

# Dagmar Fischer

## List of Publications by Year in descending order

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87  
papers

14,597  
citations

87723

38  
h-index

49773

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. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6288-6308.	7.2	2,857
2	In vitro cytotoxicity testing of polycations: influence of polymer structure on cell viability and hemolysis. <i>Biomaterials</i> , 2003, 24, 1121-1131.	5.7	2,026
3	Rapid formation of plasma protein corona critically affects nanoparticle pathophysiology. <i>Nature Nanotechnology</i> , 2013, 8, 772-781.	15.6	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. <i>Pharmaceutical Research</i> , 1999, 16, 1273-1279.	1.7	1,128
5	Recent advances in rational gene transfer vector design based on poly(ethylene imine) and its derivatives. <i>Journal of Gene Medicine</i> , 2005, 7, 992-1009.	1.4	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. <i>Journal of Controlled Release</i> , 2003, 89, 113-125.	4.8	758
7	Nanocellulose as a natural source for groundbreaking applications in materials science: Today's state. <i>Materials Today</i> , 2018, 21, 720-748.	8.3	625
8	Polyethylenimine-graft-Poly(ethylene glycol) Copolymers: Influence of Copolymer Block Structure on DNA Complexation and Biological Activities as Gene Delivery System. <i>Bioconjugate Chemistry</i> , 2002, 13, 845-854.	1.8	516
9	Surface-modified biodegradable albumin nano- and microspheres. II: effect of surface charges on in vitro phagocytosis and biodistribution in rats. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 1998, 46, 255-263.	2.0	324
10	Branched and linear poly(ethylene imine)-based conjugates: synthetic modification, characterization, and application. <i>Chemical Society Reviews</i> , 2012, 41, 4755.	18.7	268
11	Poly(2-ethyl-oxazoline) as Alternative for the Stealth Polymer Poly(ethylene glycol): Comparison of in vitro Cytotoxicity and Hemocompatibility. <i>Macromolecular Bioscience</i> , 2012, 12, 986-998.	2.1	243
12	Active wound dressings based on bacterial nanocellulose as drug delivery system for octenidine. <i>International Journal of Pharmaceutics</i> , 2014, 471, 45-55.	2.6	205
13	Drug delivery strategies in the therapy of inflammatory bowel disease. <i>Advanced Drug Delivery Reviews</i> , 2014, 71, 58-76.	6.6	196
14	The Biopolymer Bacterial Nanocellulose as Drug Delivery System: Investigation of Drug Loading and Release using the Model Protein Albumin. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 579-592.	1.6	163
15	Uptake and Transport of PEG-Graft-Trimethyl-Chitosan Copolymer-Insulin Nanocomplexes by Epithelial Cells. <i>Pharmaceutical Research</i> , 2005, 22, 2058-2068.	1.7	149
16	The structure of PEG-modified poly(ethylene imines) influences biodistribution and pharmacokinetics of their complexes with NF-kappaB decoy in mice. <i>Pharmaceutical Research</i> , 2002, 19, 810-817.	1.7	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. <i>Pharmaceutical Research</i> , 2002, 19, 140-146.	1.7	140
18	Hospital-related cost of sepsis: A systematic review. <i>Journal of Infection</i> , 2017, 74, 107-117.	1.7	135

