

# Balaji Narasimhan

## List of Publications by Year in descending order

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178  
papers

7,807  
citations

44069

48  
h-index

64796

79  
g-index

186  
all docs

186  
docs citations

186  
times ranked

8039  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical models in drug delivery: How modeling has shaped the way we design new drug delivery systems. <i>Journal of Controlled Release</i> , 2014, 190, 75-81.	9.9	395
2	Materials-based strategies for multi-enzyme immobilization and co-localization: A review. <i>Biotechnology and Bioengineering</i> , 2014, 111, 209-222.	3.3	221
3	Vaccine adjuvants: Current challenges and future approaches. <i>Journal of Pharmaceutical Sciences</i> , 2009, 98, 1278-1316.	3.3	218
4	Multifunctional nanoparticles for targeted delivery of immune activating and cancer therapeutic agents. <i>Journal of Controlled Release</i> , 2013, 172, 1020-1034.	9.9	193
5	Microsphere size, precipitation kinetics and drug distribution control drug release from biodegradable polyanhydride microspheres. <i>Journal of Controlled Release</i> , 2004, 94, 129-141.	9.9	170
6	Mathematical models describing polymer dissolution: consequences for drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2001, 48, 195-210.	13.7	163
7	Biocompatible nanoparticles and vesicular systems in transdermal drug delivery for various skin diseases. <i>International Journal of Pharmaceutics</i> , 2019, 555, 49-62.	5.2	163
8	Molecular Analysis of Drug Delivery Systems Controlled by Dissolution of the Polymer Carrier. <i>Journal of Pharmaceutical Sciences</i> , 1997, 86, 297-304.	3.3	161
9	Protein-Mediated Synthesis of Uniform Superparamagnetic Magnetite Nanocrystals. <i>Advanced Functional Materials</i> , 2007, 17, 951-957.	14.9	154
10	Design of an injectable system based on bioerodible polyanhydride microspheres for sustained drug delivery. <i>Biomaterials</i> , 2002, 23, 4405-4412.	11.4	144
11	Activation of innate immune responses in a pathogen-mimicking manner by amphiphilic polyanhydride nanoparticle adjuvants. <i>Biomaterials</i> , 2011, 32, 6815-6822.	11.4	124
12	Mannose-Functionalized "Pathogen-like" Polyanhydride Nanoparticles Target C-Type Lectin Receptors on Dendritic Cells. <i>Molecular Pharmaceutics</i> , 2011, 8, 1877-1886.	4.6	118
13	Synthesis and characterization of novel polyanhydrides with tailored erosion mechanisms. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 102-110.	4.0	116
14	Design of a Protective Single-Dose Intranasal Nanoparticle-Based Vaccine Platform for Respiratory Infectious Diseases. <i>PLoS ONE</i> , 2011, 6, e17642.	2.5	115
15	Encapsulation, stabilization, and release of BSA-FITC from polyanhydride microspheres. <i>Journal of Controlled Release</i> , 2004, 100, 97-109.	9.9	114
16	Amphiphilic polyanhydrides for protein stabilization and release. <i>Biomaterials</i> , 2007, 28, 108-116.	11.4	111
17	Polyanhydride microparticles enhance dendritic cell antigen presentation and activation. <i>Acta Biomaterialia</i> , 2011, 7, 2857-2864.	8.3	111
18	Mito-Apocynin Prevents Mitochondrial Dysfunction, Microglial Activation, Oxidative Damage, and Progressive Neurodegeneration in MitoPark Transgenic Mice. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 1048-1066.	5.4	107

