

Olivia M Merkel

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

4,942
citations

76326

40
h-index

95266

68
g-index

105
all docs

105
docs citations

105
times ranked

6085
citing authors

#	ARTICLE	IF	CITATIONS
1	Intranasal drug delivery: opportunities and toxicologic challenges during drug development. <i>Drug Delivery and Translational Research</i> , 2022, 12, 735-757.	5.8	198
2	Hybrid Lipid/Polymer Nanoparticles to Tackle the Cystic Fibrosis Mucus Barrier in siRNA Delivery to the Lungs: Does PEGylation Make the Difference?. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7565-7578.	8.0	37
3	Role of drug delivery technologies in the success of COVID-19 vaccines: a perspective. <i>Drug Delivery and Translational Research</i> , 2022, 12, 2581-2588.	5.8	17
4	Can pulmonary RNA delivery improve our pandemic preparedness?. <i>Journal of Controlled Release</i> , 2022, 345, 549-556.	9.9	5
5	Inhibition of SARS-CoV-2 replication in the lung with siRNA/VIPER polyplexes. <i>Journal of Controlled Release</i> , 2022, 345, 661-674.	9.9	23
6	Targeting genomic SARS-CoV-2 RNA with siRNAs allows efficient inhibition of viral replication and spread. <i>Nucleic Acids Research</i> , 2022, 50, 333-349.	14.5	34
7	From Adsorption to Covalent Bonding: Apolipoprotein E Functionalization of Polymeric Nanoparticles for Drug Delivery Across the Blood-Brain Barrier. <i>Advanced Therapeutics</i> , 2021, 4, 2000092.	3.2	70
8	Characterization of positively charged polyplexes by tunable resistive pulse sensing. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 158, 359-364.	4.3	2
9	Impact of Crystalline and Amorphous Matrices on Successful Spray Drying of siRNA Polyplexes for Inhalation of Nano-Microparticles. <i>Advanced Therapeutics</i> , 2021, 4, 2100073.	3.2	17
10	Air-Liquid Interface Cultures of the Healthy and Diseased Human Respiratory Tract: Promises, Challenges, and Future Directions. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2000111.	3.6	47
11	Effects of Surface Charge, PEGylation and Functionalization with Dipalmitoylphosphatidylglycerol on Liposome-Cell Interactions and Local Drug Delivery to Solid Tumors via Thermosensitive Liposomes. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 4045-4061.	6.7	18
12	siRNA Therapeutics against Respiratory Viral Infections-What Have We Learned for Potential COVID-19 Therapies?. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001650.	7.6	47
13	A Method for Targeted Nonviral siRNA Delivery in Cancer and Inflammatory Diseases. <i>Methods in Molecular Biology</i> , 2020, 2059, 155-166.	0.9	4
14	Immunogenicity of Cas9 Protein. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 62-67.	3.3	99
15	Cover Image, Volume 12, Issue 5. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1666.	6.1	0
16	A smart approach to enable preclinical studies in pharmaceutical industry: PLGA-based extended release formulation platform for subcutaneous applications. <i>Drug Development and Industrial Pharmacy</i> , 2020, 46, 635-645.	2.0	2
17	Nanoparticle-Mediated Gene Silencing for Sensitization of Lung Cancer to Cisplatin Therapy. <i>Molecules</i> , 2020, 25, 1994.	3.8	9
18	Cell targeted pulmonary siRNA delivery for the treatment of asthma. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1634.	6.1	33

