

Claus-Michael Lehr

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5202908/publications.pdf>

Version: 2024-02-01

403
papers

24,692
citations

5782

84
h-index

12638

137
g-index

421
all docs

421
docs citations

421
times ranked

26886
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | An Outer Membrane Vesicle-Based Permeation Assay (OMPA) for Assessing Bacterial Bioavailability. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101180. | 3.9 | 3 |
| 2 | Yields and Immunomodulatory Effects of Pneumococcal Membrane Vesicles Differ with the Bacterial Growth Phase. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101151. | 3.9 | 12 |
| 3 | Exploring the permeation of fluoroquinolone metalloantibiotics across outer membrane porins by combining molecular dynamics simulations and a porin-mimetic in vitro model. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183838. | 1.4 | 2 |
| 4 | Targeting extracellular lectins of <i>Pseudomonas aeruginosa</i> with glycomimetic liposomes. <i>Journal of Materials Chemistry B</i> , 2022, 10, 537-548. | 2.9 | 5 |
| 5 | Nano-Microparticles for Aerosol Delivery of Antibiotic-Loaded, Fucose-Derivatized, and Macrophage-Targeted Liposomes to Combat Mycobacterial Infections: In Vitro Deposition, Pulmonary Barrier Interactions, and Targeted Delivery. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102117. | 3.9 | 11 |
| 6 | Models using native tracheobronchial mucus in the context of pulmonary drug delivery research: Composition, structure and barrier properties. <i>Advanced Drug Delivery Reviews</i> , 2022, 183, 114141. | 6.6 | 17 |
| 7 | Leaky gut model of the human intestinal mucosa for testing siRNA-based nanomedicine targeting JAK1. <i>Journal of Controlled Release</i> , 2022, 345, 646-660. | 4.8 | 10 |
| 8 | Transferring Microclusters of <i>P. aeruginosa</i> Biofilms to the Air-Liquid Interface of Bronchial Epithelial Cells for Repeated Deposition of Aerosolized Tobramycin. <i>ACS Infectious Diseases</i> , 2022, 8, 137-149. | 1.8 | 8 |
| 9 | In vitro tools for orally inhaled drug products—state of the art for their application in pharmaceutical research and industry and regulatory challenges. <i>In Vitro Models</i> , 2022, 1, 29-40. | 1.0 | 0 |
| 10 | Gentamicin nanogel films based on Carrageenan-Prosopis africana for improved wound healing. <i>Precision Nanomedicine</i> , 2022, 5, . | 0.4 | 1 |
| 11 | Spray-dried pneumococcal membrane vesicles are promising candidates for pulmonary immunization. <i>International Journal of Pharmaceutics</i> , 2022, 621, 121794. | 2.6 | 6 |
| 12 | Decoding (patho-)physiology of the lung by advanced in vitro models for developing novel anti-infectives therapies. <i>Drug Discovery Today</i> , 2021, 26, 148-163. | 3.2 | 6 |
| 13 | Development and evaluation of a quality control system based on transdermal electrical resistance for skin barrier function in vitro. <i>Skin Research and Technology</i> , 2021, 27, 668-675. | 0.8 | 1 |
| 14 | Second-generation lung-on-a-chip with an array of stretchable alveoli made with a biological membrane. <i>Communications Biology</i> , 2021, 4, 168. | 2.0 | 161 |
| 15 | Microbiota and cancer: In vitro and in vivo models to evaluate nanomedicines. <i>Advanced Drug Delivery Reviews</i> , 2021, 170, 44-70. | 6.6 | 10 |
| 16 | Formulation and evaluation of transdermal nanogel for delivery of artemether. <i>Drug Delivery and Translational Research</i> , 2021, 11, 1655-1674. | 3.0 | 21 |
| 17 | A pulmonary mucus surrogate for investigating antibiotic permeation and activity against <i>Pseudomonas aeruginosa</i> biofilms. <i>Journal of Antimicrobial Chemotherapy</i> , 2021, 76, 1472-1479. | 1.3 | 7 |
| 18 | A New PqsR Inverse Agonist Potentiates Tobramycin Efficacy to Eradicate <i>Pseudomonas aeruginosa</i> Biofilms. <i>Advanced Science</i> , 2021, 8, e2004369. | 5.6 | 34 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | A Custom-Made Device for Reproducibly Depositing Pre-metered Doses of Nebulized Drugs on Pulmonary Cells in vitro. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 643491. | 2.0 | 11 |
| 20 | Mastering the Gram-negative bacterial barrier – Chemical approaches to increase bacterial bioavailability of antibiotics. <i>Advanced Drug Delivery Reviews</i> , 2021, 172, 339-360. | 6.6 | 42 |
| 21 | Testing of aerosolized ciprofloxacin nanocarriers on cystic fibrosis airway cells infected with <i>P. aeruginosa</i> biofilms. <i>Drug Delivery and Translational Research</i> , 2021, 11, 1752-1765. | 3.0 | 15 |
| 22 | Tobramycin Liquid Crystal Nanoparticles Eradicate Cystic Fibrosis-Related <i>Pseudomonas aeruginosa</i> Biofilms. <i>Small</i> , 2021, 17, e2100531. | 5.2 | 37 |
| 23 | Surfactant-Free Glibenclamide Nanoparticles: Formulation, Characterization and Evaluation of Interactions with Biological Barriers. <i>Pharmaceutical Research</i> , 2021, 38, 1081-1092. | 1.7 | 7 |
| 24 | Towards More Predictive, Physiological and Animal-free <i>In Vitro</i> Models: Advances in Cell and Tissue Culture 2020 Conference Proceedings. <i>ATLA Alternatives To Laboratory Animals</i> , 2021, 49, 93-110. | 0.7 | 6 |
| 25 | Extracellular vesicles as novel assay tools to study cellular interactions of anti-infective compounds – A perspective. <i>Advanced Drug Delivery Reviews</i> , 2021, 173, 492-503. | 6.6 | 6 |
| 26 | Spray-dried lactose-leucine microparticles for pulmonary delivery of antimycobacterial nanopharmaeuticals. <i>Drug Delivery and Translational Research</i> , 2021, 11, 1766-1778. | 3.0 | 16 |
| 27 | Extracellular vesicles as antigen carriers for novel vaccination avenues. <i>Advanced Drug Delivery Reviews</i> , 2021, 173, 164-180. | 6.6 | 49 |
| 28 | Drug delivery for fighting infectious diseases: a global perspective. <i>Drug Delivery and Translational Research</i> , 2021, 11, 1316-1322. | 3.0 | 6 |
| 29 | Towards the sustainable discovery and development of new antibiotics. <i>Nature Reviews Chemistry</i> , 2021, 5, 726-749. | 13.8 | 439 |
| 30 | Drug delivery to the inflamed intestinal mucosa – targeting technologies and human cell culture models for better therapies of IBD. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113828. | 6.6 | 29 |
| 31 | Pulmonary in vitro instruments for the replacement of animal experiments. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 168, 62-75. | 2.0 | 5 |
| 32 | PerfuPul – A Versatile Perfusable Platform to Assess Permeability and Barrier Function of Air Exposed Pulmonary Epithelia. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 743236. | 2.0 | 9 |
| 33 | Human Skin Permeation Enhancement Using PLGA Nanoparticles Is Mediated by Local pH Changes. <i>Pharmaceutics</i> , 2021, 13, 1608. | 2.0 | 9 |
| 34 | Analysis and Optimization of Two Film-Coated Tablet Production Processes by Computer Simulation: A Case Study. <i>Processes</i> , 2021, 9, 67. | 1.3 | 2 |
| 35 | Systematic Analysis of Composition, Interfacial Performance and Effects of Pulmonary Surfactant Preparations on Cellular Uptake and Cytotoxicity of Aerosolized Nanomaterials. <i>Small Science</i> , 2021, 1, 2100067. | 5.8 | 6 |
| 36 | Co-Delivery of mRNA and pDNA Using Thermally Stabilized Coacervate-Based Core-Shell Nanosystems. <i>Pharmaceutics</i> , 2021, 13, 1924. | 2.0 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Nanoparticle Targeting to Scalp Hair Follicles: New Perspectives for a Topical Therapy for Alopecia Areata. <i>Journal of Investigative Dermatology</i> , 2020, 140, 243-246.e5. | 0.3 | 7 |
| 38 | PLGA nanocapsules improve the delivery of clarithromycin to kill intracellular <i>Staphylococcus aureus</i> and <i>Mycobacterium abscessus</i> . <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 24, 102125. | 1.7 | 26 |
| 39 | Micro-rheological properties of lung homogenates correlate with infection severity in a mouse model of <i>Pseudomonas aeruginosa</i> lung infection. <i>Scientific Reports</i> , 2020, 10, 16502. | 1.6 | 17 |
| 40 | Towards a Continuous Manufacturing Process of Protein-Loaded Polymeric Nanoparticle Powders. <i>AAPS PharmSciTech</i> , 2020, 21, 269. | 1.5 | 5 |
| 41 | Coupling quaternary ammonium surfactants to the surface of liposomes improves both antibacterial efficacy and host cell biocompatibility. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 149, 12-20. | 2.0 | 19 |
| 42 | Tofacitinib Loaded Squalenyl Nanoparticles for Targeted Follicular Delivery in Inflammatory Skin Diseases. <i>Pharmaceutics</i> , 2020, 12, 1131. | 2.0 | 13 |
| 43 | Itaconic Acid Increases the Efficacy of Tobramycin against <i>Pseudomonas aeruginosa</i> Biofilms. <i>Pharmaceutics</i> , 2020, 12, 691. | 2.0 | 6 |
| 44 | Synthesis and Biopharmaceutical Characterization of Amphiphilic Squalenyl Derivative Based Versatile Drug Delivery Platform. <i>Frontiers in Chemistry</i> , 2020, 8, 584242. | 1.8 | 6 |
| 45 | Spray-dried multidrug particles for pulmonary co-delivery of antibiotics with N-acetylcysteine and curcumin-loaded PLGA-nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 157, 200-210. | 2.0 | 27 |
| 46 | Disease Models: Lung Models for Testing Drugs Against Inflammation and Infection. <i>Handbook of Experimental Pharmacology</i> , 2020, 265, 157-186. | 0.9 | 5 |
| 47 | Tobacco Smoke and Inhaled Drugs Alter Expression and Activity of Multidrug Resistance-Associated Protein-1 (MRP1) in Human Distal Lung Epithelial Cells in vitro. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 1030. | 2.0 | 12 |
