

Christopher M Jewell

List of Publications by Year in descending order

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96
papers

4,107
citations

101384

36
h-index

118652

62
g-index

98
all docs

98
docs citations

98
times ranked

4760
citing authors

#	ARTICLE	IF	CITATIONS
1	Multilayered polyelectrolyte assemblies as platforms for the delivery of DNA and other nucleic acid-based therapeutics†. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 979-999.	6.6	286
2	Peptideâ€“TLR-7/8a conjugate vaccines chemically programmed for nanoparticle self-assembly enhance CD8 T-cell immunity to tumor antigens. <i>Nature Biotechnology</i> , 2020, 38, 320-332.	9.4	210
3	In situ engineering of the lymph node microenvironment via intranodal injection of adjuvant-releasing polymer particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15745-15750.	3.3	206
4	Multilayered polyelectrolyte films promote the direct and localized delivery of DNA to cells. <i>Journal of Controlled Release</i> , 2005, 106, 214-223.	4.8	172
5	Designing biomaterials with immunomodulatory properties for tissue engineering and regenerative medicine. <i>Bioengineering and Translational Medicine</i> , 2017, 2, 139-155.	3.9	154
6	Release of Plasmid DNA from Intravascular Stents Coated with Ultrathin Multilayered Polyelectrolyte Films. <i>Biomacromolecules</i> , 2006, 7, 2483-2491.	2.6	153
7	Improving Vaccine and Immunotherapy Design Using Biomaterials. <i>Trends in Immunology</i> , 2018, 39, 135-150.	2.9	152
8	Polyelectrolyte Multilayers Assembled Entirely from Immune Signals on Gold Nanoparticle Templates Promote Antigen-Specific T Cell Response. <i>ACS Nano</i> , 2015, 9, 6465-6477.	7.3	134
9	Reprogramming the Local Lymph Node Microenvironment Promotes Tolerance that Is Systemic and Antigen Specific. <i>Cell Reports</i> , 2016, 16, 2940-2952.	2.9	127
10	Designing inorganic nanomaterials for vaccines and immunotherapies. <i>Nano Today</i> , 2019, 27, 73-98.	6.2	102
11	Surface-mediated delivery of DNA: Cationic polymers take charge. <i>Current Opinion in Colloid and Interface Science</i> , 2008, 13, 395-402.	3.4	82
12	Intrinsic immunogenicity of rapidly-degradable polymers evolves during degradation. <i>Acta Biomaterialia</i> , 2016, 32, 24-34.	4.1	81
13	Assembly of Multilayered Films Using Well-Defined, End-Labeled Poly(acrylic acid):â€‰ Influence of Molecular Weight on Exponential Growth in a Synthetic Weak Polyelectrolyte System. <i>Langmuir</i> , 2007, 23, 8452-8459.	1.6	79
14	Designing natural and synthetic immune tissues. <i>Nature Materials</i> , 2018, 17, 484-498.	13.3	78
15	<i>In Vivo</i> Expansion of Melanoma-Specific T Cells Using Microneedle Arrays Coated with Immune-Polyelectrolyte Multilayers. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 195-205.	2.6	77
16	Harnessing Biomaterials to Engineer the Lymph Node Microenvironment for Immunity or Tolerance. <i>AAPS Journal</i> , 2015, 17, 323-338.	2.2	74
17	Phage display as a tool for vaccine and immunotherapy development. <i>Bioengineering and Translational Medicine</i> , 2020, 5, e10142.	3.9	72
18	Oligonucleotide Delivery by Cellâ€“Penetrating â€œStripedâ€“ Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12312-12315.	7.2	71

