Dagmar Fischer

List of Publications by Year
in descending order

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87 papers	14,597 citations	87888 38 h-index	49909 87 g-index
87 all docs	87 docs citations	87 times ranked	19704 citing authors

#	Article	IF	Citations
1	Poly(ethylene glycol) in Drug Delivery: Pros and Cons as Well as Potential Alternatives. Angewandte Chemie - International Edition, 2010, 49, 6288-6308.	13.8	2,857
2	In vitro cytotoxicity testing of polycations: influence of polymer structure on cell viability and hemolysis. Biomaterials, 2003, 24, 1121-1131.	11.4	2,026
3	Rapid formation of plasma protein corona critically affects nanoparticle pathophysiology. Nature Nanotechnology, 2013, 8, 772-781.	31.5	1,817
4	A novel non-viral vector for DNA delivery based on low molecular weight, branched polyethylenimine: effect of molecular weight on transfection efficiency and cytotoxicity. Pharmaceutical Research, 1999, 16, 1273-1279.	3.5	1,128
5	Recent advances in rational gene transfer vector design based on poly(ethylene imine) and its derivatives. Journal of Gene Medicine, 2005, 7, 992-1009.	2.8	802
6	Low-molecular-weight polyethylenimine as a non-viral vector for DNA delivery: comparison of physicochemical properties, transfection efficiency and in vivo distribution with high-molecular-weight polyethylenimine. Journal of Controlled Release, 2003, 89, 113-125.	9.9	758
7	Nanocellulose as a natural source for groundbreaking applications in materials science: Todayâ€™s state. Materials Today, 2018, 21, 720-748.	14.2	625
8	Polyethylenimine-graft-Poly(ethylene glycol) Copolymers:Â Influence of Copolymer Block Structure on DNA Complexation and Biological Activities as Gene Delivery System. Bioconjugate Chemistry, 2002, 13, 845-854.	3.6	516
9	Surface-modified biodegradable albumin nano- and microspheres. II: effect of surface charges on in vitro phagocytosis and biodistribution in rats. European Journal of Pharmaceutics and Biopharmaceutics, 1998, 46, 255-263.	4.3	324
10	Branched and linear poly(ethylene imine)-based conjugates: synthetic modification, characterization, and application. Chemical Society Reviews, 2012, 41, 4755.	38.1	268
11	Poly(2â€ethylâ€2â€oxazoline) as Alternative for the Stealth Polymer Poly(ethylene glycol): Comparison of in vitro Cytotoxicity and Hemocompatibility. Macromolecular Bioscience, 2012, 12, 986-998.	4.1	243
12	Active wound dressings based on bacterial nanocellulose as drug delivery system for octenidine. International Journal of Pharmaceutics, 2014, 471, 45-55.	5.2	205
13	Drug delivery strategies in the therapy of inflammatory bowel disease. Advanced Drug Delivery Reviews, 2014, 71, 58-76.	13.7	196
14	The Biopolymer Bacterial Nanocellulose as Drug Delivery System: Investigation of Drug Loading and Release using the Model Protein Albumin. Journal of Pharmaceutical Sciences, 2013, 102, 579-592.	3.3	163
15	Uptake and Transport of PEG-Graft-Trimethyl-Chitosan Copolymerâ€“Insulin Nanocomplexes by Epithelial Cells. Pharmaceutical Research, 2005, 22, 2058-2068.	3.5	149
16	The structure of PEG-modified poly(ethylene imines) influences biodistribution and pharmacokinetics of their complexes with NF-kappaB decoy in mice. Pharmaceutical Research, 2002, 19, 810-817.	3.5	148
17	Intracellular processing of poly(ethylene imine)/ribozyme complexes can be observed in living cells by using confocal laser scanning microscopy and inhibitor experiments. Pharmaceutical Research, 2002, 19, 140-146.	3.5	140
18	Hospital-related cost of sepsis: A systematic review. Journal of Infection, 2017, 74, 107-117.	3.3	135

