

Jeroen Heuts

List of Publications by Year in descending order

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65
papers

6,750
citations

81743

39
h-index

110170

64
g-index

66
all docs

66
docs citations

66
times ranked

9179
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical Evaluation of Nanoparticle Tracking Analysis (NTA) by NanoSight for the Measurement of Nanoparticles and Protein Aggregates. <i>Pharmaceutical Research</i> , 2010, 27, 796-810.	1.7	1,402
2	Extrinsic Fluorescent Dyes as Tools for Protein Characterization. <i>Pharmaceutical Research</i> , 2008, 25, 1487-1499.	1.7	1,013
3	mRNA-lipid nanoparticle COVID-19 vaccines: Structure and stability. <i>International Journal of Pharmaceutics</i> , 2021, 601, 120586.	2.6	647
4	Strategies for the Assessment of Protein Aggregates in Pharmaceutical Biotech Product Development. <i>Pharmaceutical Research</i> , 2011, 28, 920-933.	1.7	312
5	N-Trimethyl chitosan (TMC) nanoparticles loaded with influenza subunit antigen for intranasal vaccination: Biological properties and immunogenicity in a mouse model. <i>Vaccine</i> , 2007, 25, 144-153.	1.7	215
6	Protein Instability and Immunogenicity: Roadblocks to Clinical Application of Injectable Protein Delivery Systems for Sustained Release. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 946-954.	1.6	205
7	Formulation, Delivery and Stability of Bone Morphogenetic Proteins for Effective Bone Regeneration. <i>Pharmaceutical Research</i> , 2017, 34, 1152-1170.	1.7	180
8	Nasal vaccination with N-trimethyl chitosan and PLGA based nanoparticles: Nanoparticle characteristics determine quality and strength of the antibody response in mice against the encapsulated antigen. <i>Vaccine</i> , 2010, 28, 6282-6291.	1.7	176
9	Oxidation of Therapeutic Proteins and Peptides: Structural and Biological Consequences. <i>Pharmaceutical Research</i> , 2014, 31, 541-553.	1.7	161
10	Immunogenicity of different stressed IgG monoclonal antibody formulations in immune tolerant transgenic mice. <i>MABs</i> , 2012, 4, 740-752.	2.6	137
11	Oxidized and Aggregated Recombinant Human Interferon Beta is Immunogenic in Human Interferon Beta Transgenic Mice. <i>Pharmaceutical Research</i> , 2011, 28, 2393-2402.	1.7	108
12	Mass Spectrometric Analysis of Intact Human Monoclonal Antibody Aggregates Fractionated by Size-Exclusion Chromatography. <i>Pharmaceutical Research</i> , 2010, 27, 2197-2204.	1.7	100
13	Towards tailored vaccine delivery: Needs, challenges and perspectives. <i>Journal of Controlled Release</i> , 2012, 161, 363-376.	4.8	93
14	Dual role of CpG as immune modulator and physical crosslinker in ovalbumin loaded N-trimethyl chitosan (TMC) nanoparticles for nasal vaccination. <i>Journal of Controlled Release</i> , 2010, 148, 117-121.	4.8	82
15	Synthetic long peptide-based vaccine formulations for induction of cell mediated immunity: A comparative study of cationic liposomes and PLGA nanoparticles. <i>Journal of Controlled Release</i> , 2016, 226, 98-106.	4.8	82
16	Immunological Risk of Injectable Drug Delivery Systems. <i>Pharmaceutical Research</i> , 2009, 26, 1303-1314.	1.7	79
17	IgG-loaded hyaluronan-based dissolving microneedles for intradermal protein delivery. <i>Journal of Controlled Release</i> , 2015, 218, 53-62.	4.8	78
18	Cationic Liposomes Loaded with a Synthetic Long Peptide and Poly(I:C): a Defined Adjuvanted Vaccine for Induction of Antigen-Specific T Cell Cytotoxicity. <i>AAPS Journal</i> , 2015, 17, 216-226.	2.2	77