| 48 | A hydrogel-based in vitro assay for the fast prediction of antibiotic accumulation in Gram-negative bacteria. <i>Materials Today Bio</i> , 2020, 8, 100084. | 2.6 | 10 |
| 49 | Squalenyl Hydrogen Sulfate Nanoparticles for Simultaneous Delivery of Tobramycin and an Alkylquinolone Quorum Sensing Inhibitor Enable the Eradication of <i>P. aeruginosa</i> Biofilm Infections. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10292-10296. | 7.2 | 41 |
| 50 | Streptococcal Extracellular Membrane Vesicles Are Rapidly Internalized by Immune Cells and Alter Their Cytokine Release. <i>Frontiers in Immunology</i> , 2020, 11, 80. | 2.2 | 64 |
| 51 | Advancing human in vitro pulmonary disease models in preclinical research: opportunities for lung-on-chips. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 621-625. | 2.4 | 19 |
| 52 | Squalenyl Hydrogen Sulfate Nanoparticles for Simultaneous Delivery of Tobramycin and an Alkylquinolone Quorum Sensing Inhibitor Enable the Eradication of <i>P. aeruginosa</i> Biofilm Infections. <i>Angewandte Chemie</i> , 2020, 132, 10378-10382. | 1.6 | 1 |
| 53 | <i>P. aeruginosa</i> ; Infected 3D Co-Culture of Bronchial Epithelial Cells and Macrophages at Air-Liquid Interface for Preclinical Evaluation of Anti-Infectives. <i>Journal of Visualized Experiments</i> , 2020, , . | 0.2 | 18 |
| 54 | pH-Dependent morphology and optical properties of lysine-derived molecular biodynamers. <i>Materials Chemistry Frontiers</i> , 2020, 4, 905-909. | 3.2 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Titelbild: Squalenyl Hydrogen Sulfate Nanoparticles for Simultaneous Delivery of Tobramycin and an Alkylquinolone Quorum Sensing Inhibitor Enable the Eradication of <i>P. aeruginosa</i> Biofilm Infections (Angew. Chem. 26/2020). Angewandte Chemie, 2020, 132, 10285-10285. | 1.6 | 0 |
| 56 | Design and in vitro characterization of multistage silicon-PLGA budesonide particles for inflammatory bowel disease. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 151, 61-72. | 2.0 | 17 |
| 57 | Modulating the Barrier Function of Human Alveolar Epithelial (hAELVi) Cell Monolayers as a Model of Inflammation. ATLA Alternatives To Laboratory Animals, 2020, 48, 252-267. | 0.7 | 8 |
| 58 | Safety assessment of excipients (SAFE) for orally inhaled drug products. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 275-286. | 0.9 | 7 |
| 59 | OCTN2-Mediated Acetyl-L-Carnitine Transport in Human Pulmonary Epithelial Cells In Vitro. Pharmaceutics, 2019, 11, 396. | 2.0 | 11 |
| 60 | Preferential uptake of chitosan-coated PLGA nanoparticles by primary human antigen presenting cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 21, 102073. | 1.7 | 33 |
| 61 | 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. | 4.8 | 33 |
| 62 | 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 |
| 63 | Capturing the Onset of Bacterial Pulmonary Infection in Acini-on-Chips. Advanced Biology, 2019, 3, e1900026. | 3.0 | 30 |
| 64 | Macro- and Microrheological Properties of Mucus Surrogates in Comparison to Native Intestinal and Pulmonary Mucus. Biomacromolecules, 2019, 20, 3504-3512. | 2.6 | 45 |
| 65 | 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 |
| 66 | Advanced in vitro lung-on-chip platforms for inhalation assays: From prospect to pipeline. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 144, 11-17. | 2.0 | 53 |
| 67 | Cellular and Non-cellular Barriers to Particle Transport Across the Lungs. Nanoscience and Technology, 2019, , 171-189. | 1.5 | 0 |
| 68 | Triple co-culture of human alveolar epithelium, endothelium and macrophages for studying the interaction of nanocarriers with the air-blood barrier. Acta Biomaterialia, 2019, 91, 235-247. | 4.1 | 48 |
| 69 | Preparation, characterisation and in vitro antibacterial property of ciprofloxacin-loaded nanostructured lipid carrier for treatment of <i>Bacillus subtilis</i> infection. Journal of Microencapsulation, 2019, 36, 32-42. | 1.2 | 4 |
| 70 | The synergistic effect of chlorotoxin-mApoE in boosting drug-loaded liposomes across the BBB. Journal of Nanobiotechnology, 2019, 17, 115. | 4.2 | 20 |
| 71 | Vibrational spectroscopic imaging and live cell video microscopy for studying differentiation of primary human alveolar epithelial cells. Journal of Biophotonics, 2019, 12, e201800052. | 1.1 | 6 |
| 72 | Aspherical and Spherical InvA497-Functionalized Nanocarriers for Intracellular Delivery of Anti-Infective Agents. Pharmaceutical Research, 2019, 36, 22. | 1.7 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Lung-on-a-chip with a biological, stretchable membrane: New generation of in-vitro air-blood barrier model. , 2019, , . | | 0 |
| 74 | 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 |
| 75 | A miRNA181a/NFAT5 axis links impaired T cell tolerance induction with autoimmune type 1 diabetes. Science Translational Medicine, 2018, 10, . | 5.8 | 49 |
| 76 | 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 |
| 77 | Murine Alveolar Epithelial Cells and Their Lentivirus-mediated Immortalisation. ATLA Alternatives To Laboratory Animals, 2018, 46, 73-89. | 0.7 | 0 |
| 78 | Chemically modified hCFTR mRNAs recuperate lung function in a mouse model of cystic fibrosis. Scientific Reports, 2018, 8, 16776. | 1.6 | 59 |
| 79 | Human airway mucus alters susceptibility of Pseudomonas aeruginosa biofilms to tobramycin, but not colistin. Journal of Antimicrobial Chemotherapy, 2018, 73, 2762-2769. | 1.3 | 39 |
| 80 | Kinetics of mRNA delivery and protein translation in dendritic cells using lipid-coated PLGA nanoparticles. Journal of Nanobiotechnology, 2018, 16, 72. | 4.2 | 49 |
| 81 | Medium throughput breathing human primary cell alveolus-on-chip model. Scientific Reports, 2018, 8, 14359. | 1.6 | 132 |
| 82 | Can lifecycle management safeguard innovation in the pharmaceutical industry?. Drug Discovery Today, 2018, 23, 1962-1973. | 3.2 | 7 |
| 83 | Extracellular vesicles protect glucuronidase model enzymes during freeze-drying. Scientific Reports, 2018, 8, 12377. | 1.6 | 65 |
| 84 | Combining MucilAirâ„¢ and Vitrocellâ„¢ Powder Chamber for the In Vitro Evaluation of Nasal Ointments in the Context of Aerosolized Pollen. Pharmaceutics, 2018, 10, 56. | 2.0 | 12 |
| 85 | Starch-Chitosan Polyplexes: A Versatile Carrier System for Anti-Infectives and Gene Delivery. Polymers, 2018, 10, 252. | 2.0 | 32 |
| 86 | 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 |
| 87 | <i>In Vitro</i> Model of the Gram-Negative Bacterial Cell Envelope for Investigation of Anti-Infective Permeation Kinetics. ACS Infectious Diseases, 2018, 4, 1188-1196. | 1.8 | 20 |
| 88 | Towards Standardized Dissolution Techniques for In Vitro Performance Testing of Dry Powder Inhalers. Dissolution Technologies, 2018, 25, 6-18. | 0.2 | 20 |
| 89 | 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 |
| 90 | A Model for the Transient Subdiffusive Behavior of Particles in Mucus. Biophysical Journal, 2017, 112, 172-179. | 0.2 | 25 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Cell and tissue-based in vitro models for improving the development of oral inhalation drug products. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 118, 73-78. | 2.0 | 22 |
| 92 | Barriers and motivations for non-invasive drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 118, 1-2. | 2.0 | 0 |
| 93 | Expression and Activity of Breast Cancer Resistance Protein (BCRP/ABCG2) in Human Distal Lung Epithelial Cells In Vitro. <i>Pharmaceutical Research</i> , 2017, 34, 2477-2487. | 1.7 | 16 |
| 94 | Basic Mathematics in Skin Absorption. , 2017, , 3-25. | | 2 |
| 95 | Nanoencapsulation of a glucocorticoid improves barrier function and anti-inflammatory effect on monolayers of pulmonary epithelial cell lines. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 119, 1-10. | 2.0 | 7 |
| 96 | Modelling the bronchial barrier in pulmonary drug delivery: A human bronchial epithelial cell line supplemented with human tracheal mucus. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 118, 79-88. | 2.0 | 29 |
| 97 | A foam model highlights the differences of the macro- and microrheology of respiratory horse mucus. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 71, 216-222. | 1.5 | 13 |
| 98 | Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017, 11, 2313-2381. | 7.3 | 976 |
| 99 | Targeted delivery of Cyclosporine A by polymeric nanocarriers improves the therapy of inflammatory bowel disease in a relevant mouse model. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 119, 361-371. | 2.0 | 30 |
| 100 | Tracing molecular and structural changes upon mucolysis with N-acetyl cysteine in human airway mucus. <i>International Journal of Pharmaceutics</i> , 2017, 533, 373-376. | 2.6 | 23 |
| 101 | Biodegradable starch derivatives with tunable charge densityâ€”synthesis, characterization, and transfection efficiency. <i>Drug Delivery and Translational Research</i> , 2017, 7, 252-258. | 3.0 | 8 |
| 102 | Calcifediol-loaded liposomes for local treatment of pulmonary bacterial infections. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 118, 62-67. | 2.0 | 22 |
| 103 | The breathing lung-on-chip model for routine laboratory application. <i>Toxicology Letters</i> , 2017, 280, S272. | 0.4 | 0 |