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19	Poly(ethylenimine-co-lactamide-co-succinamide): A Biodegradable Polyethylenimine Derivative with an Advantageous pH-Dependent Hydrolytic Degradation for Gene Delivery. <i>Bioconjugate Chemistry</i> , 2002, 13, 812-821.	1.8	125
20	PEG-functionalized microparticles selectively target inflamed mucosa in inflammatory bowel disease. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 578-586.	2.0	106
21	Polymers in Drug Delivery – State of the Art and Future Trends. <i>Advanced Engineering Materials</i> , 2011, 13, B61.	1.6	105
22	Copolymers of Ethylene Imine and N-(2-Hydroxyethyl)-ethylene Imine as Tools To Study Effects of Polymer Structure on Physicochemical and Biological Properties of DNA Complexes. <i>Bioconjugate Chemistry</i> , 2002, 13, 1124-1133.	1.8	100
23	Tailor-made material characteristics of bacterial cellulose for drug delivery applications in dentistry. <i>Carbohydrate Polymers</i> , 2019, 207, 1-10.	5.1	79
24	Polyelectrolyte Complexes of DNA and Linear PEI: Formation, Composition and Properties. <i>Langmuir</i> , 2012, 28, 16167-16176.	1.6	67
25	Poly(ethyleneimines) in dermal applications: Biocompatibility and antimicrobial effects. <i>International Journal of Pharmaceutics</i> , 2013, 456, 165-174.	2.6	67
26	In vitro hemocompatibility and cytotoxicity study of poly(2-methyl-2-oxazoline) for biomedical applications. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1816-1821.	2.5	67
27	Effect of poly(ethylene imine) molecular weight and pegylation on organ distribution and pharmacokinetics of polyplexes with oligodeoxynucleotides in mice. <i>Drug Metabolism and Disposition</i> , 2004, 32, 983-92.	1.7	67
28	Luminomagnetic Eu <sup>3+</sup> - and Dy <sup>3+</sup> -doped hydroxyapatite for multimodal imaging. <i>Materials Science and Engineering C</i> , 2017, 81, 422-431.	3.8	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. <i>International Journal of Pharmaceutics</i> , 2004, 280, 253-269.	2.6	61
30	Cell type specificity of the human endoglin promoter. <i>Gene</i> , 1999, 227, 55-62.	1.0	56
31	Aspects of pulmonary drug delivery strategies for infections in cystic fibrosis – where do we stand?. <i>Expert Opinion on Drug Delivery</i> , 2015, 12, 1351-1374.	2.4	53
32	The physical state of lipid nanoparticles influences their effect on in vitro cell viability. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 79, 150-161.	2.0	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. <i>International Journal of Pharmaceutics</i> , 2001, 225, 97-111.	2.6	49
34	Process control and scale-up of modified bacterial cellulose production for tailor-made anti-inflammatory drug delivery systems. <i>Carbohydrate Polymers</i> , 2020, 236, 116062.	5.1	49
35	Bacterial nanocellulose: the future of controlled drug delivery?. <i>Therapeutic Delivery</i> , 2017, 8, 753-761.	1.2	47
36	Comprehensive analysis of the in vitro and ex ovo hemocompatibility of surface engineered iron oxide nanoparticles for biomedical applications. <i>Archives of Toxicology</i> , 2017, 91, 3271-3286.	1.9	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. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 131, 120-129.	2.0	42
38	Histochemical characterization of primary capillary endothelial cells from porcine brains using monoclonal antibodies and fluorescein isothiocyanate-labelled lectins: implications for drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2001, 52, 1-11.	2.0	40
39	Bacterial nanocellulose with a shape-memory effect as potential drug delivery system. <i>RSC Advances</i> , 2014, 4, 57173-57184.	1.7	37
40	Biotech nanocellulose: A review on progress in product design and today's state of technical and medical applications. <i>Carbohydrate Polymers</i> , 2021, 254, 117313.	5.1	33
41	Mitoxantrone-loaded zeolite beta nanoparticles: Preparation, physico-chemical characterization and biological evaluation. <i>Journal of Colloid and Interface Science</i> , 2012, 365, 33-40.	5.0	30
42	Dextran-graft-linear poly(ethylene imine)s for gene delivery: Importance of the linking strategy. <i>Carbohydrate Polymers</i> , 2014, 113, 597-606.	5.1	29
43	A Novel Computerized Cell Count Algorithm for Biofilm Analysis. <i>PLoS ONE</i> , 2016, 11, e0154937.	1.1	29
44	Recent developments and perspectives on gene therapy using synthetic vectors. <i>Therapeutic Delivery</i> , 2013, 4, 95-113.	1.2	28
45	Loading of bacterial nanocellulose hydrogels with proteins using a high-speed technique. <i>Carbohydrate Polymers</i> , 2014, 106, 410-413.	5.1	26
46	The acylphloroglucinols hyperforin and myrtucommulone A cause mitochondrial dysfunctions in leukemic cells by direct interference with mitochondria. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2015, 20, 1508-1517.	2.2	26
47	Fungal Biosurfactants from <i>Mortierella alpina</i> . <i>Organic Letters</i> , 2019, 21, 1444-1448.	2.4	26
48	Estimating extra length of stay due to healthcare-associated infections before and after implementation of a hospital-wide infection control program. <i>PLoS ONE</i> , 2019, 14, e0217159.	1.1	23
49	Immobilization of plasmids in bacterial nanocellulose as gene activated matrix. <i>Carbohydrate Polymers</i> , 2019, 209, 62-73.	5.1	23
50	Polyelectrolyte layer assembly of bacterial nanocellulose whiskers with plasmid DNA as biocompatible non-viral gene delivery system. <i>Cellulose</i> , 2018, 25, 1939-1960.	2.4	21
51	Improving colloidal stability of silica nanoparticles when stored in responsive gel: application and toxicity study. <i>Nanotoxicology</i> , 2018, 12, 407-422.	1.6	21
52	Polysaccharide Nanoparticles Bearing HDAC Inhibitor as Nontoxic Nanocarrier for Drug Delivery. <i>Macromolecular Bioscience</i> , 2020, 20, 2000039.	2.1	21
53	A Novel Method for the Assessment of Targeted PEI-Based Nanoparticle Binding Based on a Static Surface Plasmon Resonance System. <i>Analytical Chemistry</i> , 2014, 86, 6827-6835.	3.2	19
54	Cyrene as an Alternative Sustainable Solvent for the Preparation of Poly(lactic-co-glycolic acid) Nanoparticles. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 959-964.	1.6	19

