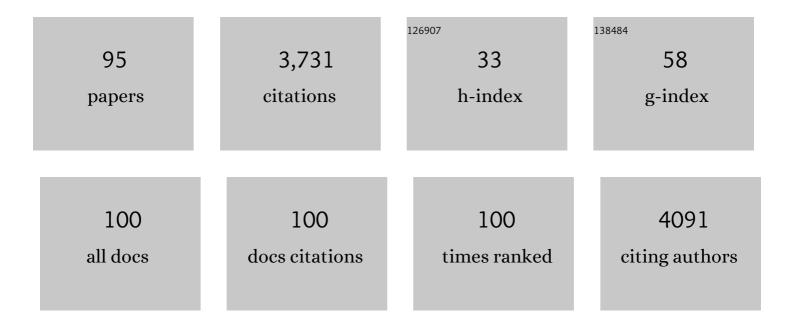
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Statistical electromagnetics for industrial pharmaceutical lyophilization. , 2022, 1, .		4
2	Fibrillation of Human Calcitonin and Its Analogs: Effects of Phosphorylation and Disulfide Reduction. Biophysical Journal, 2021, 120, 86-100.	0.5	10
3	Effects of drying method and excipient on the structure and physical stability of protein solids: Freeze drying vs. spray freeze drying. International Journal of Pharmaceutics, 2021, 594, 120169.	5.2	36
4	Stability of antibody drug conjugate formulations evaluated using solid-state hydrogen-deuterium exchange mass spectrometry. Journal of Pharmaceutical Sciences, 2021, 110, 2379-2385.	3.3	5
5	Effects of temperature and relative humidity in D2O on solid-state hydrogen deuterium exchange mass spectrometry (ssHDX-MS). International Journal of Pharmaceutics, 2021, 596, 120263.	5.2	4
6	Understanding the Impact of Protein–Excipient Interactions on Physical Stability of Spray-Dried Protein Solids. Molecular Pharmaceutics, 2021, 18, 2657-2668.	4.6	24
7	Effect of â€~pH' on the Rate of Pyroglutamate Formation in Solution and Lyophilized Solids. Molecular Pharmaceutics, 2021, 18, 3116-3124.	4.6	9
8	Surface Composition and Formulation Heterogeneity of Protein Solids Produced by Spray Drying. Pharmaceutical Research, 2020, 37, 14.	3.5	13
9	A Novel Photoreactive Excipient to Probe Peptide-Matrix Interactions in Lyophilized Solids. Journal of Pharmaceutical Sciences, 2020, 109, 709-718.	3.3	1
10	Effects of Secondary Structure on Solid-State Hydrogen–Deuterium Exchange in Model α-Helix and β-Sheet Peptides. Molecular Pharmaceutics, 2020, 17, 3501-3512.	4.6	9
11	Prehydration and the Reversibility of Solid-State Hydrogen–Deuterium Exchange. Molecular Pharmaceutics, 2020, 17, 3541-3552.	4.6	1
12	Solid-State Hydrogen–Deuterium Exchange Mass Spectrometry (ssHDX-MS) of Lyophilized Poly- <scp>d</scp> , <scp>l</scp> -Alanine. Molecular Pharmaceutics, 2019, 16, 2935-2946.	4.6	9
13	Effects of ionic interactions on protein stability prediction using solid-state hydrogen deuterium exchange with mass spectrometry (ssHDX-MS). International Journal of Pharmaceutics, 2019, 568, 118512.	5.2	3
14	Effects of drying method and excipient on structure and stability of protein solids using solid-state hydrogen/deuterium exchange mass spectrometry (ssHDX-MS). International Journal of Pharmaceutics, 2019, 567, 118470.	5.2	22
15	Optimizing the Formulation and Lyophilization Process for a Fragment Antigen Binding (Fab) Protein Using Solid-State Hydrogen–Deuterium Exchange Mass Spectrometry (ssHDX-MS). Molecular Pharmaceutics, 2019, 16, 4485-4495.	4.6	8
16	Photolytic Labeling To Quantify Peptide–Water Interactions in Lyophilized Solids. Molecular Pharmaceutics, 2019, 16, 1053-1064.	4.6	0
17	Photolytic Labeling and Its Applications in Protein Drug Discovery and Development. Journal of Pharmaceutical Sciences, 2019, 108, 791-797.	3.3	9
18	High-Resolution Mass Spectrometric Methods for Proteins in Lyophilized Solids. Methods in Pharmacology and Toxicology, 2019, , 353-375.	0.2	1

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19	In-Situ Molecular Vapor Composition Measurements During Lyophilization. Pharmaceutical Research, 2018, 35, 115.	3.5	4
20	Probing the Conformation of an IgG1 Monoclonal Antibody in Lyophilized Solids Using Solid-State Hydrogen–Deuterium Exchange with Mass Spectrometric Analysis (ssHDX-MS). Molecular Pharmaceutics, 2018, 15, 356-368.	4.6	16
21	Effects of Drying Process on an IgG1 Monoclonal Antibody Using Solid-State Hydrogen Deuterium Exchange with Mass Spectrometric Analysis (ssHDX-MS). Pharmaceutical Research, 2018, 35, 12.	3.5	29
22	Solid-State Hydrogen–Deuterium Exchange Mass Spectrometry: Correlation of Deuterium Uptake and Long-Term Stability of Lyophilized Monoclonal Antibody Formulations. Molecular Pharmaceutics, 2018, 15, 1-11.	4.6	39