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19	Characterization Techniques for Studying the Properties of Nanocarriers for Systemic Delivery. <i>Healthy Ageing and Longevity</i> , 2020, , 57-86.	0.2	0
20	Characterization of spray dried powders with nucleic acid-containing PEI nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 143, 61-69.	4.3	41
21	The Impact of Nylon-3 Copolymer Composition on the Efficiency of siRNA Delivery to Glioblastoma Cells. <i>Nanomaterials</i> , 2019, 9, 986.	4.1	18
22	T Cell Transfection: Coming in and Finding Out: Blending Receptor-Targeted Delivery and Efficient Endosomal Escape in a Novel Bio-Responsive siRNA Delivery System for Gene Knockdown in Pulmonary T Cells (<i>Adv. Therap.</i> 7/2019). <i>Advanced Therapeutics</i> , 2019, 2, 1970015.	3.2	2
23	Targeting KRAS Mutant Lung Cancer Cells with siRNA-Loaded Bovine Serum Albumin Nanoparticles. <i>Pharmaceutical Research</i> , 2019, 36, 133.	3.5	33
24	Nose-to-brain delivery of biologics. <i>Therapeutic Delivery</i> , 2019, 10, 207-210.	2.2	18
25	Recent progress of polymeric nanogels for gene delivery. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 39, 11-23.	7.4	53
26	Dry powder inhalation of siRNA. <i>Therapeutic Delivery</i> , 2019, 10, 265-267.	2.2	11
27	Microfluidic Assembly of siRNA-Loaded Micelleplexes for Tumor Targeting in an Orthotopic Model of Ovarian Cancer. <i>Methods in Molecular Biology</i> , 2019, 1974, 355-369.	0.9	2
28	Pulmonary delivery of siRNA as a novel treatment for lung diseases. <i>Therapeutic Delivery</i> , 2019, 10, 203-206.	2.2	26
29	Coming in and Finding Out: Blending Receptor-Targeted Delivery and Efficient Endosomal Escape in a Novel Bio-Responsive siRNA Delivery System for Gene Knockdown in Pulmonary T Cells. <i>Advanced Therapeutics</i> , 2019, 2, 1900047.	3.2	21
30	Flow Cytometry-Based Cell Type-Specific Assessment of Target Regulation by Pulmonary siRNA Delivery. <i>Methods in Molecular Biology</i> , 2019, 1943, 365-375.	0.9	0
31	Evaluating the Regulation of Cytokine Levels After siRNA Treatment in Antigen-Specific Target Cell Populations via Intracellular Staining. <i>Methods in Molecular Biology</i> , 2019, 1943, 323-331.	0.9	4
32	CRISPR-cas gene-editing as plausible treatment of neuromuscular and nucleotide-repeat-expansion diseases: A systematic review. <i>PLoS ONE</i> , 2019, 14, e0212198.	2.5	25
33	Lipids and polymers in pharmaceutical technology: Lifelong companions. <i>International Journal of Pharmaceutics</i> , 2019, 558, 128-142.	5.2	101
34	In vitro and in vivo delivery of siRNA via VIPER polymer system to lung cells. <i>Journal of Controlled Release</i> , 2018, 276, 50-58.	9.9	52
35	Characterization of Dopaminergic System in the Striatum of Young Adult Park2 ^{+/+} Knockout Rats. <i>Scientific Reports</i> , 2018, 8, 1517.	3.3	17
36	Mannose and Mannose-6-Phosphate Receptor-Targeted Drug Delivery Systems and Their Application in Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701398.	7.6	62