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19	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.	4.0	106
20	Mechanistic relationships between polymer microstructure and drug release kinetics in bioerodible polyanhydrides. <i>Journal of Controlled Release</i> , 2002, 82, 115-125.	9.9	105
21	Biodegradable nanoparticle delivery of inactivated swine influenza virus vaccine provides heterologous cell-mediated immune response in pigs. <i>Journal of Controlled Release</i> , 2017, 247, 194-205.	9.9	102
22	Microphase separation in bioerodible copolymers for drug delivery. <i>Biomaterials</i> , 2001, 22, 201-210.	11.4	101
23	Polymer Chemistry Influences Monocytic Uptake of Polyanhydride Nanospheres. <i>Pharmaceutical Research</i> , 2009, 26, 683-690.	3.5	99
24	Nanoneuromedicines for degenerative, inflammatory, and infectious nervous system diseases. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 751-767.	3.3	98
25	Protein stability in the presence of polymer degradation products: Consequences for controlled release formulations. <i>Biomaterials</i> , 2006, 27, 3312-3320.	11.4	96
26	On the Importance of Chain Reptation in Models of Dissolution of Glassy Polymers. <i>Macromolecules</i> , 1996, 29, 3283-3291.	4.8	94
27	Mitoapocynin Treatment Protects Against Neuroinflammation and Dopaminergic Neurodegeneration in a Preclinical Animal Model of Parkinson's Disease. <i>Journal of Neuroimmune Pharmacology</i> , 2016, 11, 259-278.	4.1	93
28	Zero-order release of micro- and macromolecules from polymeric devices: the role of the burst effect. <i>Journal of Controlled Release</i> , 1997, 47, 13-20.	9.9	92
29	Intestinal organoids containing poly(lactic acid-co-glycolic acid) nanoparticles for the treatment of inflammatory bowel diseases. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 876-886.	4.0	92
30	Mathematical modeling of polymer erosion: Consequences for drug delivery. <i>International Journal of Pharmaceutics</i> , 2011, 418, 104-114.	5.2	90
31	Cobalt Ferrite Nanocrystals: Out-Performing Magnetotactic Bacteria. <i>ACS Nano</i> , 2007, 1, 228-233.	14.6	86
32	Magnetic irreversibility and the Verwey transition in nanocrystalline bacterial magnetite. <i>Physical Review B</i> , 2007, 76, .	3.2	84
33	Immunomodulatory biomaterials. <i>International Journal of Pharmaceutics</i> , 2008, 364, 265-271.	5.2	83
34	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.	3.4	80
35	Tailoring the immune response by targeting C-type lectin receptors on alveolar macrophages using $\alpha$ -pathogen-like-amphiphilic polyanhydride nanoparticles. <i>Biomaterials</i> , 2012, 33, 4762-4772.	11.4	80
36	Neuronal protection against oxidative insult by polyanhydride nanoparticle-based mitochondria-targeted antioxidant therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 809-820.	3.3	80

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37	Disentanglement and reptation during dissolution of rubbery polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996, 34, 947-961.	2.1	78
38	Emerging trends in the immunotherapy of pancreatic cancer. <i>Cancer Letters</i> , 2018, 417, 35-46.	7.2	77
39	Rational Design of Pathogen-Mimicking Amphiphilic Materials as Nanoadjuvants. <i>Scientific Reports</i> , 2011, 1, 198.	3.3	75
40	Encapsulation into amphiphilic polyanhydride microparticles stabilizes <i>Yersinia pestis</i> antigens. <i>Acta Biomaterialia</i> , 2010, 6, 3110-3119.	8.3	74
41	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.	11.4	65
42	Effect of Mesoporosity on Thermal and Mechanical Properties of Polystyrene/Silica Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 41-47.	8.0	59
43	Evaluation of Biocompatibility and Administration Site Reactogenicity of Polyanhydride-Particle-Based Platform for Vaccine Delivery. <i>Advanced Healthcare Materials</i> , 2013, 2, 369-378.	7.6	59
44	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.	8.3	58
45	High-throughput analysis of protein stability in polyanhydride nanoparticles. <i>Acta Biomaterialia</i> , 2010, 6, 3873-3881.	8.3	55
46	Nano-enabled delivery of diverse payloads across complex biological barriers. <i>Journal of Controlled Release</i> , 2015, 219, 548-559.	9.9	54
47	Efficacy of mucosal polyanhydride nanovaccine against respiratory syncytial virus infection in the neonatal calf. <i>Scientific Reports</i> , 2018, 8, 3021.	3.3	53
48	The effect of interpenetrating polymer network formation on polymerization kinetics in an epoxy-acrylate system. <i>Polymer</i> , 2006, 47, 1108-1118.	3.8	52
49	Nanocarriers for pancreatic cancer imaging, treatments, and immunotherapies. <i>Theranostics</i> , 2022, 12, 1030-1060.	10.0	49
50	The role of microsphere fabrication methods on the stability and release kinetics of ovalbumin encapsulated in polyanhydride microspheres. <i>Journal of Microencapsulation</i> , 2006, 23, 832-843.	2.8	47
51	Effect of nanovaccine chemistry on humoral immune response kinetics and maturation. <i>Nanoscale</i> , 2014, 6, 13770-13778.	5.6	47
52	Rational Design of Targeted Next-Generation Carriers for Drug and Vaccine Delivery. <i>Annual Review of Biomedical Engineering</i> , 2016, 18, 25-49.	12.3	47
53	Enabling nanomaterial, nanofabrication and cellular technologies for nanoneuromedicines. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 715-729.	3.3	46
54	Vitamin A deficiency impairs the immune response to intranasal vaccination and RSV infection in neonatal calves. <i>Scientific Reports</i> , 2019, 9, 15157.	3.3	46

