Lea Ann Dailey

List of Publications by Year
in descending order

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62 papers	2,123 citations	236925 25 h-index	233421 45 g-index
63 all docs	63 docs citations	63 times ranked	3239 citing authors

#	Article	IF	Citations
1	Investigation of the proinflammatory potential of biodegradable nanoparticle drug delivery systems in the lung. Toxicology and Applied Pharmacology, 2006, 215, 100-108.	2.8	203
2	Chitosan nanoparticles are compatible with respiratory epithelial cells in vitro. European Journal of Pharmaceutical Sciences, 2007, 31, 73-84.	4.0	200
3	Nebulization of biodegradable nanoparticles: impact of nebulizer technology and nanoparticle characteristics on aerosol features. Journal of Controlled Release, 2003, 86, 131-144.	9.9	151
4	The role of branched polyesters and their modifications in the development of modern drug delivery vehicles. Journal of Controlled Release, 2005, 101, 137-149.	9.9	96
5	Challenges in inhaled product development and opportunities for open innovation. Advanced Drug Delivery Reviews, 2011, 63, 69-87.	13.7	95
6	Quantitative assessment of nanoparticle surface hydrophobicity and its influence on pulmonary biocompatibility. Journal of Controlled Release, 2014, 183, 94-104.	9.9	73
7	Challenges for inhaled drug discovery and development: Induced alveolar macrophage responses. Advanced Drug Delivery Reviews, 2014, 71, 15-33.	13.7	72
8	In vivo biocompatibility, clearance, and biodistribution of albumin vehicles for pulmonary drug delivery. Journal of Controlled Release, 2015, 210, 1-9.	9.9	69
9	The delivered dose: Applying particokinetics to in vitro investigations of nanoparticle internalization by macrophages. Journal of Controlled Release, 2012, 162, 259-266.	9.9	66
10	Sparing methylation of Î²-cyclodextrin mitigates cytotoxicity and permeability induction in respiratory epithelial cell layers in vitro. Journal of Controlled Release, 2009, 136, 110-116.	9.9	60
11	Conjugated polymers as nanoparticle probes for fluorescence and photoacoustic imaging. Journal of Materials Chemistry B, 2020, 8, 592-606.	5.8	59
12	Modified polyethylenimines as non-viral gene delivery systems for aerosol gene therapy: investigations of the complex structure and stability during air-jet and ultrasonic nebulization. Journal of Controlled Release, 2004, 100, 437-450.	9.9	54
13	Enrichment of immunoregulatory proteins in the biomolecular corona of nanoparticles within human respiratory tract lining fluid. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1033-1043.	3.3	54
14	Post-polymerization Câ€“H Borylation of Donorâ€“Acceptor Materials Gives Highly Efficient Solid State Near-Infrared Emitters for Near-IR-OLEDs and Effective Biological Imaging. ACS Applied Materials & Interfaces, 2017, 9, 28243-28249.	8.0	53
15	Gd-containing conjugated polymer nanoparticles: bimodal nanoparticles for fluorescence and MRI imaging. Nanoscale, 2014, 6, 8376-8386.	5.6	48
16	Characterisation of the decomposition behaviour of S-nitrosoglutathione and a new class of analogues: S-Nitrosophytochelatins. Nitric Oxide - Biology and Chemistry, 2009, 20, 157-165.	2.7	42
17	Dynamics of aerosol size during inhalation: Hygroscopic growth of commercial nebulizer formulations. International Journal of Pharmaceutics, 2014, 463, 50-61.	5.2	41
18	Modified polyethylenimines as non viral gene delivery systems for aerosol therapy: effects of nebulization on cellular uptake and transfection efficiency. Journal of Controlled Release, 2004, 100, 425-436.	9.9	38

