

Christopher M Jewell

List of Publications by Citations

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

85
papers

3,151
citations

33
h-index

54
g-index

98
ext. papers

3,625
ext. citations

10.4
avg, IF

5.92
L-index

#	Paper	IF	Citations
85	Multilayered polyelectrolyte assemblies as platforms for the delivery of DNA and other nucleic acid-based therapeutics. <i>Advanced Drug Delivery Reviews</i> , 2008 , 60, 979-99	18.5	265
84	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, 15745-50	11.5	177
83	Multilayered polyelectrolyte films promote the direct and localized delivery of DNA to cells. <i>Journal of Controlled Release</i> , 2005 , 106, 214-23	11.7	160
82	Release of plasmid DNA from intravascular stents coated with ultrathin multilayered polyelectrolyte films. <i>Biomacromolecules</i> , 2006 , 7, 2483-91	6.9	144
81	Improving Vaccine and Immunotherapy Design Using Biomaterials. <i>Trends in Immunology</i> , 2018 , 39, 135-150	14	121
80	Polyelectrolyte Multilayers Assembled Entirely from Immune Signals on Gold Nanoparticle Templates Promote Antigen-Specific T Cell Response. <i>ACS Nano</i> , 2015 , 9, 6465-77	16.7	112
79	Peptide-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	44.5	107
78	Designing biomaterials with immunomodulatory properties for tissue engineering and regenerative medicine. <i>Bioengineering and Translational Medicine</i> , 2017 , 2, 139-155	14.8	106
77	Reprogramming the Local Lymph Node Microenvironment Promotes Tolerance that Is Systemic and Antigen Specific. <i>Cell Reports</i> , 2016 , 16, 2940-2952	10.6	100
76	Surface-Mediated Delivery of DNA: Cationic Polymers Take Charge. <i>Current Opinion in Colloid and Interface Science</i> , 2008 , 13, 395-402	7.6	78
75	Harnessing biomaterials to engineer the lymph node microenvironment for immunity or tolerance. <i>AAPS Journal</i> , 2015 , 17, 323-38	3.7	67
74	Assembly of multilayered films using well-defined, end-labeled poly(acrylic acid): influence of molecular weight on exponential growth in a synthetic weak polyelectrolyte system. <i>Langmuir</i> , 2007 , 23, 8452-9	4	67
73	Oligonucleotide delivery by cell-penetrating "striped" nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12312-12315	16.4	66
72	Ferrocene-containing cationic lipids: influence of redox state on cell transfection. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11576-7	16.4	65
71	Intrinsic immunogenicity of rapidly-degradable polymers evolves during degradation. <i>Acta Biomaterialia</i> , 2016 , 32, 24-34	10.8	63
70	Designing natural and synthetic immune tissues. <i>Nature Materials</i> , 2018 , 17, 484-498	27	62
69	Designing inorganic nanomaterials for vaccines and immunotherapies. <i>Nano Today</i> , 2019 , 27, 73-98	17.9	56

