

# Marco van de Weert

## List of Publications by Year in descending order

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91  
papers

5,614  
citations

117453

34  
h-index

79541

73  
g-index

97  
all docs

97  
docs citations

97  
times ranked

7457  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein instability in poly(lactic-co-glycolic acid) microparticles. <i>Pharmaceutical Research</i> , 2000, 17, 1159-1167.	1.7	636
2	Fluorescence quenching and ligand binding: A critical discussion of a popular methodology. <i>Journal of Molecular Structure</i> , 2011, 998, 144-150.	1.8	513
3	A Helical Structural Nucleus Is the Primary Elongating Unit of Insulin Amyloid Fibrils. <i>PLoS Biology</i> , 2007, 5, e134.	2.6	229
4	Fourier Transform Infrared Spectrometric Analysis of Protein Conformation: Effect of Sampling Method and Stress Factors. <i>Analytical Biochemistry</i> , 2001, 297, 160-169.	1.1	222
5	Study on the binding of Thioflavin T to $\beta$ -sheet-rich and non- $\beta$ -sheet cavities. <i>Journal of Structural Biology</i> , 2007, 158, 358-369.	1.3	219
6	Forced Degradation of Therapeutic Proteins. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 895-913.	1.6	207
7	Protein Adsorption at Charged Surfaces: The Role of Electrostatic Interactions and Interfacial Charge Regulation. <i>Langmuir</i> , 2011, 27, 2634-2643.	1.6	205
8	The effect of a water/organic solvent interface on the structural stability of lysozyme. <i>Journal of Controlled Release</i> , 2000, 68, 351-359.	4.8	200
9	Binding mode of Thioflavin T in insulin amyloid fibrils. <i>Journal of Structural Biology</i> , 2007, 159, 483-497.	1.3	193
10	Fluorescence Quenching to Study Protein-ligand Binding: Common Errors. <i>Journal of Fluorescence</i> , 2010, 20, 625-629.	1.3	186
11	Probing insulin's secondary structure after entrapment into alginate/chitosan nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007, 65, 10-17.	2.0	159
12	Secondary Nucleation and Accessible Surface in Insulin Amyloid Fibril Formation. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3853-3858.	1.2	137
13	Thermal Dissociation and Unfolding of Insulin. <i>Biochemistry</i> , 2005, 44, 11171-11177.	1.2	119
14	Quality by design " Spray drying of insulin intended for inhalation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 70, 828-838.	2.0	117
15	Viscosity of high concentration protein formulations of monoclonal antibodies of the IgG1 and IgG4 subclass " Prediction of viscosity through protein-protein interaction measurements. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 49, 400-410.	1.9	112
16	Identification of Oxidized Methionine in Peptides. , 1996, 10, 1905-1910.		111
17	On the purported "backbone fluorescence" in protein three-dimensional fluorescence spectra. <i>RSC Advances</i> , 2016, 6, 112870-112876.	1.7	108
18	Lysozyme distribution and conformation in a biodegradable polymer matrix as determined by FTIR techniques. <i>Journal of Controlled Release</i> , 2000, 68, 31-40.	4.8	105

