

# Kristy M. Ainslie

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3267341/kristy-m-ainslie-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84  
papers

2,593  
citations

31  
h-index

48  
g-index

92  
ext. papers

3,075  
ext. citations

7.3  
avg, IF

5.17  
L-index

#	Paper	IF	Citations
84	Heparan sulfate proteoglycan is a mechanosensor on endothelial cells. <i>Circulation Research</i> , <b>2003</b> , 93, e136-42	15.7	405
83	In vitro analysis of acetalated dextran microparticles as a potent delivery platform for vaccine adjuvants. <i>Molecular Pharmaceutics</i> , <b>2010</b> , 7, 826-35	5.6	111
82	A nanoparticle-incorporated STING activator enhances antitumor immunity in PD-L1-insensitive models of triple-negative breast cancer. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	109
81	Microfabricated implants for applications in therapeutic delivery, tissue engineering, and biosensing. <i>Lab on A Chip</i> , <b>2008</b> , 8, 1864-78	7.2	93
80	A robust microparticle platform for a STING-targeted adjuvant that enhances both humoral and cellular immunity during vaccination. <i>Journal of Controlled Release</i> , <b>2018</b> , 270, 1-13	11.7	81
79	In vitro inflammatory response of nanostructured titania, silicon oxide, and polycaprolactone. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 91, 647-55	5.4	79
78	Acetalated Dextran: A Tunable and Acid-Labile Biopolymer with Facile Synthesis and a Range of Applications. <i>Chemical Reviews</i> , <b>2017</b> , 117, 1915-1926	68.1	77
77	Electrospray encapsulation of toll-like receptor agonist resiquimod in polymer microparticles for the treatment of visceral leishmaniasis. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 1045-55	5.6	62
76	Synthesis and characterization of acetalated dextran polymer and microparticles with ethanol as a degradation product. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 4149-55	9.5	58
75	Microfabricated devices for enhanced bioadhesive drug delivery: attachment to and small-molecule release through a cell monolayer under flow. <i>Small</i> , <b>2009</b> , 5, 2857-63	11	55
74	Vascular smooth muscle cell glycocalyx influences shear stress-mediated contractile response. <i>Journal of Applied Physiology</i> , <b>2005</b> , 98, 242-9	3.7	54
73	Synthesis, optimization, and characterization of camptothecin-loaded acetalated dextran porous microparticles for pulmonary delivery. <i>Molecular Pharmaceutics</i> , <b>2012</b> , 9, 290-8	5.6	53
72	Treatment of experimental autoimmune encephalomyelitis by codelivery of disease associated Peptide and dexamethasone in acetalated dextran microparticles. <i>Molecular Pharmaceutics</i> , <b>2014</b> , 11, 828-35	5.6	49
71	Optimization of rapamycin-loaded acetalated dextran microparticles for immunosuppression. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 422, 356-63	6.5	49
70	In vitro immunogenicity of silicon-based micro- and nanostructured surfaces. <i>ACS Nano</i> , <b>2008</b> , 2, 1076-84	6.7	49
69	Tunable degradation of acetalated dextran microparticles enables controlled vaccine adjuvant and antigen delivery to modulate adaptive immune responses. <i>Journal of Controlled Release</i> , <b>2018</b> , 273, 147-159	11.7	47
68	Microfabrication of an asymmetric, multi-layered microdevice for controlled release of orally delivered therapeutics. <i>Lab on A Chip</i> , <b>2008</b> , 8, 1042-7	7.2	46

