# Brigitta Loretz

List of Publications by Year
in descending order



| 70 | 2,664 | 168829<br>31 | 223390<br>49 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 74 | 74 | 74 | 4083 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Nanoâ€inâ€Microparticles for Aerosol Delivery of Antibioticâ€Loaded, Fucoseâ€Derivatized, and Macrophageâ€Targeted Liposomes to Combat Mycobacterial Infections: In Vitro Deposition, Pulmonary Barrier Interactions, and Targeted Delivery. Advanced Healthcare Materials, 2022, 11, e2102117. | 3.9 | 11 |
| 2 | Models using native tracheobronchial mucus in the context of pulmonary drug delivery research: Composition, structure and barrier properties. Advanced Drug Delivery Reviews, 2022, 183, 114141. | 6.6 | 17 |
| 3 | Leaky gut model of the human intestinal mucosa for testing siRNA-based nanomedicine targeting JAK1. Journal of Controlled Release, 2022, 345, 646-660. | 4.8 | 10 |
| 4 | Microbiota and cancer: In vitro and in vivo models to evaluate nanomedicines. Advanced Drug Delivery Reviews, 2021, 170, 44-70. | 6.6 | 10 |
| 5 | A pulmonary mucus surrogate for investigating antibiotic permeation and activity against <i>Pseudomonas aeruginosa</i> biofilms. Journal of Antimicrobial Chemotherapy, 2021, 76, 1472-1479. | 1.3 | 7 |
| 6 | A New PqsR Inverse Agonist Potentiates Tobramycin Efficacy to Eradicate <i>Pseudomonas aeruginosa</i> Biofilms. Advanced Science, 2021, 8, e2004369. | 5.6 | 34 |
| 7 | Surfactant-Free Glibenclamide Nanoparticles: Formulation, Characterization and Evaluation of Interactions with Biological Barriers. Pharmaceutical Research, 2021, 38, 1081-1092. | 1.7 | 7 |
| 8 | Spray-dried lactose-leucine microparticles for pulmonary delivery of antimycobacterial nanopharmaceuticals. Drug Delivery and Translational Research, 2021, 11, 1766-1778. | 3.0 | 16 |
| 9 | Drug delivery for fighting infectious diseases: a global perspective. Drug Delivery and Translational Research, 2021, 11, 1316-1322. | 3.0 | 6 |
| 10 | Towards the sustainable discovery and development of new antibiotics. Nature Reviews Chemistry, 2021, 5, 726-749. | 13.8 | 439 |
| 11 | Drug delivery to the inflamed intestinal mucosa â€" targeting technologies and human cell culture models for better therapies of IBD. Advanced Drug Delivery Reviews, 2021, 175, 113828. | 6.6 | 29 |
| 12 | Analysis and Optimization of Two Film-Coated Tablet Production Processes by Computer Simulation: A Case Study. Processes, 2021, 9, 67. | 1.3 | 2 |
| 13 | Systematic Analysis of Composition, Interfacial Performance and Effects of Pulmonary Surfactant Preparations on Cellular Uptake and Cytotoxicity of Aerosolized Nanomaterials. Small Science, 2021, 1, 2100067. | 5.8 | 6 |
| 14 | Co-Delivery of mRNA and pDNA Using Thermally Stabilized Coacervate-Based Core-Shell Nanosystems. Pharmaceutics, 2021, 13, 1924. | 2.0 | 11 |
| 15 | Nanoparticle Targeting to Scalp Hair Follicles: NewÂPerspectives for a Topical Therapy for Alopecia Areata. Journal of Investigative Dermatology, 2020, 140, 243-246.e5. | 0.3 | 7 |
| 16 | Tofacitinib Loaded Squalenyl Nanoparticles for Targeted Follicular Delivery in Inflammatory Skin Diseases. Pharmaceutics, 2020, 12, 1131. | 2.0 | 13 |
| 17 | Itaconic Acid Increases the Efficacy of Tobramycin against Pseudomonas aeruginosa Biofilms. Pharmaceutics, 2020, 12, 691. | 2.0 | 6 |
| 18 | Synthesis and Biopharmaceutical Characterization of Amphiphilic Squalenyl Derivative Based Versatile Drug Delivery Platform. Frontiers in Chemistry, 2020, 8, 584242. | 1.8 | 6 |