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19	Thioflavin T Hydroxylation at Basic pH and Its Effect on Amyloid Fibril Detection. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15174-15181.	1.2	100
20	Drying methods for protein pharmaceuticals. <i>Drug Discovery Today: Technologies</i> , 2008, 5, e81-e88.	4.0	83
21	A reassessment of synchronous fluorescence in the separation of Trp and Tyr contributions in protein emission and in the determination of conformational changes. <i>Journal of Molecular Structure</i> , 2014, 1077, 68-76.	1.8	82
22	Engineering of a novel adjuvant based on lipid-polymer hybrid nanoparticles: A quality-by-design approach. <i>Journal of Controlled Release</i> , 2015, 210, 48-57.	4.8	76
23	Preparing and evaluating delivery systems for proteins. <i>European Journal of Pharmaceutical Sciences</i> , 2006, 29, 174-182.	1.9	70
24	Complex coacervates of hyaluronic acid and lysozyme: Effect on protein structure and physical stability. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 325-331.	2.0	63
25	Stability of Monoclonal Antibodies at High-Concentration: Head-to-Head Comparison of the IgG1 and IgG4 Subclass. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 115-127.	1.6	58
26	Characterization of poly(L-lactic acid) microspheres loaded with holmium acetylacetonate. <i>Biomaterials</i> , 2001, 22, 3073-3081.	5.7	53
27	Complex Coacervation of Lysozyme and Heparin: Complex Characterization and Protein Stability. <i>Pharmaceutical Research</i> , 2004, 21, 2354-2359.	1.7	50
28	Characterisation of salmon calcitonin in spray-dried powder for inhalation Effect of chitosan. <i>International Journal of Pharmaceutics</i> , 2007, 331, 176-181.	2.6	49
29	Characterization of a cyclosporine solid dispersion for inhalation. <i>AAPS Journal</i> , 2007, 9, E190-E199.	2.2	48
30	Interfacial Complexes between a Protein and Lipophilic Ions at an Oil/Water Interface. <i>Analytical Chemistry</i> , 2010, 82, 7699-7705.	3.2	47
31	Influence of neutron irradiation on holmium acetylacetonate loaded poly(L-lactic acid) microspheres. <i>Biomaterials</i> , 2002, 23, 1831-1839.	5.7	42
32	Co-encapsulation of lyoprotectants improves the stability of protein-loaded PLGA nanoparticles upon lyophilization. <i>International Journal of Pharmaceutics</i> , 2015, 496, 850-862.	2.6	42
33	Probing Structural Changes of Proteins Incorporated into Water-in-Oil Emulsions. <i>Journal of Pharmaceutical Sciences</i> , 2004, 93, 1847-1859.	1.6	40
34	Characterisation and physical stability of PEGylated glucagon. <i>International Journal of Pharmaceutics</i> , 2007, 330, 89-98.	2.6	40
35	Competitive Adsorption of Monoclonal Antibodies and Nonionic Surfactants at Solid Hydrophobic Surfaces. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 593-601.	1.6	37
36	Factors of importance for a successful delivery system for proteins. <i>Expert Opinion on Drug Delivery</i> , 2005, 2, 1029-1037.	2.4	35

