

Michael Wannemuehler

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

4,097
citations

101384

36
h-index

143772

57
g-index

110
all docs

110
docs citations

110
times ranked

3976
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanocarriers for pancreatic cancer imaging, treatments, and immunotherapies. <i>Theranostics</i> , 2022, 12, 1030-1060.	4.6	49
2	Vertical transmission of attaching and invasive <i>E. coli</i> from the dam to neonatal mice predisposes to more severe colitis following exposure to a colitic insult later in life. <i>PLoS ONE</i> , 2022, 17, e0266005.	1.1	3
3	Structural Stability and Antigenicity of Universal Equine H3N8 Hemagglutinin Trimer upon Release from Polyanhydride Nanoparticles and Pentablock Copolymer Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2500-2507.	2.6	5
4	Manipulate intestinal organoids with niobium carbide nanosheets. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 479-487.	2.1	12
5	Polyanhydride nanoparticles stabilize pancreatic cancer antigen $\text{MUC4}^{\hat{2}}$. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 893-902.	2.1	29
6	Gut Organoid as a New Platform to Study Alginate and Chitosan Mediated PLGA Nanoparticles for Drug Delivery. <i>Marine Drugs</i> , 2021, 19, 282.	2.2	51
7	Single-dose combination nanovaccine induces both rapid and durable humoral immunity and toxin neutralizing antibody responses against <i>Bacillus anthracis</i> . <i>Vaccine</i> , 2021, 39, 3862-3870.	1.7	12
8	Self-assembling synthetic nanoadjuvant scaffolds cross-link B cell receptors and represent new platform technology for therapeutic antibody production. <i>Science Advances</i> , 2021, 7, .	4.7	9
9	Rules of Engagement: Epithelial-Microbe Interactions and Inflammatory Bowel Disease. <i>Frontiers in Medicine</i> , 2021, 8, 669913.	1.2	19
10	Biomaterial nanocarrier-driven mechanisms to modulate anti-tumor immunity. <i>Current Opinion in Biomedical Engineering</i> , 2021, 20, 100322.	1.8	1
11	Polymeric Nanoparticle-Based Vaccine Adjuvants and Delivery Vehicles. <i>Current Topics in Microbiology and Immunology</i> , 2020, 433, 29-76.	0.7	12
12	Transport of artificial virus-like nanocarriers through intestinal monolayers <i>via</i> microfold cells. <i>Nanoscale</i> , 2020, 12, 16339-16347.	2.8	24
13	TNF $\hat{\pm}$ regulates intestinal organoids from mice with both defined and conventional microbiota. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 548-556.	3.6	6
14	<i>Campylobacter jejuni</i> persistently colonizes gnotobiotic altered Schaedler flora C3H/HeN mice and induces mild colitis. <i>FEMS Microbiology Letters</i> , 2020, 367, .	0.7	2
15	<p>>Polyanhydride Nanoparticles Induce Low Inflammatory Dendritic Cell Activation Resulting in CD8<sup>>+</sup> T Cell Memory and Delayed Tumor Progression</p><p>>, <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 6579-6592.	3.3	10
16	Mouse Genetic Background Affects Transfer of an Antibiotic Resistance Plasmid in the Gastrointestinal Tract. <i>MSphere</i> , 2020, 5, .	1.3	18
17	Temporal Dynamics of Chronic Inflammation on the Cecal Microbiota in IL-10 $\hat{-}$ Mice. <i>Frontiers in Immunology</i> , 2020, 11, 585431.	2.2	6
18	Single-dose combination nanovaccine induces both rapid and long-lived protection against pneumonic plague. <i>Acta Biomaterialia</i> , 2019, 100, 326-337.	4.1	22

