Christopher M Jewell

List of Publications by Year in Descending Order

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	Microtentacle Formation in Ovarian Carcinoma.. *Cancers*, **2022**, 14,	6.6	1
84	Microtubule disruption reduces metastasis more effectively than primary tumor growth.. *Breast Cancer Research*, **2022**, 24, 13	8.3	1
83	Mapping the Mechanical and Immunological Profiles of Polymeric Microneedles to Enable Vaccine and Immunotherapy Applications.. *Frontiers in Immunology*, **2022**, 13, 843355	8.4	3
82	Biomaterial-enabled induction of pancreatic-specific regulatory T cells through distinct signal transduction pathways. *Drug Delivery and Translational Research*, **2021**, 11, 2468-2481	6.2	1
81	Exploiting Rational Assembly to Map Distinct Roles of Regulatory Cues during Autoimmune Therapy. *ACS Nano*, **2021**, 15, 4305-4320	16.7	5
80	Biophysical Properties of Self-Assembled Immune Signals Impact Signal Processing and the Nature of Regulatory Immune Function. *Nano Letters*, **2021**, 21, 3762-3771	11.5	3
79	Histatin 5 variant reduces Candida albicans biofilm viability and inhibits biofilm formation. *Fungal Genetics and Biology*, **2021**, 149, 103529	3.9	1
78	Biomaterial strategies to treat autoimmunity and unwanted immune responses to drugs and transplanted tissues **2021**, 139-173		
77	Design of Dissolvable Microneedles for Delivery of a Pfs47-Based Malaria Transmission-Blocking Vaccine. *ACS Biomaterials Science and Engineering*, **2021**, 7, 1854-1862	5.5	8
76	Lymph node fibroblastic reticular cells steer immune responses. *Trends in Immunology*, **2021**, 42, 723-734	14.4	5
75	Peptide-TLR-7/8a conjugate vaccines chemically programmed for nanoparticle self-assembly enhance CD8 T-cell immunity to tumor antigens. *Nature Biotechnology*, **2020**, 38, 320-332	44.5	107
74	Integrating Biomaterials and Immunology to Improve Vaccines Against Infectious Diseases. *ACS Biomaterials Science and Engineering*, **2020**, 6, 759-778	5.5	20
73	Biomaterials as Tools to Decode Immunity. *Advanced Materials*, **2020**, 32, e1903367	24	19
72	Self-Assembly as a Molecular Strategy to Improve Immunotherapy. *Accounts of Chemical Research*, **2020**, 53, 2534-2545	24.3	11
71	Dendritic cell tracking and modulation. *Nature Materials*, **2020**, 19, 1134-1135	27	0
70	Partial thermal imidization of polyelectrolyte multilayer cell tethering surfaces (TetherChip) enables efficient cell capture and microtentacle fixation for circulating tumor cell analysis. *Lab on A Chip*, **2020**, 20, 2872-2888	7.2	6
69	Leveraging the modularity of biomaterial carriers to tune immune responses. *Advanced Functional Materials*, **2020**, 30, 2004119	15.6	5

68	Phage display as a tool for vaccine and immunotherapy development. *Bioengineering and Translational Medicine*, **2020**, 5, e10142	14.8	31
67	Impact of Excipients on Stability of Polymer Microparticles for Autoimmune Therapy. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 609577	5.8	1
66	Altering Antigen Charge to Control Self-Assembly and Processing of Immune Signals During Cancer Vaccination. *Frontiers in Immunology*, **2020**, 11, 613830	8.4	7
65	Engineering release kinetics with polyelectrolyte multilayers to modulate TLR signaling and promote immune tolerance. *Biomaterials Science*, **2019**, 7, 798-808	7.4	11
64	Designing inorganic nanomaterials for vaccines and immunotherapies. *Nano Today*, **2019**, 27, 73-98	17.9	56
63	Induction of anti-cancer T cell immunity by in situ vaccination using systemically administered nanomedicines. *Cancer Letters*, **2019**, 459, 192-203	9.9	14
62	Directing toll-like receptor signaling in macrophages to enhance tumor immunotherapy. *Current Opinion in Biotechnology*, **2019**, 60, 138-145	11.4	22
61	Role of lymph node stroma and microenvironment in T cell tolerance. *Immunological Reviews*, **2019**, 292, 9-23	11.3	14
60	Engineering Biomaterials to Direct Innate Immunity. *Advanced Therapeutics*, **2019**, 2, 1800157	4.9	22
59	Prussian blue nanoparticle-based antigenicity and adjuvanticity trigger robust antitumor immune responses against neuroblastoma. *Biomaterials Science*, **2019**, 7, 1875-1887	7.4	27
58	Engineering Immune Tolerance with Biomaterials. *Advanced Healthcare Materials*, **2019**, 8, e1801419	10.1	36
57	Overcoming Ovarian Cancer Drug Resistance with a Cold Responsive Nanomaterial. *ACS Central Science*, **2018**, 4, 567-581	16.8	36
56	A poly(beta-amino ester) activates macrophages independent of NF-B signaling. *Acta Biomaterialia*, **2018**, 68, 168-177	10.8	18
55	Intradermal Delivery of Bacteria by Using Microneedle Arrays. *Infection and Immunity*, **2018**, 86,	3.7	7
54	Improving Vaccine and Immunotherapy Design Using Biomaterials. *Trends in Immunology*, **2018**, 39, 135-150	14.4	121
53	Harnessing the lymph node microenvironment. *Current Opinion in Organ Transplantation*, **2018**, 23, 73-82	2.5	8
52	A plug-and-play approach for malaria vaccination. *Nature Nanotechnology*, **2018**, 13, 1096-1097	28.7	2
51	Polyplex interaction strength as a driver of potency during cancer immunotherapy. *Nano Research*, **2018**, 11, 5642-5656	10	17