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37	Chemical and Thermal Stability of Insulin: Effects of Zinc and Ligand Binding to the Insulin Zinc-Hexamer. <i>Pharmaceutical Research</i> , 2006, 23, 2611-2620.	1.7	34
38	Effects of sucrose on rFVIIa aggregation and methionine oxidation. <i>European Journal of Pharmaceutical Sciences</i> , 2004, 21, 597-606.	1.9	33
39	Large-scale polymorphism and auto-catalytic effect in insulin fibrillogenesis. <i>Soft Matter</i> , 2010, 6, 4413.	1.2	33
40	Development of poly(ortho esters) and their application for bovine serum albumin and bupivacaine delivery. <i>Journal of Controlled Release</i> , 2002, 78, 133-141.	4.8	32
41	Effect of the Freezing Step in the Stability and Bioactivity of Protein-Loaded PLGA Nanoparticles Upon Lyophilization. <i>Pharmaceutical Research</i> , 2016, 33, 2777-2793.	1.7	30
42	Spray dried cubosomes with ovalbumin and Quil-A as a nanoparticulate dry powder vaccine formulation. <i>International Journal of Pharmaceutics</i> , 2018, 550, 35-44.	2.6	30
43	Mass spectrometric analysis of oxidized tryptophan. <i>Journal of Mass Spectrometry</i> , 1998, 33, 884-891.	0.7	28
44	The Molecular Chaperone $\hat{\alpha}$ -Crystallin as an Excipient in an Insulin Formulation. <i>Pharmaceutical Research</i> , 2010, 27, 1337-1347.	1.7	27
45	Design of Experiments-Based Monitoring of Critical Quality Attributes for the Spray-Drying Process of Insulin by NIR Spectroscopy. <i>AAPS PharmSciTech</i> , 2012, 13, 747-755.	1.5	26
46	Ligand Binding and Thermostability of Different Allosteric States of the Insulin Zinc <sup>2+</sup> Hexamer. <i>Biochemistry</i> , 2006, 45, 4014-4024.	1.2	23
47	Semisolid, Self-Catalyzed Poly(Ortho Ester)s As Controlled-Release Systems: Protein Release and Protein Stability Issues. <i>Journal of Pharmaceutical Sciences</i> , 2002, 91, 1065-1074.	1.6	22
48	Determination of dissociation constants between polyelectrolytes and proteins by affinity capillary electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 892-896.	1.2	22
49	Correlation Between Enzyme Activity and Stability of a Protease, an Alpha <sup>1</sup> -Amylase and a Lipase in a Simplified Liquid Laundry Detergent System, Determined by Differential Scanning Calorimetry. <i>Journal of Surfactants and Detergents</i> , 2012, 15, 9-21.	1.0	22
50	Studies on human insulin adsorption kinetics at an organic <sup>1</sup> /aqueous interface determined using a label-free electroanalytical approach. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 63, 243-248.	2.5	20
51	Multivariate Analysis of Phenol in Freeze-Dried and Spray-Dried Insulin Formulations by NIR and FTIR. <i>AAPS PharmSciTech</i> , 2011, 12, 627-636.	1.5	20
52	Fuzzy Logic-Based Expert System for Evaluating Cake Quality of Freeze-Dried Formulations. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 4364-4374.	1.6	20
53	Effect of ethanol as a co-solvent on the aerosol performance and stability of spray-dried lysozyme. <i>International Journal of Pharmaceutics</i> , 2016, 513, 175-182.	2.6	20
54	Protease and Amylase Stability in the Presence of Chelators Used in Laundry Detergent Applications: Correlation Between Chelator Properties and Enzyme Stability in Liquid Detergents. <i>Journal of Surfactants and Detergents</i> , 2012, 15, 265-276.	1.0	18

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55	The Effect of Protein PEGylation on Physical Stability in Liquid Formulation. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 3043-3054.	1.6	18
56	Mechanistic study of the inhibitory activity of Geum urbanum extract against $\beta$ -Synuclein fibrillation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 1160-1169.	1.1	18
57	Formation of Dielectric Layers and Charge Regulation in Protein Adsorption at Biomimetic Interfaces. <i>Langmuir</i> , 2012, 28, 1804-1815.	1.6	17
58	Small Angle X-ray Scattering-Based Elucidation of the Self-Association Mechanism of Human Insulin Analogue Lys <sup>B29</sup> (N <sup>1</sup> $\mu$ -carboxyheptadecanoyl) des(B30). <i>Biochemistry</i> , 2013, 52, 282-294.	1.2	17
59	Polysorbate 80 controls Morphology, structure and stability of human insulin Amyloid-Like spherulites. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1928-1939.	5.0	16
60	Effect of excipients on encapsulation and release of insulin from spray-dried solid lipid microparticles. <i>International Journal of Pharmaceutics</i> , 2018, 550, 439-446.	2.6	15
61	Reversible aggregation of lysozyme in a biodegradable amphiphilic multiblock copolymer. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2002, 54, 89-93.	2.0	14
62	Stability aspects of salmon calcitonin entrapped in poly(ether-ester) sustained release systems. <i>International Journal of Pharmaceutics</i> , 2002, 248, 229-237.	2.6	14
63	Analysis of Insulin Allostery in Solution and Solid State With FTIR. <i>Journal of Pharmaceutical Sciences</i> , 2009, 98, 3265-3277.	1.6	13
64	Rhamnogalacturonan-I Based Microcapsules for Targeted Drug Release. <i>PLoS ONE</i> , 2016, 11, e0168050.	1.1	13
65	Large-Scale Biophysical Evaluation of Protein PEGylation Effects: In Vitro Properties of 61 Protein Entities. <i>Molecular Pharmaceutics</i> , 2016, 13, 1587-1598.	2.3	12
66	Rapid Conformational Analysis of Protein Drugs in Formulation by Hydrogen/Deuterium Exchange Mass Spectrometry. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 3269-3277.	1.6	12
67	Taylor Dispersion Analysis as a promising tool for assessment of peptide-peptide interactions. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 93, 21-28.	1.9	12
68	Screening of plants used in the European traditional medicine to treat memory disorders for acetylcholinesterase inhibitory activity and anti amyloidogenic activity. <i>Journal of Ethnopharmacology</i> , 2017, 200, 66-73.	2.0	12
69	Analysis of Protein Physical Stability in Lipid Based Delivery Systems – The Challenges of Lipid Drug Delivery Systems. <i>Journal of Biomedical Nanotechnology</i> , 2009, 5, 401-408.	0.5	12
70	The Chaperone-like Protein $\beta$ -Crystallin Dissociates Insulin Dimers and Hexamers. <i>Biochemistry</i> , 2009, 48, 9313-9320.	1.2	11
71	Ionic strength-dependent denaturation of <i>Thermomyces lanuginosus</i> lipase induced by SDS. <i>Archives of Biochemistry and Biophysics</i> , 2011, 506, 92-98.	1.4	11
72	Thermal and acid denaturation of bovine lens $\beta$ -crystallin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 1747-1758.	1.5	11