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19	Single dose combination nanovaccine provides protection against influenza A virus in young and aged mice. <i>Biomaterials Science</i> , 2019, 7, 809-821.	2.6	36
20	Vitamin C and B ₃ as new biomaterials to alter intestinal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1886-1897.	2.1	14
21	STING pathway stimulation results in a differentially activated innate immune phenotype associated with low nitric oxide and enhanced antibody titers in young and aged mice. <i>Vaccine</i> , 2019, 37, 2721-2730.	1.7	19
22	Safety and biocompatibility of injectable vaccine adjuvants composed of thermogelling block copolymer gels. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1754-1762.	2.1	13
23	Derivation of adult canine intestinal organoids for translational research in gastroenterology. <i>BMC Biology</i> , 2019, 17, 33.	1.7	82
24	Pentablock Copolymer Micelle Nanoadjuvants Enhance Cytosolic Delivery of Antigen and Improve Vaccine Efficacy while Inducing Low Inflammation. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1332-1342.	2.6	13
25	Altered Schaedler flora mice: A defined microbiota animal model to study the microbiota-gut-brain axis. <i>Behavioural Brain Research</i> , 2019, 356, 221-226.	1.2	20
26	Amphiphilic polyanhydride-based recombinant MUC4 ^Δ -nanovaccine activates dendritic cells. <i>Genes and Cancer</i> , 2019, 10, 52-62.	0.6	23
27	Intranasal delivery of influenza antigen by nanoparticles, but not NKT-cell adjuvant differentially induces the expression of B-cell activation factors in mice and swine. <i>Cellular Immunology</i> , 2018, 329, 27-30.	1.4	12
28	Intestinal organoids containing poly(lactic acid-glycolic acid) nanoparticles for the treatment of inflammatory bowel diseases. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 876-886.	2.1	92
29	Emerging trends in the immunotherapy of pancreatic cancer. <i>Cancer Letters</i> , 2018, 417, 35-46.	3.2	77
30	<i>Ex Vivo</i> Study of Telluride Nanowires in Minigut. <i>Journal of Biomedical Nanotechnology</i> , 2018, 14, 978-986.	0.5	19
31	Pathogenic and non-pathogenic <i>Escherichia coli</i> colonization and host inflammatory response in a defined microbiota mouse model. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	1.2	36
32	Room Temperature Stable PspA-Based Nanovaccine Induces Protective Immunity. <i>Frontiers in Immunology</i> , 2018, 9, 325.	2.2	28
33	Effects of six common dietary nutrients on murine intestinal organoid growth. <i>PLoS ONE</i> , 2018, 13, e0191517.	1.1	26
34	Polyanhydride Nanoparticle Interactions with Host Serum Proteins and Their Effects on Bone Marrow Derived Macrophage Activation. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 160-168.	2.6	7
35	Polyanhydride nanovaccine against swine influenza virus in pigs. <i>Vaccine</i> , 2017, 35, 1124-1131.	1.7	41
36	Functionalization promotes pathogen-mimicking characteristics of polyanhydride nanoparticle adjuvants. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2762-2771.	2.1	14

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37	Cellular Internalization Mechanisms of Polyanhydride Particles: Implications for Rational Design of Drug Delivery Vehicles. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 1544-1552.	0.5	34
38	<i>Helicobacter bilis</i> Infection Alters Mucosal Bacteria and Modulates Colitis Development in Defined Microbiota Mice. <i>Inflammatory Bowel Diseases</i> , 2016, 22, 2571-2581.	0.9	16
39	Reply. <i>Inflammatory Bowel Diseases</i> , 2016, 22, E27-E28.	0.9	0
40	Understanding Luminal Microorganisms and Their Potential Effectiveness in Treating Intestinal Inflammation. <i>Inflammatory Bowel Diseases</i> , 2016, 22, 194-201.	0.9	8
41	Combination Nanovaccine Demonstrates Synergistic Enhancement in Efficacy against Influenza. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 368-374.	2.6	31
42	Oral administration of an ethanolic extract of <i>Hypericum gentianoides</i> attenuates spontaneous colitis in <i>mdr1a</i> ^{-/-} mice. <i>Functional Foods in Health and Disease</i> , 2016, 6, 246.	0.3	1
43	Hemagglutinin-based polyanhydride nanovaccines against H5N1 influenza elicit protective virus neutralizing titers and cell-mediated immunity. <i>International Journal of Nanomedicine</i> , 2015, 10, 229.	3.3	33
44	Orally administered extract from <i>Prunella vulgaris</i> attenuates spontaneous colitis in <i>mdr1a</i> ^{-/-} mice. <i>World Journal of Gastrointestinal Pharmacology and Therapeutics</i> , 2015, 6, 223.	0.6	9
45	Sustained release and stabilization of therapeutic antibodies using amphiphilic polyanhydride nanoparticles. <i>Chemical Engineering Science</i> , 2015, 125, 98-107.	1.9	26
46	Pulmonary Biodistribution and Cellular Uptake of Intranasally Administered Monodisperse Particles. <i>Pharmaceutical Research</i> , 2015, 32, 1368-1382.	1.7	18
47	<i>Salmonella enterica</i> serovar Typhimurium-infected pigs with different shedding levels exhibit distinct clinical, peripheral cytokine and transcriptomic immune response phenotypes. <i>Innate Immunity</i> , 2015, 21, 227-241.	1.1	37
48	Attenuation of Colitis by Serum-Derived Bovine Immunoglobulin/Protein Isolate in a Defined Microbiota Mouse Model. <i>Digestive Diseases and Sciences</i> , 2015, 60, 3293-3303.	1.1	30
49	The Altered Schaedler Flora: Continued Applications of a Defined Murine Microbial Community. <i>ILAR Journal</i> , 2015, 56, 169-178.	1.8	173
50	Safety and Biocompatibility of Carbohydrate-Functionalized Polyanhydride Nanoparticles. <i>AAPS Journal</i> , 2015, 17, 256-267.	2.2	41
51	Polyanhydride nanovaccine platform enhances antigen-specific cytotoxic T cell responses. <i>Technology</i> , 2014, 02, 171-175.	1.4	23
52	Draft Genome Sequences of the Altered Schaedler Flora, a Defined Bacterial Community from Gnotobiotic Mice. <i>Genome Announcements</i> , 2014, 2, .	0.8	52
53	Effect of nanovaccine chemistry on humoral immune response kinetics and maturation. <i>Nanoscale</i> , 2014, 6, 13770-13778.	2.8	47
54	Lung Deposition and Cellular Uptake Behavior of Pathogen-Mimicking Nanovaccines in the First 48 Hours. <i>Advanced Healthcare Materials</i> , 2014, 3, 1071-1077.	3.9	24