68	Multilayered films fabricated from plasmid DNA and a side-chain functionalized poly(beta-amino ester): surface-type erosion and sequential release of multiple plasmid constructs from surfaces. <i>Langmuir</i> , 2007 , 23, 11139-46	4	56
67	Design of Polyelectrolyte Multilayers to Promote Immunological Tolerance. <i>ACS Nano</i> , 2016 , 10, 9334-9345	16.7	54
66	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	5.5	52
65	Modular Vaccine Design Using Carrier-Free Capsules Assembled from Polyionic Immune Signals. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 1200-1205	5.5	49
64	Engineering Immunological Tolerance Using Quantum Dots to Tune the Density of Self-Antigen Display. <i>Advanced Functional Materials</i> , 2017 , 27, 1700290	15.6	47
63	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. <i>Acta Biomaterialia</i> , 2009 , 5, 913-24	10.8	47
62	Engineering self-assembled materials to study and direct immune function. <i>Advanced Drug Delivery Reviews</i> , 2017 , 114, 60-78	18.5	44
61	Polyplexes assembled from self-peptides and regulatory nucleic acids blunt toll-like receptor signaling to combat autoimmunity. <i>Biomaterials</i> , 2017 , 118, 51-62	15.6	43
60	Polyelectrolyte multilayers promote stent-mediated delivery of DNA to vascular tissue. <i>Biomacromolecules</i> , 2013 , 14, 1696-704	6.9	43
59	Improving the clinical impact of biomaterials in cancer immunotherapy. <i>Oncotarget</i> , 2016 , 7, 15421-43	3.3	43
58	Ferrocene-containing cationic lipids for the delivery of DNA: oxidation state determines transfection activity. <i>Journal of Controlled Release</i> , 2006 , 112, 129-38	11.7	39
57	Overcoming Ovarian Cancer Drug Resistance with a Cold Responsive Nanomaterial. <i>ACS Central Science</i> , 2018 , 4, 567-581	16.8	36
56	Engineering Immune Tolerance with Biomaterials. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801419	10.1	36
55	Characterization of the nanostructure of complexes formed by a redox-active cationic lipid and DNA. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 5849-57	3.4	35
54	Reversible condensation of DNA using a redox-active surfactant. <i>Langmuir</i> , 2007 , 23, 5609-14	4	35
53	Assembly and Immunological Processing of Polyelectrolyte Multilayers Composed of Antigens and Adjuvants. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18722-31	9.5	33
52	Controlled delivery of a metabolic modulator promotes regulatory T cells and restrains autoimmunity. <i>Journal of Controlled Release</i> , 2015 , 210, 169-78	11.7	32
51	Phage display as a tool for vaccine and immunotherapy development. <i>Bioengineering and Translational Medicine</i> , 2020 , 5, e10142	14.8	31

50	Degradable polyelectrolyte multilayers that promote the release of siRNA. <i>Langmuir</i> , 2011 , 27, 7868-76	4	29
49	Multilayered films fabricated from an oligoarginine-conjugated protein promote efficient surface-mediated protein transduction. <i>Biomacromolecules</i> , 2007 , 8, 857-63	6.9	29
48	Intra-lymph node injection of biodegradable polymer particles. <i>Journal of Visualized Experiments</i> , 2014 , e50984	1.6	27
47	Prussian blue nanoparticle-based antigenicity and adjuvanticity trigger robust antitumor immune responses against neuroblastoma. <i>Biomaterials Science</i> , 2019 , 7, 1875-1887	7.4	27
46	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	5.4	24
45	Chemical activation of lipoplexes formed from DNA and a redox-active, ferrocene-containing cationic lipid. <i>Bioconjugate Chemistry</i> , 2008 , 19, 2120-8	6.3	24
44	Engineering tolerance using biomaterials to target and control antigen presenting cells. <i>Discovery Medicine</i> , 2016 , 21, 403-10	2.5	23
43	Directing toll-like receptor signaling in macrophages to enhance tumor immunotherapy. <i>Current Opinion in Biotechnology</i> , 2019 , 60, 138-145	11.4	22
42	Lipoplexes formed by DNA and ferrocenyl lipids: effect of lipid oxidation state on size, internal dynamics, and zeta-potential. <i>Biophysical Journal</i> , 2007 , 93, 4414-24	2.9	22
41	Engineering Biomaterials to Direct Innate Immunity. <i>Advanced Therapeutics</i> , 2019 , 2, 1800157	4.9	22
40	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	11.7	20
39	Integrating Biomaterials and Immunology to Improve Vaccines Against Infectious Diseases. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 759-778	5.5	20
38	Biomaterials as Tools to Decode Immunity. <i>Advanced Materials</i> , 2020 , 32, e1903367	24	19
37	A poly(beta-amino ester) activates macrophages independent of NF- κ B signaling. <i>Acta Biomaterialia</i> , 2018 , 68, 168-177	10.8	18
36	Polyplex interaction strength as a driver of potency during cancer immunotherapy. <i>Nano Research</i> , 2018 , 11, 5642-5656	10	17
35	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	11	17
34	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	4.9	16
33	Induction of anti-cancer T cell immunity by in situ vaccination using systemically administered nanomedicines. <i>Cancer Letters</i> , 2019 , 459, 192-203	9.9	14

