89	Impact of Polysorbate 80 Grade on the Interfacial Properties and Interfacial Stress Induced Subvisible Particle Formation in Monoclonal Antibodies. Journal of Pharmaceutical Sciences, 2021, 110, 746-759.	3.3	17

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91	Comparison of the Structural Stability and Dynamic Properties of Recombinant Anthrax Protective Antigen and its 2-Fluorohistidine-Labeled Analogue. Journal of Pharmaceutical Sciences, 2012, 101, 4118-4128.	3.3	16
92	Characterization of an Oncolytic Herpes Simplex Virus Drug Candidate. Journal of Pharmaceutical Sciences, 2015, 104, 485-494.	3.3	16
93	Using homology modeling to interrogate binding affinity in neutralization of ricin toxin by a family of single domain antibodies. Proteins: Structure, Function and Bioinformatics, 2017, 85, 1994-2008.	2.6	16
94	Empirical Correction for Differences in Chemical Exchange Rates in Hydrogen Exchange-Mass Spectrometry Measurements. Analytical Chemistry, 2017, 89, 8931-8941.	6.5	16
95	The Pfs230 N-terminal fragment, Pfs230D1+: expression and characterization of a potential malaria transmission-blocking vaccine candidate. Malaria Journal, 2019, 18, 356.	2.3	16
96	Developability Assessment of Physicochemical Properties and Stability Profiles of HIV-1 BG505 SOSIP.664 and BG505 SOSIP.v4.1-GT1.1 gp140 Envelope Glycoprotein Trimers as Candidate Vaccine Antigens. Journal of Pharmaceutical Sciences, 2019, 108, 2264-2277.	3.3	16
97	Two Decades of Publishing Excellence in Pharmaceutical Biotechnology. Journal of Pharmaceutical Sciences, 2015, 104, 290-300.	3.3	15
98	Impact of Glycosylation on the Local Backbone Flexibility of Well-Defined IgG1-Fc Glycoforms Using Hydrogen Exchange-Mass Spectrometry. Journal of Pharmaceutical Sciences, 2018, 107, 2315-2324.	3.3	15
99	Characterization of Excipient Effects on Reversible Self-Association, Backbone Flexibility, and Solution Properties of an IgG1 Monoclonal Antibody at High Concentrations: Part 1. Journal of Pharmaceutical Sciences, 2020, 109, 340-352.	3.3	15
100	Fine-Specificity Epitope Analysis Identifies Contact Points on Ricin Toxin Recognized by Protective Monoclonal Antibodies. ImmunoHorizons, 2018, 2, 262-273.	1.8	15
101	Comparative Signature Diagrams to Evaluate Biophysical Data for Differences in Protein Structure Across Various Formulations. Journal of Pharmaceutical Sciences, 2013, 102, 43-51.	3.3	14
102	Mechanism of a Decrease in Potency for the Recombinant Influenza A Virus Hemagglutinin H3 Antigen During Storage. Journal of Pharmaceutical Sciences, 2014, 103, 821-827.	3.3	14
103	Development of a candidate stabilizing formulation for bulk storage of a double mutant heat labile toxin (dmLT) protein based adjuvant. Vaccine, 2017, 35, 5471-5480.	3.8	14
104	The Botanical Drug Substance Crofelemer as a Model System for Comparative Characterization of Complex Mixture Drugs. Journal of Pharmaceutical Sciences, 2017, 106, 3242-3256.	3.3	14
105	Investigation of a monoclonal antibody against enterotoxigenic <i>Escherichia coli</i> , expressed as secretory IgA1 and IgA2 in plants. Gut Microbes, 2021, 13, 1-14.	9.8	14
106	Adsorption of recombinant poxvirus L1-protein to aluminum hydroxide/CpG vaccine adjuvants enhances immune responses and protection of mice from vaccinia virus challenge. Vaccine, 2013, 31, 319-326.	3.8	13
107	Characterizing and Minimizing Aggregation and Particle Formation of Three Recombinant Fusion-Protein Bulk Antigens for Use in a Candidate Trivalent Rotavirus Vaccine. Journal of Pharmaceutical Sciences, 2020, 109, 394-406.	3.3	13
108	Recombinant Subunit Rotavirus Trivalent Vaccine Candidate: Physicochemical Comparisons and Stability Evaluations of Three Protein Antigens. Journal of Pharmaceutical Sciences, 2020, 109, 380-393.	3.3	13