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55	Organic barn dust extract exposure impairs porcine macrophage function in vitro: Implications for respiratory health. <i>Veterinary Immunology and Immunopathology</i> , 2014, 157, 20-30.	0.5	18
56	Structural and antigenic stability of H5N1 hemagglutinin trimer upon release from polyanhydride nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 4161-4168.	2.1	44
57	<i>Mycobacterium avium paratuberculosis</i> infection augments innate immune responses following intestinal epithelial injury. <i>Experimental Biology and Medicine</i> , 2014, 239, 436-441.	1.1	4
58	Nanoparticle Chemistry and Functionalization Differentially Regulates Dendritic Cell–Nanoparticle Interactions and Triggers Dendritic Cell Maturation. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1269-1280.	1.2	25
59	Vaccine Technologies Against Avian Influenza: Current Approaches and New Directions. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 2261-2294.	0.5	7
60	A systems approach to designing next generation vaccines: combining Î±-galactose modified antigens with nanoparticle platforms. <i>Scientific Reports</i> , 2014, 4, 3775.	1.6	27
61	Retention of structure, antigenicity, and biological function of pneumococcal surface protein A (PspA) released from polyanhydride nanoparticles. <i>Acta Biomaterialia</i> , 2013, 9, 8262-8271.	4.1	58
62	Single immunization with a suboptimal antigen dose encapsulated into polyanhydride microparticles promotes high titer and avid antibody responses. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 91-98.	1.6	40
63	Functionalization of polyanhydride microparticles with di-mannose influences uptake by and intracellular fate within dendritic cells. <i>Acta Biomaterialia</i> , 2013, 9, 8902-8909.	4.1	41
64	Evaluation of Biocompatibility and Administration Site Reactogenicity of Polyanhydride–Particle–Based Platform for Vaccine Delivery. <i>Advanced Healthcare Materials</i> , 2013, 2, 369-378.	3.9	59
65	Combinatorial evaluation of in vivo distribution of polyanhydride particle-based platforms for vaccine delivery. <i>International Journal of Nanomedicine</i> , 2013, 8, 2213.	3.3	7
66	Antibody and CD8+ T cell memory response to influenza A/PR/8/34 infection is reduced in treadmill-exercised mice, yet still protective. <i>Journal of Applied Physiology</i> , 2013, 114, 1413-1420.	1.2	3
67	Gene expression in intestinal mucosal biopsy specimens obtained from dogs with chronic enteropathy. <i>American Journal of Veterinary Research</i> , 2012, 73, 1219-1229.	0.3	22
68	Harvesting Murine Alveolar Macrophages and Evaluating Cellular Activation Induced by Polyanhydride Nanoparticles. <i>Journal of Visualized Experiments</i> , 2012, , e3883.	0.2	9
69	Chemistry-dependent adsorption of serum proteins onto polyanhydride microparticles differentially influences dendritic cell uptake and activation. <i>Acta Biomaterialia</i> , 2012, 8, 3618-3628.	4.1	20
70	Tailoring the immune response by targeting C-type lectin receptors on alveolar macrophages using ðœpathogen-like–amphiphilic polyanhydride nanoparticles. <i>Biomaterials</i> , 2012, 33, 4762-4772.	5.7	80
71	Mannose-Functionalized ðœPathogen-like–Polyanhydride Nanoparticles Target C-Type Lectin Receptors on Dendritic Cells. <i>Molecular Pharmaceutics</i> , 2011, 8, 1877-1886.	2.3	118
72	Distinct Peripheral Blood RNA Responses to Salmonella in Pigs Differing in Salmonella Shedding Levels: Intersection of IFNG, TLR and miRNA Pathways. <i>PLoS ONE</i> , 2011, 6, e28768.	1.1	47