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37	Evaluation of 125 I-Sitosterol Loaded PLGA and PEG-PLA Nanoparticles for Effective Treatment of Breast Cancer: Preparation, Physicochemical Characterization, and Antitumor Activity. <i>Pharmaceutics</i> , 2018, 10, 232.	4.5	33
38	Physicochemical and In Vitro Evaluation of Drug Delivery of an Antibacterial Synthetic Benzophenone in Biodegradable PLGA Nanoparticles. <i>AAPS PharmSciTech</i> , 2018, 19, 3561-3570.	3.3	5
39	Correlating quantitative tumor accumulation and gene knockdown using SPECT/CT and bioluminescence imaging within an orthotopic ovarian cancer model. <i>Biomaterials</i> , 2018, 178, 183-192.	11.4	10
40	The impact of microfluidic mixing of triblock micelleplexes on <i>in vitro</i> gene silencing and intracellular trafficking. <i>Nanotechnology</i> , 2017, 28, 224001.	2.6	20
41	Revisiting the value of competition assays in folate receptor-mediated drug delivery. <i>Biomaterials</i> , 2017, 138, 35-45.	11.4	56
42	Bridging the Gap between the Bench and the Clinic. , 2017, , 255-286.		0
43	Targeted Delivery of siRNA to Transferrin Receptor Overexpressing Tumor Cells via Peptide Modified Polyethylenimine. <i>Molecules</i> , 2016, 21, 1334.	3.8	32
44	Post-Transcriptional Regulation of the GASC1 Oncogene with Active Tumor-Targeted siRNA-Nanoparticles. <i>Molecular Pharmaceutics</i> , 2016, 13, 2605-2621.	4.6	5
45	Effect of the Route of Administration and PEGylation of Poly(amidoamine) Dendrimers on Their Systemic and Lung Cellular Biodistribution. <i>Molecular Pharmaceutics</i> , 2016, 13, 1866-1878.	4.6	52
46	Folate receptor targeted three-layered micelles and hydrogels for gene delivery to activated macrophages. <i>Journal of Controlled Release</i> , 2016, 244, 269-279.	9.9	39
47	Tackling breast cancer chemoresistance with nano-formulated siRNA. <i>Gene Therapy</i> , 2016, 23, 821-828.	4.5	25
48	Biodegradable Three-Layered Micelles and Injectable Hydrogels. <i>Methods in Molecular Biology</i> , 2016, 1445, 175-185.	0.9	5
49	Efficient and Tumor Targeted siRNA Delivery by Polyethylenimine- <i>graft</i> -polycaprolactone- <i>block</i> -poly(ethylene glycol)-folate (PEI- <i>g</i> -PCL- <i>b</i> -PEG-Fol). <i>Molecular Pharmaceutics</i> , 2016, 13, 134-143.	4.6	84
50	Folate Receptor Targeted Delivery of siRNA and Paclitaxel to Ovarian Cancer Cells via Folate Conjugated Triblock Copolymer to Overcome TLR4 Driven Chemotherapy Resistance. <i>Biomacromolecules</i> , 2016, 17, 76-87.	5.4	72
51	Targeted delivery of siRNA to activated T cells via transferrin-polyethylenimine (Tf-PEI) as a potential therapy of asthma. <i>Journal of Controlled Release</i> , 2016, 229, 120-129.	9.9	95
52	Indium-Labeling of siRNA for Small Animal SPECT Imaging. <i>Methods in Molecular Biology</i> , 2016, 1372, 79-88.	0.9	7
53	Pulmonary Delivery of siRNA via Polymeric Vectors as Therapies of Asthma. <i>Archiv Der Pharmazie</i> , 2015, 348, 681-688.	4.1	15
54	Screening Nylon-3 Polymers, a New Class of Cationic Amphiphiles, for siRNA Delivery. <i>Molecular Pharmaceutics</i> , 2015, 12, 362-374.	4.6	25