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55	The effect of polyanhydride chemistry in particle-based cancer vaccines on the magnitude of the anti-tumor immune response. <i>Acta Biomaterialia</i> , 2017, 50, 417-427.	8.3	45
56	The physics of polymer dissolution: Modeling approaches and experimental behavior. <i>Advances in Polymer Science</i> , 1997, , 157-207.	0.8	44
57	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.	4.0	44
58	Carbohydrate-functionalized nanovaccines preserve HIV-1 antigen stability and activate antigen presenting cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014, 25, 1387-1406.	3.5	43
59	Polyanhydride Nanovaccine Induces Robust Pulmonary B and T Cell Immunity and Confers Protection Against Homologous and Heterologous Influenza A Virus Infections. <i>Frontiers in Immunology</i> , 2018, 9, 1953.	4.8	43
60	Functionalization of polyanhydride microparticles with di-mannose influences uptake by and intracellular fate within dendritic cells. <i>Acta Biomaterialia</i> , 2013, 9, 8902-8909.	8.3	41
61	Safety and Biocompatibility of Carbohydrate-Functionalized Polyanhydride Nanoparticles. <i>AAPS Journal</i> , 2015, 17, 256-267.	4.4	41
62	Polyanhydride nanovaccine against swine influenza virus in pigs. <i>Vaccine</i> , 2017, 35, 1124-1131.	3.8	41
63	Analyzing Cellular Internalization of Nanoparticles and Bacteria by Multi-spectral Imaging Flow Cytometry. <i>Journal of Visualized Experiments</i> , 2012, , e3884.	0.3	40
64	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.	3.4	40
65	Chitosan-adjuvanted Salmonella subunit nanoparticle vaccine for poultry delivered through drinking water and feed. <i>Carbohydrate Polymers</i> , 2020, 243, 116434.	10.2	38
66	Polyanhydride Nanoparticle Delivery Platform Dramatically Enhances Killing of Filarial Worms. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0004173.	3.0	37
67	Single dose combination nanovaccine provides protection against influenza A virus in young and aged mice. <i>Biomaterials Science</i> , 2019, 7, 809-821.	5.4	36
68	Rapid Synthesis of Polyanhydrides by Microwave Polymerization. <i>Macromolecular Rapid Communications</i> , 2004, 25, 330-333.	3.9	35
69	Cellular Internalization Mechanisms of Polyanhydride Particles: Implications for Rational Design of Drug Delivery Vehicles. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 1544-1552.	1.1	34
70	High Throughput Cell-Based Screening of Biodegradable Polyanhydride Libraries. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2009, 12, 634-645.	1.1	33
71	Characterizing the antitumor response in mice treated with antigen-loaded polyanhydride microparticles. <i>Acta Biomaterialia</i> , 2013, 9, 5583-5589.	8.3	33
72	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.	6.7	33