| 104 | Lung alveoli array-on-chip with a bioartificial membrane. <i>Toxicology Letters</i> , 2017, 280, S277. | 0.4 | 1 |
| 105 | Ciprofloxacin-loaded PLGA nanoparticles against cystic fibrosis <i>P. aeruginosa</i> lung infections. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 117, 363-371. | 2.0 | 100 |
| 106 | Human Native and Reconstructed Skin Preparations for In Vitro Penetration and Permeation Studies. , 2017, , 185-203. | | 0 |
| 107 | Exploring the susceptibility of <i>P. aeruginosa</i> biofilms in human mucus towards tobramycin treatment. , 2017, , . | | 0 |
| 108 | A 3D co-culture of three human cell lines to model the inflamed intestinal mucosa for safety testing of nanomaterials. <i>Nanotoxicology</i> , 2016, 10, 1-10. | 1.6 | 80 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Sustained-release liquisolid compact tablets containing artemether-lumefantrine as alternate-day regimen for malaria treatment to improve patient compliance. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 6365-6378. | 3.3 | 8 |
| 110 | Autologous Co-culture of Primary Human Alveolar Macrophages and Epithelial Cells for Investigating Aerosol Medicines. Part I: Model Characterisation. <i>ATLA Alternatives To Laboratory Animals</i> , 2016, 44, 337-347. | 0.7 | 17 |
| 111 | Autologous Co-culture of Primary Human Alveolar Macrophages and Epithelial Cells for Investigating Aerosol Medicines. Part II: Evaluation of IL-10-loaded Microparticles for the Treatment of Lung Inflammation. <i>ATLA Alternatives To Laboratory Animals</i> , 2016, 44, 349-360. | 0.7 | 13 |
| 112 | Penetration of topically applied nanocarriers into the hair follicles of dog and rat dorsal skin and porcine ear skin. <i>Veterinary Dermatology</i> , 2016, 27, 256. | 0.4 | 13 |
| 113 | New Horizons in the Development of Novel Needle-Free Immunization Strategies to Increase Vaccination Efficacy. <i>Current Topics in Microbiology and Immunology</i> , 2016, 398, 207-234. | 0.7 | 16 |
| 114 | IL-17A-mediated expression of epithelial IL-17C promotes inflammation during acute <i>Pseudomonas aeruginosa</i> pneumonia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L1015-L1022. | 1.3 | 38 |
| 115 | Invasin-functionalized liposome nanocarriers improve the intracellular delivery of anti-infective drugs. <i>RSC Advances</i> , 2016, 6, 41622-41629. | 1.7 | 12 |
| 116 | Self-Assembly and Shape Control of Hybrid Nanocarriers Based on Calcium Carbonate and Carbon Nanodots. <i>Chemistry of Materials</i> , 2016, 28, 3796-3803. | 3.2 | 18 |
| 117 | In vitro models for evaluating safety and efficacy of novel technologies for skin drug delivery. <i>Journal of Controlled Release</i> , 2016, 242, 89-104. | 4.8 | 55 |
| 118 | miRNA92a targets KLF2 and the phosphatase PTEN signaling to promote human T follicular helper precursors in T1D islet autoimmunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6659-E6668. | 3.3 | 50 |
| 119 | Different macro- and micro-rheological properties of native porcine respiratory and intestinal mucus. <i>International Journal of Pharmaceutics</i> , 2016, 510, 164-167. | 2.6 | 13 |
| 120 | Design of Polyamine-Grafted Starches for Nucleotide Analogue Delivery: In Vitro Evaluation of the Anticancer Activity. <i>Bioconjugate Chemistry</i> , 2016, 27, 2431-2440. | 1.8 | 10 |
| 121 | The bacterial cell envelope as delimiter of anti-infective bioavailability – An in vitro permeation model of the Gram-negative bacterial inner membrane. <i>Journal of Controlled Release</i> , 2016, 243, 214-224. | 4.8 | 25 |
| 122 | Scope and relevance of a pulmonary biopharmaceutical classification system AAPS/FDA/USP Workshop March 16-17th, 2015 in Baltimore, MD. <i>AAPS Open</i> , 2016, 2, . | 0.4 | 73 |
| 123 | Impact of PEG and PEG- b -PAGE modified PLGA on nanoparticle formation, protein loading and release. <i>International Journal of Pharmaceutics</i> , 2016, 500, 187-195. | 2.6 | 36 |
| 124 | Tight junctions form a barrier in porcine hair follicles. <i>European Journal of Cell Biology</i> , 2016, 95, 89-99. | 1.6 | 20 |
| 125 | Influence of agglomeration and specific lung lining lipid/protein interaction on short-term inhalation toxicity. <i>Nanotoxicology</i> , 2016, 10, 970-980. | 1.6 | 55 |
| 126 | Size-Limited Penetration of Nanoparticles into Porcine Respiratory Mucus after Aerosol Deposition. <i>Biomacromolecules</i> , 2016, 17, 1536-1542. | 2.6 | 114 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Anti-infectives in Drug Deliveryâ€”Overcoming the Gram-Negative Bacterial Cell Envelope. Current Topics in Microbiology and Immunology, 2016, 398, 475-496. | 0.7 | 9 |
| 128 | The effect of polymer size and charge of molecules on permeation through synovial membrane and accumulation in hyaline articular cartilage. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 101, 126-136. | 2.0 | 31 |
| 129 | Antigen delivery via hydrophilic PEG- b -PAGE- b -PLGA nanoparticles boosts vaccination induced T cell immunity. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 102, 20-31. | 2.0 | 47 |
| 130 | Budesonide Loaded PLGA Nanoparticles for Targeting the Inflamed Intestinal Mucosaâ€”Pharmaceutical Characterization and Fluorescence Imaging. Pharmaceutical Research, 2016, 33, 1085-1092. | 1.7 | 65 |
| 131 | Nanocarriers for optimizing the balance between interfollicular permeation and follicular uptake of topically applied clobetasol to minimize adverse effects. Journal of Controlled Release, 2016, 223, 207-214. | 4.8 | 58 |
| 132 | Dual flow bioreactor with ultrathin microporous TEER sensing membrane for evaluation of nanoparticle toxicity. Sensors and Actuators B: Chemical, 2016, 223, 440-446. | 4.0 | 8 |
| 133 | Human alveolar epithelial cells expressing tight junctions to model the air-blood barrier. ALTEX: Alternatives To Animal Experimentation, 2016, 33, 251-60. | 0.9 | 80 |
| 134 | Calcium Phosphate System for Gene Delivery: Historical Background and Emerging Opportunities. Current Pharmaceutical Design, 2016, 22, 1529-1533. | 0.9 | 32 |
| 135 | Polyester Particles for Drug Delivery to the Skin: Local and Systemic Applications. , 2016, , 353-377. | | 0 |
| 136 | LSC Abstract â€” Modeling the air-blood barrier in healthy and disease state to evaluate safety and efficacy of inhaled (nano)medicines. , 2016, , . | | 0 |
| 137 | <i>In vivo</i> genome editing using nuclease-encoding mRNA corrects SP-B deficiency. , 2016, , . | | 0 |
| 138 | In vivo genome editing using nuclease-encoding mRNA corrects SP-B deficiency. Nature Biotechnology, 2015, 33, 584-586. | 9.4 | 113 |
| 139 | Semi-Automated Nanoprecipitation-Systemâ€”An Option for Operator Independent, Scalable and Size Adjustable Nanoparticle Synthesis. Pharmaceutical Research, 2015, 32, 1859-1863. | 1.7 | 23 |
| 140 | Dimethylaminoethyl methacrylate copolymer-siRNA nanoparticles for silencing a therapeutically relevant gene in macrophages. MedChemComm, 2015, 6, 691-701. | 3.5 | 10 |
| 141 | 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 |
| 142 | Expression and function of the epithelial sodium channel Î³-subunit in human respiratory epithelial cells in vitro. Pflugers Archiv European Journal of Physiology, 2015, 467, 2257-2273. | 1.3 | 12 |
| 143 | A Design of Experiment Study of Nanoprecipitation and Nano Spray Drying as Processes to Prepare PLGA Nano- and Microparticles with Defined Sizes and Size Distributions. Pharmaceutical Research, 2015, 32, 2609-24. | 1.7 | 40 |
| 144 | Squalenoylation of Chitosan: A Platform for Drug Delivery?. Biomacromolecules, 2015, 16, 2930-2939. | 2.6 | 28 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Solid Phase Extraction as an Innovative Separation Method for Measuring Free and Entrapped Drug in Lipid Nanoparticles. <i>Pharmaceutical Research</i> , 2015, 32, 3999-4009. | 1.7 | 25 |
| 146 | Mono- and Cocultures of Bronchial and Alveolar Epithelial Cells Respond Differently to Proinflammatory Stimuli and Their Modulation by Salbutamol and Budesonide. <i>Molecular Pharmaceutics</i> , 2015, 12, 2625-2632. | 2.3 | 16 |
| 147 | Inhalable Clarithromycin Microparticles for Treatment of Respiratory Infections. <i>Pharmaceutical Research</i> , 2015, 32, 3850-3861. | 1.7 | 15 |
| 148 | A strategy for in-silico prediction of skin absorption in man. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 95, 68-76. | 2.0 | 11 |
| 149 | Focused Ultrasound as a Scalable and Contact-Free Method to Manufacture Protein-Loaded PLGA Nanoparticles. <i>Pharmaceutical Research</i> , 2015, 32, 2995-3006. | 1.7 | 13 |
| 150 | Inverse micellar sugar glass (IMSG) nanoparticles for transfollicular vaccination. <i>Journal of Controlled Release</i> , 2015, 206, 140-152. | 4.8 | 36 |
| 151 | Macrophage uptake of cylindrical microparticles investigated with correlative microscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 95, 151-155. | 2.0 | 19 |
| 152 | Transfection System of Amino-Functionalized Calcium Phosphate Nanoparticles: In Vitro Efficacy, Biodegradability, and Immunogenicity Study. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5124-5133. | 4.0 | 22 |
| 153 | Biological barriers – Advanced drug delivery, in vitro modelling, and their implications for infection research. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 95, 1-2. | 2.0 | 2 |