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55	Sustainable preparation of anti-inflammatory atorvastatin PLGA nanoparticles. <i>International Journal of Pharmaceutics</i> , 2021, 599, 120404.	2.6	19
56	Anti-inflammatory celastrol promotes a switch from leukotriene biosynthesis to formation of specialized pro-resolving lipid mediators. <i>Pharmacological Research</i> , 2021, 167, 105556.	3.1	19
57	Amino Acid-Substituted Dextran-Based Non-Viral Vectors for Gene Delivery. <i>Macromolecular Bioscience</i> , 2019, 19, e1900085.	2.1	18
58	Development and characterization of bacterial nanocellulose loaded with <i>Boswellia serrata</i> extract containing nanoemulsions as natural dressing for skin diseases. <i>International Journal of Pharmaceutics</i> , 2020, 587, 119635.	2.6	18
59	Simulation of the long-term fate of superparamagnetic iron oxide-based nanoparticles using simulated biological fluids. <i>Nanomedicine</i> , 2019, 14, 1681-1706.	1.7	17
60	Suitability of Viability Assays for Testing Biological Effects of Coated Superparamagnetic Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 383-388.	1.2	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. <i>Nanoscale</i> , 2021, 13, 9415-9435.	2.8	16
62	Biocompatible sulfated valproic acid-coupled polysaccharide-based nanocarriers with HDAC inhibitory activity. <i>Journal of Controlled Release</i> , 2021, 329, 717-730.	4.8	15
63	3D screen printing – An innovative technology for large-scale manufacturing of pharmaceutical dosage forms. <i>International Journal of Pharmaceutics</i> , 2021, 592, 120096.	2.6	14
64	Staurosporine-induced apoptosis in cultured chick embryonic neurons is reduced by polyethylenimine of low molecular weight used as a coating substrate. <i>Neuroscience Research</i> , 2000, 37, 245-253.	1.0	13
65	Targeted Delivery of Complexes of Biotin-PEG-Polyethylenimine and NF- $\kappa$ B Decoys to Brain-derived Endothelial Cells in Vitro. <i>Pharmaceutical Research</i> , 2008, 25, 605-615.	1.7	13
66	Star-Shaped Block Copolymers by Copper-Catalyzed Azide-Alkyne Cycloaddition for Potential Drug Delivery Applications. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 2146-2156.	1.1	13
67	Optical detection of nanoparticle agglomeration in a living system under the influence of a magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 380, 61-65.	1.0	12
68	A blue fluorescent labeling technique utilizing micro- and nanoparticles for tracking in LIVE/DEAD-reg; stained pathogenic biofilms of <i>Staphylococcus aureus</i> and <i>Burkholderia cepacia</i> . <i>International Journal of Nanomedicine</i> , 2016, 11, 575.	3.3	12
69	Modified Bacterial Cellulose Dressings to Treat Inflammatory Wounds. <i>Nanomaterials</i> , 2020, 10, 2508.	1.9	12
70	Controlled Release of the $\alpha$ -Tocopherol-Derived Metabolite $\alpha$ -13-Carboxychromanol from Bacterial Nanocellulose Wound Cover Improves Wound Healing. <i>Nanomaterials</i> , 2021, 11, 1939.	1.9	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. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 133, 112-121.	2.0	11
72	The influence of gradient and statistical arrangements of guanidinium or primary amine groups in poly(methacrylate) copolymers on their DNA binding affinity. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5920-5929.	2.9	11

