

Wouter L J Hinrichs

List of Publications by Year in descending order

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104
papers

4,137
citations

101543

36
h-index

133252

59
g-index

105
all docs

105
docs citations

105
times ranked

4837
citing authors

#	ARTICLE	IF	CITATIONS
1	Inulin, a flexible oligosaccharide I: Review of its physicochemical characteristics. <i>Carbohydrate Polymers</i> , 2015, 130, 405-419.	10.2	331
2	How sugars protect proteins in the solid state and during drying (review): Mechanisms of stabilization in relation to stress conditions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 114, 288-295.	4.3	325
3	Development of Stable Influenza Vaccine Powder Formulations: Challenges and Possibilities. <i>Pharmaceutical Research</i> , 2008, 25, 1256-1273.	3.5	171
4	Inulin, a flexible oligosaccharide. II: Review of its pharmaceutical applications. <i>Carbohydrate Polymers</i> , 2015, 134, 418-428.	10.2	123
5	Needle-free influenza vaccination. <i>Lancet Infectious Diseases</i> , The, 2010, 10, 699-711.	9.1	105
6	Polymeric formulations for drug release prepared by hot melt extrusion: application and characterization. <i>Drug Discovery Today</i> , 2015, 20, 812-823.	6.4	102
7	The choice of a suitable oligosaccharide to prevent aggregation of PEGylated nanoparticles during freeze thawing and freeze drying. <i>International Journal of Pharmaceutics</i> , 2006, 311, 237-244.	5.2	98
8	Poly(N-isopropylacrylamide) with hydrolyzable lactic acid ester side groups: a new type of thermosensitive polymer. <i>Macromolecular Rapid Communications</i> , 1999, 20, 577-581.	3.9	94
9	Towards tailored vaccine delivery: Needs, challenges and perspectives. <i>Journal of Controlled Release</i> , 2012, 161, 363-376.	9.9	93
10	Quality by design approach for optimizing the formulation and physical properties of extemporaneously prepared orodispersible films. <i>International Journal of Pharmaceutics</i> , 2015, 485, 70-76.	5.2	87
11	Bottom-Up Preparation Techniques for Nanocrystals of Lipophilic Drugs. <i>Pharmaceutical Research</i> , 2011, 28, 1220-1223.	3.5	83
12	Orodispersible films in individualized pharmacotherapy: The development of a formulation for pharmacy preparations. <i>International Journal of Pharmaceutics</i> , 2015, 478, 155-163.	5.2	78
13	Improved dissolution behavior of lipophilic drugs by solid dispersions: the production process as starting point for formulation considerations. <i>Expert Opinion on Drug Delivery</i> , 2011, 8, 1121-1140.	5.0	77
14	Development of a dried influenza whole inactivated virus vaccine for pulmonary immunization. <i>Vaccine</i> , 2011, 29, 4345-4352.	3.8	75
15	The role of particle engineering in relation to formulation and de-agglomeration principle in the development of a dry powder formulation for inhalation of cetrorelix. <i>European Journal of Pharmaceutical Sciences</i> , 2004, 23, 139-149.	4.0	58
16	Intranasal Delivery of Influenza Subunit Vaccine Formulated with GEM Particles as an Adjuvant. <i>AAPS Journal</i> , 2010, 12, 109-116.	4.4	58
17	Dermal substitutes for full-thickness wounds in a one-stage grafting model. <i>Wound Repair and Regeneration</i> , 1993, 1, 244-252.	3.0	57
18	Spray freeze drying to produce a stable δ^9 -tetrahydrocannabinol containing inulin-based solid dispersion powder suitable for inhalation. <i>European Journal of Pharmaceutical Sciences</i> , 2005, 26, 231-240.	4.0	55