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73	Block Copolymer-Quantum Dot Micelles for Multienzyme Colocalization. <i>Langmuir</i> , 2012, 28, 17389-17395.	3.5	32
74	Biomimetic Multienzyme Complexes Based on Nanoscale Platforms. <i>AIChE Journal</i> , 2013, 59, 355-360.	3.6	32
75	Molecular Description of Erosion Phenomena in Biodegradable Polymers. <i>Macromolecules</i> , 2005, 38, 1989-1999.	4.8	31
76	Combination Nanovaccine Demonstrates Synergistic Enhancement in Efficacy against Influenza. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 368-374.	5.2	31
77	Parallel Synthesis and High Throughput Dissolution Testing of Biodegradable Polyanhydride Copolymers. <i>ACS Combinatorial Science</i> , 2005, 7, 921-928.	3.3	30
78	Polyanhydride Nanovaccines Induce Germinal Center B Cell Formation and Sustained Serum Antibody Responses. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 1303-1311.	1.1	29
79	Polyanhydride nanoparticles stabilize pancreatic cancer antigen $\alpha$ -MUC4. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 893-902.	4.0	29
80	pH-Responsive Microencapsulation Systems for the Oral Delivery of Polyanhydride Nanoparticles. <i>Biomacromolecules</i> , 2018, 19, 793-802.	5.4	28
81	Room Temperature Stable PspA-Based Nanovaccine Induces Protective Immunity. <i>Frontiers in Immunology</i> , 2018, 9, 325.	4.8	28
82	Interleukin-1 alpha increases anti-tumor efficacy of cetuximab in head and neck squamous cell carcinoma. , 2019, 7, 79.		28
83	A systems approach to designing next generation vaccines: combining $\alpha$ -galactose modified antigens with nanoparticle platforms. <i>Scientific Reports</i> , 2014, 4, 3775.	3.3	27
84	Applications of Nanovaccines for Disease Prevention in Cattle. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 608050.	4.1	27
85	Understanding polyanhydride blend phase behavior using scattering, microscopy, and molecular simulations. <i>Polymer</i> , 2004, 45, 3329-3340.	3.8	26
86	Sustained release and stabilization of therapeutic antibodies using amphiphilic polyanhydride nanoparticles. <i>Chemical Engineering Science</i> , 2015, 125, 98-107.	3.8	26
87	Multienzyme Immobilization and Colocalization on Nanoparticles Enabled by DNA Hybridization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 10212-10220.	3.7	26
88	Surface engineered polyanhydride-based oral <i>Salmonella</i> subunit nanovaccine for poultry. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 8195-8215.	6.7	26
89	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.	2.3	25
90	Respiratory nanoparticle-based vaccines and challenges associated with animal models and translation. <i>Journal of Controlled Release</i> , 2015, 219, 622-631.	9.9	25

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91	Interfacial adhesion mechanisms in incompatible semicrystalline polymer systems. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 2667-2679.	2.1	24
92	Lung Deposition and Cellular Uptake Behavior of Pathogen-Mimicking Nanovaccines in the First 48 Hours. <i>Advanced Healthcare Materials</i> , 2014, 3, 1071-1077.	7.6	24
93	Interdiffusion and phase behavior at homopolymer/random copolymer interfaces. <i>Polymer</i> , 2003, 44, 729-741.	3.8	23
94	Tracking Chemical Processing Pathways in Combinatorial Polymer Libraries via Data Mining. <i>ACS Combinatorial Science</i> , 2010, 12, 270-277.	3.3	23
95	Identifying Factors Controlling Protein Release from Combinatorial Biomaterial Libraries via Hybrid Data Mining Methods. <i>ACS Combinatorial Science</i> , 2011, 13, 50-58.	3.8	23
96	Polyanhydride nanovaccine platform enhances antigen-specific cytotoxic T cell responses. <i>Technology</i> , 2014, 02, 171-175.	1.4	23
97	Amphiphilic polyanhydride-based recombinant MUC4 <sup>2</sup> -nanovaccine activates dendritic cells. <i>Genes and Cancer</i> , 2019, 10, 52-62.	1.9	23
98	Combinatorial Methods and Informatics Provide Insight into Physical Properties and Structure Relationships during IPN Formation. <i>Macromolecular Rapid Communications</i> , 2007, 28, 972-976.	3.9	22
99	Protein adsorption on biodegradable polyanhydride microparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 40-48.	4.0	22
100	Single-dose combination nanovaccine induces both rapid and long-lived protection against pneumonic plague. <i>Acta Biomaterialia</i> , 2019, 100, 326-337.	8.3	22
101	Single Dose of a Polyanhydride Particle-Based Vaccine Generates Potent Antigen-Specific Antitumor Immune Responses. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 370, 855-863.	2.5	22
102	Combinatorial design of biomaterials for drug delivery: opportunities and challenges. <i>Expert Opinion on Drug Delivery</i> , 2008, 5, 837-846.	5.0	21
103	Nanotherapeutic provides dose sparing and improved antimicrobial activity against <i>Brucella melitensis</i> infections. <i>Journal of Controlled Release</i> , 2019, 294, 288-297.	9.9	21
104	A single dose polyanhydride-based nanovaccine against paratuberculosis infection. <i>Npj Vaccines</i> , 2020, 5, 15.	6.0	21
105	Dissolution of waste plastics in biodiesel. <i>Polymer Engineering and Science</i> , 2010, 50, 863-870.	3.1	20
106	Chemistry-dependent adsorption of serum proteins onto polyanhydride microparticles differentially influences dendritic cell uptake and activation. <i>Acta Biomaterialia</i> , 2012, 8, 3618-3628.	8.3	20
107	Biodegradable polyanhydride-based nanomedicines for blood to brain drug delivery. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 2881-2890.	4.0	19
108	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.	3.8	19