| 154 | Not just for tumor targeting: unmet medical needs and opportunities for nanomedicine. <i>Nanomedicine</i> , 2015, 10, 3147-3166. | 1.7 | 23 |
| 155 | Organic cation transporter function in different in vitro models of human lung epithelium. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 80, 82-88. | 1.9 | 15 |
| 156 | Spatial separation of the processing and MHC class I loading compartments for cross-presentation of the tumor-associated antigen HER2/neu by human dendritic cells. <i>Oncolmmunology</i> , 2015, 4, e1047585. | 2.1 | 9 |
| 157 | Bacteriomimetic invasin-functionalized nanocarriers for intracellular delivery. <i>Journal of Controlled Release</i> , 2015, 220, 414-424. | 4.8 | 23 |
| 158 | Proteomic and Lipidomic Analysis of Nanoparticle Corona upon Contact with Lung Surfactant Reveals Differences in Protein, but Not Lipid Composition. <i>ACS Nano</i> , 2015, 9, 11872-11885. | 7.3 | 164 |
| 159 | Preclinical safety and efficacy models for pulmonary drug delivery of antimicrobials with focus on in vitro models. <i>Advanced Drug Delivery Reviews</i> , 2015, 85, 44-56. | 6.6 | 44 |
| 160 | Efficient nanoparticle-mediated needle-free transcutaneous vaccination via hair follicles requires adjuvantation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 147-154. | 1.7 | 38 |
| 161 | The buccal mucosa as a route for TiO ₂ nanoparticle uptake. <i>Nanotoxicology</i> , 2015, 9, 253-261. | 1.6 | 45 |
| 162 | In Vitro – In Vivo Correlation: Shades on Some Non-Conventional Dosage Forms. <i>Dissolution Technologies</i> , 2015, 22, 19-22. | 0.2 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Miniature In Vitro Dissolution Testing of Powders for Inhalation. <i>Dissolution Technologies</i> , 2015, 22, 40-51. | 0.2 | 13 |
| 164 | Non-animal models of epithelial barriers (skin, intestine and lung) in research, industrial applications and regulatory toxicology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2015, 32, 327-378. | 0.9 | 108 |
| 165 | Nanoencapsulation in Lipid-Core Nanocapsules Controls Mometasone Furoate Skin Permeability Rate and Its Penetration to the Deeper Skin Layers. <i>Skin Pharmacology and Physiology</i> , 2014, 27, 217-217. | 1.1 | 31 |
| 166 | Overcoming the pulmonary barrier: new insights to improve the efficiency of inhaled therapeutics. <i>European Journal of Nanomedicine</i> , 2014, 6, . | 0.6 | 42 |
| 167 | <i>In vitro</i> toxicological screening of nanoparticles on primary human endothelial cells and the role of flow in modulating cell response. <i>Nanotoxicology</i> , 2014, 8, 697-708. | 1.6 | 48 |
| 168 | Quantification of nanoparticle uptake into hair follicles in pig ear and human forearm. <i>Journal of Controlled Release</i> , 2014, 179, 25-32. | 4.8 | 98 |
| 169 | Budesonide loaded nanoparticles with pH-sensitive coating for improved mucosal targeting in mouse models of inflammatory bowel diseases. <i>Journal of Controlled Release</i> , 2014, 183, 167-177. | 4.8 | 114 |
| 170 | Non-invasive determination of cellular oxygen consumption as novel cytotoxicity assay for nanomaterials. <i>Nanotoxicology</i> , 2014, 8, 50-60. | 1.6 | 3 |
| 171 | The Cell Line NCL-H441 Is a Useful <i>In Vitro</i> Model for Transport Studies of Human Distal Lung Epithelial Barrier. <i>Molecular Pharmaceutics</i> , 2014, 11, 995-1006. | 2.3 | 105 |
| 172 | Antibiotic-free nanotherapeutics: Ultra-small, mucus-penetrating solid lipid nanoparticles enhance the pulmonary delivery and anti-virulence efficacy of novel quorum sensing inhibitors. <i>Journal of Controlled Release</i> , 2014, 192, 131-140. | 4.8 | 160 |
| 173 | Transfollicular delivery takes root: the future for vaccine design?. <i>Expert Review of Vaccines</i> , 2014, 13, 5-7. | 2.0 | 22 |
| 174 | Dissolution Testing of Powders for Inhalation: Influence of Particle Deposition and Modeling of Dissolution Profiles. <i>Pharmaceutical Research</i> , 2014, 31, 3211-3224. | 1.7 | 41 |
| 175 | Design of Starch- <i>graft</i> -PEI Polymers: An Effective and Biodegradable Gene Delivery Platform. <i>Biomacromolecules</i> , 2014, 15, 1753-1761. | 2.6 | 56 |
| 176 | Development of artemether-loaded nanostructured lipid carrier (NLC) formulation for topical application. <i>International Journal of Pharmaceutics</i> , 2014, 477, 208-217. | 2.6 | 73 |
| 177 | Crystal suspensions of poorly soluble peptides for intra-articular application: A novel approach for biorelevant assessment of their <i>in vitro</i> release. <i>International Journal of Pharmaceutics</i> , 2014, 461, 46-53. | 2.6 | 10 |
| 178 | Characterization and evaluation of a modified PVPA barrier in comparison to Caco-2 cell monolayers for combined dissolution and permeation testing. <i>Journal of Controlled Release</i> , 2014, 175, 79-86. | 4.8 | 24 |
| 179 | Statistical Comparison of Dissolution Profiles to Predict the Bioequivalence of Extended Release Formulations. <i>AAPS Journal</i> , 2014, 16, 791-801. | 2.2 | 9 |
| 180 | Carrier interactions with the biological barriers of the lung: Advanced <i>in vitro</i> models and challenges for pulmonary drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2014, 75, 129-140. | 6.6 | 100 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 181 | One-Step Synthesis of Nanosized and Stable Amino-Functionalized Calcium Phosphate Particles for DNA Transfection. <i>Chemistry of Materials</i> , 2013, 25, 3667-3674. | 3.2 | 32 |
| 182 | From the Structure of the Skin Barrier and Dermal Formulations to in vitro Transport Models for Skin Absorption: Skin Research in the Netherlands and in Germany. <i>Skin Pharmacology and Physiology</i> , 2013, 26, 317-330. | 1.1 | 10 |
| 183 | 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 |
| 184 | Non-invasive delivery of nanoparticles to hair follicles: A perspective for transcutaneous immunization. <i>Vaccine</i> , 2013, 31, 3442-3451. | 1.7 | 69 |
| 185 | Permutation Test (PT) and Tolerated Difference Test (TDT): Two new, robust and powerful nonparametric tests for statistical comparison of dissolution profiles. <i>International Journal of Pharmaceutics</i> , 2013, 441, 458-467. | 2.6 | 10 |
| 186 | Nano- and microscaled particles for drug targeting to inflamed intestinal mucosa – A first in vivo study in human patients. <i>Journal of Controlled Release</i> , 2013, 165, 139-145. | 4.8 | 183 |
| 187 | Modeling the human skin barrier – Towards a better understanding of dermal absorption. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 149-151. | 6.6 | 8 |
| 188 | Nanoparticle Geometry and Surface Orientation Influence Mode of Cellular Uptake. <i>ACS Nano</i> , 2013, 7, 1961-1973. | 7.3 | 287 |
| 189 | Crossing biological barriers for advanced drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 84, 239-241. | 2.0 | 19 |
| 190 | Improved input parameters for diffusion models of skin absorption. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 251-264. | 6.6 | 40 |
| 191 | Pulmonary drug delivery: from generating aerosols to overcoming biological barriers – therapeutic possibilities and technological challenges. <i>Lancet Respiratory Medicine</i> , 2013, 1, 402-413. | 5.2 | 203 |
| 192 | Pulmonary surfactant is indispensable in order to simulate the in vivo situation. <i>Particle and Fibre Toxicology</i> , 2013, 10, 6. | 2.8 | 35 |
| 193 | Mucus as a barrier to lipophilic drugs. <i>International Journal of Pharmaceutics</i> , 2013, 453, 56-64. | 2.6 | 217 |
| 194 | Finite dose skin mass balance including the lateral part: Comparison between experiment, pharmacokinetic modeling and diffusion models. <i>Journal of Controlled Release</i> , 2013, 165, 119-128. | 4.8 | 22 |
| 195 | Nanomedicines for the treatment of inflammatory bowel diseases. <i>European Journal of Nanomedicine</i> , 2013, 5, . | 0.6 | 8 |
| 196 | Particle based vaccine formulations for transcutaneous immunization. <i>Human Vaccines and Immunotherapeutics</i> , 2013, 9, 1950-1955. | 1.4 | 17 |
| 197 | Biopharmaceutical <i>in vitro</i> characterization of CPZEN-45, a drug candidate for inhalation therapy of tuberculosis. <i>Therapeutic Delivery</i> , 2013, 4, 915-923. | 1.2 | 36 |
| 198 | In Situ Drug Release Monitoring with a Fiber-Optic System: Overcoming Matrix Interferences Using Derivative Spectrophotometry. <i>Dissolution Technologies</i> , 2013, 20, 15-19. | 0.2 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 199 | Characterization and evaluation of β -glucan formulations as injectable implants for protein and peptide delivery. <i>Drug Development and Industrial Pharmacy</i> , 2012, 38, 1337-1343. | 0.9 | 2 |
| 200 | Isolation, Cultivation, and Application of Human Alveolar Epithelial Cells. <i>Methods in Molecular Biology</i> , 2012, 806, 31-42. | 0.4 | 33 |
| 201 | Atomic Force Microscopy and Analytical Ultracentrifugation for Probing Nanomaterial Protein Interactions. <i>ACS Nano</i> , 2012, 6, 4603-4614. | 7.3 | 69 |
| 202 | Treatment of lung cancer via telomerase inhibition: Self-assembled nanoplexes versus polymeric nanoparticles as vectors for 2'-O-Methyl-RNA. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 80, 478-489. | 2.0 | 28 |
| 203 | Pulmonary delivery and tissue distribution of aerosolized antisense 2'-O-Methyl RNA containing nanoplexes in the isolated perfused and ventilated rat lung. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 81, 478-485. | 2.0 | 18 |