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|---|---|---|---|
| 19 | Squalenyl Hydrogen Sulfate Nanoparticles for Simultaneous Delivery of Tobramycin and an Alkylquinolone Quorum Sensing Inhibitor Enable the Eradication of <i>P.â€...aeruginosa</i> Biofilm Infections. Angewandte Chemie - International Edition, 2020, 59, 10292-10296. | 7.2 | 41 |
| 20 | Squalenyl Hydrogen Sulfate Nanoparticles for Simultaneous Delivery of Tobramycin and an Alkylquinolone Quorum Sensing Inhibitor Enable the Eradication of P.â€...aeruginosa Biofilm Infections. Angewandte Chemie, 2020, 132, 10378-10382. | 1.6 | 1 |
| 21 | pH-Dependent morphology and optical properties of lysine-derived molecular biodynamers. Materials Chemistry Frontiers, 2020, 4, 905-909. | 3.2 | 4 |
| 22 | Preferential uptake of chitosan-coated PLGA nanoparticles by primary human antigen presenting cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 21, 102073. | 1.7 | 33 |
| 23 | Bioinspired Liposomes for Oral Delivery of Colistin to Combat Intracellular Infections by <i>Salmonella enterica</i>. Advanced Healthcare Materials, 2019, 8, e1900564. | 3.9 | 45 |
| 24 | Macro- and Microrheological Properties of Mucus Surrogates in Comparison to Native Intestinal and Pulmonary Mucus. Biomacromolecules, 2019, 20, 3504-3512. | 2.6 | 45 |
| 25 | Challenges and strategies in drug delivery systems for treatment of pulmonary infections. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 144, 110-124. | 2.0 | 95 |
| 26 | Polysaccharide Submicrocarrier for Improved Pulmonary Delivery of Poorly Soluble Anti-infective Ciprofloxacin: Preparation, Characterization, and Influence of Size on Cellular Uptake. Molecular Pharmaceutics, 2018, 15, 1081-1096. | 2.3 | 19 |
| 27 | A miRNA181a/NFAT5 axis links impaired T cell tolerance induction with autoimmune type 1 diabetes. Science Translational Medicine, 2018, 10, . | 5.8 | 49 |
| 28 | The role of mucus on drug transport and its potential to affect therapeutic outcomes. Advanced Drug Delivery Reviews, 2018, 124, 82-97. | 6.6 | 218 |
| 29 | Chemically modified hCFTR mRNAs recuperate lung function in a mouse model of cystic fibrosis. Scientific Reports, 2018, 8, 16776. | 1.6 | 59 |
| 30 | Kinetics of mRNA delivery and protein translation in dendritic cells using lipid-coated PLGA nanoparticles. Journal of Nanobiotechnology, 2018, 16, 72. | 4.2 | 49 |
| 31 | Can lifecycle management safeguard innovation in the pharmaceutical industry?. Drug Discovery Today, 2018, 23, 1962-1973. | 3.2 | 7 |
| 32 | Starch-Chitosan Polyplexes: A Versatile Carrier System for Anti-Infectives and Gene Delivery. Polymers, 2018, 10, 252. | 2.0 | 32 |
| 33 | Farnesylated Glycol Chitosan as a Platform for Drug Delivery: Synthesis, Characterization, and Investigation of Mucusâ€"Particle Interactions. Biomacromolecules, 2018, 19, 3489-3501. | 2.6 | 33 |
| 34 | Co-culture of human alveolar epithelial (hAELVi) and macrophage (THP-1) cell lines. ALTEX: Alternatives To Animal Experimentation, 2018, 35, 211-222. | 0.9 | 55 |
| 35 | Barriers and motivations for non-invasive drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 118, 1-2. | 2.0 | 0 |
| 36 | Modelling the bronchial barrier in pulmonary drug delivery: A human bronchial epithelial cell line supplemented with human tracheal mucus. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 118, 79-88. | 2.0 | 29 |

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|---|---|---|---|
| 37 | Biodegradable starch derivatives with tunable charge densityâ€”synthesis, characterization, and transfection efficiency. Drug Delivery and Translational Research, 2017, 7, 252-258. | 3.0 | 8 |
| 38 | Self-Assembly and Shape Control of Hybrid Nanocarriers Based on Calcium Carbonate and Carbon Nanodots. Chemistry of Materials, 2016, 28, 3796-3803. | 3.2 | 18 |
| 39 | miRNA92a targets KLF2 and the phosphatase PTEN signaling to promote human T follicular helper precursors in T1D islet autoimmunity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6659-E6668. | 3.3 | 50 |
| 40 | Design of Polyamine-Grafted Starches for Nucleotide Analogue Delivery: In Vitro Evaluation of the Anticancer Activity. Bioconjugate Chemistry, 2016, 27, 2431-2440. | 1.8 | 10 |
| 41 | Preparation of nanosized coacervates of positive and negative starch derivatives intended for pulmonary delivery of proteins. Journal of Materials Chemistry B, 2016, 4, 2377-2386. | 2.9 | 28 |
| 42 | Calcium Phosphate System for Gene Delivery: Historical Background and Emerging Opportunities. Current Pharmaceutical Design, 2016, 22, 1529-1533. | 0.9 | 32 |
| 43 | In vivo genome editing using nuclease-encoding mRNA corrects SP-B deficiency. Nature Biotechnology, 2015, 33, 584-586. | 9.4 | 113 |
| 44 | Dimethylaminoethyl methacrylate copolymer-siRNA nanoparticles for silencing a therapeutically relevant gene in macrophages. MedChemComm, 2015, 6, 691-701. | 3.5 | 10 |
| 45 | P-glycoprotein interactions of novel psychoactive substances â€“ Stimulation of ATP consumption and transport across Caco-2 monolayers. Biochemical Pharmacology, 2015, 94, 220-226. | 2.0 | 27 |
| 46 | Squalenoylation of Chitosan: A Platform for Drug Delivery?. Biomacromolecules, 2015, 16, 2930-2939. | 2.6 | 28 |
| 47 | Transfection System of Amino-Functionalized Calcium Phosphate Nanoparticles: In Vitro Efficacy, Biodegradability, and Immunogenicity Study. ACS Applied Materials & Interfaces, 2015, 7, 5124-5133. | 4.0 | 22 |
| 48 | Biological barriers â€“ Advanced drug delivery, in vitro modelling, and their implications for infection research. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 95, 1-2. | 2.0 | 2 |
| 49 | Polyester-idarubicin nanoparticles and a polymer-photosensitizer complex as potential drug formulations for cell-mediated drug delivery. International Journal of Pharmaceutics, 2014, 474, 70-79. | 2.6 | 10 |
| 50 | Design of Starch-<i>graft</i>-PEI Polymers: An Effective and Biodegradable Gene Delivery Platform. Biomacromolecules, 2014, 15, 1753-1761. | 2.6 | 56 |
| 51 | One-Step Synthesis of Nanosized and Stable Amino-Functionalized Calcium Phosphate Particles for DNA Transfection. Chemistry of Materials, 2013, 25, 3667-3674. | 3.2 | 32 |
| 52 | Crossing biological barriers for advanced drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 84, 239-241. | 2.0 | 19 |
| 53 | Cellular delivery of polynucleotides by cationic cyclodextrin polyrotaxanes. Journal of Controlled Release, 2012, 164, 387-393. | 4.8 | 38 |
| 54 | A Hydrophobic Starch Polymer for Nanoparticleâ€Mediated Delivery of Docetaxel. Macromolecular Bioscience, 2012, 12, 184-194. | 2.1 | 55 |