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19	Surface Chemistry of Photoluminescent F8BT Conjugated Polymer Nanoparticles Determines Protein Corona Formation and Internalization by Phagocytic Cells. Biomacromolecules, 2015, 16, 733-742.	5.4	36
20	Evaluation of a rapid lateral flow immunoassay for Staphylococcus aureus detection in respiratory samples. Diagnostic Microbiology and Infectious Disease, 2013, 75, 28-36.	1.8	35
21	Insights on animal models to investigate inhalation therapy: Relevance for biotherapeutics. International Journal of Pharmaceutics, 2018, 536, 116-126.	5.2	34
22	New poly(lactic-co-glycolic acid) derivatives: Modular polymers with tailored properties. Drug Discovery Today: Technologies, 2005, 2, 7-13.	4.0	33
23	Low molecular weight PEGâ€“PLGA polymers provide a superior matrix for conjugated polymer nanoparticles in terms of physicochemical properties, biocompatibility and optical/photoacoustic performance. Journal of Materials Chemistry B, 2019, 7, 5115-5124.	5.8	33
24	Inflammatory Response and Barrier Properties of a New Alveolar Type 1-Like Cell Line (TT1). Pharmaceutical Research, 2009, 26, 1172-1180.	3.5	29
25	Bright conjugated polymer nanoparticles containing a biodegradable shell produced at high yields and with tuneable optical properties by a scalable microfluidic device. Nanoscale, 2017, 9, 2009-2019.	5.6	29
26	Imaging drugs, metabolites and biomarkers in rodent lung: a DESI MS strategy for the evaluation of drug-induced lipidosis. Analytical and Bioanalytical Chemistry, 2019, 411, 8023-8032.	3.7	24
27	Bright, near infrared emitting PLGAâ€“PEG dye-doped CN-PPV nanoparticles for imaging applications. RSC Advances, 2017, 7, 15255-15264.	3.6	23
28	Enhanced gene expression and reduced toxicity in mice using polyplexes of low-molecular-weight poly(ethylene imine) for pulmonary gene delivery. Journal of Drug Targeting, 2009, 17, 638-651.	4.4	21
29	In vitro and in vivo antitubercular activity of benzothiazinone-loaded human serum albumin nanocarriers designed for inhalation. Journal of Controlled Release, 2020, 328, 339-349.	9.9	21
30	Interactions of stealth conjugated polymer nanoparticles with human whole blood. Journal of Materials Chemistry B, 2015, 3, 2463-2471.	5.8	19
31	Theranostic Near-Infrared-Active Conjugated Polymer Nanoparticles. ACS Nano, 2021, 15, 8790-8802.	14.6	19
32	l-Phenylalanine Restores Vascular Function in Spontaneously Hypertensive Rats Through Activation of the GCH1-GFRP Complex. JACC Basic To Translational Science, 2018, 3, 366-377.	4.1	18
33	Development of new in vitro models of lung protease activity for investigating stability of inhaled biological therapies and drug delivery systems. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 146, 64-72.	4.3	17
34	Adenosine monophosphate is elevated in the bronchoalveolar lavage fluid of mice with acute respiratory toxicity induced by nanoparticles with high surface hydrophobicity. Nanotoxicology, 2015, 9, 106-115.	3.0	16
35	Lost in translation: what is stopping inhaled nanomedicines from realizing their potential?. Therapeutic Delivery, 2014, 5, 757-761.	2.2	15
36	In Vitro Multiparameter Assay Development Strategy toward Differentiating Macrophage Responses to Inhaled Medicines. Molecular Pharmaceutics, 2015, 12, 2675-2687.	4.6	15