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73	Preferential Interactions and the Effect of Protein PEGylation. <i>PLoS ONE</i> , 2015, 10, e0133584.	1.1	10
74	Circular Dichroism Spectroscopy for Structural Characterization of Proteins. <i>Advances in Delivery Science and Technology</i> , 2016, , 223-251.	0.4	9
75	Correlation between calculated molecular descriptors of excipient amino acids and experimentally observed thermal stability of lysozyme. <i>International Journal of Pharmaceutics</i> , 2017, 523, 238-245.	2.6	9
76	Investigation of factors affecting the stability of lysozyme spray dried from ethanol-water solutions. <i>International Journal of Pharmaceutics</i> , 2017, 534, 263-271.	2.6	9
77	Ion-Mediated Morphological Diversity in Protein Amyloid Systems. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3586-3593.	2.1	9
78	A qualitative study of biosimilar manufacturer and regulator perceptions on intellectual property and abbreviated approval pathways. <i>Nature Biotechnology</i> , 2020, 38, 1253-1256.	9.4	8
79	The Inhibitory Effect of Natural Products on Protein Fibrillation May Be Caused by Degradation Products – A Study Using Aloidin and Insulin. <i>PLoS ONE</i> , 2016, 11, e0149148.	1.1	7
80	Immunogenicity of Biopharmaceuticals: Causes, Methods to Reduce Immunogenicity, and Biosimilars. , 2008, , 97-111.		6
81	Self-association of long-acting insulin analogues studied by size exclusion chromatography coupled to multi-angle light scattering. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 2945-2951.	1.2	6
82	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. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 548-556.	1.6	5
83	Influence of Tableting on the Conformation and Thermal Stability of Trypsin as a Model Protein. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 4314-4321.	1.6	5
84	The dangers of citing papers you did not read or understand. <i>Journal of Molecular Structure</i> , 2019, 1186, 102-103.	1.8	5
85	Interchangeability of biosimilars: A study of expert views and visions regarding the science and substitution. <i>PLoS ONE</i> , 2022, 17, e0262537.	1.1	5
86	Lipidation Effect on Surface Adsorption and Associated Fibrillation of the Model Protein Insulin. <i>Langmuir</i> , 2016, 32, 7241-7249.	1.6	2
87	Manipulating Aggregation Behavior of the Uncharged Peptide Carbetocin. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 838-847.	1.6	2
88	Evolving Biosimilar Clinical Requirements: A Qualitative Interview Study with Industry Experts and European National Medicines Agency Regulators. <i>BioDrugs</i> , 2021, 35, 351-361.	2.2	1
89	Formulation, Stability, and Characterization of Protein and Peptide Drugs. , 2004, , .		1
90	Protein pharmaceuticals. <i>Drug Discovery Today: Technologies</i> , 2008, 5, e35-e36.	4.0	0

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