Hanne Mrck Nielsen

List of Publications by Citations

230 papers	6,600 citations	44 h-index	66 g-index
240 ext. papers	7,884 ext. citations	6.2 avg, IF	6.34 L-index

#	Paper	IF	Citations
230	Applications and Challenges for Use of Cell-Penetrating Peptides as Delivery Vectors for Peptide and Protein Cargos. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	175
229	Mucus as a barrier to drug delivery understanding and mimicking the barrier properties. *Basic and Clinical Pharmacology and Toxicology*, **2015**, 116, 179-86	3.1	168
228	High loading efficiency and sustained release of siRNA encapsulated in PLGA nanoparticles: quality by design optimization and characterization. *European Journal of Pharmaceutics and Biopharmaceutics*, **2011**, 77, 26-35	5.7	160
227	Spray drying of siRNA-containing PLGA nanoparticles intended for inhalation. *Journal of Controlled Release*, **2010**, 142, 138-45	11.7	157
226	Cell-penetrating peptides for drug delivery across membrane barriers. *Expert Opinion on Drug Delivery*, **2008**, 5, 105-17	8	152
225	Opportunities and Challenges in the Delivery of mRNA-based Vaccines. *Pharmaceutics*, **2020**, 12,	6.4	144
224	Design of an inhalable dry powder formulation of DOTAP-modified PLGA nanoparticles loaded with siRNA. *Journal of Controlled Release*, **2012**, 157, 141-8	11.7	133
223	Three-dimensional printing of drug-eluting implants: preparation of an antimicrobial polylactide feedstock material. *Journal of Pharmaceutical Sciences*, **2015**, 104, 1099-107	3.9	109
222	The Long Road Toward COVID-19 Herd Immunity: Vaccine Platform Technologies and Mass Immunization Strategies. *Frontiers in Immunology*, **2020**, 11, 1817	8.4	104
221	Liposome-Based Adjuvants for Subunit Vaccines: Formulation Strategies for Subunit Antigens and Immunostimulators. *Pharmaceutics*, **2016**, 8,	6.4	104
220	Stabilization of liposomes during drying. *Expert Opinion on Drug Delivery*, **2011**, 8, 375-88	8	84
219	Preparation and characterization of poly(DL-lactide-co-glycolide) nanoparticles for siRNA delivery. *International Journal of Pharmaceutics*, **2010**, 390, 70-5	6.5	84
218	Antimicrobial and cell-penetrating properties of penetratin analogs: effect of sequence and secondary structure. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 223-32	3.8	80
217	Antimicrobial, hemolytic, and cytotoxic activities of beta-peptoid-peptide hybrid oligomers: improved properties compared to natural AMPs. *ChemBioChem*, **2010**, 11, 1356-60	3.8	78
216	Immunity by formulation design: induction of high CD8+ T-cell responses by poly(I:C) incorporated into the CAF01 adjuvant via a double emulsion method. *Journal of Controlled Release*, **2011**, 150, 307-17	11.7	74
215	Ciprofloxacin-loaded sodium alginate/poly (lactic-co-glycolic acid) electrospun fibrous mats for wound healing. *European Journal of Pharmaceutics and Biopharmaceutics*, **2018**, 123, 42-49	5.7	74
214	Corticosteroid solubility and lipid polarity control release from solid lipid nanoparticles. *International Journal of Pharmaceutics*, **2010**, 390, 53-60	6.5	72

213	Oral delivery of peptides and proteins using lipid-based drug delivery systems. *Expert Opinion on Drug Delivery*, **2012**, 9, 1289-304	8	71
212	Elucidating the molecular mechanism of PAMAM-siRNA dendriplex self-assembly: effect of dendrimer charge density. *International Journal of Pharmaceutics*, **2011**, 416, 410-8	6.5	71
211	Status and future prospects of lipid-based particulate delivery systems as vaccine adjuvants and their combination with immunostimulators. *Expert Opinion on Drug Delivery*, **2009**, 6, 657-72	8	71