| 204 | Optical tweezers reveal relationship between microstructure and nanoparticle penetration of pulmonary mucus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18355-18360. | 3.3 | 160 |
| 205 | Cellular delivery of polynucleotides by cationic cyclodextrin polyrotaxanes. <i>Journal of Controlled Release</i> , 2012, 164, 387-393. | 4.8 | 38 |
| 206 | The Interplay of Lung Surfactant Proteins and Lipids Assimilates the Macrophage Clearance of Nanoparticles. <i>PLoS ONE</i> , 2012, 7, e40775. | 1.1 | 123 |
| 207 | Dissolution Techniques for In Vitro Testing of Dry Powders for Inhalation. <i>Pharmaceutical Research</i> , 2012, 29, 2157-2166. | 1.7 | 75 |
| 208 | Process optimization and biocompatibility of cell carriers suitable for automated magnetic manipulation. <i>Acta Biomaterialia</i> , 2012, 8, 1239-1247. | 4.1 | 0 |
| 209 | Influence of the application area on finite dose permeation in relation to drug type applied. <i>Experimental Dermatology</i> , 2012, 21, 233-235. | 1.4 | 11 |
| 210 | Soluplus [®] as an effective absorption enhancer of poorly soluble drugs in vitro and in vivo. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 45, 336-343. | 1.9 | 201 |
| 211 | Nanoparticles for transcutaneous vaccination. <i>Microbial Biotechnology</i> , 2012, 5, 156-167. | 2.0 | 54 |
| 212 | Mucociliary clearance of micro- and nanoparticles is independent of size, shape and charge—an ex vivo and in silico approach. <i>Journal of Controlled Release</i> , 2012, 159, 128-134. | 4.8 | 79 |
| 213 | Nano- and microparticulate drug carriers for targeting of the inflamed intestinal mucosa. <i>Journal of Controlled Release</i> , 2012, 161, 235-246. | 4.8 | 206 |
| 214 | A Hydrophobic Starch Polymer for Nanoparticle-Mediated Delivery of Docetaxel. <i>Macromolecular Bioscience</i> , 2012, 12, 184-194. | 2.1 | 55 |
| 215 | Chapter 5.1. Nanostructures for Overcoming the Pulmonary Barriers: Physiological Considerations and Mechanistic Issues. <i>RSC Drug Discovery Series</i> , 2012, , 239-272. | 0.2 | 4 |
| 216 | Screening of budesonide nanoformulations for treatment of inflammatory bowel disease in an inflamed 3D cell-culture model. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2012, 29, 275-285. | 0.9 | 54 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 217 | A new Pharmaceutical Aerosol Deposition Device on Cell Cultures (PADD OCC) to evaluate pulmonary drug absorption for metered dose dry powder formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 77, 132-138. | 2.0 | 45 |
| 218 | Interaction of metal oxide nanoparticles with lung surfactant protein A. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 77, 376-383. | 2.0 | 71 |
| 219 | An in vitro triple cell co-culture model with primary cells mimicking the human alveolar epithelial barrier. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 77, 398-406. | 2.0 | 113 |
| 220 | Biological barriers – A need for novel tools in nanotoxicology and nanomedicine. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 77, 337. | 2.0 | 7 |
| 221 | Improved photostability and reduced skin permeation of tretinoin: Development of a semisolid nanomedicine. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 79, 95-101. | 2.0 | 109 |
| 222 | 1223 POSTER Enhanced Cellular Delivery of Idarubicin by Surface Modification of Propyl Starch Nanoparticles Employing Pteric Acid Conjugated Polyvinyl Alcohol. <i>European Journal of Cancer</i> , 2011, 47, S151. | 1.3 | 0 |
| 223 | 1224 POSTER Docetaxel Delivery Mediated by Nanoparticles of Novel Hydrophobic Starch. <i>European Journal of Cancer</i> , 2011, 47, S151-S152. | 1.3 | 0 |
| 224 | The molecular basis of bioadhesion. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 50, 11-11. | 1.2 | 1 |
| 225 | Computational fluid dynamics of nanoparticle disposition in the airways: mucus interactions and mucociliary clearance. <i>Computing and Visualization in Science</i> , 2011, 14, 301-308. | 1.2 | 12 |
| 226 | Finite dose skin penetration: a comparison of concentration-depth profiles from experiment and simulation. <i>Computing and Visualization in Science</i> , 2011, 14, 327-339. | 1.2 | 12 |
| 227 | Nano-Particulate Calcium Phosphate as a Gene Delivery System. , 2011, , . | | 1 |
| 228 | Effects of the Mucoadhesive Polymer Polycarbophil on the Intestinal Absorption of a Peptide Drug in the Rat. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 44, 402-407. | 1.2 | 99 |
| 229 | Uptake of nanoparticles by alveolar macrophages is triggered by surfactant protein A. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 690-693. | 1.7 | 117 |
| 230 | Selective follicular targeting by modification of the particle sizes. <i>Journal of Controlled Release</i> , 2011, 150, 45-48. | 4.8 | 260 |
| 231 | Tissue slice model of human lung cancer to investigate telomerase inhibition by nanoparticle delivery of antisense 2'-O-methyl-RNA. <i>International Journal of Pharmaceutics</i> , 2011, 419, 33-42. | 2.6 | 28 |
| 232 | Enhanced cellular delivery of idarubicin by surface modification of propyl starch nanoparticles employing pteric acid conjugated polyvinyl alcohol. <i>International Journal of Pharmaceutics</i> , 2011, 420, 147-155. | 2.6 | 38 |
| 233 | Propidium iodide labeling of nanoparticles as a novel tool for the quantification of cellular binding and uptake. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 410-419. | 1.7 | 27 |
| 234 | Template-Assisted Polyelectrolyte Encapsulation of Nanoparticles into Dispersible, Hierarchically Nanostructured Microfibers. <i>Advanced Materials</i> , 2011, 23, 1376-1379. | 11.1 | 40 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 235 | Towards nanotechnology regulation – Publish the unpublishable. <i>Nano Today</i> , 2011, 6, 228-231. | 6.2 | 16 |
| 236 | Transport of Metal Oxide Nanoparticles Across Calu-3 Cell Monolayers Modelling the Air-Blood Barrier. <i>EURO-NanoTox-Letters</i> , 2011, 3, 1-10. | 1.0 | 5 |
| 237 | Multilayer Coating of Gold Nanoparticles with Drug-Polymer Coadsorbates. <i>Langmuir</i> , 2010, 26, 16901-16908. | 1.6 | 64 |
| 238 | Wistar rat skin as surrogate for human skin in nortriptyline hydrochloride patch studies. <i>International Journal of Pharmaceutics</i> , 2010, 384, 137-139. | 2.6 | 0 |
| 239 | Calorimetric and spectrophotometric investigation of PLGA nanoparticles and their complex with DNA. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 99, 337-348. | 2.0 | 9 |
| 240 | Nanoparticles made from novel starch derivatives for transdermal drug delivery. <i>Journal of Controlled Release</i> , 2010, 141, 85-92. | 4.8 | 257 |
| 241 | In vitro and in vivo performance of biocompatible negatively-charged salbutamol-loaded nanoparticles. <i>Journal of Controlled Release</i> , 2010, 141, 101-107. | 4.8 | 55 |
| 242 | Telomerase as an emerging target to fight cancer – Opportunities and challenges for nanomedicine. <i>Journal of Controlled Release</i> , 2010, 146, 228-240. | 4.8 | 50 |
| 243 | Differential cell reaction upon Toll-like receptor 4 and 9 activation in human alveolar and lung interstitial macrophages. <i>Respiratory Research</i> , 2010, 11, 124. | 1.4 | 83 |
| 244 | Online monitoring of transepithelial electrical resistance (TEER) in an apparatus for combined dissolution and permeation testing. <i>International Journal of Pharmaceutics</i> , 2010, 392, 134-140. | 2.6 | 23 |
| 245 | The Pharmaceutical Aerosol Deposition Device on Cell Cultures (PADD OCC) <i>In Vitro</i> System: Design and Experimental Protocol. <i>ATLA Alternatives To Laboratory Animals</i> , 2010, 38, 285-295. | 0.7 | 28 |
| 246 | Infrared Densitometry: A Fast and Non-Destructive Method for Exact Stratum Corneum Depth Calculation for in vitro Tape-Stripping. <i>Skin Pharmacology and Physiology</i> , 2010, 23, 183-192. | 1.1 | 47 |
| 247 | Pulmonary Drug Delivery: Medicines for Inhalation. <i>Handbook of Experimental Pharmacology</i> , 2010, , 171-192. | 0.9 | 22 |
| 248 | Nanoparticle mediated delivery of 2'-O-methyl-RNA leads to efficient telomerase inhibition and telomere shortening in human lung cancer cells. <i>Lung Cancer</i> , 2010, 68, 346-354. | 0.9 | 29 |
| 249 | Cellular Responses after Exposure of Lung Cell Cultures to Secondary Organic Aerosol Particles. <i>Environmental Science & Technology</i> , 2010, 44, 1424-1430. | 4.6 | 56 |
| 250 | Plant genetic factors for iron homeostasis affect iron bioavailability in Caco-2 cells. <i>Food Research International</i> , 2010, 43, 1661-1665. | 2.9 | 2 |
| 251 | A dynamic ratio of the β and α -isoforms of the tight junction protein ZO-1 is characteristic of Caco-2 cells and correlates with their degree of differentiation. <i>Cell Biology International</i> , 2010, 34, 669-678. | 1.4 | 8 |
| 252 | Drug Transport Across Pulmonary Epithelial Cell Monolayers: Effects of Particle Size, Apical Liquid Volume, and Deposition Technique. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2010, 23, 119-127. | 0.7 | 51 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 253 | Vitamin E TPGS P-Glycoprotein Inhibition Mechanism: Influence on Conformational Flexibility, Intracellular ATP Levels, and Role of Time and Site of Access. <i>Molecular Pharmaceutics</i> , 2010, 7, 642-651. | 2.3 | 186 |
| 254 | A Three-Dimensional Coculture of Enterocytes, Monocytes and Dendritic Cells To Model Inflamed Intestinal Mucosa in Vitro. <i>Molecular Pharmaceutics</i> , 2010, 7, 2103-2119. | 2.3 | 179 |