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55	Three-layered Biodegradable Micelles Prepared by Two-step Self-assembly of PLA-PEI-PLA and PLA-PEG-PLA Triblock Copolymers as Efficient Gene Delivery System. <i>Macromolecular Bioscience</i> , 2015, 15, 698-711.	4.1	34
56	Applications of polymer micelles for imaging and drug delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015, 7, 691-707.	6.1	198
57	Advances and Challenges in the Delivery of Nucleic Acid Therapeutics (Volume 1). , 2015, , .		0
58	The advantages of pulmonary delivery of therapeutic siRNA. <i>Therapeutic Delivery</i> , 2015, 6, 407-409.	2.2	15
59	Semifluorinated alkanes as a liquid drug carrier system for topical ocular drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 123-128.	4.3	36
60	Amphiphilic Biodegradable PEG-PCL-PEI Triblock Copolymers for FRET-Capable <i>in Vitro</i> and <i>in Vivo</i> Delivery of siRNA and Quantum Dots. <i>Molecular Pharmaceutics</i> , 2014, 11, 1273-1281.	4.6	82
61	Nanoimprinting of topographical and 3D cell culture scaffolds. <i>Nanomedicine</i> , 2014, 9, 349-366.	3.3	20
62	siRNA Delivery to the lung: What's new?. <i>Advanced Drug Delivery Reviews</i> , 2014, 75, 112-128.	13.7	113
63	Quo vadis polyplex?. <i>Journal of Controlled Release</i> , 2014, 190, 415-423.	9.9	36
64	Influence of Oligospermines Architecture on Their Suitability for siRNA Delivery. <i>Biomacromolecules</i> , 2014, 15, 1299-1310.	5.4	28
65	Biodistribution of the GATA-3-specific DNzyme hgd40 after inhalative exposure in mice, rats and dogs. <i>Toxicology and Applied Pharmacology</i> , 2013, 272, 365-372.	2.8	25
66	Flow Cytometry-Based Cell Type-Specific Assessment of Target Regulation by Pulmonary siRNA Delivery. <i>Methods in Molecular Biology</i> , 2013, 948, 263-273.	0.9	7
67	Tracking and treating activated T cells. <i>Journal of Drug Delivery Science and Technology</i> , 2013, 23, 17-21.	3.0	10
68	Pulmonary Gene Delivery Using Polymeric Nonviral Vectors. <i>Bioconjugate Chemistry</i> , 2012, 23, 3-20.	3.6	63
69	Targeting the Blind Spot of Polycationic Nanocarrier-Based siRNA Delivery. <i>ACS Nano</i> , 2012, 6, 9447-9454.	14.6	83
70	Nonviral Pulmonary Delivery of siRNA. <i>Accounts of Chemical Research</i> , 2012, 45, 961-970.	15.6	83
71	Poly(ethylene carbonate) Nanoparticles as Carrier System for Chemotherapy Showing Prolonged <i>in vivo</i> Circulation and Anti-Tumor Efficacy. <i>Macromolecular Bioscience</i> , 2012, 12, 970-978.	4.1	6
72	Amphiphilic and biodegradable hy-PEI-g-PCL-b-PEG copolymers efficiently mediate transgene expression depending on their graft density. <i>International Journal of Pharmaceutics</i> , 2012, 427, 80-87.	5.2	42