210	TR146 cells grown on filters as a model of human buccal epithelium: IV. Permeability of water, mannitol, testosterone and beta-adrenoceptor antagonists. Comparison to human, monkey and porcine buccal mucosa. *International Journal of Pharmaceutics*, **2000**, 194, 155-67	6.5	71
209	Property profiling of biosimilar mucus in a novel mucus-containing in vitro model for assessment of intestinal drug absorption. *European Journal of Pharmaceutics and Biopharmaceutics*, **2014**, 87, 227-35	5.7	70
208	Molecular characterization of the interaction between siRNA and PAMAM G7 dendrimers by SAXS, ITC, and molecular dynamics simulations. *Biomacromolecules*, **2010**, 11, 3571-7	6.9	70
207	Fluorophore labeling of a cell-penetrating peptide significantly alters the mode and degree of biomembrane interaction. *Scientific Reports*, **2018**, 8, 6327	4.9	68
206	Models to Predict Intestinal Absorption of Therapeutic Peptides and Proteins. *Current Drug Metabolism*, **2013**, 14, 4-20	3.5	67
205	Trehalose preserves DDA/TDB liposomes and their adjuvant effect during freeze-drying. *Biochimica Et Biophysica Acta - Biomembranes*, **2007**, 1768, 2120-9	3.8	67
204	Self-nanoemulsifying drug delivery systems for oral insulin delivery: in vitro and in vivo evaluations of enteric coating and drug loading. *International Journal of Pharmaceutics*, **2014**, 477, 390-8	6.5	65
203	Nicotine permeability across the buccal TR146 cell culture model and porcine buccal mucosa in vitro: effect of pH and concentration. *European Journal of Pharmaceutical Sciences*, **2002**, 16, 151-7	5.1	64
202	The potential of chitosan in enhancing peptide and protein absorption across the TR146 cell culture model-an in vitro model of the buccal epithelium. *Pharmaceutical Research*, **2002**, 19, 169-74	4.5	61
201	Metabolic cleavage of cell-penetrating peptides in contact with epithelial models: human calcitonin (hCT)-derived peptides, Tat(47-57) and penetratin(43-58). *Biochemical Journal*, **2004**, 382, 945-56	3.8	61
200	Engineering of a novel adjuvant based on lipid-polymer hybrid nanoparticles: A quality-by-design approach. *Journal of Controlled Release*, **2015**, 210, 48-57	11.7	60
199	Innovative Methods and Applications in Mucoadhesion Research. *Macromolecular Bioscience*, **2017**, 17, 1600534	5.5	58
198	Mechanistic profiling of the siRNA delivery dynamics of lipid-polymer hybrid nanoparticles. *Journal of Controlled Release*, **2015**, 201, 22-31	11.7	55
197	Cellular uptake but low permeation of human calcitonin-derived cell penetrating peptides and Tat(47-57) through well-differentiated epithelial models. *Pharmaceutical Research*, **2004**, 21, 1248-56	4.5	54
196	Delivery of oligonucleotide-based therapeutics: challenges and opportunities. *EMBO Molecular Medicine*, **2021**, 13, e13243	12	54

195	Cellular uptake and membrane-destabilising properties of alpha-peptide/beta-peptoid chimeras: lessons for the design of new cell-penetrating peptides. *Biochimica Et Biophysica Acta - Biomembranes*, **2008**, 1778, 2487-95	3.8	53
194	Critical solvent properties affecting the particle formation process and characteristics of celecoxib-loaded plga microparticles via spray-drying. *Pharmaceutical Research*, **2013**, 30, 1065-76	4.5	51
193	In vitro placental model optimization for nanoparticle transport studies. *International Journal of Nanomedicine*, **2012**, 7, 497-510	7.3	51
192	Liposomes for phospholipase A2 triggered siRNA release: preparation and in vitro test. *International Journal of Pharmaceutics*, **2007**, 331, 160-6	6.5	51
191	Anti-Inflammatory Effect of Anti-TNF-α siRNA Cationic Phosphorus Dendrimer Nanocomplexes Administered Intranasally in a Murine Acute Lung Injury Model. *Biomacromolecules*, **2017**, 18, 2379-2388	6.9	49