| 255 | Influence of Particle Size and Material Properties on Mucociliary Clearance from the Airways. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2010, 23, 233-241. | 0.7 | 78 |
| 256 | Efficient Telomerase Inhibition in Human Non-small Cell Lung Cancer Cells by Liposomal Delivery of 2'-O-Methyl-RNA. <i>Journal of Pharmaceutical Sciences</i> , 2009, 98, 1765-1774. | 1.6 | 13 |
| 257 | The Role of Corneocytes in Skin Transport Revised—A Combined Computational and Experimental Approach. <i>Pharmaceutical Research</i> , 2009, 26, 1379-1397. | 1.7 | 36 |
| 258 | PLGA Nanoparticles Stabilized with Cationic Surfactant: Safety Studies and Application in Oral Delivery of Paclitaxel to Treat Chemical-Induced Breast Cancer in Rat. <i>Pharmaceutical Research</i> , 2009, 26, 2495-2503. | 1.7 | 133 |
| 259 | Relevance of the colloidal stability of chitosan/PLGA nanoparticles on their cytotoxicity profile. <i>International Journal of Pharmaceutics</i> , 2009, 381, 130-139. | 2.6 | 149 |
| 260 | Nortriptyline for smoking cessation: Release and human skin diffusion from patches. <i>International Journal of Pharmaceutics</i> , 2009, 378, 101-107. | 2.6 | 16 |
| 261 | Differentiation potential of human pancreatic stem cells for epithelial- and endothelial-like cell types. <i>Annals of Anatomy</i> , 2009, 191, 70-82. | 1.0 | 3 |
| 262 | The influence of chitosan content in cationic chitosan/PLGA nanoparticles on the delivery efficiency of antisense 2'-O-methyl-RNA directed against telomerase in lung cancer cells. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 72, 358-369. | 2.0 | 62 |
| 263 | A novel cell compatible impingement system to study in vitro drug absorption from dry powder aerosol formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 72, 350-357. | 2.0 | 41 |
| 264 | Biological barriers and nanomedicine — Timely challenges in advanced drug delivery research†. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 72, 287-288. | 2.0 | 7 |
| 265 | Hyaluronic Acid-Modified DOTAP/DOPE Liposomes for the Targeted Delivery of Anti-Telomerase siRNA to CD44-Expressing Lung Cancer Cells. <i>Oligonucleotides</i> , 2009, 19, 103-116. | 2.7 | 90 |
| 266 | In Vitro Systems for Studying Epithelial Transport of Macromolecules. <i>Methods in Molecular Biology</i> , 2009, 480, 151-164. | 0.4 | 8 |
| 267 | Inhalative nanomedicine—Opportunities and challenges. <i>Inhalation Toxicology</i> , 2009, 21, 137-143. | 0.8 | 48 |
| 268 | Decomposition of the Telomere-Targeting agent BRACO19 in physiological media results in products with decreased inhibitory potential. <i>International Journal of Pharmaceutics</i> , 2008, 357, 6-14. | 2.6 | 8 |
| 269 | Embryonic Chicken Trachea as a New In Vitro Model for the Investigation of Mucociliary Particle Clearance in the Airways. <i>AAPS PharmSciTech</i> , 2008, 9, 521-527. | 1.5 | 21 |
| 270 | Models for Skin Absorption and Skin Toxicity Testing. , 2008, , 3-33. | | 19 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 271 | In-silico model of skin penetration based on experimentally determined input parameters. Part I: Experimental determination of partition and diffusion coefficients. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 68, 352-367. | 2.0 | 94 |
| 272 | In-silico model of skin penetration based on experimentally determined input parameters. Part II: Mathematical modelling of in-vitro diffusion experiments. Identification of critical input parameters. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 68, 368-379. | 2.0 | 70 |
| 273 | Nortriptyline hydrochloride skin absorption: Development of a transdermal patch. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 69, 588-596. | 2.0 | 36 |
| 274 | Not ready to use "overcoming pitfalls when dispersing nanoparticles in physiological media. <i>Nanotoxicology</i> , 2008, 2, 51-61. | 1.6 | 148 |
| 275 | Novel luminescence assay offers new possibilities for the risk assessment of silica nanoparticles. <i>Nanotoxicology</i> , 2008, 2, 243-251. | 1.6 | 17 |
| 276 | Influence of Human Skin Specimens Consisting of Different Skin Layers on the Result of in vitro Permeation Experiments. <i>Skin Pharmacology and Physiology</i> , 2008, 21, 81-88. | 1.1 | 24 |
| 277 | Pulmonary cell culture models to study the safety and efficacy of innovative aerosol medicines. <i>Expert Opinion on Drug Delivery</i> , 2008, 5, 641-652. | 2.4 | 25 |
| 278 | Naturally occurring reactive sulfur species, their activity against Caco-2 cells, and possible modes of biochemical action. <i>Journal of Sulfur Chemistry</i> , 2008, 29, 251-268. | 1.0 | 26 |
| 279 | A Comparative Evaluation of Corneal Epithelial Cell Cultures for Assessing Ocular Permeability. <i>ATLA Alternatives To Laboratory Animals</i> , 2008, 36, 33-44. | 0.7 | 50 |
| 280 | The Physicochemical Parameters of Marker Compounds and Vehicles for Use in In Vitro Percutaneous Absorption Studies. <i>ATLA Alternatives To Laboratory Animals</i> , 2008, 36, 189-200. | 0.7 | 2 |
| 281 | The Use of Reconstructed Human Epidermis for Skin Absorption Testing: Results of the Validation Study. <i>ATLA Alternatives To Laboratory Animals</i> , 2008, 36, 161-187. | 0.7 | 193 |
| 282 | Development and characterization of film forming polymeric solutions for skin drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007, 65, 111-121. | 2.0 | 95 |
| 283 | Permeability of the reconstructed human epidermis model Episkin® in comparison to various human skin preparations†. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007, 66, 127-134. | 2.0 | 89 |
| 284 | Permeability assessment for solid oral drug formulations based on Caco-2 monolayer in combination with a flow through dissolution cell. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007, 66, 286-295. | 2.0 | 46 |
| 285 | Nanoparticles "An efficient carrier for drug delivery into the hair follicles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007, 66, 159-164. | 2.0 | 488 |
| 286 | Monolayers of porcine alveolar epithelial cells in primary culture as an in vitro model for drug absorption studies. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007, 66, 372-382. | 2.0 | 22 |
| 287 | Dexamethasone-loaded nanoparticle-coated microparticles: Correlation between in vitro drug release and drug transport across Caco-2 cell monolayers. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007, 67, 18-30. | 2.0 | 50 |
| 288 | Mechanism of Inhibition of P-Glycoprotein Mediated Efflux by Vitamin E TPGS: Influence on ATPase Activity and Membrane Fluidity. <i>Molecular Pharmaceutics</i> , 2007, 4, 465-474. | 2.3 | 244 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 289 | Expression of ABC-Transporters in Human Corneal Tissue and the Transformed Cell Line, HCE-T. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2007, 23, 172-181. | 0.6 | 40 |
| 290 | Coupling of Biotin [®] (poly(ethylene glycol))amine to Poly(D,L-lactide-co-glycolide) Nanoparticles for Versatile Surface Modification. <i>Bioconjugate Chemistry</i> , 2007, 18, 1087-1094. | 1.8 | 46 |
| 291 | Conformational change of membrane proteins leads to shape changes of red blood cells. <i>Bioelectrochemistry</i> , 2007, 70, 122-126. | 2.4 | 42 |
| 292 | Automated measurement of permeation and dissolution of propranolol HCl tablets using sequential injection analysis. <i>Analytica Chimica Acta</i> , 2007, 581, 174-180. | 2.6 | 23 |
| 293 | Chitosan-coated PLGA nanoparticles for DNA/RNA delivery: effect of the formulation parameters on complexation and transfection of antisense oligonucleotides. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2007, 3, 173-183. | 1.7 | 224 |
| 294 | Delivery of ethinylestradiol from film forming polymeric solutions across human epidermis in vitro and in vivo in pigs. <i>Journal of Controlled Release</i> , 2007, 118, 196-203. | 4.8 | 47 |
| 295 | P-glycoprotein (MDR1) functional activity in human alveolar epithelial cell monolayers. <i>Cell and Tissue Research</i> , 2007, 328, 77-84. | 1.5 | 54 |
| 296 | Multiphoton Microscopy for the Investigation of trans-cutaneous drug delivery. , 2007, , . | | 0 |
| 297 | Influence of Nanoencapsulation on Human Skin Transport of Flufenamic Acid. <i>Skin Pharmacology and Physiology</i> , 2006, 19, 190-197. | 1.1 | 133 |
| 298 | Development of a fluorescence-based assay for screening of modulators of human Organic Anion Transporter 1B3 (OATP1B3). <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2006, 62, 39-43. | 2.0 | 38 |
| 299 | TEWL measurements as a routine method for evaluating the integrity of epidermis sheets in static Franz type diffusion cells in vitro. Limitations shown by transport data testing. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2006, 63, 44-50. | 2.0 | 69 |
| 300 | Reconstructed Human Epidermis for Skin Absorption Testing: Results of the German Prevalidation Study. <i>ATLA Alternatives To Laboratory Animals</i> , 2006, 34, 283-294. | 0.7 | 108 |
| 301 | Effect of PEGylation on the Stability of Liposomes During Nebulisation and in Lung Surfactant. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 3010-3016. | 0.9 | 43 |
| 302 | Multiphoton Microscopy for the Investigation of Dermal Penetration of Nanoparticle-Borne Drugs. <i>Journal of Investigative Dermatology</i> , 2006, 126, 2224-2233. | 0.3 | 131 |