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19	Design of Polyelectrolyte Multilayers to Promote Immunological Tolerance. ACS Nano, 2016, 10, 9334-9345.	7.3	68
20	Engineering Immunological Tolerance Using Quantum Dots to Tune the Density of Self-Antigen Display. Advanced Functional Materials, 2017, 27, 1700290.	7.8	67
21	Ferrocene-Containing Cationic Lipids: Influence of Redox State on Cell Transfection. Journal of the American Chemical Society, 2005, 127, 11576-11577.	6.6	65
22	Multilayered Films Fabricated from Plasmid DNA and a Side-Chain Functionalized Poly(β -amino Ester): Surface-Type Erosion and Sequential Release of Multiple Plasmid Constructs from Surfaces. Langmuir, 2007, 23, 11139-11146.	1.6	62
23	Modular Vaccine Design Using Carrier-Free Capsules Assembled from Polyionic Immune Signals. ACS Biomaterials Science and Engineering, 2015, 1, 1200-1205.	2.6	57
24	Improving the clinical impact of biomaterials in cancer immunotherapy. Oncotarget, 2016, 7, 15421-15443.	0.8	56
25	Engineering self-assembled materials to study and direct immune function. Advanced Drug Delivery Reviews, 2017, 114, 60-78.	6.6	52
26	Polyplexes assembled from self-peptides and regulatory nucleic acids blunt toll-like receptor signaling to combat autoimmunity. Biomaterials, 2017, 118, 51-62.	5.7	52
27	Overcoming Ovarian Cancer Drug Resistance with a Cold Responsive Nanomaterial. ACS Central Science, 2018, 4, 567-581.	5.3	49
28	Engineering Immune Tolerance with Biomaterials. Advanced Healthcare Materials, 2019, 8, e1801419.	3.9	49
29	Polyelectrolyte Multilayers Promote Stent-Mediated Delivery of DNA to Vascular Tissue. Biomacromolecules, 2013, 14, 1696-1704.	2.6	48
30	Assembly of erodible, DNA-containing thin films on the surfaces of polymer microparticles: Toward a layer-by-layer approach to the delivery of DNA to antigen-presenting cells. Acta Biomaterialia, 2009, 5, 913-924.	4.1	47
31	Directing toll-like receptor signaling in macrophages to enhance tumor immunotherapy. Current Opinion in Biotechnology, 2019, 60, 138-145.	3.3	44
32	Controlled delivery of a metabolic modulator promotes regulatory T cells and restrains autoimmunity. Journal of Controlled Release, 2015, 210, 169-178.	4.8	42
33	Ferrocene-containing cationic lipids for the delivery of DNA: Oxidation state determines transfection activity. Journal of Controlled Release, 2006, 112, 129-138.	4.8	40
34	Prussian blue nanoparticle-based antigenicity and adjuvanticity trigger robust antitumor immune responses against neuroblastoma. Biomaterials Science, 2019, 7, 1875-1887.	2.6	40
35	Reversible Condensation of DNA Using a Redox-Active Surfactant. Langmuir, 2007, 23, 5609-5614.	1.6	38
36	Assembly and Immunological Processing of Polyelectrolyte Multilayers Composed of Antigens and Adjuvants. ACS Applied Materials & Interfaces, 2016, 8, 18722-18731.	4.0	38