190	Nanoparticle-mediated delivery of the antimicrobial peptide plectasin against Staphylococcus aureus in infected epithelial cells. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 92, 65-73	5.7	48
189	Fluorophore labeling of a cell-penetrating peptide induces differential effects on its cellular distribution and affects cell viability. *Biochimica Et Biophysica Acta - Biomembranes*, **2017**, 1859, 2483-2494	3.8	48
188	The role of mucus as an invisible cloak to transepithelial drug delivery by nanoparticles. *Advanced Drug Delivery Reviews*, **2018**, 124, 107-124	18.5	48
187	MRI-assessed therapeutic effects of locally administered PLGA nanoparticles loaded with anti-inflammatory siRNA in a murine arthritis model. *Journal of Controlled Release*, **2012**, 161, 772-80	11.7	46
186	The administration route is decisive for the ability of the vaccine adjuvant CAF09 to induce antigen-specific CD8(+) T-cell responses: The immunological consequences of the biodistribution profile. *Journal of Controlled Release*, **2016**, 239, 107-17	11.7	44
185	CAF01 liposomes as a mucosal vaccine adjuvant: In vitro and in vivo investigations. *International Journal of Pharmaceutics*, **2010**, 390, 19-24	6.5	44
184	Intracellular siRNA delivery dynamics of integrin-targeted, PEGylated chitosan-poly(ethylene imine) hybrid nanoparticles: A mechanistic insight. *Journal of Controlled Release*, **2015**, 211, 1-9	11.7	42
183	Incorporation of the TLR4 agonist monophosphoryl lipid A into the bilayer of DDA/TDB liposomes: physico-chemical characterization and induction of CD8+ T-cell responses in vivo. *Pharmaceutical Research*, **2011**, 28, 553-62	4.5	41
182	Antiplasmodial and prehemolytic activities of alpha-peptide-beta-peptoid chimeras. *ChemBioChem*, **2007**, 8, 1781-4	3.8	40
181	TR146 cells grown on filters as a model of human buccal epithelium: III. Permeability enhancement by different pH values, different osmolality values, and bile salts. *International Journal of Pharmaceutics*, **1999**, 185, 215-25	6.5	40
180	Delivery of dermatan sulfate from polyelectrolyte complex-containing alginate composite microspheres for tissue regeneration. *Biomacromolecules*, **2012**, 13, 905-17	6.9	38
179	Engineering of an inhalable DDA/TDB liposomal adjuvant: a quality-by-design approach towards optimization of the spray drying process. *Pharmaceutical Research*, **2013**, 30, 2772-84	4.5	38
178	Advances in combination therapy of lung cancer: Rationales, delivery technologies and dosage regimens. *Journal of Controlled Release*, **2017**, 260, 78-91	11.7	37

177	Improved insulin loading in poly(lactic-co-glycolic) acid (PLGA) nanoparticles upon self-assembly with lipids. *International Journal of Pharmaceutics*, **2015**, 482, 84-91	6.5	37
176	Tailoring cytotoxicity of antimicrobial peptidomimetics with high activity against multidrug-resistant Escherichia coli. *Journal of Medicinal Chemistry*, **2014**, 57, 2864-73	8.3	37
175	Incorporation of a synthetic mycobacterial monomycoloyl glycerol analogue stabilizes dimethyldioctadecylammonium liposomes and potentiates their adjuvant effect in vivo. *European Journal of Pharmaceutics and Biopharmaceutics*, **2011**, 77, 89-98	5.7	37
174	Engineering of small interfering RNA-loaded lipidoid-poly(DL-lactic-co-glycolic acid) hybrid nanoparticles for highly efficient and safe gene silencing: A quality by design-based approach. *European Journal of Pharmaceutics and Biopharmaceutics*, **2017**, 120, 22-33	5.7	36