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109	Relating fracture energy to entanglements at partially miscible polymer interfaces. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 2292-2302.	2.1	18
110	Structure–property relationships in acrylate/epoxy interpenetrating polymer networks: Effects of the reaction sequence and composition. <i>Journal of Applied Polymer Science</i> , 2007, 104, 891-901.	2.6	18
111	Pulmonary Biodistribution and Cellular Uptake of Intranasally Administered Monodisperse Particles. <i>Pharmaceutical Research</i> , 2015, 32, 1368-1382.	3.5	18
112	A new kinetic model for interdiffusion at semicrystalline polymer interfaces. <i>Polymer</i> , 2005, 46, 2266-2275.	3.8	17
113	Effective mosaic-based nanovaccines against avian influenza in poultry. <i>Vaccine</i> , 2019, 37, 5051-5058.	3.8	17
114	Phase behavior of semicrystalline polymer blends. <i>Polymer</i> , 2004, 45, 3671-3679.	3.8	16
115	Combinatorial/High Throughput Methods for the Determination of Polyanhydride Phase Behavior. <i>ACS Combinatorial Science</i> , 2009, 11, 820-828.	3.3	16
116	Functionalization promotes pathogen-mimicking characteristics of polyanhydride nanoparticle adjuvants. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2762-2771.	4.0	14
117	Data Analytics Approach for Rational Design of Nanomedicines with Programmable Drug Release. <i>Molecular Pharmaceutics</i> , 2019, 16, 1917-1928.	4.6	14
118	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.	4.0	13
119	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.	5.2	13
120	SURFACE-ERODIBLE BIOMATERIALS FOR DRUG DELIVERY. <i>Advances in Chemical Engineering</i> , 2004, , 169-218.	0.9	12
121	Nanoscale Morphology of Polyanhydride Copolymers. <i>Macromolecules</i> , 2005, 38, 8468-8472.	4.8	12
122	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.	3.0	12
123	Analyzing Drug Release Kinetics from Water-Soluble Polymers. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 7428-7437.	3.7	12
124	Synthesis and Characterization of Rapidly Degrading Polyanhydrides as Vaccine Adjuvants. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 265-276.	5.2	12
125	Polymeric Nanoparticle-Based Vaccine Adjuvants and Delivery Vehicles. <i>Current Topics in Microbiology and Immunology</i> , 2020, 433, 29-76.	1.1	12
126	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.	3.8	12