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37	Lymph node fibroblastic reticular cells steer immune responses. <i>Trends in Immunology</i> , 2021, 42, 723-734.	2.9	37
38	Role of lymph node stroma and microenvironment in T cell tolerance. <i>Immunological Reviews</i> , 2019, 292, 9-23.	2.8	36
39	Biomaterials as Tools to Decode Immunity. <i>Advanced Materials</i> , 2020, 32, e1903367.	11.1	36
40	Characterization of the Nanostructure of Complexes Formed by a Redox-Active Cationic Lipid and DNA. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5849-5857.	1.2	35
41	Intra-lymph Node Injection of Biodegradable Polymer Particles. <i>Journal of Visualized Experiments</i> , 2014, , e50984.	0.2	33
42	Impact of molecular weight on the intrinsic immunogenic activity of poly(beta amino esters). <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1219-1229.	2.1	33
43	Integrating Biomaterials and Immunology to Improve Vaccines Against Infectious Diseases. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 759-778.	2.6	32
44	Engineering Biomaterials to Direct Innate Immunity. <i>Advanced Therapeutics</i> , 2019, 2, 1800157.	1.6	31
45	Self-Assembly as a Molecular Strategy to Improve Immunotherapy. <i>Accounts of Chemical Research</i> , 2020, 53, 2534-2545.	7.6	31
46	Multilayered Films Fabricated from an Oligoarginine-Conjugated Protein Promote Efficient Surface-Mediated Protein Transduction. <i>Biomacromolecules</i> , 2007, 8, 857-863.	2.6	30
47	Degradable Polyelectrolyte Multilayers that Promote the Release of siRNA. <i>Langmuir</i> , 2011, 27, 7868-7876.	1.6	30
48	Low-dose controlled release of mTOR inhibitors maintains T cell plasticity and promotes central memory T cells. <i>Journal of Controlled Release</i> , 2017, 263, 151-161.	4.8	28
49	A poly(beta-amino ester) activates macrophages independent of NF- κ B signaling. <i>Acta Biomaterialia</i> , 2018, 68, 168-177.	4.1	28
50	Self-Assembly of Immune Signals Improves Codelivery to Antigen Presenting Cells and Accelerates Signal Internalization, Processing Kinetics, and Immune Activation. <i>Small</i> , 2018, 14, e1802202.	5.2	25
51	Engineering tolerance using biomaterials to target and control antigen presenting cells. <i>Discovery Medicine</i> , 2016, 21, 403-10.	0.5	25
52	Chemical Activation of Lipoplexes Formed from DNA and a Redox-Active, Ferrocene-Containing Cationic Lipid. <i>Bioconjugate Chemistry</i> , 2008, 19, 2120-2128.	1.8	24
53	Polyplex interaction strength as a driver of potency during cancer immunotherapy. <i>Nano Research</i> , 2018, 11, 5642-5656.	5.8	24
54	Lipoplexes Formed by DNA and Ferrocenyl Lipids: Effect of Lipid Oxidation State on Size, Internal Dynamics, and ζ -Potential. <i>Biophysical Journal</i> , 2007, 93, 4414-4424.	0.2	23

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55	Induction of anti-cancer T cell immunity by in situ vaccination using systemically administered nanomedicines. <i>Cancer Letters</i> , 2019, 459, 192-203.	3.2	23
56	Design of Dissolvable Microneedles for Delivery of a Pfs47-Based Malaria Transmission-Blocking Vaccine. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1854-1862.	2.6	23
57	Impact of dose, route, and composition on the immunogenicity of immune polyelectrolyte multilayers delivered on gold templates. <i>Biotechnology and Bioengineering</i> , 2017, 114, 423-431.	1.7	21
58	Engineering release kinetics with polyelectrolyte multilayers to modulate TLR signaling and promote immune tolerance. <i>Biomaterials Science</i> , 2019, 7, 798-808.	2.6	16
59	Mapping the Mechanical and Immunological Profiles of Polymeric Microneedles to Enable Vaccine and Immunotherapy Applications. <i>Frontiers in Immunology</i> , 2022, 13, 843355.	2.2	15
60	Controlled Release of Second Generation mTOR Inhibitors to Restrain Inflammation in Primary Immune Cells. <i>AAPS Journal</i> , 2017, 19, 1175-1185.	2.2	14
61	Harnessing the lymph node microenvironment. <i>Current Opinion in Organ Transplantation</i> , 2018, 23, 73-82.	0.8	14
62	Microtubule disruption reduces metastasis more effectively than primary tumor growth. <i>Breast Cancer Research</i> , 2022, 24, 13.	2.2	14
63	Characterization of pH-induced changes in the morphology of polyelectrolyte multilayers assembled from poly(allylamine) and low molecular weight poly(acrylic acid). <i>Journal of Colloid and Interface Science</i> , 2011, 355, 431-441.	5.0	13
64	Targeted Programming of the Lymph Node Environment Causes Evolution of Local and Systemic Immunity. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 418-432.	1.0	13
65	Engineering Cell Surfaces with Polyelectrolyte Materials for Translational Applications. <i>Polymers</i> , 2017, 9, 40.	2.0	13
66	Leveraging the Modularity of Biomaterial Carriers to Tune Immune Responses. <i>Advanced Functional Materials</i> , 2020, 30, 2004119.	7.8	13
67	Exploiting Rational Assembly to Map Distinct Roles of Regulatory Cues during Autoimmune Therapy. <i>ACS Nano</i> , 2021, 15, 4305-4320.	7.3	13
68	Altering Antigen Charge to Control Self-Assembly and Processing of Immune Signals During Cancer Vaccination. <i>Frontiers in Immunology</i> , 2020, 11, 613830.	2.2	13
69	<i>In Vivo</i> Intradermal Delivery of Bacteria by Using Microneedle Arrays. <i>Infection and Immunity</i> , 2018, 86, .	1.0	12
70	Partial thermal imidization of polyelectrolyte multilayer cell tethering surfaces (TetherChip) enables efficient cell capture and microtentacle fixation for circulating tumor cell analysis. <i>Lab on A Chip</i> , 2020, 20, 2872-2888.	3.1	12
71	Biophysical Properties of Self-Assembled Immune Signals Impact Signal Processing and the Nature of Regulatory Immune Function. <i>Nano Letters</i> , 2021, 21, 3762-3771.	4.5	11
72	Control of autoimmune inflammation using liposomes to deliver positive allosteric modulators of metabotropic glutamate receptors. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2977-2985.	2.1	10

