Marco van de Weert

List of Publications by Year
in descending order

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91 papers	5,614 citations	117625 34 h-index	79698 73 g-index
97 all docs	97 docs citations	97 times ranked	7457 citing authors

#	Article	IF	Citations
1	Polysorbate 80 controls Morphology, structure and stability of human insulin Amyloid-Like spherulites. Journal of Colloid and Interface Science, 2022, 606, 1928-1939.	9.4	16
2	Interchangeability of biosimilars: A study of expert views and visions regarding the science and substitution. PLoS ONE, 2022, 17, e0262537.	2.5	5
3	Ion-Mediated Morphological Diversity in Protein Amyloid Systems. Journal of Physical Chemistry Letters, 2022, 13, 3586-3593.	4.6	9
4	Evolving Biosimilar Clinical Requirements: A Qualitative Interview Study with Industry Experts and European National Medicines Agency Regulators. BioDrugs, 2021, 35, 351-361.	4.6	1
5	A qualitative study of biosimilar manufacturer and regulator perceptions on intellectual property and abbreviated approval pathways. Nature Biotechnology, 2020, 38, 1253-1256.	17.5	8
6	The dangers of citing papers you did not read or understand. Journal of Molecular Structure, 2019, 1186, 102-103.	3.6	5
7	Manipulating Aggregation Behavior of the Uncharged Peptide Carbetocin. Journal of Pharmaceutical Sciences, 2018, 107, 838-847.	3.3	2
8	Effect of excipients on encapsulation and release of insulin from spray-dried solid lipid microparticles. International Journal of Pharmaceutics, 2018, 550, 439-446.	5.2	15
9	Spray dried cubosomes with ovalbumin and Quil-A as a nanoparticulate dry powder vaccine formulation. International Journal of Pharmaceutics, 2018, 550, 35-44.	5.2	30
10	Screening of plants used in the European traditional medicine to treat memory disorders for acetylcholinesterase inhibitory activity and anti amyloidogenic activity. Journal of Ethnopharmacology, 2017, 200, 66-73.	4.1	12
11	Correlation between calculated molecular descriptors of excipient amino acids and experimentally observed thermal stability of lysozyme. International Journal of Pharmaceutics, 2017, 523, 238-245.	5.2	9
12	Investigation of factors affecting the stability of lysozyme spray dried from ethanol-water solutions. International Journal of Pharmaceutics, 2017, 534, 263-271.	5.2	9
13	The Inhibitory Effect of Natural Products on Protein Fibrillation May Be Caused by Degradation Products â€“ A Study Using Aloin and Insulin. PLoS ONE, 2016, 11, e0149148.	2.5	7
14	Rhamnogalacturonan-I Based Microcapsules for Targeted Drug Release. PLoS ONE, 2016, 11, e0168050.	2.5	13
15	Lipidation Effect on Surface Adsorption and Associated Fibrillation of the Model Protein Insulin. Langmuir, 2016, 32, 7241-7249.	3.5	2
16	Large-Scale Biophysical Evaluation of Protein PEGylation Effects: In Vitro Properties of 61 Protein Entities. Molecular Pharmaceutics, 2016, 13, 1587-1598.	4.6	12
17	Rapid Conformational Analysis of Protein Drugs in Formulation by Hydrogen/Deuterium Exchange Mass Spectrometry. Journal of Pharmaceutical Sciences, 2016, 105, 3269-3277.	3.3	12
18	Circular Dichroism Spectroscopy for Structural Characterization of Proteins. Advances in Delivery Science and Technology, 2016, , 223-251.	0.4	9