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|---|---|---|---|
| 55 | Tissue slice model of human lung cancer to investigate telomerase inhibition by nanoparticle delivery of antisense 2â€²-O-methyl-RNA. International Journal of Pharmaceutics, 2011, 419, 33-42. | 2.6 | 28 |
| 56 | Enhanced cellular delivery of idarubicin by surface modification of propyl starch nanoparticles employing pteroic acid conjugated polyvinyl alcohol. International Journal of Pharmaceutics, 2011, 420, 147-155. | 2.6 | 38 |
| 57 | Pectin-cysteine conjugate: synthesis and in-vitro evaluation of its potential for drug delivery. Journal of Pharmacy and Pharmacology, 2010, 58, 1601-1610. | 1.2 | 44 |
| 58 | Thiolated chitosan nanoparticles: transfection study in the Caco-2 differentiated cell culture. Nanotechnology, 2008, 19, 045101. | 1.3 | 41 |
| 59 | Design and Evaluation of a New Gastrointestinal Mucoadhesive Patch System Containing Chitosan-Glutathione. Drug Development and Industrial Pharmacy, 2007, 33, 1289-1296. | 0.9 | 7 |
| 60 | Design and evaluation of a chitosanâ€“aprotinin conjugate for the peroral delivery of therapeutic peptides and proteins susceptible to enzymatic degradation. Journal of Drug Targeting, 2007, 15, 327-333. | 2.1 | 26 |
| 61 | Thiolated polymers: Evaluation of the influence of the amount of covalently attached l-cysteine to poly(acrylic acid). European Journal of Pharmaceutics and Biopharmaceutics, 2007, 66, 405-412. | 2.0 | 32 |
| 62 | Enhanced transport of P-glycoprotein substrate saquinavir in presence of thiolated chitosan. Journal of Drug Targeting, 2007, 15, 132-139. | 2.1 | 27 |
| 63 | <i>In vitro</i>cytotoxicity testing of non-thiolated and thiolated chitosan nanoparticles for oral gene delivery. Nanotoxicology, 2007, 1, 139-148. | 1.6 | 36 |
| 64 | Role of Sulfhydryl Groups in Transfection? A Case Study with Chitosanâˆ’NAC Nanoparticles. Bioconjugate Chemistry, 2007, 18, 1028-1035. | 1.8 | 47 |
| 65 | Chitosanâ€“thioglycolic acid conjugate: An alternative carrier for oral nonviral gene delivery?. Journal of Biomedical Materials Research - Part A, 2007, 82A, 1-9. | 2.1 | 73 |
| 66 | Development and in vitro evaluation of a thiomer-based nanoparticulate gene delivery system. Biomaterials, 2007, 28, 524-531. | 5.7 | 80 |
| 67 | Oral gene delivery: Strategies to improve stability of pDNA towards intestinal digestion. Journal of Drug Targeting, 2006, 14, 311-319. | 2.1 | 46 |
| 68 | In vitro evaluation of chitosan-EDTA conjugate polyplexes as a nanoparticulate gene delivery system. AAPS Journal, 2006, 8, E756-E764. | 2.2 | 37 |
| 69 | Inhibition of malarial topoisomerase II in Plasmodium falciparum by antisense nanoparticles. International Journal of Pharmaceutics, 2006, 319, 139-146. | 2.6 | 54 |
| 70 | Oral gene delivery: Design of polymeric carrier systems shielding toward intestinal enzymatic attack. Biopolymers, 2006, 83, 327-336. | 1.2 | 33 |