

# Marco van de Weert

## List of Publications by Citations

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90  
papers

4,847  
citations

34  
h-index

68  
g-index

97  
ext. papers

5,294  
ext. citations

5.5  
avg, IF

5.58  
L-index

#	Paper	IF	Citations
90	Protein instability in poly(lactic-co-glycolic acid) microparticles. <i>Pharmaceutical Research</i> , <b>2000</b> , 17, 1159-63	4.3	560
89	Fluorescence quenching and ligand binding: A critical discussion of a popular methodology. <i>Journal of Molecular Structure</i> , <b>2011</b> , 998, 144-150	3.4	404
88	A helical structural nucleus is the primary elongating unit of insulin amyloid fibrils. <i>PLoS Biology</i> , <b>2007</b> , 5, e134	9.7	206
87	Study on the binding of Thioflavin T to beta-sheet-rich and non-beta-sheet cavities. <i>Journal of Structural Biology</i> , <b>2007</b> , 158, 358-69	3.4	194
86	Fourier transform infrared spectrometric analysis of protein conformation: effect of sampling method and stress factors. <i>Analytical Biochemistry</i> , <b>2001</b> , 297, 160-9	3.1	192
85	Protein adsorption at charged surfaces: the role of electrostatic interactions and interfacial charge regulation. <i>Langmuir</i> , <b>2011</b> , 27, 2634-43	4	179
84	The effect of a water/organic solvent interface on the structural stability of lysozyme. <i>Journal of Controlled Release</i> , <b>2000</b> , 68, 351-9	11.7	177
83	Binding mode of Thioflavin T in insulin amyloid fibrils. <i>Journal of Structural Biology</i> , <b>2007</b> , 159, 483-97	3.4	165
82	Forced degradation of therapeutic proteins. <i>Journal of Pharmaceutical Sciences</i> , <b>2012</b> , 101, 895-913	3.9	164
81	Fluorescence quenching to study protein-ligand binding: common errors. <i>Journal of Fluorescence</i> , <b>2010</b> , 20, 625-9	2.4	157
80	Probing insulin's secondary structure after entrapment into alginate/chitosan nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2007</b> , 65, 10-7	5.7	151
79	Secondary nucleation and accessible surface in insulin amyloid fibril formation. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 3853-8	3.4	121
78	Thermal dissociation and unfolding of insulin. <i>Biochemistry</i> , <b>2005</b> , 44, 11171-7	3.2	105
77	Quality by design - Spray drying of insulin intended for inhalation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2008</b> , 70, 828-38	5.7	101
76	Identification of oxidized methionine in peptides. <i>Rapid Communications in Mass Spectrometry</i> , <b>1996</b> , 10, 1905-10	2.2	101
75	Lysozyme distribution and conformation in a biodegradable polymer matrix as determined by FTIR techniques. <i>Journal of Controlled Release</i> , <b>2000</b> , 68, 31-40	11.7	96
74	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> , <b>2013</b> , 49, 400-10	5.1	91

73	Thioflavin T hydroxylation at basic pH and its effect on amyloid fibril detection. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 15174-81	3.4	89
72	On the purported Backbone fluorescence in protein three-dimensional fluorescence spectra. <i>RSC Advances</i> , <b>2016</b> , 6, 112870-112876	3.7	76
71	Drying methods for protein pharmaceuticals. <i>Drug Discovery Today: Technologies</i> , <b>2008</b> , 5, e81-8	7.1	65
70	Preparing and evaluating delivery systems for proteins. <i>European Journal of Pharmaceutical Sciences</i> , <b>2006</b> , 29, 174-82	5.1	62
69	Engineering of a novel adjuvant based on lipid-polymer hybrid nanoparticles: A quality-by-design approach. <i>Journal of Controlled Release</i> , <b>2015</b> , 210, 48-57	11.7	60
68	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> , <b>2014</b> , 1077, 68-76	3.4	59
67	Stability of monoclonal antibodies at high-concentration: head-to-head comparison of the IgG1 and IgG4 subclass. <i>Journal of Pharmaceutical Sciences</i> , <b>2014</b> , 103, 115-27	3.9	52
66	Complex coacervates of hyaluronic acid and lysozyme: effect on protein structure and physical stability. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2014</b> , 88, 325-31	5.7	50
65	Characterisation of salmon calcitonin in spray-dried powder for inhalation. Effect of chitosan. <i>International Journal of Pharmaceutics</i> , <b>2007</b> , 331, 176-81	6.5	45
64	Complex coacervation of lysozyme and heparin: complex characterization and protein stability. <i>Pharmaceutical Research</i> , <b>2004</b> , 21, 2354-9	4.5	45
63	Interfacial complexes between a protein and lipophilic ions at an oil-water interface. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 7699-705	7.8	44
62	Characterization of poly(L-lactic acid) microspheres loaded with holmium acetylacetonate. <i>Biomaterials</i> , <b>2001</b> , 22, 3073-81	15.6	44
61	Characterization of a cyclosporine solid dispersion for inhalation. <i>AAPS Journal</i> , <b>2007</b> , 9, E190-9	3.7	41
60	Characterisation and physical stability of PEGylated glucagon. <i>International Journal of Pharmaceutics</i> , <b>2007</b> , 330, 89-98	6.5	38
59	Influence of neutron irradiation on holmium acetylacetonate loaded poly(L-lactic acid) microspheres. <i>Biomaterials</i> , <b>2002</b> , 23, 1831-9	15.6	38
58	Co-encapsulation of lyoprotectants improves the stability of protein-loaded PLGA nanoparticles upon lyophilization. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 496, 850-62	6.5	37
57	Probing structural changes of proteins incorporated into water-in-oil emulsions. <i>Journal of Pharmaceutical Sciences</i> , <b>2004</b> , 93, 1847-59	3.9	34
56	Large-scale polymorphism and auto-catalytic effect in insulin fibrillogenesis. <i>Soft Matter</i> , <b>2010</b> , 6, 4413	3.6	31

