

Andreas Zimmer

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121
papers

5,758
citations

36
h-index

73
g-index

128
ext. papers

6,391
ext. citations

6.6
avg. IF

5.88
L-index

#	Paper	IF	Citations
121	Genome-wide, large-scale production of mutant mice by ENU mutagenesis. <i>Nature Genetics</i> , 2000 , 25, 444-7	36.3	578
120	Rhabdomyosarcomas and radiation hypersensitivity in a mouse model of Gorlin syndrome. <i>Nature Medicine</i> , 1998 , 4, 619-22	50.5	372
119	Solid Lipid Nanoparticles (SLN) and Nanostructured Lipid Carriers (NLC) for pulmonary application: a review of the state of the art. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014 , 86, 7-22	5.7	341
118	A practical note on the use of cytotoxicity assays. <i>International Journal of Pharmaceutics</i> , 2005 , 288, 369-76	7.6	320
117	Microspheres and nanoparticles used in ocular delivery systems. <i>Advanced Drug Delivery Reviews</i> , 1995 , 16, 61-73	18.5	259
116	Drug delivery of siRNA therapeutics: potentials and limits of nanosystems. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2009 , 5, 8-20	6	182
115	Development of an itraconazole-loaded nanostructured lipid carrier (NLC) formulation for pulmonary application. <i>International Journal of Pharmaceutics</i> , 2011 , 419, 329-38	6.5	159
114	Drug delivery and drug targeting with parenteral lipid nanoemulsions - A review. <i>Journal of Controlled Release</i> , 2016 , 223, 85-98	11.7	149
113	Introducing the German Mouse Clinic: open access platform for standardized phenotyping. <i>Nature Methods</i> , 2005 , 2, 403-4	21.6	148
112	Nanosuspensions as advanced printing ink for accurate dosing of poorly soluble drugs in personalized medicines. <i>International Journal of Pharmaceutics</i> , 2011 , 420, 93-100	6.5	135
111	Internalization mechanisms of cell-penetrating peptides. <i>Beilstein Journal of Nanotechnology</i> , 2020 , 11, 101-123	3	121
110	Glycerol monooleate liquid crystalline phases used in drug delivery systems. <i>International Journal of Pharmaceutics</i> , 2015 , 478, 569-87	6.5	109
109	Geriatric drug therapy: neglecting the inevitable majority. <i>Ageing Research Reviews</i> , 2010 , 9, 384-98	12	109
108	Analysis of mammalian gene function through broad-based phenotypic screens across a consortium of mouse clinics. <i>Nature Genetics</i> , 2015 , 47, 969-978	36.3	106
107	Development of an advanced intestinal in vitro triple culture permeability model to study transport of nanoparticles. <i>Molecular Pharmaceutics</i> , 2014 , 11, 808-18	5.6	105
106	Mouse phenotyping. <i>Methods</i> , 2011 , 53, 120-35	4.6	103
105	Apolipoprotein A-I coating of protamine-oligonucleotide nanoparticles increases particle uptake and transcytosis in an in vitro model of the blood-brain barrier. <i>Journal of Controlled Release</i> , 2007 , 117, 301-11	11.7	89