173	Solid lipid particles for oral delivery of peptide and protein drugs I--elucidating the release mechanism of lysozyme during lipolysis. *European Journal of Pharmaceutics and Biopharmaceutics*, **2013**, 85, 473-80	5.7	36
172	TR146 cells grown on filters as a model of human buccal epithelium: V. Enzyme activity of the TR146 cell culture model, human buccal epithelium and porcine buccal epithelium, and permeability of leu-enkephalin. *International Journal of Pharmaceutics*, **2000**, 200, 261-70	6.5	36
171	Cell-Penetrating Peptides as Carriers for Oral Delivery of Biopharmaceuticals. *Basic and Clinical Pharmacology and Toxicology*, **2016**, 118, 99-106	3.1	36
170	Comparison of polymeric siRNA nanocarriers in a murine LPS-activated macrophage cell line: gene silencing, toxicity and off-target gene expression. *Pharmaceutical Research*, **2012**, 29, 669-82	4.5	35
169	Steric and interactive barrier properties of intestinal mucus elucidated by particle diffusion and peptide permeation. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 95, 136-43	5.7	35
168	alpha,alphaRtrehalose 6,6Rdibehenate in non-phospholipid-based liposomes enables direct interaction with trehalose, offering stability during freeze-drying. *Biochimica Et Biophysica Acta - Biomembranes*, **2008**, 1778, 1365-73	3.8	35
167	A strong adjuvant based on glycol-chitosan-coated lipid-polymer hybrid nanoparticles potentiates mucosal immune responses against the recombinant Chlamydia trachomatis fusion antigen CTH522. *Journal of Controlled Release*, **2018**, 271, 88-97	11.7	35
166	Antioxidant activity of puha (Sonchus oleraceus L.) as assessed by the cellular antioxidant activity (CAA) assay. *Phytotherapy Research*, **2011**, 25, 1876-82	6.7	33
165	Buccal delivery of metformin: TR146 cell culture model evaluating the use of bioadhesive chitosan discs for drug permeability enhancement. *International Journal of Pharmaceutics*, **2013**, 458, 254-61	6.5	32
164	Designing CAF-adjuvanted dry powder vaccines: spray drying preserves the adjuvant activity of CAF01. *Journal of Controlled Release*, **2013**, 167, 256-64	11.7	32
163	Trehalose diester glycolipids are superior to the monoesters in binding to Mincle, activation of macrophages in vitro and adjuvant activity in vivo. *Innate Immunity*, **2016**, 22, 405-18	2.7	31
162	Elucidating the mechanisms of protein antigen adsorption to the CAF/NAF liposomal vaccine adjuvant systems: effect of charge, fluidity and antigen-to-lipid ratio. *Biochimica Et Biophysica Acta - Biomembranes*, **2014**, 1838, 2001-10	3.8	30
161	Preparation and characterization of insulin-surfactant complexes for loading into lipid-based drug delivery systems. *Journal of Pharmaceutical Sciences*, **2013**, 102, 2689-98	3.9	30
160	Inhalable siRNA-loaded nano-embedded microparticles engineered using microfluidics and spray drying. *European Journal of Pharmaceutics and Biopharmaceutics*, **2017**, 120, 9-21	5.7	30

159	TR146 cells grown on filters as a model of human buccal epithelium: permeability of fluorescein isothiocyanate-labelled dextrans in the presence of sodium glycocholate. *Journal of Controlled Release*, **1999**, 60, 223-33	11.7	30
158	Impact of Lipid-Based Drug Delivery Systems on the Transport and Uptake of Insulin Across Caco-2 Cell Monolayers. *Journal of Pharmaceutical Sciences*, **2016**, 105, 2743-2751	3.9	30
157	Are phytosomes a superior nanodelivery system for the antioxidant rutin?. *International Journal of Pharmaceutics*, **2018**, 548, 82-91	6.5	30
156	Bioactive protein-based nanofibers interact with intestinal biological components resulting in transepithelial permeation of a therapeutic protein. *International Journal of Pharmaceutics*, **2015**, 495, 58-66	6.5	29