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73	Advanced manufacturing of microdisk vaccines for uniform control of material properties and immune cell function. <i>Biomaterials Science</i> , 2018, 6, 115-124.	2.6	10
74	Biomaterial interactions with the immune system. <i>Biomaterials Science</i> , 2019, 7, 713-714.	2.6	10
75	Lipid tethering of breast tumor cells enables real-time imaging of free-floating cell dynamics and drug response. <i>Oncotarget</i> , 2016, 7, 10486-10497.	0.8	10
76	Characterization of nanoscale transformations in polyelectrolyte multilayers fabricated from plasmid DNA using laser scanning confocal microscopy in combination with atomic force microscopy. <i>Microscopy Research and Technique</i> , 2010, 73, 834-844.	1.2	9
77	Extracting microtentacle dynamics of tumor cells in a non-adherent environment. <i>Oncotarget</i> , 2017, 8, 111567-111580.	0.8	9
78	Biomaterial-enabled induction of pancreatic-specific regulatory T cells through distinct signal transduction pathways. <i>Drug Delivery and Translational Research</i> , 2021, 11, 2468-2481.	3.0	6
79	Histatin 5 variant reduces <i>Candida albicans</i> biofilm viability and inhibits biofilm formation. <i>Fungal Genetics and Biology</i> , 2021, 149, 103529.	0.9	5
80	A plug-and-play approach for malaria vaccination. <i>Nature Nanotechnology</i> , 2018, 13, 1096-1097.	15.6	3
81	Impact of Excipients on Stability of Polymer Microparticles for Autoimmune Therapy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 609577.	2.0	3
82	Microtentacle Formation in Ovarian Carcinoma. <i>Cancers</i> , 2022, 14, 800.	1.7	3
83	Bioconjugate Materials in Vaccines and Immunotherapies. <i>Bioconjugate Chemistry</i> , 2018, 29, 571-571.	1.8	2
84	Dendritic cell tracking and modulation. <i>Nature Materials</i> , 2020, 19, 1134-1135.	13.3	2
85	Spatial delivery of immune cues to lymph nodes to define therapeutic outcomes in cancer vaccination. <i>Biomaterials Science</i> , 2022, 10, 4612-4626.	2.6	2
86	Strategic Directions in Immunoresponsive Biomaterials in Tissue Engineering<sup />. <i>Tissue Engineering - Part A</i> , 2017, 23, 1042-1043.	1.6	1
87	Opening borders for foreign bodies. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	1
88	Engineering immunity with quantitative tools. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 677-678.	1.7	0
89	Biomaterial strategies to treat autoimmunity and unwanted immune responses to drugs and transplanted tissues. , 2021, , 139-173.		0
90	50 shades of red. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	0

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91	Nanomedicine goes to school. Science Translational Medicine, 2017, 9, .	5.8	0
92	Eccentric implants stand alone. Science Translational Medicine, 2017, 9, .	5.8	0
93	Resistance is futile. Science Translational Medicine, 2017, 9, .	5.8	0
94	A game of thrones and broken bones. Science Translational Medicine, 2017, 9, .	5.8	0
95	Getting in touch with your inner stomach. Science Translational Medicine, 2017, 9, .	5.8	0
96	A homestay for your heart. Science Translational Medicine, 2017, 9, .	5.8	0