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73	Activation of innate immune responses in a pathogen-mimicking manner by amphiphilic polyanhydride nanoparticle adjuvants. <i>Biomaterials</i> , 2011, 32, 6815-6822.	5.7	124
74	<i>Helicobacter bilis</i> Colonization Enhances Susceptibility to Typhlocolitis Following an Inflammatory Trigger. <i>Digestive Diseases and Sciences</i> , 2011, 56, 2838-2848.	1.1	26
75	Polyanhydride microparticles enhance dendritic cell antigen presentation and activation. <i>Acta Biomaterialia</i> , 2011, 7, 2857-2864.	4.1	111
76	Persistent enteric mycobacterial infection enhances sensitivity to acute mucosal injury. <i>Experimental Biology and Medicine</i> , 2011, 236, 36-43.	1.1	5
77	Design of a Protective Single-Dose Intranasal Nanoparticle-Based Vaccine Platform for Respiratory Infectious Diseases. <i>PLoS ONE</i> , 2011, 6, e17642.	1.1	115
78	Rational Design of Pathogen-Mimicking Amphiphilic Materials as Nanoadjuvants. <i>Scientific Reports</i> , 2011, 1, 198.	1.6	75
79	Plasma Caffeic Acid Is Associated with Statistical Clustering of the Anticolitic Efficacy of Caffeic Acid in Dextran Sulfate Sodium-Treated Mice. <i>Journal of Nutrition</i> , 2011, 141, 1989-1995.	1.3	11
80	Encapsulation into amphiphilic polyanhydride microparticles stabilizes <i>Yersinia pestis</i> antigens. <i>Acta Biomaterialia</i> , 2010, 6, 3110-3119.	4.1	74
81	Prophylactic treatment with <i>Hypoxis hemerocallidea</i> corm (African potato) methanolic extract ameliorates <i>Brachyspira hyodysenteriae</i> -induced murine typhlocolitis. <i>Experimental Biology and Medicine</i> , 2010, 235, 222-230.	1.1	8
82	Increased CYP4B1 mRNA Is Associated with the Inhibition of Dextran Sulfate Sodium-Induced Colitis by Caffeic Acid in Mice. <i>Experimental Biology and Medicine</i> , 2009, 234, 605-616.	1.1	63
83	Effect of polymer chemistry and fabrication method on protein release and stability from polyanhydride microspheres. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 91B, 938-947.	1.6	80
84	Vaccine adjuvants: Current challenges and future approaches. <i>Journal of Pharmaceutical Sciences</i> , 2009, 98, 1278-1316.	1.6	218
85	Polymer Chemistry Influences Monocytic Uptake of Polyanhydride Nanospheres. <i>Pharmaceutical Research</i> , 2009, 26, 683-690.	1.7	99
86	Mucosal gene expression profiles following the colonization of immunocompetent defined-flora C3H mice with <i>Helicobacter bilis</i> : a prelude to typhlocolitis. <i>Microbes and Infection</i> , 2009, 11, 374-383.	1.0	15
87	The simultaneous effect of polymer chemistry and device geometry on the in vitro activation of murine dendritic cells. <i>Biomaterials</i> , 2009, 30, 5131-5142.	5.7	65
88	High Throughput Cell-Based Screening of Biodegradable Polyanhydride Libraries. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2009, 12, 634-645.	0.6	33
89	<i>Helicobacter bilis</i> triggers persistent immune reactivity to antigens derived from the commensal bacteria in gnotobiotic C3H/HeN mice. <i>Gut</i> , 2007, 56, 934-940.	6.1	101
90	Activities of dl-1 \pm -Difluoromethylarginine and Polyamine Analogues against <i>Cryptosporidium parvum</i> Infection in a T-Cell Receptor Alpha-Deficient Mouse Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 1234-1239.	1.4	10