55	Factors of importance for a successful delivery system for proteins. <i>Expert Opinion on Drug Delivery</i> , <b>2005</b> , 2, 1029-37	8	31
54	Effects of sucrose on rFVIIa aggregation and methionine oxidation. <i>European Journal of Pharmaceutical Sciences</i> , <b>2004</b> , 21, 597-606	5.1	30
53	Development of poly(ortho esters) and their application for bovine serum albumin and bupivacaine delivery. <i>Journal of Controlled Release</i> , <b>2002</b> , 78, 133-41	11.7	30
52	Competitive adsorption of monoclonal antibodies and nonionic surfactants at solid hydrophobic surfaces. <i>Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 104, 593-601	3.9	29
51	Chemical and thermal stability of insulin: effects of zinc and ligand binding to the insulin zinc-hexamer. <i>Pharmaceutical Research</i> , <b>2006</b> , 23, 2611-20	4.5	29
50	Mass spectrometric analysis of oxidized tryptophan. <i>Journal of Mass Spectrometry</i> , <b>1998</b> , 33, 884-891	2.2	25
49	The molecular chaperone alpha-crystallin as an excipient in an insulin formulation. <i>Pharmaceutical Research</i> , <b>2010</b> , 27, 1337-47	4.5	24
48	Semisolid, self-catalyzed poly(ortho ester)s as controlled-release systems: protein release and protein stability issues. <i>Journal of Pharmaceutical Sciences</i> , <b>2002</b> , 91, 1065-74	3.9	22
47	Effect of the Freezing Step in the Stability and Bioactivity of Protein-Loaded PLGA Nanoparticles Upon Lyophilization. <i>Pharmaceutical Research</i> , <b>2016</b> , 33, 2777-93	4.5	21
46	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> , <b>2009</b> , 877, 892-6	3.2	21
45	Spray dried cubosomes with ovalbumin and Quil-A as a nanoparticulate dry powder vaccine formulation. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 550, 35-44	6.5	20
44	Design of experiments-based monitoring of critical quality attributes for the spray-drying process of insulin by NIR spectroscopy. <i>AAPS PharmSciTech</i> , <b>2012</b> , 13, 747-55	3.9	20
43	Ligand binding and thermostability of different allosteric states of the insulin zinc-hexamer. <i>Biochemistry</i> , <b>2006</b> , 45, 4014-24	3.2	20
42	Studies on human insulin adsorption kinetics at an organic-aqueous interface determined using a label-free electroanalytical approach. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2008</b> , 63, 243-8	6	19
41	The effect of protein PEGylation on physical stability in liquid formulation. <i>Journal of Pharmaceutical Sciences</i> , <b>2014</b> , 103, 3043-54	3.9	17
40	Correlation Between Enzyme Activity and Stability of a Protease, an Alpha-Amylase and a Lipase in a Simplified Liquid Laundry Detergent System, Determined by Differential Scanning Calorimetry. <i>Journal of Surfactants and Detergents</i> , <b>2012</b> , 15, 9-21	1.9	16
39	Fuzzy Logic-based expert system for evaluating cake quality of freeze-dried formulations. <i>Journal of Pharmaceutical Sciences</i> , <b>2013</b> , 102, 4364-74	3.9	16
38	Small angle X-ray scattering-based elucidation of the self-association mechanism of human insulin analogue lys(B29)(N-terminal-carboxyheptadecanoyl) des(B30). <i>Biochemistry</i> , <b>2013</b> , 52, 282-94	3.2	16