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19	Poly(ethylenimine-co-l-lactamide-co-succinamide):Â A Biodegradable Polyethylenimine Derivative with an Advantageous pH-Dependent Hydrolytic Degradation for Gene Delivery. Bioconjugate Chemistry, 2002, 13, 812-821.	3.6	125
20	PEG-functionalized microparticles selectively target inflamed mucosa in inflammatory bowel disease. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 85, 578-586.	4.3	106
21	Polymers in Drug Deliveryâ€"State of the Art and Future Trends. Advanced Engineering Materials, 2011, 13, B61.	3.5	105
22	Copolymers of Ethylene Imine andN-(2-Hydroxyethyl)-ethylene Imine as Tools To Study Effects of Polymer Structure on Physicochemical and Biological Properties of DNA Complexes. Bioconjugate Chemistry, 2002, 13, 1124-1133.	3.6	100
23	Tailor-made material characteristics of bacterial cellulose for drug delivery applications in dentistry. Carbohydrate Polymers, 2019, 207, 1-10.	10.2	79
24	Polyelectrolyte Complexes of DNA and Linear PEI: Formation, Composition and Properties. Langmuir, 2012, 28, 16167-16176.	3.5	67
25	Poly(ethyleneimines) in dermal applications: Biocompatibility and antimicrobial effects. International Journal of Pharmaceutics, 2013, 456, 165-174.	5.2	67
26	<i>In vitro</i> hemocompatibility and cytotoxicity study of poly(2â€methylâ€2â€oxazoline) for biomedical applications. Journal of Polymer Science Part A, 2013, 51, 1816-1821.	2.3	67
27	Effect of poly(ethylene imine) molecular weight and pegylation on organ distribution and pharmacokinetics of polyplexes with oligodeoxynucleotides in mice. Drug Metabolism and Disposition, 2004, 32, 983-92.	3.3	67
28	Luminomagnetic Eu3+- and Dy3+-doped hydroxyapatite for multimodal imaging. Materials Science and Engineering C, 2017, 81, 422-431.	7.3	62
29	Poly(diallyldimethylammonium chlorides) and their N-methyl-N-vinylacetamide copolymer-based DNA-polyplexes: role of molecular weight and charge density in complex formation, stability, and in vitro activity. International Journal of Pharmaceutics, 2004, 280, 253-269.	5.2	61
30	Cell type specificity of the human endoglin promoter. Gene, 1999, 227, 55-62.	2.2	56
31	Aspects of pulmonary drug delivery strategies for infections in cystic fibrosis â€" where do we stand?. Expert Opinion on Drug Delivery, 2015, 12, 1351-1374.	5.0	53
32	The physical state of lipid nanoparticles influences their effect on in vitro cell viability. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 79, 150-161.	4.3	51
33	Cationized human serum albumin as a non-viral vector system for gene delivery? Characterization of complex formation with plasmid DNA and transfection efficiency. International Journal of Pharmaceutics, 2001, 225, 97-111.	5.2	49
34	Process control and scale-up of modified bacterial cellulose production for tailor-made anti-inflammatory drug delivery systems. Carbohydrate Polymers, 2020, 236, 116062.	10.2	49
35	Bacterial nanocellulose: the future of controlled drug delivery?. Therapeutic Delivery, 2017, 8, 753-761.	2.2	47
36	Comprehensive analysis of the in vitro and ex ovo hemocompatibility of surface engineered iron oxide nanoparticles for biomedical applications. Archives of Toxicology, 2017, 91, 3271-3286.	4.2	45