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109	Rapid Developability Assessments to Formulate Recombinant Protein Antigens as Stable, Low-Cost, Multi-Dose Vaccine Candidates: Case-Study With Non-Replicating Rotavirus (NRRV) Vaccine Antigens. Journal of Pharmaceutical Sciences, 2021, 110, 1042-1053.	3.3	13
110	Characterization and Stabilization of Recombinant Human Protein Pentraxin (rhPTX-2). Journal of Pharmaceutical Sciences, 2013, 102, 827-841.	3.3	12
111	Short-term and longer-term protective immune responses generated by subunit vaccination with smallpox A33, B5, L1 or A27 proteins adjuvanted with aluminum hydroxide and CpG in mice challenged with vaccinia virus. Vaccine, 2020, 38, 6007-6018.	3.8	12
112	Holistic process development to mitigate proteolysis of a subunit rotavirus vaccine candidate produced in <scp><i>Pichia pastoris</i></scp> by means of an acid pH pulse during fedâ€batch fermentation. Biotechnology Progress, 2020, 36, e2966.	2.6	12
113	Antigen-adjuvant interactions, stability, and immunogenicity profiles of a SARS-CoV-2 receptor-binding domain (RBD) antigen formulated with aluminum salt and CpG adjuvants. Human Vaccines and Immunotherapeutics, 2022, 18, .	3.3	12
114	The Characterization, Stabilization, and Formulation of Acidic Fibroblast Growth Factor. Pharmaceutical Biotechnology, 2002, 9, 181-217.	0.3	11
115	Identifying Stabilizers of Plasmid DNA for Pharmaceutical Use. Journal of Pharmaceutical Sciences, 2011, 100, 904-914.	3.3	11
116	Biosimilarity Assessments of Model IgG1-Fc Glycoforms Using a Machine Learning Approach. Journal of Pharmaceutical Sciences, 2016, 105, 602-612.	3.3	11
117	Formulation Development and Improved Stability of a Combination Measles and Rubella Live-Viral Vaccine Dried for Use in the Nanopatch TM Microneedle Delivery System. Human Vaccines and Immunotherapeutics, 2021, 17, 2501-2516.	3.3	11
118	Evaluation of lumazine synthase from <i>Bacillus anthracis</i> as a presentation platform for polyvalent antigen display. Protein Science, 2017, 26, 2059-2072.	7.6	10
119	A Collection of Single-Domain Antibodies that Crowd Ricin Toxin's Active Site. Antibodies, 2018, 7, 45.	2.5	10
120	Effect of 2 Emulsion-Based Adjuvants on the Structure and Thermal Stability of Staphylococcus aureus Alpha-Toxin. Journal of Pharmaceutical Sciences, 2018, 107, 2325-2334.	3.3	10
121	Structural Characterization and Physicochemical Stability Profile of a Double Mutant Heat Labile Toxin Protein Based Adjuvant. Journal of Pharmaceutical Sciences, 2017, 106, 3474-3485.	3.3	9
122	Effect of Formulation Variables on the Stability of a Live, Rotavirus (RV3-BB) Vaccine Candidate using inÂvitro Gastric Digestion Models to Mimic Oral Delivery. Journal of Pharmaceutical Sciences, 2021, 110, 760-770.	3.3	9
123	Formulation development of a live attenuated human rotavirus (RV3-BB) vaccine candidate for use in low- and middle-income countries. Human Vaccines and Immunotherapeutics, 2021, 17, 2298-2310.	3.3	9
124	Novel Ricin Subunit Antigens With Enhanced Capacity to Elicit Toxin-Neutralizing Antibody Responses in Mice. Journal of Pharmaceutical Sciences, 2016, 105, 1603-1613.	3.3	8
125	The Use of a GroEL-BLI Biosensor to Rapidly Assess Preaggregate Populations for Antibody Solutions Exhibiting Different Stability Profiles. Journal of Pharmaceutical Sciences, 2018, 107, 559-570.	3.3	8
126	Molecular engineering improves antigen quality and enables integrated manufacturing of a trivalent subunit vaccine candidate for rotavirus. Microbial Cell Factories, 2021, 20, 94.	4.0	8

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127	Challenges and opportunities of using liquid chromatography and mass spectrometry methods to develop complex vaccine antigens as pharmaceutical dosage forms. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1032, 23-38.	2.3	7
