

Catherine A Fromen

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,097
citations

516710

16
h-index

434195

31
g-index

39
all docs

39
docs citations

39
times ranked

1742
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhalable mRNA vaccines for respiratory diseases: a roadmap. <i>Current Opinion in Biotechnology</i> , 2022, 74, 104-109.	6.6	10
2	Nanoparticle Internalization Promotes the Survival of Primary Macrophages. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	3.6	5
3	Realizing Lobe-Specific Aerosol Targeting in a 3D-Printed <i>In Vitro</i> Lung Model. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2021, 34, 42-56.	1.4	14
4	Hydrogel nanoparticle degradation influences the activation and survival of primary macrophages. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7246-7257.	5.8	6
5	Deformable microparticles for shuttling nanoparticles to the vascular wall. <i>Science Advances</i> , 2021, 7, .	10.3	28
6	Scalable 3D-printed lattices for pressure control in fluid applications. <i>AIChE Journal</i> , 2021, 67, e17452.	3.6	12
7	Biomaterials-Based Opportunities to Engineer the Pulmonary Host Immune Response in COVID-19. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1742-1764.	5.2	16
8	Scalable, process-oriented beam lattices: Generation, characterization, and compensation for open cellular structures. <i>Additive Manufacturing</i> , 2021, 48, 102386.	3.0	7
9	Degradation profiles of poly(ethylene glycol)diacrylate (PEGDA)-based hydrogel nanoparticles. <i>Polymer Chemistry</i> , 2020, 11, 568-580.	3.9	46
10	Glottis motion effects on the particle transport and deposition in a subject-specific mouth-to-trachea model: A CFD study. <i>Computers in Biology and Medicine</i> , 2020, 116, 103532.	7.0	31
11	Polymeric Nanoparticles. , 2020, , 303-324.		23
12	Evaluating UiO-66 Metal-Organic Framework Nanoparticles as Acid-Sensitive Carriers for Pulmonary Drug Delivery Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38989-39004.	8.0	102
13	Significant Unresolved Questions and Opportunities for Bioengineering in Understanding and Treating COVID-19 Disease Progression. <i>Cellular and Molecular Bioengineering</i> , 2020, 13, 259-284.	2.1	5
14	Geometric model to predict improvement after lingual frenulectomy for ankyloglossia. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2020, 134, 110063.	1.0	0
15	Check the gap: Facemask performance and exhaled aerosol distributions around the wearer. <i>PLoS ONE</i> , 2020, 15, e0243885.	2.5	15
16	The HensNest: Mass Manufacturing a General Use Face Mask Here in Delaware. <i>Delaware Journal of Public Health</i> , 2020, 6, 36-38.	0.3	0
17	Engineering Preclinical Tools and Therapeutics to Understand and Treat COVID-19. <i>Delaware Journal of Public Health</i> , 2020, 6, 32-35.	0.3	0
18	Evaluating Regional Pulmonary Deposition using Patient-Specific 3D Printed Lung Models. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	1

#	ARTICLE	IF	CITATIONS
19	Controlling Size, Defectiveness, and Fluorescence in Nanoparticle UiO-66 through Water and Ligand Modulation. <i>Chemistry of Materials</i> , 2019, 31, 4831-4839.	6.7	41
20	Model Particulate Drug Carriers Modulate Leukocyte Adhesion in Human Blood Flows. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6530-6540.	5.2	9
21	PEGylation of model drug carriers enhances phagocytosis by primary human neutrophils. <i>Acta Biomaterialia</i> , 2018, 79, 283-293.	8.3	65
22	Potent Immune Stimulation from Nanoparticle Carriers Relies on the Interplay of Adjuvant Surface Density and Adjuvant Mass Distribution. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 560-571.	5.2	8
23	Exploring deformable particles in vascular-targeted drug delivery: Softer is only sometimes better. <i>Biomaterials</i> , 2017, 124, 169-179.	11.4	45
24	Neutrophil-Particle Interactions in Blood Circulation Drive Particle Clearance and Alter Neutrophil Responses in Acute Inflammation. <i>ACS Nano</i> , 2017, 11, 10797-10807.	14.6	71
25	Pulmonary Delivery of Butyrylcholinesterase as a Model Protein to the Lung. <i>Molecular Pharmaceutics</i> , 2016, 13, 1626-1635.	4.6	15
26	Evaluation of receptor-ligand mechanisms of dual-targeted particles to an inflamed endothelium. <i>Bioengineering and Translational Medicine</i> , 2016, 1, 103-115.	7.1	23
27	Nanoparticle surface charge impacts distribution, uptake and lymph node trafficking by pulmonary antigen-presenting cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 677-687.	3.3	119
28	Tumor Presence Induces Global Immune Changes and Enhances Nanoparticle Clearance. <i>ACS Nano</i> , 2016, 10, 861-870.	14.6	51
29	Distribution and Cellular Uptake of PEGylated Polymeric Particles in the Lung Towards Cell-Specific Targeted Delivery. <i>Pharmaceutical Research</i> , 2015, 32, 3248-3260.	3.5	36
30	Controlled analysis of nanoparticle charge on mucosal and systemic antibody responses following pulmonary immunization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 488-493.	7.1	124
31	Emergence and Utility of Nonspherical Particles in Biomedicine. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 4043-4059.	3.7	52
32	Drug carrier interaction with blood: a critical aspect for high-efficient vascular-targeted drug delivery systems. <i>Therapeutic Delivery</i> , 2015, 6, 915-934.	2.2	13
33	Biomedical Nanopreparations with Controlled Geometry. <i>Frontiers in Nanobiomedical Research</i> , 2014, , 349-400.	0.1	0
34	Synthesis and characterization of monodisperse uniformly shaped respirable aerosols. <i>AIChE Journal</i> , 2013, 59, 3184-3194.	3.6	11
35	Microfabricated Engineered Particle Systems for Respiratory Drug Delivery and Other Pharmaceutical Applications. <i>Journal of Drug Delivery</i> , 2012, 2012, 1-10.	2.5	52
36	Generation of a Library of Particles Having Controlled Sizes and Shapes via the Mechanical Elongation of Master Templates. <i>Langmuir</i> , 2011, 27, 524-528.	3.5	36

#	ARTICLE	IF	CITATIONS
37	Modeling the effects of microencapsulation on the electro-optic behavior of polymer cholesteric liquid crystal flakes. Journal of Applied Physics, 2009, 106, 124911.	2.5	3