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19	Devices and formulations for pulmonary vaccination. <i>Expert Opinion on Drug Delivery</i> , 2013, 10, 1383-1397.	5.0	54
20	Inulin sugar glasses preserve the structural integrity and biological activity of influenza virosomes during freeze-drying and storage. <i>European Journal of Pharmaceutical Sciences</i> , 2007, 32, 33-44.	4.0	53
21	Preservation of the Immunogenicity of Dry-powder Influenza H5N1 Whole Inactivated Virus Vaccine at Elevated Storage Temperatures. <i>AAPS Journal</i> , 2010, 12, 215-222.	4.4	53
22	Inhaled vaccine delivery in the combat against respiratory viruses: a 2021 overview of recent developments and implications for COVID-19. <i>Expert Review of Vaccines</i> , 2022, 21, 957-974.	4.4	51
23	Improved storage stability and immunogenicity of hepatitis B vaccine after spray-freeze drying in presence of sugars. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 55, 36-45.	4.0	50
24	Characterization of a cyclosporine solid dispersion for inhalation. <i>AAPS Journal</i> , 2007, 9, E190-E199.	4.4	48
25	Pulmonary Vaccine Delivery: A Realistic Approach?. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2012, 25, 249-260.	1.4	47
26	Self-Exploding Lipid-Coated Microgels. <i>Biomacromolecules</i> , 2006, 7, 373-379.	5.4	46
27	Antifungal and biofilm inhibitory effect of <i>Cymbopogon citratus</i> (lemongrass) essential oil on biofilm forming by <i>Candida tropicalis</i> isolates; an in vitro study. <i>Journal of Ethnopharmacology</i> , 2020, 246, 112188.	4.1	46
28	Evaluation of monophosphoryl lipid A as adjuvant for pulmonary delivered influenza vaccine. <i>Journal of Controlled Release</i> , 2014, 174, 51-62.	9.9	44
29	Oromucosal films: from patient centricity to production by printing techniques. <i>Expert Opinion on Drug Delivery</i> , 2019, 16, 981-993.	5.0	44
30	Advax augments B and T cell responses upon influenza vaccination via the respiratory tract and enables complete protection of mice against lethal influenza virus challenge. <i>Journal of Controlled Release</i> , 2018, 288, 199-211.	9.9	43
31	Preparation of drug nanocrystals by controlled crystallization: Application of a 3-way nozzle to prevent premature crystallization for large scale production. <i>European Journal of Pharmaceutical Sciences</i> , 2009, 38, 224-229.	4.0	41
32	Development of a dry, stable and inhalable acyl-homoserine-lactone-acylase powder formulation for the treatment of pulmonary <i>Pseudomonas aeruginosa</i> infections. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 48, 637-643.	4.0	41
33	Low temperature extruded implants based on novel hydrophilic multiblock copolymer for long-term protein delivery. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 49, 578-587.	4.0	40
34	Production methods and stabilization strategies for polymer-based nanoparticles and microparticles for parenteral delivery of peptides and proteins. <i>Expert Opinion on Drug Delivery</i> , 2015, 12, 1311-1331.	5.0	39
35	Orodispersible films based on blends of trehalose and pullulan for protein delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 133, 104-111.	4.3	39
36	Inulin solid dispersion technology to improve the absorption of the BCS Class IV drug TMC240. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010, 74, 233-238.	4.3	38