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37	Polyester-based particles to overcome the obstacles of mucus and biofilms in the lung for tobramycin application under static and dynamic fluidic conditions. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 131, 120-129.	4.3	42
38	Histochemical characterization of primary capillary endothelial cells from porcine brains using monoclonal antibodies and fluorescein isothiocyanate-labelled lectins: implications for drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2001, 52, 1-11.	4.3	40
39	Bacterial nanocellulose with a shape-memory effect as potential drug delivery system. RSC Advances, 2014, 4, 57173-57184.	3.6	37
40	Biotech nanocellulose: A review on progress in product design and todayâ€™s state of technical and medical applications. Carbohydrate Polymers, 2021, 254, 117313.	10.2	33
41	Mitoxantrone-loaded zeolite beta nanoparticles: Preparation, physico-chemical characterization and biological evaluation. Journal of Colloid and Interface Science, 2012, 365, 33-40.	9.4	30
42	Dextran-graft-linear poly(ethylene imine)s for gene delivery: Importance of the linking strategy. Carbohydrate Polymers, 2014, 113, 597-606.	10.2	29
43	A Novel Computerized Cell Count Algorithm for Biofilm Analysis. PLoS ONE, 2016, 11, e0154937.	2.5	29
44	Recent developments and perspectives on gene therapy using synthetic vectors. Therapeutic Delivery, 2013, 4, 95-113.	2.2	28
45	Loading of bacterial nanocellulose hydrogels with proteins using a high-speed technique. Carbohydrate Polymers, 2014, 106, 410-413.	10.2	26
46	The acylphloroglucinols hyperforin and myrtucommulone A cause mitochondrial dysfunctions in leukemic cells by direct interference with mitochondria. Apoptosis: an International Journal on Programmed Cell Death, 2015, 20, 1508-1517.	4.9	26
47	Fungal Biosurfactants from <i>Mortierella alpina</i>. Organic Letters, 2019, 21, 1444-1448.	4.6	26
48	Estimating extra length of stay due to healthcare-associated infections before and after implementation of a hospital-wide infection control program. PLoS ONE, 2019, 14, e0217159.	2.5	23
49	Immobilization of plasmids in bacterial nanocellulose as gene activated matrix. Carbohydrate Polymers, 2019, 209, 62-73.	10.2	23
50	Polyelectrolyte layer assembly of bacterial nanocellulose whiskers with plasmid DNA as biocompatible non-viral gene delivery system. Cellulose, 2018, 25, 1939-1960.	4.9	21
51	Improving colloidal stability of silica nanoparticles when stored in responsive gel: application and toxicity study. Nanotoxicology, 2018, 12, 407-422.	3.0	21
52	Polysaccharide Nanoparticles Bearing HDAC Inhibitor as Nontoxic Nanocarrier for Drug Delivery. Macromolecular Bioscience, 2020, 20, 2000039.	4.1	21
53	A Novel Method for the Assessment of Targeted PEI-Based Nanoparticle Binding Based on a Static Surface Plasmon Resonance System. Analytical Chemistry, 2014, 86, 6827-6835.	6.5	19
54	Cyreneâ„¢ as an Alternative Sustainable Solvent for the Preparation of Poly(lactic-co-glycolic acid) Nanoparticles. Journal of Pharmaceutical Sciences, 2021, 110, 959-964.	3.3	19

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55	Sustainable preparation of anti-inflammatory atorvastatin PLGA nanoparticles. International Journal of Pharmaceutics, 2021, 599, 120404.	5.2	19
56	Anti-inflammatory celastrol promotes a switch from leukotriene biosynthesis to formation of specialized pro-resolving lipid mediators. Pharmacological Research, 2021, 167, 105556.	7.1	19
57	Amino Acidâ€"Substituted Dextranâ€Based Nonâ€Viral Vectors for Gene Delivery. Macromolecular Bioscience, 2019, 19, e1900085.	4.1	18
58	Development and characterization of bacterial nanocellulose loaded with Boswellia serrata extract containing nanoemulsions as natural dressing for skin diseases. International Journal of Pharmaceutics, 2020, 587, 119635.	5.2	18
59	Simulation of the long-term fate of superparamagnetic iron oxide-based nanoparticles using simulated biological fluids. Nanomedicine, 2019, 14, 1681-1706.	3.3	17
60	Suitability of Viability Assays for Testing Biological Effects of Coated Superparamagnetic Nanoparticles. IEEE Transactions on Magnetics, 2013, 49, 383-388.	2.1	16
61	The differences of the impact of a lipid and protein corona on the colloidal stability, toxicity, and degradation behavior of iron oxide nanoparticles. Nanoscale, 2021, 13, 9415-9435.	5.6	16
62	Biocompatible sulfated valproic acid-coupled polysaccharide-based nanocarriers with HDAC inhibitory activity. Journal of Controlled Release, 2021, 329, 717-730.	9.9	15
63	3D screen printing â€" An innovative technology for large-scale manufacturing of pharmaceutical dosage forms. International Journal of Pharmaceutics, 2021, 592, 120096.	5.2	14
64	Staurosporine-induced apoptosis in cultured chick embryonic neurons is reduced by polyethylenimine of low molecular weight used as a coating substrate. Neuroscience Research, 2000, 37, 245-253.	1.9	13
65	Targeted Delivery of Complexes of Biotinâ€"PEGâ€"Polyethylenimine and NF-Î°B Decoys to Brain-derived Endothelial Cells in Vitro. Pharmaceutical Research, 2008, 25, 605-615.	3.5	13
66	Starâ€Shaped Block Copolymers by Copperâ€Catalyzed Azideâ€Alkyne Cycloaddition for Potential Drug Delivery Applications. Macromolecular Chemistry and Physics, 2012, 213, 2146-2156.	2.2	13
67	Optical detection of nanoparticle agglomeration in a living system under the influence of a magnetic field. Journal of Magnetism and Magnetic Materials, 2015, 380, 61-65.	2.3	12
68	A blue fluorescent labeling technique utilizing micro- and nanoparticles for tracking in LIVE/DEAD® stained pathogenic biofilms of Staphylococcus aureus and Burkholderia cepacia. International Journal of Nanomedicine, 2016, 11, 575.	6.7	12
69	Modified Bacterial Cellulose Dressings to Treat Inflammatory Wounds. Nanomaterials, 2020, 10, 2508.	4.1	12
70	Controlled Release of the Î±-Tocopherol-Derived Metabolite Î±-13â€²-Carboxychromanol from Bacterial Nanocellulose Wound Cover Improves Wound Healing. Nanomaterials, 2021, 11, 1939.	4.1	12
71	Rethinking the impact of the protonable amine density on cationic polymers for gene delivery: A comparative study of partially hydrolyzed poly(2-ethyl-2-oxazoline)s and linear poly(ethylene imine)s. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 133, 112-121.	4.3	11
72	The influence of gradient and statistical arrangements of guanidinium or primary amine groups in poly(methacrylate) copolymers on their DNA binding affinity. Journal of Materials Chemistry B, 2019, 7, 5920-5929.	5.8	11

