

Kristy M. Ainslie

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3267341/publications.pdf>

Version: 2024-02-01

91
papers

3,478
citations

109137

35
h-index

149479

56
g-index

92
all docs

92
docs citations

92
times ranked

4353
citing authors

#	ARTICLE	IF	CITATIONS
1	Heparan Sulfate Proteoglycan Is a Mechanosensor on Endothelial Cells. <i>Circulation Research</i> , 2003, 93, e136-42.	2.0	498
2	A nanoparticle-incorporated STING activator enhances antitumor immunity in PD-L1-insensitive models of triple-negative breast cancer. <i>JCI Insight</i> , 2018, 3, .	2.3	175
3	A robust microparticle platform for a STING-targeted adjuvant that enhances both humoral and cellular immunity during vaccination. <i>Journal of Controlled Release</i> , 2018, 270, 1-13.	4.8	119
4	In Vitro Analysis of Acetalated Dextran Microparticles as a Potent Delivery Platform for Vaccine Adjuvants. <i>Molecular Pharmaceutics</i> , 2010, 7, 826-835.	2.3	118
5	Acetalated Dextran: A Tunable and Acid-Labile Biopolymer with Facile Synthesis and a Range of Applications. <i>Chemical Reviews</i> , 2017, 117, 1915-1926.	23.0	113
6	Microfabricated implants for applications in therapeutic delivery, tissue engineering, and biosensing. <i>Lab on A Chip</i> , 2008, 8, 1864.	3.1	105
7	<i>In vitro</i> inflammatory response of nanostructured titania, silicon oxide, and polycaprolactone. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 647-655.	2.1	90
8	Synthesis and Characterization of Acetalated Dextran Polymer and Microparticles with Ethanol as a Degradation Product. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4149-4155.	4.0	78
9	Electrospray Encapsulation of Toll-Like Receptor Agonist Resiquimod in Polymer Microparticles for the Treatment of Visceral Leishmaniasis. <i>Molecular Pharmaceutics</i> , 2013, 10, 1045-1055.	2.3	72
10	A microparticle platform for STING-targeted immunotherapy enhances natural killer cell- and CD8+ T cell-mediated anti-tumor immunity. <i>Biomaterials</i> , 2019, 205, 94-105.	5.7	67
11	Acetalated Dextran Microparticles for Codelivery of STING and TLR7/8 Agonists. <i>Molecular Pharmaceutics</i> , 2018, 15, 4933-4946.	2.3	64
12	Vaccine formulations in clinical development for the prevention of severe acute respiratory syndrome coronavirus 2 infection. <i>Advanced Drug Delivery Reviews</i> , 2021, 169, 168-189.	6.6	62
13	Vascular smooth muscle cell glycocalyx influences shear stress-mediated contractile response. <i>Journal of Applied Physiology</i> , 2005, 98, 242-249.	1.2	61
14	Synthesis, Optimization, and Characterization of Camptothecin-Loaded Acetalated Dextran Porous Microparticles for Pulmonary Delivery. <i>Molecular Pharmaceutics</i> , 2012, 9, 290-298.	2.3	61
15	Tunable degradation of acetalated dextran microparticles enables controlled vaccine adjuvant and antigen delivery to modulate adaptive immune responses. <i>Journal of Controlled Release</i> , 2018, 273, 147-159.	4.8	61
16	Microfabricated Devices for Enhanced Bioadhesive Drug Delivery: Attachment to and Small-Molecule Release Through a Cell Monolayer Under Flow. <i>Small</i> , 2009, 5, 2857-2863.	5.2	60
17	Treatment of Experimental Autoimmune Encephalomyelitis by Codelivery of Disease Associated Peptide and Dexamethasone in Acetalated Dextran Microparticles. <i>Molecular Pharmaceutics</i> , 2014, 11, 828-835.	2.3	57
18	PRMT5-Selective Inhibitors Suppress Inflammatory T Cell Responses and Experimental Autoimmune Encephalomyelitis. <i>Journal of Immunology</i> , 2017, 198, 1439-1451.	0.4	57