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37	Designing CAF-adjuvanted dry powder vaccines: Spray drying preserves the adjuvant activity of CAF01. <i>Journal of Controlled Release</i> , 2013, 167, 256-264.	9.9	38
38	Influence of Miscibility of Protein-Sugar Lyophilizates on Their Storage Stability. <i>AAPS Journal</i> , 2016, 18, 1225-1232.	4.4	37
39	Pulmonary administration of small interfering RNA: The route to go?. <i>Journal of Controlled Release</i> , 2016, 235, 14-23.	9.9	36
40	Feasibility of nonvolatile buffers in capillary electrophoresis-electrospray ionization-mass spectrometry of proteins. <i>Electrophoresis</i> , 2004, 25, 43-49.	2.4	35
41	Controlled Crystallization of the Lipophilic Drug Fenofibrate During Freeze-Drying: Elucidation of the Mechanism by In-Line Raman Spectroscopy. <i>AAPS Journal</i> , 2010, 12, 569-575.	4.4	34
42	Tailored protein release from biodegradable poly(μ -caprolactone-PEG)-b-poly(μ -caprolactone) multiblock-copolymer implants. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 87, 329-337.	4.3	34
43	Physical and immunogenic stability of spray freeze-dried influenza vaccine powder for pulmonary delivery: Comparison of inulin, dextran, or a mixture of dextran and trehalose as protectants. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 716-725.	4.3	33
44	In-line near infrared spectroscopy during freeze-drying as a tool to measure efficiency of hydrogen bond formation between protein and sugar, predictive of protein storage stability. <i>International Journal of Pharmaceutics</i> , 2015, 496, 792-800.	5.2	33
45	A novel aerosol generator for homogenous distribution of powder over the lungs after pulmonary administration to small laboratory animals. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 1056-1063.	4.3	32
46	Stability of Lysozyme in Aqueous Extremolyte Solutions during Heat Shock and Accelerated Thermal Conditions. <i>PLoS ONE</i> , 2014, 9, e86244.	2.5	30
47	Investigations into the stabilization of drugs by sugar glasses: III. The influence of various high-pH buffers. <i>Pharmaceutical Research</i> , 2003, 20, 1437-1443.	3.5	29
48	Formulation and process development of (recombinant human) deoxyribonuclease I as a powder for inhalation. <i>Pharmaceutical Development and Technology</i> , 2009, 14, 358-368.	2.4	27
49	A New Strategy to Stabilize Oxytocin in Aqueous Solutions: I. The Effects of Divalent Metal Ions and Citrate Buffer. <i>AAPS Journal</i> , 2011, 13, 284-290.	4.4	27
50	Surface-Active Derivative of Inulin (Inutec [®] SP1) Is a Superior Carrier for Solid Dispersions with a High Drug Load. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 2333-2342.	3.3	27
51	NIR spectroscopy for the in-line monitoring of a multicomponent formulation during the entire freeze-drying process. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 97, 39-46.	2.8	27
52	Addition of Pullulan to Trehalose Glasses Improves the Stability of β -Galactosidase at High Moisture Conditions. <i>Carbohydrate Polymers</i> , 2017, 176, 374-380.	10.2	27
53	Advances in the development of entry inhibitors for sialic-acid-targeting viruses. <i>Drug Discovery Today</i> , 2021, 26, 122-137.	6.4	27
54	A New Strategy To Stabilize Oxytocin in Aqueous Solutions: II. Suppression of Cysteine-Mediated Intermolecular Reactions by a Combination of Divalent Metal Ions and Citrate. <i>Molecular Pharmaceutics</i> , 2012, 9, 554-562.	4.6	26

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55	Development and potential application of an oral ColoPulse infliximab tablet with colon specific release: A feasibility study. <i>International Journal of Pharmaceutics</i> , 2016, 505, 175-186.	5.2	26
56	Characterization of the Mode of Incorporation of Lipophilic Compounds in Solid Dispersions at the Nanoscale Using Fluorescence Resonance Energy Transfer (FRET). <i>Macromolecular Rapid Communications</i> , 2006, 27, 1149-1155.	3.9	25
57	Pulmonary delivery of influenza vaccine formulations in cotton rats: site of deposition plays a minor role in the protective efficacy against clinical isolate of H1N1pdm virus. <i>Drug Delivery</i> , 2018, 25, 533-545.	5.7	25
58	Inulin as filler-binder for tablets prepared by direct compaction. <i>European Journal of Pharmaceutical Sciences</i> , 2002, 15, 31-38.	4.0	23
59	Pharmacokinetics of a sustained release formulation of PDGF β -receptor directed carrier proteins to target the fibrotic liver. <i>Journal of Controlled Release</i> , 2018, 269, 258-265.	9.9	23
60	An overview of the production methods for core-shell microspheres for parenteral controlled drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2022, 170, 24-42.	4.3	22
61	Effect of drug-carrier interaction on the dissolution behavior of solid dispersion tablets. <i>Pharmaceutical Development and Technology</i> , 2010, 15, 460-468.	2.4	21
62	Inclusion of the Helper Lipid Dioleoyl-Phosphatidylethanolamine in Solid Lipid Nanoparticles Inhibits Their Transfection Efficiency. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 355-365.	1.1	21
63	Identifying critical process steps to protein stability during spray drying using a vibrating mesh or a two-fluid nozzle. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 128, 152-157.	4.0	21
64	Natural and bioinspired excipients for dry powder inhalation formulations. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 56, 101497.	7.4	21
65	A User-Friendly Model for Spray Drying to Aid Pharmaceutical Product Development. <i>PLoS ONE</i> , 2013, 8, e74403.	2.5	20
66	Model to predict inhomogeneous protein-sugar distribution in powders prepared by spray drying. <i>Journal of Aerosol Science</i> , 2016, 101, 22-33.	3.8	20
67	siRNA-mediated protein knockdown in precision-cut lung slices. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 133, 339-348.	4.3	20
68	Development of an Orodispersible Film Containing Stabilized Influenza Vaccine. <i>Pharmaceutics</i> , 2020, 12, 245.	4.5	20
69	Dry influenza vaccines: towards a stable, effective and convenient alternative to conventional parenteral influenza vaccination. <i>Expert Review of Vaccines</i> , 2016, 15, 1431-1447.	4.4	19
70	Pulmonary immunization: deposition site is of minor relevance for influenza vaccination but deep lung deposition is crucial for hepatitis B vaccination. <i>Acta Pharmaceutica Sinica B</i> , 2019, 9, 1231-1240.	12.0	19
71	Simplifying Influenza Vaccination During Pandemics: Sublingual Priming and Intramuscular Boosting of Immune Responses with Heterologous Whole Inactivated Influenza Vaccine. <i>AAPS Journal</i> , 2014, 16, 342-349.	4.4	18
72	Enhanced pulmonary immunization with aerosolized inactivated influenza vaccine containing delta inulin adjuvant. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 66, 118-122.	4.0	18