67	Enhanced stability of horseradish peroxidase encapsulated in acetalated dextran microparticles stored outside cold chain conditions. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 431, 101-10	6.5	45
66	A microparticle platform for STING-targeted immunotherapy enhances natural killer cell- and CD8 T cell-mediated anti-tumor immunity. <i>Biomaterials</i> , <b>2019</b> , 205, 94-105	15.6	42
65	Efficient delivery of the toll-like receptor agonists polyinosinic:polycytidylic acid and CpG to macrophages by acetalated dextran microparticles. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 2849-57	5.6	42
64	Acetalated Dextran Microparticles for Codelivery of STING and TLR7/8 Agonists. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 4933-4946	5.6	42
63	Attenuation of protein adsorption on static and oscillating magnetostrictive nanowires. <i>Nano Letters</i> , <b>2005</b> , 5, 1852-6	11.5	39
62	PRMT5-Selective Inhibitors Suppress Inflammatory T Cell Responses and Experimental Autoimmune Encephalomyelitis. <i>Journal of Immunology</i> , <b>2017</b> , 198, 1439-1451	5.3	38
61	Smooth muscle cells contract in response to fluid flow via a Ca <sup>2+</sup> -independent signaling mechanism. <i>Journal of Applied Physiology</i> , <b>2002</b> , 93, 1907-17	3.7	37
60	Formation of primary amines on silicon nitride surfaces: a direct, plasma-based pathway to functionalization. <i>Langmuir</i> , <b>2007</b> , 23, 4400-4	4	36
59	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> , <b>2011</b> , 29, 40-9	3.3	35
58	Protein adhesion on silicon-supported hyperbranched poly(ethylene glycol) and poly(allylamine) thin films. <i>Langmuir</i> , <b>2007</b> , 23, 7018-23	4	35
57	Vaccine formulations in clinical development for the prevention of severe acute respiratory syndrome coronavirus 2 infection. <i>Advanced Drug Delivery Reviews</i> , <b>2021</b> , 169, 168-189	18.5	35
56	Electrospray for generation of drug delivery and vaccine particles applied in vitro and in vivo. <i>Materials Science and Engineering C</i> , <b>2019</b> , 105, 110070	8.3	33
55	Investigation of tunable acetalated dextran microparticle platform to optimize M2e-based influenza vaccine efficacy. <i>Journal of Controlled Release</i> , <b>2018</b> , 289, 114-124	11.7	33
54	Cell adhesion on nanofibrous polytetrafluoroethylene (nPTFE). <i>Langmuir</i> , <b>2007</b> , 23, 747-54	4	32
53	Acetalated Dextran Microparticulate Vaccine Formulated via Coaxial Electrospray Preserves Toxin Neutralization and Enhances Murine Survival Following Inhalational Bacillus Anthracis Exposure. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2617-2627	10.1	30
52	Liposomal resiquimod for the treatment of Leishmania donovani infection. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2014</b> , 69, 168-75	5.1	27
51	Sustained Delivery of Doxorubicin via Acetalated Dextran Scaffold Prevents Glioblastoma Recurrence after Surgical Resection. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 1309-1318	5.6	26
50	Rapid vaccination using an acetalated dextran microparticulate subunit vaccine confers protection against triplicate challenge by bacillus anthracis. <i>Pharmaceutical Research</i> , <b>2013</b> , 30, 1349-61	4.5	26

49	Electrospun acetalated dextran scaffolds for temporal release of therapeutics. <i>Langmuir</i> , <b>2013</b> , 29, 7957-7965	25
48	Degradation of acetalated dextran can be broadly tuned based on cyclic acetal coverage and molecular weight. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 512, 147-157	6.5 25
47	Acetalated dextran encapsulated AR-12 as a host-directed therapy to control Salmonella infection. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 477, 334-43	6.5 24
46	One Step Encapsulation of Small Molecule Drugs in Liposomes via Electro Spray-Remote Loading. <i>Molecular Pharmaceutics</i> , <b>2016</b> , 13, 92-9	5.6 22
45	Intracellular calcium changes in rat aortic smooth muscle cells in response to fluid flow. <i>Annals of Biomedical Engineering</i> , <b>2002</b> , 30, 371-8	4.7 22
44	Host-mediated Leishmania donovani treatment using AR-12 encapsulated in acetalated dextran microparticles. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 499, 186-194	6.5 20
43	Evaluation of a biodegradable microparticulate polymer as a carrier for Burkholderia pseudomallei subunit vaccines in a mouse model of melioidosis. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 495, 849-61	6.5 19
42	Electrosprayed Myocet-like Liposomes: An Alternative to Traditional Liposome Production. <i>Pharmaceutical Research</i> , <b>2017</b> , 34, 419-426	4.5 17
41	Glycolipid-mediated basophil activation in alpha-gal allergy. <i>Journal of Allergy and Clinical Immunology</i> , <b>2020</b> , 146, 450-452	11.5 17
40	Chemically modified inulin microparticles serving dual function as a protein antigen delivery vehicle and immunostimulatory adjuvant. <i>Biomaterials Science</i> , <b>2016</b> , 4, 483-93	7.4 17
39	Tumor Responsive and Tunable Polymeric Platform for Optimized Delivery of Paclitaxel to Treat Glioblastoma. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 19345-19356	9.5 17
38	Delivery of host cell-directed therapeutics for intracellular pathogen clearance. <i>Expert Review of Anti-Infective Therapy</i> , <b>2013</b> , 11, 1225-35	5.5 16
37	Prevention of Type 1 Diabetes with Acetalated Dextran Microparticles Containing Rapamycin and Pancreatic Peptide P31. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1800341	10.1 15
36	Identification of the effector domain of biglycan that facilitates BMP-2 osteogenic function. <i>Scientific Reports</i> , <b>2018</b> , 8, 7022	4.9 15
35	In Vivo and Cellular Trafficking of Acetalated Dextran Microparticles for Delivery of a Host-Directed Therapy for Salmonella enterica Serovar Typhi Infection. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 5336-5348	5.6 14
34	Drug Delivery for Cancer Immunotherapy and Vaccines. <i>Pharmaceutical Nanotechnology</i> , <b>2018</b> , 6, 232-244	13
33	Needle-Free Delivery of Acetalated Dextran-Encapsulated AR-12 Protects Mice from Francisella tularensis Lethal Challenge. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 2052-62	5.9 13
32	A Novel Sterol Isolated from a Plant Used by Mayan Traditional Healers Is Effective in Treatment of Visceral Leishmaniasis Caused by Leishmania donovani. <i>ACS Infectious Diseases</i> , <b>2015</b> , 1, 497-506	5.5 12