#	ARTICLE	IF	CITATIONS
19	Investigation of tunable acetalated dextran microparticle platform to optimize M2e-based influenza vaccine efficacy. <i>Journal of Controlled Release</i> , 2018, 289, 114-124.	4.8	57
20	Electrospray for generation of drug delivery and vaccine particles applied in vitro and in vivo. <i>Materials Science and Engineering C</i> , 2019, 105, 110070.	3.8	57
21	Optimization of rapamycin-loaded acetalated dextran microparticles for immunosuppression. <i>International Journal of Pharmaceutics</i> , 2012, 422, 356-363.	2.6	55
22	Microfabrication of an asymmetric, multi-layered microdevice for controlled release of orally delivered therapeutics. <i>Lab on A Chip</i> , 2008, 8, 1042.	3.1	53
23	<i>In vitro</i> Immunogenicity of Silicon-Based Micro- and Nanostructured Surfaces. <i>ACS Nano</i> , 2008, 2, 1076-1084.	7.3	53
24	Enhanced stability of horseradish peroxidase encapsulated in acetalated dextran microparticles stored outside cold chain conditions. <i>International Journal of Pharmaceutics</i> , 2012, 431, 101-110.	2.6	50
25	Efficient Delivery of the Toll-like Receptor Agonists Polyinosinic:Polycytidylic Acid and CpG to Macrophages by Acetalated Dextran Microparticles. <i>Molecular Pharmaceutics</i> , 2013, 10, 2849-2857.	2.3	48
26	Attenuation of Protein Adsorption on Static and Oscillating Magnetostrictive Nanowires. <i>Nano Letters</i> , 2005, 5, 1852-1856.	4.5	43
27	Acetalated Dextran Microparticulate Vaccine Formulated via Coaxial Electrospray Preserves Toxin Neutralization and Enhances Murine Survival Following Inhalational <i>Bacillus Anthracis</i> Exposure. <i>Advanced Healthcare Materials</i> , 2016, 5, 2617-2627.	3.9	42
28	Smooth muscle cells contract in response to fluid flow via a Ca^{2+} -independent signaling mechanism. <i>Journal of Applied Physiology</i> , 2002, 93, 1907-1917.	1.2	40
29	Formation of Primary Amines on Silicon Nitride Surfaces: A Direct, Plasma-Based Pathway to Functionalization. <i>Langmuir</i> , 2007, 23, 4400-4404.	1.6	40
30	Micrometer-sized iron oxide particle labeling of mesenchymal stem cells for magnetic resonance imaging-based monitoring of cartilage tissue engineering. <i>Magnetic Resonance Imaging</i> , 2011, 29, 40-49.	1.0	39
31	Sustained Delivery of Doxorubicin via Acetalated Dextran Scaffold Prevents Glioblastoma Recurrence after Surgical Resection. <i>Molecular Pharmaceutics</i> , 2018, 15, 1309-1318.	2.3	38
32	Cell Adhesion on Nanofibrous Polytetrafluoroethylene (nPTFE). <i>Langmuir</i> , 2007, 23, 747-754.	1.6	37
33	Liposomal resiquimod for the treatment of <i>Leishmania donovani</i> infection. <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 168-175.	1.3	37
34	Degradation of acetalated dextran can be broadly tuned based on cyclic acetal coverage and molecular weight. <i>International Journal of Pharmaceutics</i> , 2016, 512, 147-157.	2.6	37
35	Considerations for Size, Surface Charge, Polymer Degradation, Co-Delivery, and Manufacturability in the Development of Polymeric Particle Vaccines for Infectious Diseases. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2000041.	1.7	37
36	Protein Adhesion on Silicon-Supported Hyperbranched Poly(ethylene glycol) and Poly(allylamine) Thin Films. <i>Langmuir</i> , 2007, 23, 7018-7023.	1.6	35