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73	Passive inhalation of dry powder influenza vaccine formulations completely protects chickens against H5N1 lethal viral challenge. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 133, 85-95.	4.3	18
74	siRNA-Mediated RNA Interference in Precision-Cut Tissue Slices Prepared from Mouse Lung and Kidney. <i>AAPS Journal</i> , 2017, 19, 1855-1863.	4.4	17
75	Efficient production of solid dispersions by spray drying solutions of high solid content using a 3-fluid nozzle. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 123, 50-58.	4.3	17
76	Isocratic high-performance liquid chromatography (HPLC) for simultaneous quantification of curcumin and piperine in a microparticle formulation containing <i>Curcuma longa</i> and <i>Piper nigrum</i> . <i>Heliyon</i> , 2021, 7, e06541.	3.2	17
77	The Formation of Oxytocin Dimers is Suppressed by the Zinc-Aspartate-Oxytocin Complex. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 1734-1741.	3.3	16
78	Comparison of adjuvants for a spray freeze-dried whole inactivated virus influenza vaccine for pulmonary administration. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 93, 231-241.	4.3	16
79	Development of orodispersible films with selected Indonesian medicinal plant extracts. <i>Journal of Herbal Medicine</i> , 2017, 7, 37-46.	2.0	16
80	Respiratory syncytial virus subunit vaccines based on the viral envelope glycoproteins intended for pregnant women and the elderly. <i>Expert Review of Vaccines</i> , 2019, 18, 935-950.	4.4	16
81	An adaptable model for growth and/or shrinkage of droplets in the respiratory tract during inhalation of aqueous particles. <i>Journal of Aerosol Science</i> , 2016, 93, 21-34.	3.8	15
82	Preservation of Influenza Virosome Structure and Function During Freeze-Drying and Storage. <i>Journal of Liposome Research</i> , 2007, 17, 173-182.	3.3	14
83	The mechanism behind the biphasic pulsatile drug release from physically mixed poly(DL-lactide-co-glycolic acid)-based compacts. <i>International Journal of Pharmaceutics</i> , 2018, 551, 195-202.	5.2	13
84	The effects of oxygen concentration on cell death, anti-oxidant transcription, acute inflammation, and cell proliferation in precision-cut lung slices. <i>Scientific Reports</i> , 2019, 9, 16239.	3.3	13
85	Preparation and physicochemical evaluation of a new tacrolimus tablet formulation for sublingual administration. <i>Drug Development and Industrial Pharmacy</i> , 2012, 38, 490-500.	2.0	12
86	Pulmonary immunization of chickens using non-adjuvanted spray-freeze dried whole inactivated virus vaccine completely protects against highly pathogenic H5N1 avian influenza virus. <i>Vaccine</i> , 2014, 32, 6445-6450.	3.8	12
87	Nanoparticle Formulation of a Poorly Soluble Cannabinoid Receptor 1 Antagonist Improves Absorption by Rat and Human Intestine. <i>Drug Metabolism and Disposition</i> , 2013, 41, 1557-1565.	3.3	10
88	pH-dependent ileocolonic drug delivery, part I: in vitro and clinical evaluation of novel systems. <i>Drug Discovery Today</i> , 2020, 25, 1362-1373.	6.4	9
89	Protein release from water-swallowable poly(D,L-lactide-PEG)-b-poly(μ -caprolactone) implants. <i>International Journal of Pharmaceutics</i> , 2015, 480, 73-83.	5.2	8
90	Silencing Heat Shock Protein 47 (HSP47) in Fibrogenic Precision-Cut Lung Slices: A Surprising Lack of Effects on Fibrogenesis?. <i>Frontiers in Medicine</i> , 2021, 8, 607962.	2.6	8