155	Conjugation of cell-penetrating peptides to parathyroid hormone affects its structure, potency, and transepithelial permeation. *Bioconjugate Chemistry*, **2015**, 26, 477-88	6.3	29
154	Characterization of spray dried bioadhesive metformin microparticles for oromucosal administration. *European Journal of Pharmaceutics and Biopharmaceutics*, **2013**, 85, 682-8	5.7	29
153	Drug delivery studies in Caco-2 monolayers. II. Absorption enhancer effects of lysophosphatidylcholines. *International Journal of Pharmaceutics*, **1995**, 114, 141-149	6.5	29
152	Lysine-Based □Peptide/□Peptoid Peptidomimetics: Influence of Hydrophobicity, Fluorination, and Distribution of Cationic Charge on Antimicrobial Activity and Cytotoxicity. *ChemMedChem*, **2017**, 12, 312-318	3.7	28
151	Lipidoid-polymer hybrid nanoparticles loaded with TNF siRNA suppress inflammation after intra-articular administration in a murine experimental arthritis model. *European Journal of Pharmaceutics and Biopharmaceutics*, **2019**, 142, 38-48	5.7	28
150	Hyaluronic Acid-Based Nanogels Produced by Microfluidics-Facilitated Self-Assembly Improves the Safety Profile of the Cationic Host Defense Peptide Novicidin. *Pharmaceutical Research*, **2015**, 32, 2727-35	4.5	28
149	Utilizing nanoparticles for improving anti-biofilm effects of azithromycin: A head-to-head comparison of modified hyaluronic acid nanogels and coated poly (lactic-co-glycolic acid) nanoparticles. *Journal of Colloid and Interface Science*, **2019**, 555, 595-606	9.3	28
148	Solid lipid particles for oral delivery of peptide and protein drugs II--the digestion of trilaurin protects desmopressin from proteolytic degradation. *Pharmaceutical Research*, **2014**, 31, 2420-8	4.5	28
147	On the temperature dependence of complex formation between chitosan and proteins. *Biomacromolecules*, **2011**, 12, 2534-43	6.9	27
146	Identification of Factors of Importance for Spray Drying of Small Interfering RNA-Loaded Lipidoid-Polymer Hybrid Nanoparticles for Inhalation. *Pharmaceutical Research*, **2019**, 36, 142	4.5	26
145	Ultrasmall TPGS-PLGA Hybrid Nanoparticles for Site-Specific Delivery of Antibiotics into Biofilms in Lungs. *ACS Applied Materials & Interfaces*, **2020**, 12, 380-389	9.5	26
144	Animal models for evaluation of oral delivery of biopharmaceuticals. *Journal of Controlled Release*, **2017**, 268, 57-71	11.7	25
143	Nebulised lipid-polymer hybrid nanoparticles for the delivery of a therapeutic anti-inflammatory microRNA to bronchial epithelial cells. *ERJ Open Research*, **2019**, 5,	3.5	24
142	Cell-penetrating antimicrobial peptides - prospectives for targeting intracellular infections. *Pharmaceutical Research*, **2015**, 32, 1546-56	4.5	24

141	Penetratin-Mediated Transepithelial Insulin Permeation: Importance of Cationic Residues and pH for Complexation and Permeation. *AAPS Journal*, **2015**, 17, 1200-9	3.7	24
140	Polymeric Nanocarriers for siRNA Delivery: Challenges and Future Prospects. *Journal of Biomedical Nanotechnology*, **2008**, 4, 258-275	4	24
139	Evaluation of different toxicity assays applied to proliferating cells and to stratified epithelium in relation to permeability enhancement with glycocholate. *Toxicology in Vitro*, **2004**, 18, 649-57	3.6	24
138	Cell-penetrating peptides as tools to enhance non-injectable delivery of biopharmaceuticals. *Tissue Barriers*, **2016**, 4, e1178369	4.3	24
137	Evaluation of vibrational spectroscopic methods to identify and quantify multiple adulterants in herbal medicines. *Talanta*, **2015**, 138, 77-85	6.2	23