104	Cytotoxicity of nanoparticles independent from oxidative stress. <i>Journal of Toxicological Sciences</i> , 2009 , 34, 363-75	1.9	88
103	Drug delivery of oligonucleotides by peptides. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2004 , 58, 237-51	5.7	87
102	Cardiovascular effects of 2-arachidonoyl glycerol in anesthetized mice. <i>Hypertension</i> , 2000 , 35, 679-84	8.5	87
101	The patched signaling pathway in tumorigenesis and development: lessons from animal models. <i>Journal of Molecular Medicine</i> , 1999 , 77, 459-68	5.5	86
100	Studies on the transport pathway of PBCA nanoparticles in ocular tissues. <i>Journal of Microencapsulation</i> , 1991 , 8, 497-504	3.4	85
99	The oral cavity as a biological barrier system: design of an advanced buccal in vitro permeability model. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 84, 386-93	5.7	75
98	Evaluation of a physiological in vitro system to study the transport of nanoparticles through the buccal mucosa. <i>Nanotoxicology</i> , 2012 , 6, 399-413	5.3	75
97	Albumin-protamine-oligonucleotide nanoparticles as a new antisense delivery system. Part 1: physicochemical characterization. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2005 , 59, 419-29	5.7	66
96	Microemulsions containing lecithin and sugar-based surfactants: nanoparticle templates for delivery of proteins and peptides. <i>International Journal of Pharmaceutics</i> , 2008 , 350, 351-60	6.5	57
95	Development of sustained-release lipophilic calcium stearate pellets via hot melt extrusion. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 79, 635-45	5.7	56
94	Albumin-protamine-oligonucleotide-nanoparticles as a new antisense delivery system. Part 2: cellular uptake and effect. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2005 , 59, 431-8	5.7	48
93	Protamine nanoparticles with CpG-oligodeoxynucleotide prevent an allergen-induced Th2-response in BALB/c mice. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 85, 656-64	5.7	47
92	Comparison of antisense oligonucleotide drug delivery systems. <i>Journal of Controlled Release</i> , 2004 , 100, 411-23	11.7	46
91	Pharmacokinetic and pharmacodynamic aspects of an ophthalmic pilocarpine nanoparticle-delivery-system. <i>Pharmaceutical Research</i> , 1994 , 11, 1435-42	4.5	45
90	Solvent-free melting techniques for the preparation of lipid-based solid oral formulations. <i>Pharmaceutical Research</i> , 2015 , 32, 1519-45	4.5	41
89	In-vitro permeability of neutral polystyrene particles via buccal mucosa. <i>Small</i> , 2013 , 9, 457-66	11	41
88	Intracellular tracking of protamine/antisense oligonucleotide nanoparticles and their inhibitory effect on HIV-1 transactivation. <i>Journal of Controlled Release</i> , 2004 , 96, 497-507	11.7	39
87	Phosphodiester and phosphorothioate oligonucleotide condensation and preparation of antisense nanoparticles. <i>BBA - Proteins and Proteomics</i> , 2001 , 1544, 177-88		37

86	Antisense oligonucleotide delivery with polyhexylcyanoacrylate nanoparticles as carriers. <i>Methods</i> , 1999 , 18, 286-95, 322	4.6	37
85	Recombinant virus like particles as drug delivery system. <i>Current Pharmaceutical Biotechnology</i> , 2005 , 6, 49-55	2.6	36
84	Innovations in phenotyping of mouse models in the German Mouse Clinic. <i>Mammalian Genome</i> , 2012 , 23, 611-22	3.2	35
83	Immunostimulatory properties of CpG-oligonucleotides are enhanced by the use of protamine nanoparticles. <i>Oligonucleotides</i> , 2006 , 16, 313-22		35
82	Itraconazole-loaded nanostructured lipid carriers (NLC) for pulmonary treatment of aspergillosis in falcons. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016 , 108, 269-276	5.7	35
81	The buccal mucosa as a route for TiO ₂ nanoparticle uptake. <i>Nanotoxicology</i> , 2015 , 9, 253-61	5.3	33
80	Depot formulation of vasoactive intestinal peptide by protamine-based biodegradable nanoparticles. <i>Journal of Controlled Release</i> , 2008 , 130, 192-8	11.7	33
79	Interactions between nano-TiO ₂ and the oral cavity: impact of nanomaterial surface hydrophilicity/hydrophobicity. <i>Journal of Hazardous Materials</i> , 2015 , 286, 298-305	12.8	32
78	Protamine-oligonucleotide-nanoparticles: Recent advances in drug delivery and drug targeting. <i>European Journal of Pharmaceutical Sciences</i> , 2015 , 75, 54-9	5.1	30
77	UV light induced photodegradation of liposome encapsulated fluoroquinolones: An MS study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 198, 268-273	4.7	30
76	Oligonucleotide-protamine-albumin nanoparticles: preparation, physical properties, and intracellular distribution. <i>Journal of Controlled Release</i> , 2005 , 103, 99-111	11.7	30
75	Protein kinase D2 regulates migration and invasion of U87MG glioblastoma cells in vitro. <i>Experimental Cell Research</i> , 2013 , 319, 2037-2048	4.2	29
74	Lipoprotein-Related and Apolipoprotein-Mediated Delivery Systems for Drug Targeting and Imaging. <i>Current Medicinal Chemistry</i> , 2015 , 22, 3631-51	4.3	29
73	New protamine quantification method in microtiter plates using o-phthaldialdehyde/N-acetyl-L-cysteine reagent. <i>International Journal of Pharmaceutics</i> , 2004 , 283, 11-7	6.5	27
72	Differential scanning fluorescence approach using a fluorescent molecular rotor to detect thermostability of proteins in surfactant-containing formulations. <i>International Journal of Pharmaceutics</i> , 2013 , 441, 255-60	6.5	26
71	High mobility group N proteins modulate the fidelity of the cellular transcriptional profile in a tissue- and variant-specific manner. <i>Journal of Biological Chemistry</i> , 2013 , 288, 16690-16703	5.4	26
70	Oligonucleotide-protamine-albumin nanoparticles: Protamine sulfate causes drastic size reduction. <i>Journal of Controlled Release</i> , 2005 , 106, 181-7	11.7	26
69	Interference with distinct steps of sphingolipid synthesis and signaling attenuates proliferation of U87MG glioma cells. <i>Biochemical Pharmacology</i> , 2015 , 96, 119-30	6	25