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127	Quantifying phase behavior in partially miscible polystyrene/poly(styrene-co-4-bromostyrene) blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 255-271.	2.1	11
128	Morphology of polyanhydride copolymers: Time-resolved small-angle X-ray scattering studies of crystallization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 463-477.	2.1	11
129	Automated High-Throughput Synthesis of Protein-Loaded Polyanhydride Nanoparticle Libraries. <i>ACS Combinatorial Science</i> , 2018, 20, 298-307.	3.8	11
130	Ligand-cascading nano-delivery devices to enable multiscale targeting of anti-neurodegenerative therapeutics. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 034102.	3.3	11
131	Pentaerythritol-based lipid A bolsters the antitumor efficacy of a polyanhydride particle-based cancer vaccine. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 21, 102055.	3.3	11
132	Sustained antigen release polyanhydride-based vaccine platform for immunization against bovine brucellosis. <i>Heliyon</i> , 2019, 5, e02370.	3.2	11
133	Measurements of diffusion thickness at polymer interfaces by nanoindentation: A numerically calibrated experimental approach. <i>Journal of Materials Research</i> , 2009, 24, 985-992.	2.6	10
134	Facile Fabrication of Polyanhydride/Anesthetic Nanoparticles with Tunable Release Kinetics. <i>Advanced Healthcare Materials</i> , 2014, 3, 843-847.	7.6	10
135	A single dose polyanhydride-based vaccine platform promotes and maintains anti-GnRH antibody titers. <i>Vaccine</i> , 2018, 36, 1016-1023.	3.8	10
136	&lt;p&gt;Polyanhydride Nanoparticles Induce Low Inflammatory Dendritic Cell Activation Resulting in CD8&lt;sup&gt;+&lt;/sup&gt; T Cell Memory and Delayed Tumor Progression&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 6579-6592.	6.7	10
137	Harvesting Murine Alveolar Macrophages and Evaluating Cellular Activation Induced by Polyanhydride Nanoparticles. <i>Journal of Visualized Experiments</i> , 2012, , e3883.	0.3	9
138	Functionalized polyanhydride nanoparticles for improved treatment of mitochondrial dysfunction. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 450-459.	3.4	9
139	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, .	10.3	9
140	Bovine NK-lysin peptides exert potent antimicrobial activity against multidrug-resistant Salmonella outbreak isolates. <i>Scientific Reports</i> , 2021, 11, 19276.	3.3	8
141	Lipocalin-2-loaded amphiphilic polyanhydride microparticles accelerate cell migration. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 1237-52.	3.5	8
142	Fracture behavior at partially miscible polymer interfaces. <i>Polymer Engineering and Science</i> , 2004, 44, 929-939.	3.1	7
143	Effect of Polydispersity on the Phase Behavior of Polymer Blends. <i>Macromolecular Rapid Communications</i> , 2005, 26, 533-536.	3.9	7
144	Combinatorial evaluation of in vivo distribution of polyanhydride particle-based platforms for vaccine delivery. <i>International Journal of Nanomedicine</i> , 2013, 8, 2213.	6.7	7

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145	Vaccine Technologies Against Avian Influenza: Current Approaches and New Directions. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 2261-2294.	1.1	7
146	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.	5.2	7
147	Dissolution of styrene-butadiene block copolymers in biodiesel. <i>Journal of Applied Polymer Science</i> , 2010, 118, 1859-1866.	2.6	6
148	A Novel High Throughput Method to Investigate Polymer Dissolution. <i>Macromolecular Rapid Communications</i> , 2010, 31, 385-390.	3.9	6
149	A polyanhydride-based implantable single dose vaccine platform for long-term immunity. <i>Vaccine</i> , 2018, 36, 1024-1025.	3.8	6
150	Enzyme Immunoassay-Based Platform for Accurate Detection of Serum Pathological $\alpha$ -Synuclein in Parkinson's Disease Patients. <i>ACS Chemical Neuroscience</i> , 2020, 11, 4179-4190.	3.5	6
151	High-Throughput Synthesis and Screening of Rapidly Degrading Polyanhydride Nanoparticles. <i>ACS Combinatorial Science</i> , 2020, 22, 172-183.	3.8	6
152	Nanomedicines to counter microbial barriers and antimicrobial resistance. <i>Current Opinion in Chemical Engineering</i> , 2021, 31, 100672.	7.8	6
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