#	ARTICLE	IF	CITATIONS
37	Tumor Responsive and Tunable Polymeric Platform for Optimized Delivery of Paclitaxel to Treat Glioblastoma. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19345-19356.	4.0	32
38	Rapid Vaccination Using an Acetalated Dextran Microparticulate Subunit Vaccine Confers Protection Against Triplicate Challenge by <i>Bacillus Anthracis</i> . <i>Pharmaceutical Research</i> , 2013, 30, 1349-1361.	1.7	30
39	Electrospun Acetalated Dextran Scaffolds for Temporal Release of Therapeutics. <i>Langmuir</i> , 2013, 29, 7957-7965.	1.6	29
40	Acetalated dextran encapsulated AR-12 as a host-directed therapy to control <i>Salmonella</i> infection. <i>International Journal of Pharmaceutics</i> , 2014, 477, 334-343.	2.6	29
41	Intracellular Calcium Changes in Rat Aortic Smooth Muscle Cells in Response to Fluid Flow. <i>Annals of Biomedical Engineering</i> , 2002, 30, 371-378.	1.3	28
42	Synergistic drug combinations for a precision medicine approach to interstitial glioblastoma therapy. <i>Journal of Controlled Release</i> , 2020, 323, 282-292.	4.8	28
43	Glycolipid-mediated basophil activation in alpha-gal allergy. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 146, 450-452.	1.5	27
44	One Step Encapsulation of Small Molecule Drugs in Liposomes via Electrospray-Remote Loading. <i>Molecular Pharmaceutics</i> , 2016, 13, 92-99.	2.3	26
45	Host-mediated <i>Leishmania donovani</i> treatment using AR-12 encapsulated in acetalated dextran microparticles. <i>International Journal of Pharmaceutics</i> , 2016, 499, 186-194.	2.6	24
46	Prevention of Type 1 Diabetes with Acetalated Dextran Microparticles Containing Rapamycin and Pancreatic Peptide P31. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800341.	3.9	24
47	Identification of the effector domain of biglycan that facilitates BMP-2 osteogenic function. <i>Scientific Reports</i> , 2018, 8, 7022.	1.6	23
48	Delivery of host cell-directed therapeutics for intracellular pathogen clearance. <i>Expert Review of Anti-Infective Therapy</i> , 2013, 11, 1225-1235.	2.0	22
49	Evaluation of a biodegradable microparticulate polymer as a carrier for <i>Burkholderia pseudomallei</i> subunit vaccines in a mouse model of melioidosis. <i>International Journal of Pharmaceutics</i> , 2015, 495, 849-861.	2.6	22
50	Chemically modified inulin microparticles serving dual function as a protein antigen delivery vehicle and immunostimulatory adjuvant. <i>Biomaterials Science</i> , 2016, 4, 483-493.	2.6	22
51	Electrosprayed Myocet-like Liposomes: An Alternative to Traditional Liposome Production. <i>Pharmaceutical Research</i> , 2017, 34, 419-426.	1.7	22
52	A Novel Sterol Isolated from a Plant Used by Mayan Traditional Healers Is Effective in Treatment of Visceral Leishmaniasis Caused by <i>Leishmania donovani</i> . <i>ACS Infectious Diseases</i> , 2015, 1, 497-506.	1.8	18
53	Needle-Free Delivery of Acetalated Dextran-Encapsulated AR-12 Protects Mice from <i>Francisella tularensis</i> Lethal Challenge. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 2052-2062.	1.4	18
54	Co-Delivery of Disease Associated Peptide and Rapamycin via Acetalated Dextran Microparticles for Treatment of Multiple Sclerosis. <i>Advanced Biology</i> , 2017, 1, 1700022.	3.0	18

#	ARTICLE	IF	CITATIONS
55	Drug Delivery for Cancer Immunotherapy and Vaccines. <i>Pharmaceutical Nanotechnology</i> , 2019, 6, 232-244.	0.6	18
56	STING Agonist Mitigates Experimental Autoimmune Encephalomyelitis by Stimulating Type I IFN-Dependent and -Independent Immune-Regulatory Pathways. <i>Journal of Immunology</i> , 2021, 206, 2015-2028.	0.4	18
57	Historical Perspective of Clinical Nano and Microparticle Formulations for Delivery of Therapeutics. <i>Trends in Molecular Medicine</i> , 2021, 27, 516-519.	3.5	17
58	Design of Biopolymer-Based Interstitial Therapies for the Treatment of Glioblastoma. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13160.	1.8	17
59	In Vivo and Cellular Trafficking of Acetalated Dextran Microparticles for Delivery of a Host-Directed Therapy for <i>Salmonella enterica</i> Serovar Typhi Infection. <i>Molecular Pharmaceutics</i> , 2018, 15, 5336-5348.	2.3	16
60	Metal-Organic Coordination Polymer for Delivery of a Subunit Broadly Acting Influenza Vaccine. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28548-28558.	4.0	15
61	Polymeric Biomaterial Scaffolds for Tumoricidal Stem Cell Glioblastoma Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3762-3777.	2.6	14
62	Nano- and Microformulations to Advance Therapies for Visceral Leishmaniasis. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1725-1741.	2.6	14
63	STING agonist-containing microparticles improve seasonal influenza vaccine efficacy and durability in ferrets over standard adjuvant. <i>Journal of Controlled Release</i> , 2022, 347, 356-368.	4.8	13
64	Saquinavir Loaded Acetalated Dextran Microconfetti - a Long Acting Protease Inhibitor Injectable. <i>Pharmaceutical Research</i> , 2016, 33, 1998-2009.	1.7	12
65	Evaluation of synergy between host and pathogen-directed therapies against intracellular <i>Leishmania donovani</i> . <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2019, 10, 125-132.	1.4	12
66	Formulation of host-targeted therapeutics against bacterial infections. <i>Translational Research</i> , 2020, 220, 98-113.	2.2	11
67	Merozoite surface protein 2 adsorbed onto acetalated dextran microparticles for malaria vaccination. <i>International Journal of Pharmaceutics</i> , 2021, 593, 120168.	2.6	11
68	Utilizing a Quartz Crystal Microbalance for Quantifying CD4 ⁺ T Cell Counts. <i>Sensor Letters</i> , 2005, 3, 211-215.	0.4	11
69	Vaccines for the Prevention of Melioidosis and Glanders. <i>Current Tropical Medicine Reports</i> , 2017, 4, 136-145.	1.6	10
70	Injectable, Ribbon-Like Microconfetti Biopolymer Platform for Vaccine Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38950-38961.	4.0	10
71	Macrophage cell adhesion and inflammation cytokines on magnetostrictive nanowires. <i>Nanotoxicology</i> , 2007, 1, 279-290.	1.6	8
72	Oxidation-Sensitive Dextran-Based Polymer with Improved Processability through Stable Boronic Ester Groups. <i>ACS Applied Bio Materials</i> , 2019, 2, 3755-3762.	2.3	8