136	Biopolymer nanogels improve antibacterial activity and safety profile of a novel lysine-based □peptide/□peptoid peptidomimetic. *European Journal of Pharmaceutics and Biopharmaceutics*, **2018**, 128, 1-9	5.7	23
135	Microcontainers for oral insulin delivery - In vitro studies of permeation enhancement. *European Journal of Pharmaceutics and Biopharmaceutics*, **2019**, 143, 98-105	5.7	22
134	Hyaluronic acid-based nanogels improve in vivo compatibility of the anti-biofilm peptide DJK-5. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2019**, 20, 102022	6	22
133	Interactions between Surfactants in Solution and Electrospun Protein Fibers: Effects on Release Behavior and Fiber Properties. *Molecular Pharmaceutics*, **2016**, 13, 748-55	5.6	22
132	Design and characterization of core-shell mPEG-PLGA composite microparticles for development of cell-scaffold constructs. *European Journal of Pharmaceutics and Biopharmaceutics*, **2013**, 85, 87-98	5.7	22
131	Interaction of peptidomimetics with bilayer membranes: biophysical characterization and cellular uptake. *Langmuir*, **2012**, 28, 5167-75	4	22
130	Anti-ageing effects of Sonchus oleraceus L. (p□leaf extracts on HD□nduced cell senescence. *Molecules*, **2015**, 20, 4548-64	4.8	21
129	Treatment of acute lung inflammation by pulmonary delivery of anti-TNF-□siRNA with PAMAM dendrimers in a murine model. *European Journal of Pharmaceutics and Biopharmaceutics*, **2020**, 156, 114-120	5.7	21
128	Acids R□enerally recognized as safeR□affect morphology and biocompatibility of electrospun chitosan/polyethylene oxide nanofibers. *Carbohydrate Polymers*, **2019**, 215, 253-262	10.3	20
127	Engineering of budesonide-loaded lipid-polymer hybrid nanoparticles using a quality-by-design approach. *International Journal of Pharmaceutics*, **2018**, 548, 740-746	6.5	20
126	Mechanistic profiling of the release kinetics of siRNA from lipidoid-polymer hybrid nanoparticles in vitro and in vivo after pulmonary administration. *Journal of Controlled Release*, **2019**, 310, 82-93	11.7	20
125	Synthesis of carbon quantum dot-poly lactic-co-glycolic acid hybrid nanoparticles for chemo-photothermal therapy against bacterial biofilms. *Journal of Colloid and Interface Science*, **2020**, 577, 66-74	9.3	20
124	Immunological and physical evaluation of the multistage tuberculosis subunit vaccine candidate H56/CAF01 formulated as a spray-dried powder. *Vaccine*, **2018**, 36, 3331-3339	4.1	19

123	Soft hydrogels interpenetrating silicone--A polymer network for drug-releasing medical devices. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 402-10	3.5	19
122	Complexity in the therapeutic delivery of RNAi medicines: an analytical challenge. *Expert Opinion on Drug Delivery*, **2014**, 11, 1481-95	8	19
121	Structure of immune stimulating complex matrices and immune stimulating complexes in suspension determined by small-angle x-ray scattering. *Biophysical Journal*, **2012**, 102, 2372-80	2.9	19
120	Phospholipase A2 sensitive liposomes for delivery of small interfering RNA (siRNA). *Journal of Liposome Research*, **2007**, 17, 191-6	6.1	19
119	Delivery of siRNA Complexed with Palmitoylated □Peptide/□Peptoid Cell-Penetrating Peptidomimetics: Membrane Interaction and Structural Characterization of a Lipid-Based Nanocarrier System. *Molecular Pharmaceutics*, **2016**, 13, 1739-49	5.6	18
118	Immunogenicity Testing of Lipidoids In□Vitro and In Silico: Modulating Lipidoid-Mediated TLR4 Activation by Nanoparticle Design. *Molecular Therapy - Nucleic Acids*, **2018**, 11, 159-169	10.7	18
117	End group modification: Efficient tool for improving activity of antimicrobial peptide analogues towards Gram-positive bacteria. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 95, 40-6	5.7	18