68	Cationic lipid-protamine-DNA (LPD) complexes for delivery of antisense c-myc oligonucleotides. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2005 , 60, 287-94	5.7	25
67	Permeation of Therapeutic Drugs in Different Formulations across the Airway Epithelium In Vitro. <i>PLoS ONE</i> , 2015 , 10, e0135690	3.7	24
66	Nanoparticle-mediated treatment of pulmonary arterial hypertension. <i>Methods in Enzymology</i> , 2012 , 508, 325-54	1.7	22
65	Studies on molecular interactions between nalidixic acid and liposomes. <i>International Journal of Pharmaceutics</i> , 2004 , 279, 67-79	6.5	22
64	Enhanced antisense efficacy of oligonucleotides adsorbed to monomethylaminoethylmethacrylate methylmethacrylate copolymer nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2000 , 49, 203-10	5.7	22
63	Physicochemical characterization of protamine-phosphorothioate nanoparticles. <i>Journal of Microencapsulation</i> , 2004 , 21, 625-41	3.4	21
62	Development of lipophilic calcium stearate pellets using ibuprofen as model drug. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010 , 75, 56-62	5.7	20
61	Microphase separation in solid lipid dosage forms as the cause of drug release instability. <i>International Journal of Pharmaceutics</i> , 2017 , 517, 403-412	6.5	18
60	Advanced stable lipid-based formulations for a patient-centric product design. <i>International Journal of Pharmaceutics</i> , 2016 , 497, 136-49	6.5	18
59	Thinking continuously: a microreactor for the production and scale-up of biodegradable, self-assembled nanoparticles. <i>Polymer Chemistry</i> , 2013 , 4, 2342	4.9	17
58	VPAC receptor mediated tumor cell targeting by protamine based nanoparticles. <i>Journal of Drug Targeting</i> , 2010 , 18, 457-67	5.4	17
57	Physicochemical characterisation of cationic polybutylcyanoacrylate-nanoparticles by fluorescence correlation spectroscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2004 , 58, 25-35	5.7	17
56	Evaluation of aminoalkylmethacrylate nanoparticles as colloidal drug carrier systems. Part I: Synthesis of monomers, dependence of the physical properties on the polymerization methods. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 1999 , 47, 203-13	5.7	17
55	Designing optimal formulations for hot-melt coating. <i>International Journal of Pharmaceutics</i> , 2017 , 533, 357-363	6.5	16
54	Role of Lipid Blooming and Crystallite Size in the Performance of Highly Soluble Drug-Loaded Microcapsules. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 4257-4265	3.9	16
53	Formation of a physical stable delivery system by simply autoclaving nanostructured lipid carriers (NLC). <i>International Journal of Pharmaceutics</i> , 2012 , 439, 22-7	6.5	16
52	Adiponectin-coated nanoparticles for enhanced imaging of atherosclerotic plaques. <i>International Journal of Nanomedicine</i> , 2011 , 6, 1279-90	7.3	16
51	Morphologies in Solvent-Annealed Clotrimazole Thin Films Explained by Hansen-Solubility Parameters. <i>Crystal Growth and Design</i> , 2014 , 14, 1386-1391	3.5	15