32	Role of lymph node stroma and microenvironment in T cell tolerance. <i>Immunological Reviews</i> , 2019 , 292, 9-23	11.3	14
31	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, 431-41	9.3	13
30	Engineering release kinetics with polyelectrolyte multilayers to modulate TLR signaling and promote immune tolerance. <i>Biomaterials Science</i> , 2019 , 7, 798-808	7.4	11
29	Self-Assembly as a Molecular Strategy to Improve Immunotherapy. <i>Accounts of Chemical Research</i> , 2020 , 53, 2534-2545	24.3	11
28	Targeted Programming of the Lymph Node Environment Causes Evolution of Local and Systemic Immunity. <i>Cellular and Molecular Bioengineering</i> , 2016 , 9, 418-432	3.9	10
27	Lipid tethering of breast tumor cells enables real-time imaging of free-floating cell dynamics and drug response. <i>Oncotarget</i> , 2016 , 7, 10486-97	3.3	10
26	Engineering Cell Surfaces with Polyelectrolyte Materials for Translational Applications. <i>Polymers</i> , 2017 , 9,	4.5	9
25	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, 834-44	2.8	9
24	Controlled Release of Second Generation mTOR Inhibitors to Restrain Inflammation in Primary Immune Cells. <i>AAPS Journal</i> , 2017 , 19, 1175-1185	3.7	8
23	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	5.5	8
22	Harnessing the lymph node microenvironment. <i>Current Opinion in Organ Transplantation</i> , 2018 , 23, 73-82.	8.5	8
21	Intradermal Delivery of Bacteria by Using Microneedle Arrays. <i>Infection and Immunity</i> , 2018 , 86,	3.7	7
20	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	5.4	7
19	Extracting microtentacle dynamics of tumor cells in a non-adherent environment. <i>Oncotarget</i> , 2017 , 8, 111567-111580	3.3	7
18	Advanced manufacturing of microdisk vaccines for uniform control of material properties and immune cell function. <i>Biomaterials Science</i> , 2017 , 6, 115-124	7.4	7
17	Altering Antigen Charge to Control Self-Assembly and Processing of Immune Signals During Cancer Vaccination. <i>Frontiers in Immunology</i> , 2020 , 11, 613830	8.4	7
16	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	7.2	6
15	Leveraging the modularity of biomaterial carriers to tune immune responses. <i>Advanced Functional Materials</i> , 2020 , 30, 2004119	15.6	5

14	Exploiting Rational Assembly to Map Distinct Roles of Regulatory Cues during Autoimmune Therapy. <i>ACS Nano</i> , 2021 , 15, 4305-4320	16.7	5
13	Lymph node fibroblastic reticular cells steer immune responses. <i>Trends in Immunology</i> , 2021 , 42, 723-734	14.4	5
12	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	11.5	3
11	Mapping the Mechanical and Immunological Profiles of Polymeric Microneedles to Enable Vaccine and Immunotherapy Applications.. <i>Frontiers in Immunology</i> , 2022 , 13, 843355	8.4	3
10	A plug-and-play approach for malaria vaccination. <i>Nature Nanotechnology</i> , 2018 , 13, 1096-1097	28.7	2
9	Strategic Directions in Immunoresponsive Biomaterials in Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2017 , 23, 1042-1043	3.9	1
8	Microtentacle Formation in Ovarian Carcinoma.. <i>Cancers</i> , 2022 , 14,	6.6	1
7	Opening borders for foreign bodies. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	1
6	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	6.2	1
5	Histatin 5 variant reduces <i>Candida albicans</i> biofilm viability and inhibits biofilm formation. <i>Fungal Genetics and Biology</i> , 2021 , 149, 103529	3.9	1
4	Impact of Excipients on Stability of Polymer Microparticles for Autoimmune Therapy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 609577	5.8	1
3	Microtubule disruption reduces metastasis more effectively than primary tumor growth.. <i>Breast Cancer Research</i> , 2022 , 24, 13	8.3	1
2	Dendritic cell tracking and modulation. <i>Nature Materials</i> , 2020 , 19, 1134-1135	27	0
1	Biomaterial strategies to treat autoimmunity and unwanted immune responses to drugs and transplanted tissues 2021 , 139-173		