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73	The indirubin derivative 6-bromoindirubin-3â€²-glycerol-oxime ether (6BIGOE) potently modulates inflammatory cytokine and prostaglandin release from human monocytes through GSK-3 interference. Biochemical Pharmacology, 2020, 180, 114170.	4.4	11
74	Incorporation of Indole Significantly Improves the Transfection Efficiency of Guanidiniumâ€Containing Poly(Methacrylamide)s. Macromolecular Rapid Communications, 2020, 41, e1900668.	3.9	11
75	Overcoming the hydrophilicity of bacterial nanocellulose: Incorporation of the lipophilic coenzyme Q10 using lipid nanocarriers for dermal applications. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 158, 106-112.	4.3	9
76	Elucidating preparation-structure relationships for the morphology evolution during the RAFT dispersion polymerization of <i>N</i>-acryloyl thiomorpholine. Polymer Chemistry, 2021, 12, 1668-1680.	3.9	9
77	Beneficial Modulation of Lipid Mediator Biosynthesis in Innate Immune Cells by Antirheumatic Tripterygium wilfordii Glycosides. Biomolecules, 2021, 11, 746.	4.0	9
78	Drug delivery of 6-bromoindirubin-3â€™-glycerol-oxime ether employing poly(d,l-lactide-co-glycolide)-based nanoencapsulation techniques with sustainable solvents. Journal of Nanobiotechnology, 2022, 20, 5.	9.1	7
79	Tetraspanin 5 (TSPAN5), a Novel Gatekeeper of the Tumor Suppressor DLC1 and Myocardin-Related Transcription Factors (MRTFs), Controls HCC Growth and Senescence. Cancers, 2021, 13, 5373.	3.7	6
80	Indole, Phenyl, and Phenol Groups: The Role of the Comonomer on Gene Delivery in Guanidinium Containing Methacrylamide Terpolymers. Macromolecular Rapid Communications, 2021, 42, e2000580.	3.9	4
81	Distinct endocytosis and immune activation of poly(lactic-co-glycolic) acidÂnanoparticles prepared by single- and double-emulsion evaporation. Nanomedicine, 2021, 16, 2075-2094.	3.3	4
82	Bacterial nanocellulose: Reinforcement of compressive strength using an adapted Mobile Matrix Reservoir Technology and suitable post-modification strategies. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104978.	3.1	4
83	A shell-less henâ€™s egg test as infection model to determine the biocompatibility and antimicrobial efficacy of drugs and drug formulations against Pseudomonas aeruginosa. International Journal of Pharmaceutics, 2020, 585, 119557.	5.2	3
84	The Role of Formamidine Groups in Dextran Based Nonviral Vectors for Gene Delivery on Their Physicochemical and Biological Characteristics. Macromolecular Bioscience, 2021, 21, e2000220.	4.1	3
85	PEGylation of Guanidinium and Indole Bearing Poly(methacrylamide)s â€“ Biocompatible Terpolymers for pDNA Delivery. Macromolecular Bioscience, 2021, 21, e2100146.	4.1	3
86	State of the Art: Therapeutical Strategies for the Treatment of Inflammatory Bowel Disease. Current Drug Therapy, 2013, 8, 99-120.	0.3	3
87	Encapsulation of the anti-inflammatory dual FLAP/sEH inhibitor diflapolin improves the efficiency in human whole blood. Journal of Pharmaceutical Sciences, 2021, , .	3.3	1