#	ARTICLE	IF	CITATIONS
73	Flexible, microstructured surfaces using chitin-derived biopolymers. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5328-5335.	2.9	8
74	Impact of composite scaffold degradation rate on neural stem cell persistence in the glioblastoma surgical resection cavity. <i>Materials Science and Engineering C</i> , 2020, 111, 110846.	3.8	8
75	Dexamethasone and Fumaric Acid Ester Conjugate Synergistically Inhibits Inflammation and NF- κ B in Macrophages. <i>Bioconjugate Chemistry</i> , 2021, 32, 1629-1640.	1.8	8
76	Inflammatory Response to Implanted Nanostructured Materials. , 2009, , 355-371.		8
77	Development of an Intranasal Gel for the Delivery of a Broadly Acting Subunit Influenza Vaccine. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1573-1582.	2.6	8
78	Multiplexed electrospray enables high throughput production of cGAMP microparticles to serve as an adjuvant for a broadly acting influenza vaccine. <i>International Journal of Pharmaceutics</i> , 2022, 622, 121839.	2.6	8
79	Rat Aortic Smooth Muscle Cells Contract in Response to Serum and Its Components in a Calcium Independent Manner. <i>Annals of Biomedical Engineering</i> , 2004, 32, 1667-1675.	1.3	7
80	Injectable long-acting human immunodeficiency virus antiretroviral prodrugs with improved pharmacokinetic profiles. <i>International Journal of Pharmaceutics</i> , 2018, 552, 371-377.	2.6	7
81	Microparticles formulated from a family of novel silylated polysaccharides demonstrate inherent immunostimulatory properties and tunable hydrolytic degradability. <i>Journal of Materials Chemistry B</i> , 2016, 4, 4302-4312.	2.9	5
82	Micro- and Nano-particulate Strategies for Antigen Specific Immune Tolerance to Treat Autoimmune Diseases. <i>Pharmaceutical Nanotechnology</i> , 2015, 3, 85-100.	0.6	5
83	Nano/microparticle Formulations for Universal Influenza Vaccines. <i>AAPS Journal</i> , 2022, 24, 24.	2.2	4
84	Microtechnologies for Drug Delivery. , 2012, , 359-381.		3
85	Abstract LB-126: Nanoparticle-incorporated STING activator as an immunotherapeutic for PD-L1 resistant triple-negative breast cancer. <i>Cancer Research</i> , 2018, 78, LB-126-LB-126.	0.4	2
86	Attenuation of Protein Adsorption on Static and Vibrating Magnetic Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2005, 877, 1.	0.1	1
87	Overcoming reduced antibiotic susceptibility in intracellular <i>Salmonella enterica</i> serovar Typhimurium using AR-12. <i>FEMS Microbiology Letters</i> , 2021, 368, .	0.7	1
88	Delivery strategies for cancer vaccines and immunoadjuvants. , 2022, , 359-408.		1
89	Drug Delivery Strategies for Tolerogenic Therapy for Autoimmune Diseases in an Antigen-Specific Manner. , 2019, , 112-140.		0
90	Drug Delivery Strategies for Tolerogenic Therapy for Autoimmune Diseases in an Antigen-Specific Manner. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 0, , 23-51.	0.3	0

#	ARTICLE	IF	CITATIONS
91	The AAPS Journal Theme Issue: Rising Stars in Drug Delivery and Novel Carriers. AAPS Journal, 2022, 24, 51.	2.2	0