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19	Taylor Dispersion Analysis as a promising tool for assessment of peptide-peptide interactions. European Journal of Pharmaceutical Sciences, 2016, 93, 21-28.	4.0	12
20	On the purported â€œbackbone fluorescenceâ€•in protein three-dimensional fluorescence spectra. RSC Advances, 2016, 6, 112870-112876.	3.6	108
21	Effect of ethanol as a co-solvent on the aerosol performance and stability of spray-dried lysozyme. International Journal of Pharmaceutics, 2016, 513, 175-182.	5.2	20
22	Effect of the Freezing Step in the Stability and Bioactivity of Protein-Loaded PLGA Nanoparticles Upon Lyophilization. Pharmaceutical Research, 2016, 33, 2777-2793.	3.5	30
23	Mechanistic study of the inhibitory activity of Geum urbanum extract against Î±-Synuclein fibrillation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1160-1169.	2.3	18
24	Serial Coupling of Ion-Exchange and Size-Exclusion Chromatography to Determine Aggregation Levels in mAbs in The Presence of a Proteinaceous Excipient, Recombinant Human Serum Albumin. Journal of Pharmaceutical Sciences, 2015, 104, 548-556.	3.3	5
25	Influence of Tableting on the Conformation and Thermal Stability of Trypsin as a Model Protein. Journal of Pharmaceutical Sciences, 2015, 104, 4314-4321.	3.3	5
26	Preferential Interactions and the Effect of Protein PEGylation. PLoS ONE, 2015, 10, e0133584.	2.5	10
27	Competitive Adsorption of Monoclonal Antibodies and Nonionic Surfactants at Solid Hydrophobic Surfaces. Journal of Pharmaceutical Sciences, 2015, 104, 593-601.	3.3	37
28	Engineering of a novel adjuvant based on lipid-polymer hybrid nanoparticles: A quality-by-design approach. Journal of Controlled Release, 2015, 210, 48-57.	9.9	76
29	Co-encapsulation of lyoprotectants improves the stability of protein-loaded PLGA nanoparticles upon lyophilization. International Journal of Pharmaceutics, 2015, 496, 850-862.	5.2	42
30	The Effect of Protein PEGylation on Physical Stability in Liquid Formulation. Journal of Pharmaceutical Sciences, 2014, 103, 3043-3054.	3.3	18
31	Stability of Monoclonal Antibodies at High-Concentration: Head-to-Head Comparison of the IgG1 and IgG4 Subclass. Journal of Pharmaceutical Sciences, 2014, 103, 115-127.	3.3	58
32	Complex coacervates of hyaluronic acid and lysozyme: Effect on protein structure and physical stability. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 88, 325-331.	4.3	63
33	A reassessment of synchronous fluorescence in the separation of Trp and Tyr contributions in protein emission and in the determination of conformational changes. Journal of Molecular Structure, 2014, 1077, 68-76.	3.6	82
34	Fuzzy Logic-Based Expert System for Evaluating Cake Quality of Freeze-Dried Formulations. Journal of Pharmaceutical Sciences, 2013, 102, 4364-4374.	3.3	20
35	Viscosity of high concentration protein formulations of monoclonal antibodies of the IgG1 and IgG4 subclass â€“ Prediction of viscosity through proteinâ€“protein interaction measurements. European Journal of Pharmaceutical Sciences, 2013, 49, 400-410.	4.0	112
36	Small Angle X-ray Scattering-Based Elucidation of the Self-Association Mechanism of Human Insulin Analogue Lys^{B29}(N^{Îµ}Ï‰-carboxyheptadecanoyl) des(B30). Biochemistry, 2013, 52, 282-294.	2.5	17