50	Ibuprofen-loaded calcium stearate pellets: drying-induced variations in dosage form properties. <i>AAPS PharmSciTech</i> , 2012 , 13, 686-98	3.9	15
49	Novel role of a triglyceride-synthesizing enzyme: DGAT1 at the crossroad between triglyceride and cholesterol metabolism. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016 , 1861, 1132-1141	5	15
48	Atomic force microscopy as analytical tool to study physico-mechanical properties of intestinal cells. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1457-66	3	14
47	Evaluating the effects of buffer conditions and extremolytes on thermostability of granulocyte colony-stimulating factor using high-throughput screening combined with design of experiments. <i>International Journal of Pharmaceutics</i> , 2012 , 436, 744-52	6.5	14
46	Physicochemical characterization of stealth liposomes encapsulating an organophosphate hydrolyzing enzyme. <i>Journal of Liposome Research</i> , 2009 , 19, 163-8	6.1	14
45	Wiring Specificity and Synaptic Diversity in the Mouse Lateral Central Amygdala. <i>Journal of Neuroscience</i> , 2016 , 36, 4549-63	6.6	14
44	Optimization and design of an ibuprofen-loaded nanostructured lipid carrier with a 23 full factorial design. <i>Chemical Engineering Research and Design</i> , 2015 , 104, 488-496	5.5	13
43	Synthesis of cholesterol modified cationic lipids for liposomal drug delivery of antisense oligonucleotides. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 1999 , 47, 175-8	5.7	13
42	Understanding gene functions and disease mechanisms: Phenotyping pipelines in the German Mouse Clinic. <i>Behavioural Brain Research</i> , 2018 , 352, 187-196	3.4	12
41	Biological Activity Of miRNA-27a Using Peptide-based Drug Delivery Systems. <i>International Journal of Nanomedicine</i> , 2019 , 14, 7795-7808	7.3	11
40	Vancomycin ocular delivery systems based on glycerol monooleate reversed hexagonal and reversed cubic liquid crystalline phases. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019 , 139, 279-290	5.7	11
39	Crystallization of Carbamazepine in Proximity to Its Precursor Iminostilbene and a Silica Surface. <i>Crystal Growth and Design</i> , 2016 , 16, 2771-2778	3.5	11
38	Morphologies of Phenytoin Crystals at Silica Model Surfaces: Vapor Annealing versus Drop Casting. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12855-12861	3.8	11
37	Improving the granule strength of roller-compacted ibuprofen sodium for hot-melt coating processing. <i>International Journal of Pharmaceutics</i> , 2016 , 510, 285-95	6.5	10
36	Interleukin 10-coated nanoparticle systems compared for molecular imaging of atherosclerotic lesions. <i>International Journal of Nanomedicine</i> , 2014 , 9, 4211-22	7.3	10
35	Reformulation of a codeine phosphate liquid controlled-release product. <i>Drug Development and Industrial Pharmacy</i> , 2010 , 36, 1454-62	3.6	10
34	Modeling and simulation of polyacrylic acid/protamine nanoparticle precipitation. <i>Soft Matter</i> , 2011 , 7, 9484	3.6	10
33	Use of Protamine in Nanopharmaceuticals-A Review. <i>Nanomaterials</i> , 2021 , 11,	5.4	10