128	Site-Specific Hydrolysis Reaction C-Terminal of Methionine in Met-His during Metal-Catalyzed Oxidation of IgG-1. Molecular Pharmaceutics, 2016, 13, 1317-1328.	4.6	7
129	Stabilization and formulation of a recombinant Human Cytomegalovirus vector for use as a candidate HIV-1 vaccine. Vaccine, 2019, 37, 6696-6706.	3.8	7
130	Mechanism of Thimerosal-Induced Structural Destabilization of a Recombinant Rotavirus P[4] Protein Antigen Formulated as a Multi-Dose Vaccine. Journal of Pharmaceutical Sciences, 2021, 110, 1054-1066.	3.3	7
131	Chemical Stability of the Botanical Drug Substance Crofelemer: A Model System for Comparative Characterization of Complex Mixture Drugs. Journal of Pharmaceutical Sciences, 2017, 106, 3257-3269.	3.3	6
132	Characterization of Excipient Effects on Reversible Self-Association, Backbone Flexibility, and Solution Properties of an IgG1 Monoclonal Antibody at High Concentrations: Part 2. Journal of Pharmaceutical Sciences, 2020, 109, 353-363.	3.3	6
133	Evaluating the Combined Impact of Temperature and Application of Interfacial Dilatational Stresses on Surface-mediated Protein Particle Formation in Monoclonal Antibody Formulations. Journal of Pharmaceutical Sciences, 2022, 111, 680-689.	3.3	6
134	Case Studies Applying Biophysical Techniques to Better Characterize Protein Aggregates and Particulates of Varying Size. , 2013, , 205-243.		5
135	Comparative Characterization of Crofelemer Samples Using Data Mining and Machine Learning Approaches With Analytical Stability Data Sets. Journal of Pharmaceutical Sciences, 2017, 106, 3270-3279.	3.3	5
136	Developing a manufacturing process to deliver a cost effective and stable liquid human rotavirus vaccine. Vaccine, 2021, 39, 2048-2059.	3.8	5
137	Improved Comparative Signature Diagrams to Evaluate Similarity of Storage Stability Profiles of Different IgG1 mAbs. Journal of Pharmaceutical Sciences, 2016, 105, 1028-1035.	3.3	4
138	Preformulation Characterization, Stabilization, and Formulation Design for the Acrylodan-Labeled Glucose-Binding Protein SM4-AC. Journal of Pharmaceutical Sciences, 2017, 106, 1197-1210.	3.3	4
139	Structural Characterization and Formulation Development of a Trivalent Equine Encephalitis Virus-Like Particle Vaccine Candidate. Journal of Pharmaceutical Sciences, 2018, 107, 2544-2558.	3.3	4
140	Production of Well-Characterized Virus-like Particles in an Escherichia coli-Based Expression Platform for Preclinical Vaccine Assessments. Methods in Molecular Biology, 2016, 1404, 437-457.	0.9	3
141	Effect of acrylodan conjugation and forced oxidation on the structural integrity, conformational stability, and binding activity of a glucose binding protein SM4 used in a prototype continuous glucose monitor. Protein Science, 2017, 26, 527-535.	7.6	3
142	Modeling the long-term 2-8°C stability profiles of a live, rotavirus vaccine candidate (RV3-BB) in various liquid formulations via extrapolations of real-time and accelerated stability data. Biologicals, 2022, 75, 21-28.	1.4	3
143	Crystallization of a nonreplicating rotavirus vaccine candidate. Biotechnology and Bioengineering, 2021, 118, 1750-1756.	3.3	2
144	Interaction of Aluminum-adjuvanted Recombinant P[4] Protein Antigen With Preservatives: Storage Stability and Backbone Flexibility Studies. Journal of Pharmaceutical Sciences, 2022, 111, 970-981.	3.3	2

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145	Development of a high-throughput RT-PCR based viral infectivity assay for monitoring the stability of a replicating recombinant Lymphocytic Choriomeningitis viral vector. Journal of Virological Methods, 2022, 301, 114440.	2.1	1
146	Formulation Studies During Preclinical Development of Influenza Hemagglutinin and Virus-Like Particle Vaccine Candidates. Methods in Molecular Biology, 2016, 1404, 393-421.	0.9	0