31	Synergistic drug combinations for a precision medicine approach to interstitial glioblastoma therapy. <i>Journal of Controlled Release</i> , <b>2020</b> , 323, 282-292	11.7	11
30	Utilizing a Quartz Crystal Microbalance for Quantifying CD4+ T Cell Counts. <i>Sensor Letters</i> , <b>2005</b> , 3, 211-215		11
29	Saquinavir Loaded Acetalated Dextran Microconfetti - a Long Acting Protease Inhibitor Injectable. <i>Pharmaceutical Research</i> , <b>2016</b> , 33, 1998-2009	4.5	11
28	Co-Delivery of Disease Associated Peptide and Rapamycin via Acetalated Dextran Microparticles for Treatment of Multiple Sclerosis. <i>Advanced Biology</i> , <b>2017</b> , 1, 1700022	3.5	10
27	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> , <b>2021</b> , 1, 2000041	0	9
26	Vaccines for the Prevention of Melioidosis and Glanders. <i>Current Tropical Medicine Reports</i> , <b>2017</b> , 4, 136-145		7
25	Macrophage cell adhesion and inflammation cytokines on magnetostrictive nanowires. <i>Nanotoxicology</i> , <b>2007</b> , 1, 279-290	5.3	7
24	Inflammatory Response to Implanted Nanostructured Materials <b>2009</b> , 355-371		7
23	Polymeric Biomaterial Scaffolds for Tumoricidal Stem Cell Glioblastoma Therapy. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 3762-3777	5.5	6
22	Formulation of host-targeted therapeutics against bacterial infections. <i>Translational Research</i> , <b>2020</b> , 220, 98-113	11	6
21	Historical Perspective of Clinical Nano and Microparticle Formulations for Delivery of Therapeutics. <i>Trends in Molecular Medicine</i> , <b>2021</b> , 27, 516-519	11.5	6
20	Merozoite surface protein 2 adsorbed onto acetalated dextran microparticles for malaria vaccination. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 593, 120168	6.5	6
19	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> , <b>2019</b> , 10, 125-132	4	5
18	Rat aortic smooth muscle cells contract in response to serum and its components in a calcium independent manner. <i>Annals of Biomedical Engineering</i> , <b>2004</b> , 32, 1667-75	4.7	5
17	Injectable, Ribbon-Like Microconfetti Biopolymer Platform for Vaccine Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 38950-38961	9.5	5
16	STING Agonist Mitigates Experimental Autoimmune Encephalomyelitis by Stimulating Type I IFN-Dependent and -Independent Immune-Regulatory Pathways. <i>Journal of Immunology</i> , <b>2021</b> , 206, 2015-2028	5.3	5
15	Injectable long-acting human immunodeficiency virus antiretroviral prodrugs with improved pharmacokinetic profiles. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 552, 371-377	6.5	5
14	Oxidation-Sensitive Dextran-Based Polymer with Improved Processability through Stable Boronic Ester Groups. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 3755-3762	4.1	4

13	Flexible, microstructured surfaces using chitin-derived biopolymers. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 5328-5335	7.3	4
12	Impact of composite scaffold degradation rate on neural stem cell persistence in the glioblastoma surgical resection cavity. <i>Materials Science and Engineering C</i> , <b>2020</b> , 111, 110846	8.3	4
11	Nano- and Microformulations to Advance Therapies for Visceral Leishmaniasis. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 1725-1741	5.5	4
10	Microtechnologies for Drug Delivery <b>2012</b> , 359-381		3
9	Micro- and Nano-particulate Strategies for Antigen Specific Immune Tolerance to Treat Autoimmune Diseases. <i>Pharmaceutical Nanotechnology</i> , <b>2015</b> , 3, 85-100	4	3
8	Microparticles Formulated from a family of novel silylated polysaccharides demonstrate inherent immunostimulatory properties and tunable hydrolytic degradability. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 4302-4312	7.3	3
7	Dexamethasone and Fumaric Acid Ester Conjugate Synergistically Inhibits Inflammation and NF- $\kappa$ B in Macrophages. <i>Bioconjugate Chemistry</i> , <b>2021</b> , 32, 1629-1640	6.3	2
6	Attenuation of Protein Adsorption on Static and Vibrating Magnetic Nanowires. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 877, 1		1
5	Delivery strategies for cancer vaccines and immunoadjuvants <b>2022</b> , 359-408		1
4	Nano/microparticle Formulations for Universal Influenza Vaccines.. <i>AAPS Journal</i> , <b>2022</b> , 24, 24	3.7	0
3	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> , <b>2022</b> , 622, 121839	6.5	0
2	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> , 23-51	0.3	
1	Drug Delivery Strategies for Tolerogenic Therapy for Autoimmune Diseases in an Antigen-Specific Manner <b>2019</b> , 112-140		