23	Quantitative Analysis of Peptide–Matrix Interactions in Lyophilized Solids Using Photolytic Labeling. Molecular Pharmaceutics, 2018, 15, 2797-2806.	4.6	4
24	A Cooperative Folding Unit as the Structural Link for Energetic Coupling within a Protein. Biochemistry, 2017, 56, 6555-6564.	2.5	3
25	Process and Formulation Effects on Protein Structure in Lyophilized Solids Using Mass Spectrometric Methods. Journal of Pharmaceutical Sciences, 2016, 105, 1684-1692.	3.3	17
26	Physical Characterization and Innate Immunogenicity of Aggregated Intravenous Immunoglobulin (IGIV) in an In Vitro Cell-Based Model. Pharmaceutical Research, 2016, 33, 1736-1751.	3.5	28
27	Immunogenicity of Therapeutic Protein Aggregates. Journal of Pharmaceutical Sciences, 2016, 105, 417-430.	3.3	392
28	Fibpredictor: a computational method for rapid prediction of amyloid fibril structures. Journal of Molecular Modeling, 2016, 22, 206.	1.8	10
29	Thiol-Disulfide Exchange in Human Growth Hormone. Pharmaceutical Research, 2016, 33, 1370-1382.	3.5	9
30	Thiol–Disulfide Exchange in Peptides Derived from Human Growth Hormone During Lyophilization and Storage in the Solid State. Journal of Pharmaceutical Sciences, 2015, 104, 1291-1302.	3.3	14
31	Mass Spectrometric Approaches to Study Protein Structure and Interactions in Lyophilized Powders. Journal of Visualized Experiments, 2015, , 52503.	0.3	14
32	Photolytic Cross-Linking to Probe Protein–Protein and Protein–Matrix Interactions in Lyophilized Powders. Molecular Pharmaceutics, 2015, 12, 3237-3249.	4.6	8
33	Cocrystalline Solids of Telaprevir with Enhanced Oral Absorption. Journal of Pharmaceutical Sciences, 2015, 104, 3343-3350.	3.3	16
34	Structural Transitions and Interactions in the Early Stages of Human Glucagon Amyloid Fibrillation. Biophysical Journal, 2015, 108, 937-948.	0.5	19
35	Effect of Hydrolytic Degradation on the In Vivo Properties of Monoclonal Antibodies. AAPS Advances in the Pharmaceutical Sciences Series, 2015, , 105-135.	0.6	1
36	Characterizing Protein Structure, Dynamics and Conformation in Lyophilized Solids. Current Pharmaceutical Design, 2015, 21, 5845-5853.	1.9	38

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37	Analyzing Subvisible Particles in Protein Drug Products: a Comparison of Dynamic Light Scattering (DLS) and Resonant Mass Measurement (RMM). AAPS Journal, 2014, 16, 440-451.	4.4	75
38	Commentary: Current Perspectives on the Aggregation of Protein Drugs. AAPS Journal, 2014, 16, 413-414.	4.4	7
39	Thiol–Disulfide Exchange in Peptides Derived from Human Growth Hormone. Journal of Pharmaceutical Sciences, 2014, 103, 1032-1042.	3.3	14
40	Predicting Protein Aggregation during Storage in Lyophilized Solids Using Solid State Amide Hydrogen/Deuterium Exchange with Mass Spectrometric Analysis (ssHDX-MS). Molecular Pharmaceutics, 2014, 11, 1869-1879.	4.6	56
41	Protein aggregation and lyophilization: Protein structural descriptors as predictors of aggregation propensity. Computers and Chemical Engineering, 2013, 58, 369-377.	3.8	12
42	Microarrays and microneedle arrays for delivery of peptides, proteins, vaccines and other applications. Expert Opinion on Drug Delivery, 2013, 10, 1155-1170.	5.0	46
43	Photolytic Labeling To Probe Molecular Interactions in Lyophilized Powders. Molecular Pharmaceutics, 2013, 10, 4629-4639.	4.6	13
44	Localized Hydration in Lyophilized Myoglobin by Hydrogen–Deuterium Exchange Mass Spectrometry. 2. Exchange Kinetics. Molecular Pharmaceutics, 2012, 9, 727-733.	4.6	28
45	Protein G, Protein A and Protein A-Derived Peptides Inhibit the Agitation Induced Aggregation of IgG. Molecular Pharmaceutics, 2012, 9, 622-628.	4.6	12
46	Localized Hydration in Lyophilized Myoglobin by Hydrogen–Deuterium Exchange Mass Spectrometry. 1. Exchange Mapping. Molecular Pharmaceutics, 2012, 9, 718-726.	4.6	36
47	Adhesive/Dentin Interface: The Weak Link in the Composite Restoration. Annals of Biomedical Engineering, 2010, 38, 1989-2003.	2.5	362