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73	Enhancing in vivo circulation and siRNA delivery with biodegradable polyethylenimine-graft-polycaprolactone-block-poly(ethylene glycol) copolymers. <i>Biomaterials</i> , 2012, 33, 6551-6558.	11.4	88
74	PEGylated poly(ethylene imine) copolymer-delivered siRNA inhibits HIV replication in vitro. <i>Journal of Controlled Release</i> , 2012, 157, 55-63.	9.9	45
75	Controlled pulmonary drug and gene delivery using polymeric nano-carriers. <i>Journal of Controlled Release</i> , 2012, 161, 214-224.	9.9	177
76	Comparative in vivo study of poly(ethylene imine)/siRNA complexes for pulmonary delivery in mice. <i>Journal of Controlled Release</i> , 2011, 151, 51-56.	9.9	93
77	Molecular modeling and in vivo imaging can identify successful flexible triazine dendrimer-based siRNA delivery systems. <i>Journal of Controlled Release</i> , 2011, 153, 23-33.	9.9	47
78	Biophysical characterization of hyper-branched polyethylenimine-graft-polycaprolactone-block-mono-methoxyl-poly(ethylene glycol) copolymers (hy-PEI-PCL-mPEG) for siRNA delivery. <i>Journal of Controlled Release</i> , 2011, 153, 262-268.	9.9	64
79	In vitro and in vivo complement activation and related anaphylactic effects associated with polyethylenimine and polyethylenimine-graft-poly(ethylene glycol) block copolymers. <i>Biomaterials</i> , 2011, 32, 4936-4942.	11.4	115
80	Biodegradable Poly(ethylene carbonate) Nanoparticles as a Promising Drug Delivery System with "Stealth" Potential. <i>Macromolecular Bioscience</i> , 2011, 11, 897-904.	4.1	18
81	Polymer-related off-target effects in non-viral siRNA delivery. <i>Biomaterials</i> , 2011, 32, 2388-2398.	11.4	90
82	Low Molecular Weight pDMAEMA-block-pHEMA Block-Copolymers Synthesized via RAFT-Polymerization: Potential Non-Viral Gene Delivery Agents?. <i>Polymers</i> , 2011, 3, 693-718.	4.5	70
83	PEGylation affects cytotoxicity and cell-compatibility of poly(ethylene imine) for lung application: Structure-function relationships. <i>Toxicology and Applied Pharmacology</i> , 2010, 242, 146-154.	2.8	85
84	Perfectly shaped siRNA delivery. <i>Therapeutic Delivery</i> , 2010, 1, 737-742.	2.2	4
85	Computational Insights into the Interactions between DNA and siRNA with "Rigid" and "Flexible" Triazine Dendrimers. <i>Biomacromolecules</i> , 2010, 11, 721-730.	5.4	76
86	Triazine Dendrimers as Nonviral Vectors for in Vitro and in Vivo RNAi: The Effects of Peripheral Groups and Core Structure on Biological Activity. <i>Molecular Pharmaceutics</i> , 2010, 7, 969-983.	4.6	92
87	In vivo pharmacokinetics, tissue distribution and underlying mechanisms of various PEI("PEG)/siRNA complexes. <i>Toxicology and Applied Pharmacology</i> , 2009, 236, 97-108.	2.8	178
88	Stability of siRNA polyplexes from poly(ethylenimine) and poly(ethylenimine)-g-poly(ethylene glycol) under in vivo conditions: Effects on pharmacokinetics and biodistribution measured by Fluorescence Fluctuation Spectroscopy and Single Photon Emission Computed Tomography (SPECT) imaging. <i>Journal of Controlled Release</i> , 2009, 138, 148-159.	9.9	173
89	A new synthesis method and degradation of hyper-branched polyethylenimine grafted polycaprolactone block mono-methoxyl poly(ethylene glycol) copolymers (hy-PEI-g-PCL-b-mPEG) as potential DNA delivery vectors. <i>Polymer</i> , 2009, 50, 3895-3904.	3.8	56
90	Integrin $\alpha_5\beta_1$ Targeted Gene Delivery Using RGD Peptidomimetic Conjugates with Copolymers of PEGylated Poly(ethylene imine). <i>Bioconjugate Chemistry</i> , 2009, 20, 1270-1280.	3.6	39

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91	Nonviral siRNA Delivery to the Lung: Investigation of PEG ⁺ PEI Polyplexes and Their In Vivo Performance. <i>Molecular Pharmaceutics</i> , 2009, 6, 1246-1260.	4.6	173
92	Triazine Dendrimers as Nonviral Gene Delivery Systems: Effects of Molecular Structure on Biological Activity. <i>Bioconjugate Chemistry</i> , 2009, 20, 1799-1806.	3.6	79
93	Polycationic triazine-based dendrimers: effect of peripheral groups on transfection efficiency. <i>New Journal of Chemistry</i> , 2009, 33, 1918.	2.8	39
94	In Vivo SPECT and Real-Time Gamma Camera Imaging of Biodistribution and Pharmacokinetics of siRNA Delivery Using an Optimized Radiolabeling and Purification Procedure. <i>Bioconjugate Chemistry</i> , 2009, 20, 174-182.	3.6	97
95	Fast degrading polyesters as siRNA nano-carriers for pulmonary gene therapy. <i>Journal of Controlled Release</i> , 2008, 132, 243-251.	9.9	131
96	Influence of Polyethylene Glycol Chain Length on the Physicochemical and Biological Properties of Poly(ethylene imine)-graft-Poly(ethylene glycol) Block Copolymer/SiRNA Polyplexes. <i>Bioconjugate Chemistry</i> , 2006, 17, 1209-1218.	3.6	295