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91	Cryptosporidium parvum spermidine/spermine N1-acetyltransferase exhibits different characteristics from the host enzyme. <i>Molecular and Biochemical Parasitology</i> , 2007, 152, 170-180.	0.5	20
92	Induction of differential immune reactivity to members of the flora of gnotobiotic mice following colonization with <i>Helicobacter bilis</i> or <i>Brachyspira hyodysenteriae</i> . <i>Microbes and Infection</i> , 2006, 8, 1602-1610.	1.0	39
93	Protein stability in the presence of polymer degradation products: Consequences for controlled release formulations. <i>Biomaterials</i> , 2006, 27, 3312-3320.	5.7	96
94	Single dose vaccine based on biodegradable polyanhydride microspheres can modulate immune response mechanism. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 798-810.	2.1	106
95	CD4+ T-cell responses and distribution at the colonic mucosa during <i>Brachyspira hyodysenteriae</i> -induced colitis in pigs. <i>Immunology</i> , 2005, 115, 127-135.	2.0	30
96	Impact of Immunizations with Porcine Reproductive and Respiratory Syndrome Virus on Lymphoproliferative Recall Responses of CD8+ T Cells. <i>Viral Immunology</i> , 2004, 17, 25-37.	0.6	54
97	Characterization of <i>Treponema phagedenis</i> -Like Spirochetes Isolated from Papillomatous Digital Dermatitis Lesions in Dairy Cattle. <i>Journal of Clinical Microbiology</i> , 2003, 41, 2522-2529.	1.8	86
98	Dietary Conjugated Linoleic Acid Modulates Phenotype and Effector Functions of Porcine CD8+ Lymphocytes. <i>Journal of Nutrition</i> , 2001, 131, 2370-2377.	1.3	70
99	Cloning of a Beta-Hemolysin Gene of <i>Brachyspira (Serpulina) hyodysenteriae</i> and Its Expression in <i>Escherichia coli</i> . <i>Infection and Immunity</i> , 2001, 69, 706-711.	1.0	48
100	Reduction in inflammation following blockade of CD18 or CD29 adhesive pathways during the acute phase of a spirochetal-induced colitis in mice. <i>Microbial Pathogenesis</i> , 2000, 29, 289-299.	1.3	11
101	<i>Cryptosporidium parvum</i> Initiates Inflammatory Bowel Disease in Germfree T Cell Receptor- β -Deficient Mice. <i>American Journal of Pathology</i> , 1998, 153, 1717-1722.	1.9	25
102	Pathogenicity of <i>Serpulina hyodysenteriae</i> : in vivo induction of tumor necrosis factor and interleukin-6 by a serpulinal butanol/water extract (endotoxin). <i>Microbial Pathogenesis</i> , 1997, 23, 181-187.	1.3	13
103	Bacterial immunogens and protective immunity in swine. <i>Veterinary Immunology and Immunopathology</i> , 1994, 43, 117-126.	0.5	9
104	Detection of tumor necrosis factor β from porcine alveolar macrophages using an L929 fibroblast bioassay. <i>Journal of Immunological Methods</i> , 1991, 140, 15-22.	0.6	74
105	Pathogenesis of <i>Treponema hyodysenteriae</i> : induction of interleukin-1 and tumor necrosis factor by a treponemal butanol/water extract (endotoxin). <i>Microbial Pathogenesis</i> , 1989, 7, 279-288.	1.3	33
106	Mucosal Immunoregulation: Environmental Lipopolysaccharide and GALT T Lymphocytes Regulate the IgA Response. <i>Microbiology and Immunology</i> , 1984, 28, 261-280.	0.7	29
107	THE IgA RESPONSE: INDUCTIVE ASPECTS, REGULATORY CELLS, AND EFFECTOR FUNCTIONS. <i>Annals of the New York Academy of Sciences</i> , 1983, 409, 48-71.	1.8	16
108	IMMUNE REGULATION OF SUPPRESSION IN OFFSPRING OF ORALLY TOLERIZED MICE. <i>Annals of the New York Academy of Sciences</i> , 1983, 409, 888-889.	1.8	5

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109	Cytotoxic effects of manganese oxide nanoparticles in combination with microbial components on intestinal epithelial cells. F1000Research, 0, 9, 975.	0.8	4