48	Immune response to controlled release of immunomodulating peptides in a murine experimental autoimmune encephalomyelitis (EAE) model. Journal of Controlled Release, 2010, 141, 145-152.	9.9	25
49	Thiol-Disulfide Interchange in the Tocinoic Acid/Glutathione System During Freezing and Drying. Journal of Pharmaceutical Sciences, 2010, 99, 4849-4856.	3.3	6
50	Effect of photoinitiators on the in vitro performance of a dentin adhesive exposed to simulated oral environment. Dental Materials, 2009, 25, 452-458.	3.5	67
51	Water sorption and dynamic mechanical properties of dentin adhesives with a urethane-based multifunctional methacrylate monomer. Dental Materials, 2009, 25, 1569-1575.	3.5	70
52	Dynamic mechanical analysis and esterase degradation of dentin adhesives containing a branched methacrylate. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 91B, 61-70.	3.4	57
53	Enzyme-catalyzed hydrolysis of dentin adhesives containing a new urethane-based trimethacrylate monomer. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 91B, 562-571.	3.4	35
54	Reversibility and regioselectivity in thiol/disulfide interchange of tocinoic acid with glutathione in lyophilized solids. Journal of Pharmaceutical Sciences, 2009, 98, 3312-3318.	3.3	6

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55	Physical properties of PLGA films during polymer degradation. Journal of Applied Polymer Science, 2009, 114, 2848-2854.	2.6	96
56	Effect of protein structure on deamidation rate in the Fc fragment of an IgG1 monoclonal antibody. Protein Science, 2009, 18, 1573-1584.	7.6	80
57	Effects of Excipients on Protein Conformation in Lyophilized Solids by Hydrogen/Deuterium Exchange Mass Spectrometry. Pharmaceutical Research, 2008, 25, 259-267.	3.5	44
58	Chemical Degradation of Peptides and Proteins in PLGA: A Review of Reactions and Mechanisms. Journal of Pharmaceutical Sciences, 2008, 97, 2395-2404.	3.3	224
59	Preparation and properties of novel dentin adhesives with esterase resistance. Journal of Applied Polymer Science, 2008, 107, 3588-3597.	2.6	39
60	Comparison of LC and LC/MS methods for quantifying <i>N</i> -glycosylation in recombinant IgGs. Journal of the American Society for Mass Spectrometry, 2008, 19, 1643-1654.	2.8	79
61	Protein Conformation in Amorphous Solids by FTIR and by Hydrogen/Deuterium Exchange with Mass Spectrometry. Biophysical Journal, 2008, 95, 5951-5961.	0.5	32
62	Trehalose and calcium exert site-specific effects on calmodulin conformation in amorphous solids. Biotechnology and Bioengineering, 2007, 97, 1650-1653.	3.3	13
63	Characterizing protein structure in amorphous solids using hydrogen/deuterium exchange with mass spectrometry. Analytical Biochemistry, 2007, 366, 18-28.	2.4	41
64	Effect of N-1 and N-2 residues on peptide deamidation rate in solution and solid state. AAPS Journal, 2006, 8, E166-E173.	4.4	16
65	Effects of acidic N + 1 residues on asparagine deamidation rates in solution and in the solid state. Journal of Pharmaceutical Sciences, 2005, 94, 666-675.	3.3	29
66	Effects of sucrose and mannitol on asparagine deamidation rates of model peptides in solution and in the solid state. Journal of Pharmaceutical Sciences, 2005, 94, 1723-1735.	3.3	18
67	Deamidation of model Î ² -turn cyclic peptides in the solid state. Journal of Pharmaceutical Sciences, 2005, 94, 2616-2631.	3.3	10
68	Polyvinylpyrrolidone–drug conjugate: synthesis and release mechanism. Journal of Controlled Release, 2004, 94, 91-100.	9.9	119
69	Solid-state NMR studies of pharmaceutical solids in polymer matrices. Analytical and Bioanalytical Chemistry, 2004, 378, 1504-1510.	3.7	38
70	Release from polymeric prodrugs: Linkages and their degradation. Journal of Pharmaceutical Sciences, 2004, 93, 1962-1979.	3.3	123
71	Applications of model βâ€hairpin peptides. Journal of Pharmaceutical Sciences, 2004, 93, 2881-2894.	3.3	33