| 303 | Assessment of mucoadhesion by a resonant mirror biosensor. <i>International Journal of Pharmaceutics</i> , 2006, 325, 75-81. | 2.6 | 50 |
| 304 | Biopharmaceutical Characterization of the Telomerase Inhibitor BRACO19. <i>Pharmaceutical Research</i> , 2006, 23, 1031-1037. | 1.7 | 42 |
| 305 | Porcine Alveolar Epithelial Cells in Primary Culture: Morphological, Bioelectrical and Immunocytochemical Characterization. <i>Pharmaceutical Research</i> , 2006, 23, 2078-2093. | 1.7 | 28 |
| 306 | Towards an in vitro model of cystic fibrosis small airway epithelium: characterisation of the human bronchial epithelial cell line CFBE41o-. <i>Cell and Tissue Research</i> , 2006, 323, 405-415. | 1.5 | 105 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 307 | Assessment of transport rates of proteins and peptides across primary human alveolar epithelial cell monolayers. <i>European Journal of Pharmaceutical Sciences</i> , 2006, 28, 196-203. | 1.9 | 49 |
| 308 | In vitro assessment of transferrin-conjugated liposomes as drug delivery systems for inhalation therapy of lung cancer. <i>European Journal of Pharmaceutical Sciences</i> , 2006, 29, 367-374. | 1.9 | 121 |
| 309 | Influence of vitamin E TPGS poly(ethylene glycol) chain length on apical efflux transporters in Caco-2 cell monolayers. <i>Journal of Controlled Release</i> , 2006, 111, 35-40. | 4.8 | 165 |
| 310 | Nanoparticles made of Fluorescence-Labelled Poly(L-lactide-co-glycolide): Preparation, Stability, and Biocompatibility. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 3048-3056. | 0.9 | 46 |
| 311 | The Influence of Physicochemical Parameters on the Efficacy of Non-Viral DNA Transfection Complexes: A Comparative Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 2776-2782. | 0.9 | 34 |
| 312 | Human Vascular Endothelial Cells in Primary Cell Culture for the Evaluation of Nanoparticle Bioadhesion. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 3303-3309. | 0.9 | 16 |
| 313 | Comparison of bovine udder skin with human and porcine skin in percutaneous permeation experiments. <i>ATLA Alternatives To Laboratory Animals</i> , 2006, 34, 499-513. | 0.7 | 46 |
| 314 | Isolation and Culture of Human Alveolar Epithelial Cells. , 2005, 107, 207-216. | | 32 |
| 315 | Preparation and characterization of chitosan and trimethyl-chitosanmodified poly-(μ -caprolactone) nanoparticles as DNA carriers. <i>AAPS PharmSciTech</i> , 2005, 6, E22-E30. | 1.5 | 53 |
| 316 | Optimization of the TRAP assay to evaluate specificity of telomerase inhibitors. <i>Laboratory Investigation</i> , 2005, 85, 1565-1569. | 1.7 | 26 |
| 317 | Laser interference lithography as a new and efficient technique for micropatterning of biopolymer surface. <i>Biomaterials</i> , 2005, 26, 2307-2312. | 5.7 | 79 |
| 318 | Estimation of paracellular conductance of primary rat alveolar epithelial cell monolayers. <i>Journal of Applied Physiology</i> , 2005, 98, 138-143. | 1.2 | 11 |
| 319 | Tissue Distribution of Moxaverine-Hydrochloride in the Rabbit Eye and Plasma. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2005, 21, 210-216. | 0.6 | 15 |
| 320 | Depletion of alveolar macrophages by clodronate-liposomes aggravates ischemia-reperfusion injury of the lung. <i>Journal of Heart and Lung Transplantation</i> , 2005, 24, 38-45. | 0.3 | 50 |
| 321 | Assessing transferrin modification of liposomes by atomic force microscopy and transmission electron microscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2005, 60, 295-303. | 2.0 | 97 |
| 322 | The human epidermis models EpiSkin [®] , SkinEthic [®] and EpiDerm [®] : An evaluation of morphology and their suitability for testing phototoxicity, irritancy, corrosivity, and substance transport. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2005, 60, 167-178. | 2.0 | 297 |
| 323 | Cell culture models and nanobiotechnology—contemporary topics in advanced drug delivery research. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2005, 60, v-vi. | 2.0 | 3 |
| 324 | GALENOS Euro-PhD in Advanced Drug Delivery: an innovative European Postgraduate Certificate for young pharmaceutical scientists, funded by the EU Marie Curie EST programme. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2005, 60, 315-316. | 2.0 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 325 | Salbutamol is actively absorbed across human bronchial epithelial cell layers. <i>Pulmonary Pharmacology and Therapeutics</i> , 2005, 18, 165-170. | 1.1 | 62 |
| 326 | Nanoparticles as Non-Viral Transfection Agents. , 2005, , 319-342. | | 0 |
| 327 | Cell Culture Models of the Respiratory Tract Relevant to Pulmonary Drug Delivery. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2005, 18, 137-182. | 1.2 | 135 |
| 328 | Transfection with different colloidal systems: comparison of solid lipid nanoparticles and liposomes. <i>Journal of Controlled Release</i> , 2004, 97, 321-332. | 4.8 | 110 |
| 329 | Lectins and glycoconjugates in drug delivery and targeting. <i>Advanced Drug Delivery Reviews</i> , 2004, 56, 419-420. | 6.6 | 23 |
| 330 | Computational modeling of the sugarâ€œlectin interaction. <i>Advanced Drug Delivery Reviews</i> , 2004, 56, 437-457. | 6.6 | 43 |
| 331 | Lectin-mediated drug targeting: history and applications. <i>Advanced Drug Delivery Reviews</i> , 2004, 56, 425-435. | 6.6 | 363 |
| 332 | Preparation and characterization of cationic PLGA nanospheres as DNA carriers. <i>Biomaterials</i> , 2004, 25, 1771-1777. | 5.7 | 432 |
| 333 | Cationic Poly(lactide-co-glycolide) Nanoparticles as Efficient <i>in vivo</i> Gene Transfection Agents. <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 990-994. | 0.9 | 72 |
| 334 | Cationic Silica Nanoparticles as Gene Carriers: Synthesis, Characterization and Transfection Efficiency <i>In vitro</i> and <i>In vivo</i> . <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 876-881. | 0.9 | 177 |
| 335 | Reoxygenation results in cell death of human alveolar epithelial cells. <i>Journal of Heart and Lung Transplantation</i> , 2004, 23, 1198-1204. | 0.3 | 3 |
| 336 | Effect of cationic lipid and matrix lipid composition on solid lipid nanoparticle-mediated gene transfer. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2004, 57, 155-162. | 2.0 | 129 |
| 337 | 16HBE14o- human bronchial epithelial cell layers express P-glycoprotein, lung resistance-related protein, and caveolin-1. <i>Pharmaceutical Research</i> , 2003, 20, 545-551. | 1.7 | 60 |
| 338 | Large porous particle impingement on lung epithelial cell monolayers--toward improved particle characterization in the lung. <i>Pharmaceutical Research</i> , 2003, 20, 788-796. | 1.7 | 108 |
| 339 | Differentiation of human alveolar epithelial cells in primary culture: morphological characterization and synthesis of caveolin-1 and surfactant protein-C. <i>Cell and Tissue Research</i> , 2003, 311, 31-45. | 1.5 | 141 |
| 340 | Stabilisation by freeze-drying of cationically modified silica nanoparticles for gene delivery. <i>International Journal of Pharmaceutics</i> , 2003, 266, 51-60. | 2.6 | 121 |
| 341 | Laser ablation patterning by interference induces directional cell growth. <i>IEEE Transactions on Nanobioscience</i> , 2003, 2, 138-145. | 2.2 | 37 |
| 342 | pH profiles in human skin: influence of two <i>in vitro</i> test systems for drug delivery testing. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2003, 55, 57-65. | 2.0 | 82 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 343 | Chemical crosslinking of urokinase to pulmonary surfactant protein B for targeting alveolar fibrin. <i>Thrombosis and Haemostasis</i> , 2003, 89, 53-64. | 1.8 | 17 |
| 344 | Drug Absorption by the Respiratory Mucosa: Cell Culture Models and Particulate Drug Carriers. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2002, 15, 131-139. | 1.2 | 77 |
| 345 | Carrier systems for the treatment of inflammatory bowel disease. <i>Drugs of the Future</i> , 2002, 27, 961. | 0.0 | 16 |
| 346 | Chemical Coupling of a Monoclonal Antisurfactant Protein-B Antibody to Human Urokinase for Targeting Surfactant-Incorporating Alveolar Fibrin. <i>Bioconjugate Chemistry</i> , 2002, 13, 804-811. | 1.8 | 9 |
| 347 | Self-Assembly of β -Lactoglobulin and Acacia Gum in Aqueous Solvent: Structure and Phase-Ordering Kinetics. <i>Langmuir</i> , 2002, 18, 10323-10333. | 1.6 | 86 |
| 348 | Wet chemical modification of PTFE implant surfaces with a specific cell adhesion molecule. <i>Chemical Communications</i> , 2002, , 2568-2569. | 2.2 | 23 |
| 349 | Developments in the area of bioadhesive drug delivery systems. <i>Expert Opinion on Biological Therapy</i> , 2002, 2, 287-298. | 1.4 | 79 |
| 350 | Lectin-mediated Drug Delivery: Discrimination Between Cytoadhesion and Cytoinvasion and Evidence for Lysosomal Accumulation of Wheat Germ Agglutinin in the Caco-2 Model. <i>Journal of Drug Targeting</i> , 2002, 10, 439-448. | 2.1 | 35 |
| 351 | Correlation between Stratum Corneum/Water Partition Coefficient and Amounts of Flufenamic Acid Penetrated into the Stratum Corneum. <i>Journal of Pharmaceutical Sciences</i> , 2002, 91, 1915-1921. | 1.6 | 16 |
| 352 | Influence of apical fluid volume on the development of functional intercellular junctions in the human epithelial cell line 16HBE14o- : implications for the use of this cell line as an in vitro model for bronchial drug absorption studies. <i>Cell and Tissue Research</i> , 2002, 308, 391-400. | 1.5 | 111 |