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37	Design of Experiments-Based Monitoring of Critical Quality Attributes for the Spray-Drying Process of Insulin by NIR Spectroscopy. AAPS PharmSciTech, 2012, 13, 747-755.	3.3	26
38	Formation of Dielectric Layers and Charge Regulation in Protein Adsorption at Biomimetic Interfaces. Langmuir, 2012, 28, 1804-1815.	3.5	17
39	Protease and Amylase Stability in the Presence of Chelators Used in Laundry Detergent Applications: Correlation Between Chelator Properties and Enzyme Stability in Liquid Detergents. Journal of Surfactants and Detergents, 2012, 15, 265-276.	2.1	18
40	Forced Degradation of Therapeutic Proteins. Journal of Pharmaceutical Sciences, 2012, 101, 895-913.	3.3	207
41	Correlation Between Enzyme Activity and Stability of a Protease, an Alphaâ€Amylase and a Lipase in a Simplified Liquid Laundry Detergent System, Determined by Differential Scanning Calorimetry. Journal of Surfactants and Detergents, 2012, 15, 9-21.	2.1	22
42	Ionic strength-dependent denaturation of Thermomyces lanuginosus lipase induced by SDS. Archives of Biochemistry and Biophysics, 2011, 506, 92-98.	3.0	11
43	Protein Adsorption at Charged Surfaces: The Role of Electrostatic Interactions and Interfacial Charge Regulation. Langmuir, 2011, 27, 2634-2643.	3.5	205
44	Self-association of long-acting insulin analogues studied by size exclusion chromatography coupled to multi-angle light scattering. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 2945-2951.	2.3	6
45	Multivariate Analysis of Phenol in Freeze-Dried and Spray-Dried Insulin Formulations by NIR and FTIR. AAPS PharmSciTech, 2011, 12, 627-636.	3.3	20
46	Thermal and acid denaturation of bovine lens Î±â€crystallin. Proteins: Structure, Function and Bioinformatics, 2011, 79, 1747-1758.	2.6	11
47	Fluorescence quenching and ligand binding: A critical discussion of a popular methodology. Journal of Molecular Structure, 2011, 998, 144-150.	3.6	513
48	Fluorescence Quenching to Study Protein-ligand Binding: Common Errors. Journal of Fluorescence, 2010, 20, 625-629.	2.5	186
49	The Molecular Chaperone Î±-Crystallin as an Excipient in an Insulin Formulation. Pharmaceutical Research, 2010, 27, 1337-1347.	3.5	27
50	Interfacial Complexes between a Protein and Lipophilic Ions at an Oilâ^'Water Interface. Analytical Chemistry, 2010, 82, 7699-7705.	6.5	47
51	Large-scale polymorphism and auto-catalytic effect in insulin fibrillogenesis. Soft Matter, 2010, 6, 4413.	2.7	33
52	Analysis of Insulin Allostery in Solution and Solid State With FTIR. Journal of Pharmaceutical Sciences, 2009, 98, 3265-3277.	3.3	13
53	Determination of dissociation constants between polyelectrolytes and proteins by affinity capillary electrophoresis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 892-896.	2.3	22
54	The Chaperone-like Protein Î±-Crystallin Dissociates Insulin Dimers and Hexamers. Biochemistry, 2009, 48, 9313-9320.	2.5	11

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55	Analysis of Protein Physical Stability in Lipid Based Delivery Systemsâ€"The Challenges of Lipid Drug Delivery Systems. Journal of Biomedical Nanotechnology, 2009, 5, 401-408.	1.1	12
56	Studies on human insulin adsorption kinetics at an organicâ€"aqueous interface determined using a label-free electroanalytical approach. Colloids and Surfaces B: Biointerfaces, 2008, 63, 243-248.	5.0	20
57	Protein pharmaceuticals. Drug Discovery Today: Technologies, 2008, 5, e35-e36.	4.0	0
58	Secondary Nucleation and Accessible Surface in Insulin Amyloid Fibril Formation. Journal of Physical Chemistry B, 2008, 112, 3853-3858.	2.6	137
59	Thioflavin T Hydroxylation at Basic pH and Its Effect on Amyloid Fibril Detection. Journal of Physical Chemistry B, 2008, 112, 15174-15181.	2.6	100
60	Immunogenicity of Biopharmaceuticals: Causes, Methods to Reduce Immunogenicity, and Biosimilars. , 2008, , 97-111.		6
61	Drying methods for protein pharmaceuticals. Drug Discovery Today: Technologies, 2008, 5, e81-e88.	4.0	83
62	Quality by design â€" Spray drying of insulin intended for inhalation. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 70, 828-838.	4.3	117
63	A Helical Structural Nucleus Is the Primary Elongating Unit of Insulin Amyloid Fibrils. PLoS Biology, 2007, 5, e134.	5.6	229
64	Probing insulinâ€™s secondary structure after entrapment into alginate/chitosan nanoparticles. European Journal of Pharmaceutics and Biopharmaceutics, 2007, 65, 10-17.	4.3	159
65	Study on the binding of Thioflavin T to Î²-sheet-rich and non-Î²-sheet cavities. Journal of Structural Biology, 2007, 158, 358-369.	2.8	219
66	Binding mode of Thioflavin T in insulin amyloid fibrils. Journal of Structural Biology, 2007, 159, 483-497.	2.8	193
67	Characterisation and physical stability of PEGylated glucagon. International Journal of Pharmaceutics, 2007, 330, 89-98.	5.2	40
68	Characterisation of salmon calcitonin in spray-dried powder for inhalationEffect of chitosan. International Journal of Pharmaceutics, 2007, 331, 176-181.	5.2	49
69	Characterization of a cyclosporine solid dispersion for inhalation. AAPS Journal, 2007, 9, E190-E199.	4.4	48
70	Ligand Binding and Thermostability of Different Allosteric States of the Insulin Zincâ^'Hexamer. Biochemistry, 2006, 45, 4014-4024.	2.5	23
71	Chemical and Thermal Stability of Insulin: Effects of Zinc and Ligand Binding to the Insulin Zinc-Hexamer. Pharmaceutical Research, 2006, 23, 2611-2620.	3.5	34
72	Preparing and evaluating delivery systems for proteins. European Journal of Pharmaceutical Sciences, 2006, 29, 174-182.	4.0	70