72	Pharmaceutical product design using combinatorial optimization. Computers and Chemical Engineering, 2004, 28, 425-434.	3.8	33

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73	Reaction of a Peptide with Polyvinylpyrrolidone in the Solid State. Journal of Pharmaceutical Sciences, 2003, 92, 585-593.	3.3	26
74	Gastric Function in the Elderly: Effects on Absorption of Ketoconazole. Journal of Clinical Pharmacology, 2003, 43, 996-1002.	2.0	26
75	Racemization of an Asparagine Residue during Peptide Deamidation. Journal of the American Chemical Society, 2003, 125, 11486-11487.	13.7	37
76	Formaldehyde production by Tris buffer in peptide formulations at elevated temperature. Journal of Pharmaceutical Sciences, 2001, 90, 1198-1203.	3.3	14
77	Effect of â€~pH' on the rate of asparagine deamidation in polymeric formulations: â€~pH'–rate profile. Journal of Pharmaceutical Sciences, 2001, 90, 141-156.	3.3	67
78	Design of novel pharmaceutical products via combinatorial optimization. Computers and Chemical Engineering, 2000, 24, 701-704.	3.8	34
79	Chemical stability of peptides in polymers. 1. Effect of water on peptide deamidation in poly(vinyl) Tj ETQq1 1 0.7	784314 rg	BT /Overlock 64
80	Chemical stability of peptides in polymers. 2. Discriminating between solvent and plasticizing effects of water on peptide deamidation in poly(vinylpyrrolidone). Journal of Pharmaceutical Sciences, 1999, 88, 1081-1089.	3.3	54
81	Capillary electrophoresis separation of an asparagine containing hexapeptide and its deamidation products. Journal of Pharmaceutical and Biomedical Analysis, 1998, 18, 421-427.	2.8	10
82	Development of a Cell Culture System To Study Antibody Convection in Tumors. Journal of Pharmaceutical Sciences, 1997, 86, 858-864.	3.3	2
83	Effect of formulation variables on drug and polymer release from HPMC-based matrix tablets. International Journal of Pharmaceutics, 1996, 142, 53-60.	5.2	107
84	Application of benzyl hyaluronate membranes as potential wound dressings: evaluation of water vapour and gas permeabilities. Biomaterials, 1996, 17, 1639-1643.	11.4	102
85	Automated analytical systems for drug development studies part IV. A microdialysis system to study the partitioning of lomefloxacin across an erythrocyte membrane in vitro. Journal of Pharmaceutical and Biomedical Analysis, 1995, 14, 121-129.	2.8	18
86	Effect of drug hydrophilicity and membrane hydration on diffusion in hyaluronic acid ester membranes. Journal of Controlled Release, 1995, 37, 95-104.	9.9	19
87	Diffusion of an anti-transferrin receptor antibody in cultured murine melanoma cell layers. Pharmaceutical Research, 1995, 12, 1907-1916.	3.5	5
88	Swelling properties of hyaluronic acid ester membranes. Journal of Membrane Science, 1994, 92, 157-167.	8.2	19
89	Ocular sustained delivery of prednisolone using hyaluronic acid benzyl ester films. International Journal of Pharmaceutics, 1994, 111, 295-298.	5.2	24
90	Evaluation of mucoadhesive properties of hyaluronic acid benzyl esters. International Journal of Pharmaceutics, 1994, 107, 91-97.	5.2	27

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91	Gellan-based systems for ophthalmic sustained delivery of methylprednisolone. Journal of Controlled Release, 1993, 26, 195-201.	9.9	96
92	Examination of microdialysis sampling in a well-characterized hydrodynamic system. Analytical Chemistry, 1993, 65, 2324-2328.	6.5	53
93	Methylprednisolone esters of hyaluronic acid in ophthalmic drug delivery: in vitro and in vivo release studies. International Journal of Pharmaceutics, 1992, 80, 161-169.	5.2	57
94	Topical drug delivery from thin applications: theoretical predictions and experimental results. Pharmaceutical Research, 1990, 07, 1048-1054.	3.5	11
95	Buccal absorption. III. Simultaneous diffusion and metabolism of an aminopeptidase substrate in the hamster cheek pouch. Pharmaceutical Research, 1989, 06, 966-970.	3.5	18