116	NIR transmission spectroscopy for rapid determination of lipid and lyoprotector content in liposomal vaccine adjuvant system CAF01. *European Journal of Pharmaceutics and Biopharmaceutics* , **2008**, 70, 914-20	5.7	18
115	Physiology and pharmacology of the brushtail possum gastrointestinal tract: relationship to the human gastrointestinal tract. *Advanced Drug Delivery Reviews*, **2007**, 59, 1121-32	18.5	18
114	Drug delivery studies in Caco-2 monolayers. III. Intestinal transport of various vasopressin analogues in the presence of lysophosphatidylcholine. *International Journal of Pharmaceutics*, **1995**, 114, 151-157	6.5	18
113	Inhalable Antimicrobials for Treatment of Bacterial Biofilm-Associated Sinusitis in Cystic Fibrosis Patients: Challenges and Drug Delivery Approaches. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	18
112	Qualitative and quantitative analysis of the biophysical interaction of inhaled nanoparticles with pulmonary surfactant by using quartz crystal microbalance with dissipation monitoring. *Journal of Colloid and Interface Science*, **2019**, 545, 162-171	9.3	17
111	Evaluation of drug permeation under fed state conditions using mucus-covered Caco-2 cell epithelium. *European Journal of Pharmaceutical Sciences*, **2018**, 118, 144-153	5.1	17
110	Sustained prevention of biofilm formation on a novel silicone matrix suitable for medical devices. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 94, 305-11	5.7	17
109	Waterborne Electrospinning of □Lactalbumin Generates Tunable and Biocompatible Nanofibers for Drug Delivery. *ACS Applied Nano Materials*, **2020**, 3, 1910-1921	5.6	17
108	Comparison of two different PEGylation strategies for the liposomal adjuvant CAF09: Towards induction of CTL responses upon subcutaneous vaccine administration. *European Journal of Pharmaceutics and Biopharmaceutics*, **2019**, 140, 29-39	5.7	16
107	Lipid Shell-Enveloped Polymeric Nanoparticles with High Integrity of Lipid Shells Improve Mucus Penetration and Interaction with Cystic Fibrosis-Related Bacterial Biofilms. *ACS Applied Materials & Interfaces*, **2018**, 10, 10678-10687	9.5	16
106	Poloxamer 407-chitosan grafted thermoresponsive hydrogels achieve synchronous and sustained release of antigen and adjuvant from single-shot vaccines. *Immunology and Cell Biology*, **2018**, 96, 656-665	5	16

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104	Membrane adsorption and binding, cellular uptake and cytotoxicity of cell-penetrating peptidomimetics with α-peptide/β-peptoid backbone: effects of hydrogen bonding and β-chirality in the β-peptoid residues. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 2660-8	3.8	16
103	Metabolic cleavage and translocation efficiency of selected cell penetrating peptides: a comparative study with epithelial cell cultures. *AAPS Journal*, **2008**, 10, 349-59	3.7	16
102	Characterization of particulate drug delivery systems for oral delivery of Peptide and protein drugs. *Current Pharmaceutical Design*, **2015**, 21, 2611-28	3.3	16
101	Nanoemulsion structure and food matrix determine the gastrointestinal fate and in vivo bioavailability of coenzyme Q10. *Journal of Controlled Release*, **2020**, 327, 444-455	11.7	16
100	Microfluidics-based self-assembly of peptide-loaded microgels: Effect of three dimensional (3D) printed micromixer design. *Journal of Colloid and Interface Science*, **2019**, 538, 559-568	9.3	16
99	Dual-Isotope SPECT/CT Imaging of the Tuberculosis Subunit Vaccine H56/CAF01: Induction of Strong Systemic and Mucosal IgA and T-Cell Responses in Mice Upon Subcutaneous Prime and Intrapulmonary Boost Immunization. *Frontiers in Immunology*, **2018**, 9, 2825	8.4	16