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19	Hollow microneedle-mediated micro-injections of a liposomal HPV E743â€“63 synthetic long peptide vaccine for efficient induction of cytotoxic and T-helper responses. <i>Journal of Controlled Release</i> , 2018, 269, 347-354.	4.8	75
20	Postproduction Handling and Administration of Protein Pharmaceuticals and Potential Instability Issues. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 2013-2019.	1.6	75
21	Head-to-head comparison of four nonadjuvanted inactivated cell culture-derived influenza vaccines: Effect of composition, spatial organization and immunization route on the immunogenicity in a murine challenge model. <i>Vaccine</i> , 2008, 26, 6555-6563.	1.7	68
22	Effect of vesicle size on tissue localization and immunogenicity of liposomal DNA vaccines. <i>Vaccine</i> , 2011, 29, 4761-4770.	1.7	65
23	Towards Heat-stable Oxytocin Formulations: Analysis of Degradation Kinetics and Identification of Degradation Products. <i>Pharmaceutical Research</i> , 2009, 26, 1679-1688.	1.7	64
24	Role of trimethylated chitosan (TMC) in nasal residence time, local distribution and toxicity of an intranasal influenza vaccine. <i>Journal of Controlled Release</i> , 2010, 144, 17-24.	4.8	61
25	Detection and Characterization of Subvisible Aggregates of Monoclonal IgG in Serum. <i>Pharmaceutical Research</i> , 2012, 29, 2202-2212.	1.7	61
26	Analytical approaches to assess the degradation of therapeutic proteins. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 49, 118-125.	5.8	60
27	Efficient Eradication of Established Tumors in Mice with Cationic Liposome-Based Synthetic Long-Peptide Vaccines. <i>Cancer Immunology Research</i> , 2017, 5, 222-233.	1.6	60
28	Diphtheria toxoid and N -trimethyl chitosan layer-by-layer coated pH-sensitive microneedles induce potent immune responses upon dermal vaccination in mice. <i>Journal of Controlled Release</i> , 2017, 262, 28-36.	4.8	57
29	Diphtheria toxoid-containing microparticulate powder formulations for pulmonary vaccination: Preparation, characterization and evaluation in guinea pigs. <i>Vaccine</i> , 2007, 25, 6818-6829.	1.7	55
30	Hepatitis B surface antigen nanoparticles coated with chitosan and trimethyl chitosan: Impact of formulation on physicochemical and immunological characteristics. <i>Vaccine</i> , 2012, 30, 5341-5348.	1.7	55
31	Preclinical Models Used for Immunogenicity Prediction of Therapeutic Proteins. <i>Pharmaceutical Research</i> , 2013, 30, 1719-1728.	1.7	53
32	Submicron Size Particles of a Murine Monoclonal Antibody Are More Immunogenic Than Soluble Oligomers or Micron Size Particles Upon Subcutaneous Administration in Mice. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 2847-2859.	1.6	52
33	Physicochemical and Immunological Characterization of N,N,N-Trimethyl Chitosan-Coated Whole Inactivated Influenza Virus Vaccine for Intranasal Administration. <i>Pharmaceutical Research</i> , 2009, 26, 1353-1364.	1.7	51
34	Adjuvant Effect of Cationic Liposomes for Subunit Influenza Vaccine: Influence of Antigen Loading Method, Cholesterol and Immune Modulators. <i>Pharmaceutics</i> , 2013, 5, 392-410.	2.0	51
35	Fluorescence Single Particle Tracking for the Characterization of Submicron Protein Aggregates in Biological Fluids and Complex Formulations. <i>Pharmaceutical Research</i> , 2011, 28, 1112-1120.	1.7	48
36	Chemical Modifications in Aggregates of Recombinant Human Insulin Induced by Metal-Catalyzed Oxidation: Covalent Cross-Linking via Michael Addition to Tyrosine Oxidation Products. <i>Pharmaceutical Research</i> , 2012, 29, 2276-2293.	1.7	46