32	Complex Behavior of Caffeine Crystallites on Muscovite Mica Surfaces. <i>Crystal Growth and Design</i> , 2015 , 15, 4563-4570	3.5	9
31	Crystallographic textures and morphologies of solution cast Ibuprofen composite films at solid surfaces. <i>Molecular Pharmaceutics</i> , 2014 , 11, 4084-91	5.6	9
30	In vitro release of propofol and binding capacity with regard to plasma constituents. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 70, 882-8	5.7	9
29	Monoglyceride lipase deficiency affects hepatic cholesterol metabolism and lipid-dependent gut transit in ApoE ^{-/-} mice. <i>Oncotarget</i> , 2017 , 8, 33122-33136	3.3	9
28	Correlation between the solid state of lipid coating and release profile of API from hot melt coated microcapsules. <i>International Journal of Pharmaceutics</i> , 2019 , 565, 569-578	6.5	8
27	Effect of protamine on the solubility and deamidation of human growth hormone. <i>International Journal of Pharmaceutics</i> , 2012 , 427, 209-16	6.5	8
26	Application of ICH Q9 Quality Risk Management Tools for Advanced Development of Hot Melt Coated Multiparticulate Systems. <i>Journal of Pharmaceutical Sciences</i> , 2017 , 106, 278-290	3.9	8
25	Microstructure of calcium stearate matrix pellets: a function of the drying process. <i>Journal of Pharmaceutical Sciences</i> , 2013 , 102, 3987-97	3.9	7
24	Monitoring of a Hot Melt Coating Process via a Novel Multipoint Near-Infrared Spectrometer. <i>AAPS PharmSciTech</i> , 2017 , 18, 182-193	3.9	7
23	One Polymorph and Various Morphologies of Phenytoin at a Silica Surface Due to Preparation Kinetics. <i>Crystal Growth and Design</i> , 2015 , 15, 326-332	3.5	7
22	Clinical potential of VIP by modified pharmaco-kinetics and delivery mechanisms. <i>Endocrine, Metabolic and Immune Disorders - Drug Targets</i> , 2012 , 12, 344-50	2.2	7
21	Fluorescence correlation spectroscopy for the characterisation of drug delivery systems. <i>Biological Chemistry</i> , 2001 , 382, 487-90	4.5	7
20	The First Scube3 Mutant Mouse Line with Pleiotropic Phenotypic Alterations. <i>G3: Genes, Genomes, Genetics</i> , 2016 , 6, 4035-4046	3.2	7
19	Dissolution testing of hardly soluble materials by surface sensitive techniques: clotrimazole from an insoluble matrix. <i>Pharmaceutical Research</i> , 2014 , 31, 2708-15	4.5	6
18	Solvent Vapor Annealing of Amorphous Carbamazepine Films for Fast Polymorph Screening and Dissolution Alteration. <i>ACS Omega</i> , 2017 , 2, 5582-5590	3.9	6
17	Monolithic precolumns as efficient tools for guiding the design of nanoparticulate drug-delivery formulations. <i>Analytical Chemistry</i> , 2012 , 84, 7415-21	7.8	6
16	Use of the direct compression aid Ludiflash(□) for the preparation of pellets via wet extrusion/spheronization. <i>Drug Development and Industrial Pharmacy</i> , 2011 , 37, 1231-43	3.6	6
15	Comparison of PEGylated and non-PEGylated proticles: An in vitro and in vivo study. <i>European Journal of Pharmaceutical Sciences</i> , 2019 , 139, 105063	5.1	5

14	Rapid screening method for antisense oligonucleotides against human growth factor receptor p185(erbB-2). <i>Oligonucleotides</i> , 2004 , 14, 1-9		4
13	The patched signaling pathway in tumorigenesis and development: lessons from animal models 1999 , 77, 459		4
12	A Protocol To Characterize Peptide-Based Drug Delivery Systems for miRNAs. <i>ACS Omega</i> , 2019 , 4, 70143-7022	3.9	3
11	Manufacturing of a Secretoneurin Drug Delivery System with Self-Assembled Protamine Nanoparticles by Titration. <i>PLoS ONE</i> , 2016 , 11, e0164149	3.7	3
10	Hot Melt Coating of Amorphous Carvedilol. <i>Pharmaceutics</i> , 2020 , 12,	6.4	2
9	Reduced activity of BRAF protein kinase in hop and hop(hpy) mouse mutants. <i>Mammalian Genome</i> , 1998 , 9, 905-6	3.2	2
8	Intestine-specific DGAT1 deficiency improves atherosclerosis in apolipoprotein E knockout mice by reducing systemic cholesterol burden. <i>Atherosclerosis</i> , 2020 , 310, 26-36	3.1	2
7	Impact of Surface Properties of Core Material on the Stability of Hot Melt-Coated Multiparticulate Systems. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
6	Vancomycin Loaded Glycerol Monooleate Liquid Crystalline Phases Modified with Surfactants. <i>Pharmaceutics</i> , 2020 , 12,	6.4	1
5	Pharmacokinetics of a novel liquid controlled release codeine formulation. <i>Drug Development and Industrial Pharmacy</i> , 2011 , 37, 1119-24	3.6	1
4	Going green: Development of a sustainable lipid-based enteric coating formulation for low-dose aspirin multiparticulate systems.. <i>International Journal of Pharmaceutics</i> , 2022 , 614, 121453	6.5	
3	Membrane interactions and cellular uptake of an amphipathic cell-penetrating peptide as a delivery system for miRNA. <i>Makedonsko Farmaceutski Bilten</i> , 2020 , 66, 123-124	0.1	
2	Virus-Based Nanoparticles: Drug Delivery Systems8224-8235		
1	Impact of polysorbate 65 on tripalmitin crystal growth and release stability of hot melt coated multiparticulate systems. <i>International Journal of Pharmaceutics</i> , 2021 , 607, 120970	6.5	