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37	Lung inflammation does not affect the clearance kinetics of lipid nanocapsules following pulmonary administration. Journal of Controlled Release, 2016, 235, 24-33.	9.9	15
38	Hydrophobin-Encapsulated Quantum Dots. ACS Applied Materials & Interfaces, 2016, 8, 4887-4893.	8.0	15
39	In Vivo Optical Performance of a New Class of Near-Infrared-Emitting Conjugated Polymers: Borylated PF8-BT. ACS Applied Materials & Interfaces, 2019, 11, 46525-46535.	8.0	15
40	S-Nitrosophytochelatins: Investigation of the Bioactivity of an Oligopeptide Nitric Oxide Delivery System. Biomacromolecules, 2011, 12, 2103-2113.	5.4	14
41	Morphometric Characterization of Rat and Human Alveolar Macrophage Cell Models and their Response to Amiodarone using High Content Image Analysis. Pharmaceutical Research, 2017, 34, 2466-2476.	3.5	14
42	Influence of the Surfactant Structure on Photoluminescent Ï€-Conjugated Polymer Nanoparticles: Interfacial Properties and Protein Binding. Langmuir, 2018, 34, 6125-6137.	3.5	14
43	Differences in the coronal proteome acquired by particles depositing in the lungs of asthmatic versus healthy humans. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 2517-2521.	3.3	12
44	Poly(lactide-co-glycolide) Nanoparticles Mediate Sustained Gene Silencing and Improved Biocompatibility of siRNA Delivery Systems in Mouse Lungs after Pulmonary Administration. ACS Applied Materials & Interfaces, 2021, 13, 3722-3737.	8.0	12
45	A poly(vinyl alcohol) nanoparticle platform for kinetic studies of inhaled particles. Inhalation Toxicology, 2009, 21, 631-640.	1.6	11
46	Comparison of Oral, Intranasal and Aerosol Administration of Amiodarone in Rats as a Model of Pulmonary Phospholipidosis. Pharmaceutics, 2019, 11, 345.	4.5	11
47	Synchrotron Photothermal Infrared Nanospectroscopy of Drug-Induced Phospholipidosis in Macrophages. Analytical Chemistry, 2020, 92, 8097-8107.	6.5	10
48	Different PEGâ€PLGA Matrices Influence In Vivo Optical/Photoacoustic Imaging Performance and Biodistribution of NIRâ€Emitting Ï€â€Conjugated Polymer Contrast Agents. Advanced Healthcare Materials, 2021, 10, e2001089.	7.6	9
49	What are the biological and therapeutic implications of biomolecule corona formation on the surface of inhaled nanomedicines?. Nanomedicine, 2015, 10, 343-345.	3.3	8
50	Synthesis and in vivo evaluation of PEG-BPâ€“BaYbF5 nanoparticles for computed tomography imaging and their toxicity. Journal of Materials Chemistry B, 2020, 8, 7723-7732.	5.8	8
51	Enhanced optical imaging properties of lipid nanocapsules as vehicles for fluorescent conjugated polymers. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 154, 297-308.	4.3	8
52	InÂvivo pharmacological activity and biodistribution of S-nitrosophytochelatins after intravenous and intranasal administration in mice. Nitric Oxide - Biology and Chemistry, 2016, 59, 1-9.	2.7	6
53	Tuberculosis Treatment Facilitated by Lipid Nanocarriers: Can Inhalation Improve the Regimen?. Assay and Drug Development Technologies, 2020, 18, 298-307.	1.2	5
54	Synthesis, characterization and evaluation of in vitro toxicity in hepatocytes of linear polyesters with varied aromatic and aliphatic co-monomers. Journal of Controlled Release, 2016, 244, 214-228.	9.9	4

#	Article	IF	Citations
55	Considerations for the Design of Toxicity Studies of Inhaled Nanomedicines. , 0, , 41-60.		3
56	Pharmaceutical quality by design in academic nanomedicine research: stifling innovation or creativity through constraint?. Journal of Interdisciplinary Nanomedicine, 2018, 3, 175-182.	3.6	3
57	Cellular imaging using emission-tuneable conjugated polymer nanoparticles. RSC Advances, 2019, 9, 37971-37976.	3.6	3
58	Supported polymer/lipid hybrid bilayers formation resembles a lipid-like dynamic by reducing the molecular weight of the polymer. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183472.	2.6	2
59	Investigating conjugated polymer nanoparticle formulations for lateral flow immunoassays. RSC Advances, 2021, 11, 29816-29825.	3.6	2
60	Drug reformulation for a neglected disease. The NANOHAT project to develop a safer more effective sleeping sickness drug. PLoS Neglected Tropical Diseases, 2021, 15, e0009276.	3.0	2
61	Thermal Lens Spectrometry Reveals Thermo-Optical Property Tuning of Conjugated Polymer Nanoparticles Prepared by Microfluidics. ACS Applied Polymer Materials, 2022, 4, 6219-6228.	4.4	2
62	Silica passivated conjugated polymer nanoparticles for biological imaging applications. Proceedings of SPIE, 2017, , .	0.8	1