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37	No Touching! Abrasion of Adsorbed Protein Is the Root Cause of Subvisible Particle Formation During Stirring. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 519-529.	1.6	44
38	Cationic Liposomes: A Flexible Vaccine Delivery System for Physicochemically Diverse Antigenic Peptides. <i>Pharmaceutical Research</i> , 2018, 35, 207.	1.7	44
39	A Comprehensive Evaluation of Nanoparticle Tracking Analysis (NanoSight) for Characterization of Proteinaceous Submicron Particles. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 3366-3375.	1.6	42
40	The Science is There: Key Considerations for Stabilizing Viral Vector-Based Covid-19 Vaccines. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 627-634.	1.6	42
41	Repeated fractional intradermal dosing of an inactivated polio vaccine by a single hollow microneedle leads to superior immune responses. <i>Journal of Controlled Release</i> , 2016, 242, 141-147.	4.8	38
42	Stable sugar-based protein formulations by supercritical fluid drying. <i>International Journal of Pharmaceutics</i> , 2008, 346, 102-108.	2.6	36
43	Efficacy of pulmonary insulin delivery in diabetic rats: Use of a model-based approach in the evaluation of insulin powder formulations. <i>Journal of Controlled Release</i> , 2008, 127, 257-266.	4.8	35
44	In Vivo Fluorescence Imaging of IgG1 Aggregates After Subcutaneous and Intravenous Injection in Mice. <i>Pharmaceutical Research</i> , 2014, 31, 216-227.	1.7	32
45	Nanoparticulate Impurities in Pharmaceutical-Grade Sugars and their Interference with Light Scattering-Based Analysis of Protein Formulations. <i>Pharmaceutical Research</i> , 2015, 32, 2419-2427.	1.7	31
46	Potential Issues With the Handling of Biologicals in a Hospital. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 1688-1689.	1.6	22
47	Cationic Nanoparticle-Based Cancer Vaccines. <i>Pharmaceutics</i> , 2021, 13, 596.	2.0	21
48	The interleukin-1 cytokine family members: Role in cancer pathogenesis and potential therapeutic applications in cancer immunotherapy. <i>Cytokine and Growth Factor Reviews</i> , 2021, 62, 1-14.	3.2	21
49	Fate of Multimeric Oligomers, Submicron, and Micron Size Aggregates of Monoclonal Antibodies Upon Subcutaneous Injection in Mice. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 1693-1704.	1.6	19
50	Stabilin-1 is required for the endothelial clearance of small anionic nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 34, 102395.	1.7	17
51	A step-by-step approach to study the influence of N-acetylation on the adjuvanticity of N,N,N-trimethyl chitosan (TMC) in an intranasal nanoparticulate influenza virus vaccine. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 45, 467-474.	1.9	14
52	Protein-polyelectrolyte interactions: Monitoring particle formation and growth by nanoparticle tracking analysis and flow imaging microscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 93, 339-345.	2.0	12
53	Formulation of Cell-Based Medicinal Products: A Question of Life or Death?. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 1885-1894.	1.6	11
54	Peptide Amphiphile Nanoparticles Enhance the Immune Response Against a CpG-Adjuvanted Influenza Antigen. <i>Advanced Healthcare Materials</i> , 2014, 3, 343-348.	3.9	10

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55	Label-Free, Flow-Imaging Methods for Determination of Cell Concentration and Viability. <i>Pharmaceutical Research</i> , 2018, 35, 150.	1.7	10
56	Monoclonal Antibody Dimers Induced by Low pH, Heat, or Light Exposure Are Not Immunogenic Upon Subcutaneous Administration in a Mouse Model. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 730-738.	1.6	10
57	Shifting Paradigms Revisited: Biotechnology and the Pharmaceutical Sciences. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 30-43.	1.6	8
58	Simplified Monopalmitoyl Toll-like Receptor 2 Ligand Mini-CPam for Self-Adjuvanting Neoantigen-Based Synthetic Cancer Vaccines. <i>ChemBioChem</i> , 2021, 22, 1215-1222.	1.3	5
59	Antigen Uptake After Intradermal Microinjection Depends on Antigen Nature and Formulation, but Not on Injection Depth. <i>Frontiers in Allergy</i> , 2021, 2, 642788.	1.2	5
60	Evaluation of the high-pressure extrusion technique as a method for sizing plasmid DNA-containing cationic liposomes. <i>Journal of Liposome Research</i> , 2011, 21, 286-295.	1.5	4
61	Micro-Flow Imaging as a quantitative tool to assess size and agglomeration of PLGA microparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 117, 91-104.	2.0	4
62	A Flow Imaging Microscopy-Based Method Using Mass-to-Volume Ratio to Derive the Porosity of PLGA Microparticles. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3378-3384.	1.6	4
63	Immunological Evaluation In Vitro of Nanoparticulate Impurities Isolated From Pharmaceutical-Grade Sucrose. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 952-958.	1.6	2
64	Advanced Therapy Medicinal Products: What's in a Name?. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 3282-3284.	1.6	1
65	Quantification of Lipid and Peptide Content in Antigenic Peptide-loaded Liposome Formulations by Reversed-phase UPLC using UV Absorbance and Evaporative Light Scattering Detection. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 1040-1049.	1.6	1