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73	Thermal Dissociation and Unfolding of Insulin. Biochemistry, 2005, 44, 11171-11177.	2.5	119
74	Factors of importance for a successful delivery system for proteins. Expert Opinion on Drug Delivery, 2005, 2, 1029-1037.	5.0	35
75	Effects of sucrose on rFVIIa aggregation and methionine oxidation. European Journal of Pharmaceutical Sciences, 2004, 21, 597-606.	4.0	33
76	Complex Coacervation of Lysozyme and Heparin: Complex Characterization and Protein Stability. Pharmaceutical Research, 2004, 21, 2354-2359.	3.5	50
77	Probing Structural Changes of Proteins Incorporated into Water-in-Oil Emulsions. Journal of Pharmaceutical Sciences, 2004, 93, 1847-1859.	3.3	40
78	Formulation, Stability, and Characterization of Protein and Peptide Drugs. , 2004, , .		1
79	Reversible aggregation of lysozyme in a biodegradable amphiphilic multiblock copolymer. European Journal of Pharmaceutics and Biopharmaceutics, 2002, 54, 89-93.	4.3	14
80	Development of poly(ortho esters) and their application for bovine serum albumin and bupivacaine delivery. Journal of Controlled Release, 2002, 78, 133-141.	9.9	32
81	Semisolid, Self-Catalyzed Poly(Ortho Ester)s As Controlled-Release Systems: Protein Release and Protein Stability Issues. Journal of Pharmaceutical Sciences, 2002, 91, 1065-1074.	3.3	22
82	Stability aspects of salmon calcitonin entrapped in poly(ether-ester) sustained release systems. International Journal of Pharmaceutics, 2002, 248, 229-237.	5.2	14
83	Influence of neutron irradiation on holmium acetylacetonate loaded poly(l-lactic acid) microspheres. Biomaterials, 2002, 23, 1831-1839.	11.4	42
84	Characterization of poly(l-lactic acid) microspheres loaded with holmium acetylacetonate. Biomaterials, 2001, 22, 3073-3081.	11.4	53
85	Fourier Transform Infrared Spectrometric Analysis of Protein Conformation: Effect of Sampling Method and Stress Factors. Analytical Biochemistry, 2001, 297, 160-169.	2.4	222
86	Lysozyme distribution and conformation in a biodegradable polymer matrix as determined by FTIR techniques. Journal of Controlled Release, 2000, 68, 31-40.	9.9	105
87	The effect of a water/organic solvent interface on the structural stability of lysozyme. Journal of Controlled Release, 2000, 68, 351-359.	9.9	200
88	Protein instability in poly(lactic-co-glycolic acid) microparticles. Pharmaceutical Research, 2000, 17, 1159-1167.	3.5	636
89	Mass spectrometric analysis of oxidized tryptophan. Journal of Mass Spectrometry, 1998, 33, 884-891.	1.6	28
90	Identification of Oxidized Methionine in Peptides. , 1996, 10, 1905-1910.		111

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91	Delivery Technologies for Biopharmaceuticals: A Critical Assessment. , 0, , 405-412.		0