| 353 | Human Skin Penetration of Flufenamic Acid: In Vivo/In Vitro Correlation (Deeper Skin Layers) for Skin Samples from the Same Subject. <i>Journal of Investigative Dermatology</i> , 2002, 118, 540-544. | 0.3 | 40 |
| 354 | Lectin-sugar interaction. <i>FEBS Journal</i> , 2002, 269, 1518-1524. | 0.2 | 26 |
| 355 | Models of the alveolar epithelium. , 2002, , 189-210. | | 4 |
| 356 | Human skin and skin equivalents to study dermal penetration and permeation. , 2002, , 289-309. | | 2 |
| 357 | Confocal and two-photon fluorescence microscopy. , 2002, , 378-391. | | 0 |
| 358 | Studying cellular binding and uptake of bioadhesive lectins. , 2002, , 62-93. | | 0 |
| 359 | Influences of process parameters on preparation of microparticle used as a carrier system for O - 3 unsaturated fatty acid ethyl esters used in supplementary nutrition. <i>Journal of Microencapsulation</i> , 2001, 18, 347-357. | 1.2 | 90 |
| 360 | Study of β -lactoglobulin/acacia gum complex coacervation by diffusing-wave spectroscopy and confocal scanning laser microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2001, 20, 267-280. | 2.5 | 97 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 361 | Systemic delivery of cetorelix to rats by a new aerosol delivery system. <i>Pharmaceutical Research</i> , 2001, 18, 771-779. | 1.7 | 9 |
| 362 | Size-dependent bioadhesion of micro- and nanoparticulate carriers to the inflamed colonic mucosa. <i>Pharmaceutical Research</i> , 2001, 18, 788-793. | 1.7 | 419 |
| 363 | Design of rolipram-loaded nanoparticles: comparison of two preparation methods. <i>Journal of Controlled Release</i> , 2001, 71, 297-306. | 4.8 | 68 |
| 364 | Interrelation of permeation and penetration parameters obtained from in vitro experiments with human skin and skin equivalents. <i>Journal of Controlled Release</i> , 2001, 75, 283-295. | 4.8 | 81 |
| 365 | Cationic solid-lipid nanoparticles can efficiently bind and transfect plasmid DNA. <i>Journal of Controlled Release</i> , 2001, 77, 345-355. | 4.8 | 172 |
| 366 | Lectin-functionalized liposomes for pulmonary drug delivery: effect of nebulization on stability and bioadhesion. <i>European Journal of Pharmaceutical Sciences</i> , 2001, 14, 37-46. | 1.9 | 84 |
| 367 | Oral endotracheal intubation of rats for intratracheal instillation and aerosol drug delivery. <i>Laboratory Animals</i> , 2001, 35, 257-260. | 0.5 | 24 |
| 368 | Development of a new aerosol delivery system for systemic pulmonary delivery in anaesthetized and orotracheal intubated rats. <i>Laboratory Animals</i> , 2001, 35, 261-270. | 0.5 | 5 |
| 369 | Charge-dependent interaction of self-emulsifying oil formulations with Caco-2 cells monolayers: binding, effects on barrier function and cytotoxicity. <i>International Journal of Pharmaceutics</i> , 2000, 211, 29-36. | 2.6 | 62 |
| 370 | Influences of process parameters on nanoparticle preparation performed by a double emulsion pressure homogenization technique. <i>International Journal of Pharmaceutics</i> , 2000, 196, 177-182. | 2.6 | 144 |
| 371 | Visualization and quantification of polymer distribution in microcapsules by confocal laser scanning microscopy (CLSM). <i>International Journal of Pharmaceutics</i> , 2000, 196, 223-226. | 2.6 | 38 |
| 372 | Silica nanoparticles modified with aminosilanes as carriers for plasmid DNA. <i>International Journal of Pharmaceutics</i> , 2000, 196, 257-261. | 2.6 | 261 |
| 373 | Systemic delivery of the GnRH antagonist cetorelix by intratracheal instillation in anesthetized rats. <i>European Journal of Pharmaceutical Sciences</i> , 2000, 9, 253-258. | 1.9 | 20 |
| 374 | Biodegradable microparticles as a two-drug controlled release formulation: a potential treatment of inflammatory bowel disease. <i>Journal of Controlled Release</i> , 2000, 69, 445-454. | 4.8 | 64 |
| 375 | Lectin-mediated drug delivery. <i>Journal of Controlled Release</i> , 2000, 65, 19-29. | 4.8 | 268 |
| 376 | Drug distribution in human skin using two different in vitro test systems: comparison with in vivo data. <i>Pharmaceutical Research</i> , 2000, 17, 1475-1481. | 1.7 | 111 |
| 377 | Structural analysis of microparticles by confocal laser scanning microscopy. <i>AAPS PharmSciTech</i> , 2000, 1, 10-19. | 1.5 | 53 |
| 378 | Characterization of microcapsules by confocal laser scanning microscopy: structure, capsule wall composition and encapsulation rate. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2000, 49, 1-9. | 2.0 | 116 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 379 | A Nonviral DNA Delivery System Based on Surface Modified Silica-Nanoparticles Can Efficiently Transfect Cells in Vitro. <i>Bioconjugate Chemistry</i> , 2000, 11, 926-932. | 1.8 | 319 |
| 380 | Biodegradable monodispersed nanoparticles prepared by pressure homogenization-emulsification. <i>International Journal of Pharmaceutics</i> , 1999, 184, 97-105. | 2.6 | 147 |
| 381 | Organic cation transport in rabbit alveolar epithelial cell monolayers. <i>Pharmaceutical Research</i> , 1999, 16, 1280-1287. | 1.7 | 22 |
| 382 | Monolayers of human alveolar epithelial cells in primary culture for pulmonary absorption and transport studies. <i>Pharmaceutical Research</i> , 1999, 16, 601-608. | 1.7 | 151 |
| 383 | Transport of proteolytic enzymes across Caco-2 cell monolayers. <i>Pharmaceutical Research</i> , 1998, 15, 1393-1400. | 1.7 | 25 |
| 384 | Lectins and bacterial invasion factors for controlling endo- and transcytosis of bioadhesive drug carrier systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 1997, 44, 3-13. | 2.0 | 52 |
| 385 | Binding, Uptake, and Transport of Hypericin by Caco-2 Cell Monolayers. <i>Journal of Pharmaceutical Sciences</i> , 1997, 86, 1120-1126. | 1.6 | 47 |
| 386 | Mucoadhesive polymers in peroral peptide drug delivery. IV. Polycarbophil and chitosan are potent enhancers of peptide transport across intestinal mucosae in vitro. <i>Journal of Controlled Release</i> , 1997, 45, 15-23. | 4.8 | 165 |
| 387 | Simultaneous in vivo visualization and localization of solid oral dosage forms in the rat gastrointestinal tract by magnetic resonance imaging (MRI). <i>Pharmaceutical Research</i> , 1997, 14, 1066-1072. | 1.7 | 31 |
| 388 | Mucoadhesive polymers in peroral peptide drug delivery. I. Influence of mucoadhesive excipients on the proteolytic activity of intestinal enzymes. <i>European Journal of Pharmaceutical Sciences</i> , 1996, 4, 117-128. | 1.9 | 96 |
| 389 | The potential of mucoadhesive polymers in enhancing intestinal peptide drug absorption. III: Effects of chitosan-glutamate and carbomer on epithelial tight junctions in vitro. <i>Journal of Controlled Release</i> , 1996, 39, 131-138. | 4.8 | 369 |
| 390 | Mucoadhesive properties of the mussel adhesive protein. <i>International Journal of Pharmaceutics</i> , 1996, 141, 251-256. | 2.6 | 58 |
| 391 | From sticky stuff to sweet receptors – achievements, limits and novel approaches to bioadhesion. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 1996, 21, 139-148. | 0.6 | 86 |
| 392 | Mucoadhesive polymers in peroral peptide drug delivery. II. Carbomer and polycarbophil are potent inhibitors of the intestinal proteolytic enzyme trypsin. <i>Pharmaceutical Research</i> , 1995, 12, 1293-1298. | 1.7 | 146 |
| 393 | Bioadhesive polymers for the peroral delivery of peptide drugs. <i>Journal of Controlled Release</i> , 1994, 29, 329-338. | 4.8 | 140 |
| 394 | Binding and transport of some bioadhesive plant lectins across Caco-2 cell monolayers. <i>Pharmaceutical Research</i> , 1993, 10, 1796-1799. | 1.7 | 35 |
| 395 | A surface energy analysis of mucoadhesion II. Prediction of mucoadhesive performance by spreading coefficients. <i>European Journal of Pharmaceutical Sciences</i> , 1993, 1, 19-30. | 1.9 | 59 |
| 396 | Visualization studies of the mucoadhesive interface. <i>Journal of Controlled Release</i> , 1992, 18, 249-260. | 4.8 | 27 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 397 | Bioadhesion by means of specific binding of tomato lectin. <i>Pharmaceutical Research</i> , 1992, 09, 547-553. | 1.7 | 108 |
| 398 | A surface energy analysis of mucoadhesion: contact angle measurements on polycarbophil and pig intestinal mucosa in physiologically relevant fluids. <i>Pharmaceutical Research</i> , 1992, 09, 70-75. | 1.7 | 102 |
| 399 | Niosomes for oral delivery of peptide drugs. <i>Journal of Controlled Release</i> , 1992, 21, 145-153. | 4.8 | 64 |
| 400 | In vitro evaluation of mucoadhesive properties of chitosan and some other natural polymers. <i>International Journal of Pharmaceutics</i> , 1992, 78, 43-48. | 2.6 | 895 |
| 401 | An estimate of turnover time of intestinal mucus gel layer in the rat in situ loop. <i>International Journal of Pharmaceutics</i> , 1991, 70, 235-240. | 2.6 | 189 |
| 402 | Intestinal transit of bioadhesive microspheres in an in situ loop in the rat – A comparative study with copolymers and blends based on poly(acrylic acid). <i>Journal of Controlled Release</i> , 1990, 13, 51-62. | 4.8 | 170 |
| 403 | A New Immortalized Human Alveolar Epithelial Cell Model to Study Lung Injury and Toxicity on a Breathing Lung-On-Chip System. <i>Frontiers in Toxicology</i> , 0, 4, . | 1.6 | 17 |