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73	The indirubin derivative 6-bromoindirubin-3- $\beta$ -glycerol-oxime ether (6BIGOE) potently modulates inflammatory cytokine and prostaglandin release from human monocytes through GSK-3 interference. <i>Biochemical Pharmacology</i> , 2020, 180, 114170.	2.0	11
74	Incorporation of Indole Significantly Improves the Transfection Efficiency of Guanidinium-Containing Poly(Methacrylamide)s. <i>Macromolecular Rapid Communications</i> , 2020, 41, e1900668.	2.0	11
75	Overcoming the hydrophilicity of bacterial nanocellulose: Incorporation of the lipophilic coenzyme Q10 using lipid nanocarriers for dermal applications. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 158, 106-112.	2.0	9
76	Elucidating preparation-structure relationships for the morphology evolution during the RAFT dispersion polymerization of <i>N</i> -acryloyl thiomorpholine. <i>Polymer Chemistry</i> , 2021, 12, 1668-1680.	1.9	9
77	Beneficial Modulation of Lipid Mediator Biosynthesis in Innate Immune Cells by Antirheumatic <i>Tripterygium wilfordii</i> Glycosides. <i>Biomolecules</i> , 2021, 11, 746.	1.8	9
78	Drug delivery of 6-bromoindirubin-3- $\beta$ -glycerol-oxime ether employing poly(d,l-lactide-co-glycolide)-based nanoencapsulation techniques with sustainable solvents. <i>Journal of Nanobiotechnology</i> , 2022, 20, 5.	4.2	7
79	Tetraspanin 5 (TSPAN5), a Novel Gatekeeper of the Tumor Suppressor DLC1 and Myocardin-Related Transcription Factors (MRTFs), Controls HCC Growth and Senescence. <i>Cancers</i> , 2021, 13, 5373.	1.7	6
80	Indole, Phenyl, and Phenol Groups: The Role of the Comonomer on Gene Delivery in Guanidinium Containing Methacrylamide Terpolymers. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000580.	2.0	4
81	Distinct endocytosis and immune activation of poly(lactic-co-glycolic) acid nanoparticles prepared by single- and double-emulsion evaporation. <i>Nanomedicine</i> , 2021, 16, 2075-2094.	1.7	4
82	Bacterial nanocellulose: Reinforcement of compressive strength using an adapted Mobile Matrix Reservoir Technology and suitable post-modification strategies. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 125, 104978.	1.5	4
83	A shell-less hen's egg test as infection model to determine the biocompatibility and antimicrobial efficacy of drugs and drug formulations against <i>Pseudomonas aeruginosa</i> . <i>International Journal of Pharmaceutics</i> , 2020, 585, 119557.	2.6	3
84	The Role of Formamidine Groups in Dextran Based Nonviral Vectors for Gene Delivery on Their Physicochemical and Biological Characteristics. <i>Macromolecular Bioscience</i> , 2021, 21, e2000220.	2.1	3
85	PEGylation of Guanidinium and Indole Bearing Poly(methacrylamide)s " Biocompatible Terpolymers for pDNA Delivery. <i>Macromolecular Bioscience</i> , 2021, 21, e2100146.	2.1	3
86	State of the Art: Therapeutical Strategies for the Treatment of Inflammatory Bowel Disease. <i>Current Drug Therapy</i> , 2013, 8, 99-120.	0.2	3
87	Encapsulation of the anti-inflammatory dual FLAP/sEH inhibitor diflapolin improves the efficiency in human whole blood. <i>Journal of Pharmaceutical Sciences</i> , 2021, , .	1.6	1