98	Investigation of protein distribution in solid lipid particles and its impact on protein release using coherent anti-Stokes Raman scattering microscopy. *Journal of Controlled Release*, **2015**, 197, 111-20	11.7	15
97	Monosized Polymeric Microspheres Designed for Passive Lung Targeting: Biodistribution and Pharmacokinetics after Intravenous Administration. *ACS Nano*, **2020**, 14, 6693-6706	16.7	15
96	Mucoadhesive Electrospun Patch Delivery of Lidocaine to the Oral Mucosa and Investigation of Spatial Distribution in a Tissue Using MALDI-Mass Spectrometry Imaging. *Molecular Pharmaceutics*, **2019**, 16, 3948-3956	5.6	15
95	Surface coating of siRNA-peptidomimetic nano-self-assemblies with anionic lipid bilayers: enhanced gene silencing and reduced adverse effects in vitro. *Nanoscale*, **2015**, 7, 19687-98	7.7	15
94	The unsialylated subpopulation of recombinant activated factor VII binds to the asialo-glycoprotein receptor (ASGPR) on primary rat hepatocytes. *Thrombosis and Haemostasis*, **2010**, 104, 1166-73	7	15
93	The distribution of cell-penetrating peptides on polymeric nanoparticles prepared using microfluidics and elucidated with small angle X-ray scattering. *Journal of Colloid and Interface Science*, **2019**, 555, 438-448	9.3	14
92	Influence of trehalose 6,6′-diester (TDX) chain length on the physicochemical and immunopotentiating properties of DDA/TDX liposomes. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 90, 80-9	5.7	14
91	Mechanism of action of lung damage caused by a nanofilm spray product. *Toxicological Sciences*, **2014**, 140, 436-44	4.4	14
90	The supramolecular structure is decisive for the immunostimulatory properties of synthetic analogues of a mycobacterial lipid in vitro. *RSC Advances*, **2013**, 3, 20673-20683	3.7	14
89	Preparation, Characterization, and In Vitro Evaluation of Lipidoid-Polymer Hybrid Nanoparticles for siRNA Delivery to the Cytosol. *Methods in Molecular Biology*, **2019**, 1943, 141-152	1.4	13
88	Swelling of mucoadhesive electrospun chitosan/polyethylene oxide nanofibers facilitates adhesion to the sublingual mucosa. *Carbohydrate Polymers*, **2020**, 242, 116428	10.3	13

87	Quantification of pharmaceutical peptides in human plasma by LC-ICP-MS sulfur detection. *Journal of Analytical Atomic Spectrometry*, **2016**, 31, 1877-1884	3.7	13
86	Comparison of bulk and microfluidics methods for the formulation of poly-lactic--glycolic acid (PLGA) nanoparticles modified with cell-penetrating peptides of different architectures. *International Journal of Pharmaceutics: X*, **2019**, 1, 100030	3.2	12
85	Effects of boiling and in vitro gastrointestinal digestion on the antioxidant activity of Sonchus oleraceus leaves. *Food and Function*, **2016**, 7, 1515-22	6.1	12
84	Thermostable Subunit Vaccines for Pulmonary Delivery: How Close Are We?. *Current Pharmaceutical Design*, **2016**, 22, 2561-76	3.3	12
83	Nanoparticle-mediated pulmonary drug delivery: state of the art towards efficient treatment of recalcitrant respiratory tract bacterial infections. *Drug Delivery and Translational Research*, **2021**, 11, 1634-1654	6.2	12
82	Calcium pectinate and hyaluronic acid modified lactoferrin nanoparticles loaded rhein with dual-targeting for ulcerative colitis treatment. *Carbohydrate Polymers*, **2021**, 263, 117998	10.3	12
81	Large-Scale Biophysical Evaluation of Protein PEGylation Effects: In Vitro Properties of 61 Protein Entities. *Molecular Pharmaceutics*, **2016**, 13, 1587-98	5.6	12
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