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91	Efficacy of a New Pulmonary Cyclosporine A Powder Formulation for Prevention of Transplant Rejection in Rats. <i>Journal of Heart and Lung Transplantation</i> , 2009, 28, 486-492.	0.6	7
92	Aspartate buffer and divalent metal ions affect oxytocin in aqueous solution and protect it from degradation. <i>International Journal of Pharmaceutics</i> , 2013, 444, 139-145.	5.2	7
93	Ileo-Colon Targeting of the Poorly Water-Soluble Drug Celecoxib Using a pH-Dependent Coating in Combination with Self-Emulsifying Drug Delivery or Solid Dispersion Systems. <i>Pharmaceutics</i> , 2021, 13, 731.	4.5	7
94	Formulation and In Vitro Evaluation of Pellets Containing Sulfasalazine and Caffeine to Verify Ileo-Colonic Drug Delivery. <i>Pharmaceutics</i> , 2021, 13, 1985.	4.5	7
95	Ovalbumin-containing core-shell implants suitable to obtain a delayed IgG1 antibody response in support of a biphasic pulsatile release profile in mice. <i>PLoS ONE</i> , 2018, 13, e0202961.	2.5	6
96	CLSM as Quantitative Method to Determine the Size of Drug Crystals in a Solid Dispersion. <i>Pharmaceutical Research</i> , 2011, 28, 2567-2574.	3.5	5
97	pH-dependent ileocolonic drug delivery, part II: preclinical evaluation of novel drugs and novel excipients. <i>Drug Discovery Today</i> , 2020, 25, 1374-1388.	6.4	5
98	Microfluidic Production of Polymeric Core-Shell Microspheres for the Delayed Pulsatile Release of Bovine Serum Albumin as a Model Antigen. <i>Pharmaceutics</i> , 2021, 13, 1854.	4.5	5
99	Dried influenza vaccines: Over the counter vaccines. <i>Hum Vaccin</i> , 2010, 6, 854-856.	2.4	4
100	Adjuvantation of Pulmonary-Administered Influenza Vaccine with GPI-0100 Primarily Stimulates Antibody Production and Memory B Cell Proliferation. <i>Vaccines</i> , 2017, 5, 19.	4.4	4
101	Inhomogeneous Distribution of Components in Solid Protein Pharmaceuticals: Origins, Consequences, Analysis, and Resolutions. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 134-153.	3.3	3
102	Development of a Stable Respiratory Syncytial Virus Pre-Fusion Protein Powder Suitable for a Core-Shell Implant with a Delayed Release in Mice: A Proof of Concept Study. <i>Pharmaceutics</i> , 2019, 11, 510.	4.5	1
103	Candida Biofilm Formation Assay on Essential Oil Coated Silicone Rubber. <i>Bio-protocol</i> , 2021, 11, e3941.	0.4	1
104	Assessing the Immunomodulatory Effect of Size on the Uptake and Immunogenicity of Influenza- and Hepatitis B Subunit Vaccines In Vitro. <i>Pharmaceutics</i> , 2022, 15, 887.	3.8	0