37	Multivariate analysis of phenol in freeze-dried and spray-dried insulin formulations by NIR and FTIR. <i>AAPS PharmSciTech</i> , <b>2011</b> , 12, 627-36	3.9	16
36	Mechanistic study of the inhibitory activity of Geum urbanum extract against $\beta$ Synuclein fibrillation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2016</b> , 1864, 1160-1169	4	15
35	Formation of dielectric layers and charge regulation in protein adsorption at biomimetic interfaces. <i>Langmuir</i> , <b>2012</b> , 28, 1804-15	4	15
34	Effect of ethanol as a co-solvent on the aerosol performance and stability of spray-dried lysozyme. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 513, 175-182	6.5	14
33	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> , <b>2012</b> , 15, 265-276	1.9	14
32	Stability aspects of salmon calcitonin entrapped in poly(ether-ester) sustained release systems. <i>International Journal of Pharmaceutics</i> , <b>2002</b> , 248, 229-37	6.5	14
31	Reversible aggregation of lysozyme in a biodegradable amphiphilic multiblock copolymer. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2002</b> , 54, 89-93	5.7	14
30	Large-Scale Biophysical Evaluation of Protein PEGylation Effects: In Vitro Properties of 61 Protein Entities. <i>Molecular Pharmaceutics</i> , <b>2016</b> , 13, 1587-98	5.6	12
29	Taylor Dispersion Analysis as a promising tool for assessment of peptide-peptide interactions. <i>European Journal of Pharmaceutical Sciences</i> , <b>2016</b> , 93, 21-8	5.1	11
28	Analysis of insulin allostery in solution and solid state with FTIR. <i>Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 98, 3265-77	3.9	11
27	The chaperone-like protein alpha-crystallin dissociates insulin dimers and hexamers. <i>Biochemistry</i> , <b>2009</b> , 48, 9313-20	3.2	11
26	Effect of excipients on encapsulation and release of insulin from spray-dried solid lipid microparticles. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 550, 439-446	6.5	11
25	Ionic strength-dependent denaturation of <i>Thermomyces lanuginosus</i> lipase induced by SDS. <i>Archives of Biochemistry and Biophysics</i> , <b>2011</b> , 506, 92-8	4.1	10
24	Thermal and acid denaturation of bovine lens $\beta$ crystallin. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2011</b> , 79, 1747-58	4.2	10
23	Rapid Conformational Analysis of Protein Drugs in Formulation by Hydrogen/Deuterium Exchange Mass Spectrometry. <i>Journal of Pharmaceutical Sciences</i> , <b>2016</b> , 105, 3269-3277	3.9	10
22	Preferential Interactions and the Effect of Protein PEGylation. <i>PLoS ONE</i> , <b>2015</b> , 10, e0133584	3.7	9
21	Analysis of protein physical stability in lipid based delivery systems--the challenges of lipid drug delivery systems. <i>Journal of Biomedical Nanotechnology</i> , <b>2009</b> , 5, 401-8	4	9
20	Rhamnogalacturonan-I Based Microcapsules for Targeted Drug Release. <i>PLoS ONE</i> , <b>2016</b> , 11, e0168050	3.7	9

19	Correlation between calculated molecular descriptors of excipient amino acids and experimentally observed thermal stability of lysozyme. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 523, 238-245	6.5	7
18	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> , <b>2017</b> , 200, 66-73	5	6
17	Investigation of factors affecting the stability of lysozyme spray dried from ethanol-water solutions. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 534, 263-271	6.5	6
16	A qualitative study of biosimilar manufacturer and regulator perceptions on intellectual property and abbreviated approval pathways. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 1253-1256	44.5	6
15	Immunogenicity of Biopharmaceuticals: Causes, Methods to Reduce Immunogenicity, and Biosimilars <b>2008</b> , 97-111		6
14	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> , <b>2011</b> , 879, 2945-51	3.2	5
13	The Inhibitory Effect of Natural Products on Protein Fibrillation May Be Caused by Degradation Products--A Study Using Aloin and Insulin. <i>PLoS ONE</i> , <b>2016</b> , 11, e0149148	3.7	5
12	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> , <b>2015</b> , 104, 548-56	3.9	4
11	Circular Dichroism Spectroscopy for Structural Characterization of Proteins. <i>Advances in Delivery Science and Technology</i> , <b>2016</b> , 223-251		4
10	The dangers of citing papers you did not read or understand. <i>Journal of Molecular Structure</i> , <b>2019</b> , 1186, 102-103	3.4	3
9	Influence of Tableting on the Conformation and Thermal Stability of Trypsin as a Model Protein. <i>Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 104, 4314-4321	3.9	3
8	Manipulating Aggregation Behavior of the Uncharged Peptide Carbetocin. <i>Journal of Pharmaceutical Sciences</i> , <b>2018</b> , 107, 838-847	3.9	2
7	Lipidation Effect on Surface Adsorption and Associated Fibrillation of the Model Protein Insulin. <i>Langmuir</i> , <b>2016</b> , 32, 7241-9	4	2
6	Polysorbate 80 controls Morphology, structure and stability of human insulin Amyloid-Like spherulites. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 606, 1928-1939	9.3	2
5	Infrared Spectroscopy to Characterize Protein Aggregates <b>2012</b> , 227-248		1
4	Ion-Mediated Morphological Diversity in Protein Amyloid Systems.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 3586-3593	6.4	1
3	Interchangeability of biosimilars: A study of expert views and visions regarding the science and substitution.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0262537	3.7	0
2	Protein pharmaceuticals. <i>Drug Discovery Today: Technologies</i> , <b>2008</b> , 5, e35-6	7.1	

- 1 Evolving Biosimilar Clinical Requirements: A Qualitative Interview Study with Industry Experts and European National Medicines Agency Regulators. *BioDrugs*, **2021**, 35, 351-361 7.9