50	Self-Assembly of Immune Signals Improves Codelivery to Antigen Presenting Cells and Accelerates Signal Internalization, Processing Kinetics, and Immune Activation. *Small*, **2018**, 14, e1802202	11	17
49	Designing natural and synthetic immune tissues. *Nature Materials*, **2018**, 17, 484-498	27	62
48	Low-dose controlled release of mTOR inhibitors maintains T cell plasticity and promotes central memory T cells. *Journal of Controlled Release*, **2017**, 263, 151-161	11.7	20
47	Controlled Release of Second Generation mTOR Inhibitors to Restrain Inflammation in Primary Immune Cells. *AAPS Journal*, **2017**, 19, 1175-1185	3.7	8
46	Designing biomaterials with immunomodulatory properties for tissue engineering and regenerative medicine. *Bioengineering and Translational Medicine*, **2017**, 2, 139-155	14.8	106
45	Engineering Immunological Tolerance Using Quantum Dots to Tune the Density of Self-Antigen Display. *Advanced Functional Materials*, **2017**, 27, 1700290	15.6	47
44	Engineering self-assembled materials to study and direct immune function. *Advanced Drug Delivery Reviews*, **2017**, 114, 60-78	18.5	44
43	Impact of molecular weight on the intrinsic immunogenic activity of poly(beta amino esters). *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 1219-1229	5.4	24
42	Polyplexes assembled from self-peptides and regulatory nucleic acids blunt toll-like receptor signaling to combat autoimmunity. *Biomaterials*, **2017**, 118, 51-62	15.6	43
41	Engineering Cell Surfaces with Polyelectrolyte Materials for Translational Applications. *Polymers*, **2017**, 9,	4.5	9
40	Strategic Directions in Immunoresponsive Biomaterials in Tissue Engineering. *Tissue Engineering - Part A*, **2017**, 23, 1042-1043	3.9	1
39	Control of autoimmune inflammation using liposomes to deliver positive allosteric modulators of metabotropic glutamate receptors. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 2977-2985	5.4	7
38	Impact of dose, route, and composition on the immunogenicity of immune polyelectrolyte multilayers delivered on gold templates. *Biotechnology and Bioengineering*, **2017**, 114, 423-431	4.9	16
37	Expansion of Melanoma-Specific T Cells Using Microneedle Arrays Coated with Immune-Polyelectrolyte Multilayers. *ACS Biomaterials Science and Engineering*, **2017**, 3, 195-205	5.5	52
36	Opening borders for foreign bodies. *Science Translational Medicine*, **2017**, 9,	17.5	1
35	Extracting microtentacle dynamics of tumor cells in a non-adherent environment. *Oncotarget*, **2017**, 8, 111567-111580	3.3	7
34	Advanced manufacturing of microdisk vaccines for uniform control of material properties and immune cell function. *Biomaterials Science*, **2017**, 6, 115-124	7.4	7
33	Design of Polyelectrolyte Multilayers to Promote Immunological Tolerance. *ACS Nano*, **2016**, 10, 9334-9345	13.7	54

32	Targeted Programming of the Lymph Node Environment Causes Evolution of Local and Systemic Immunity. *Cellular and Molecular Bioengineering*, **2016**, 9, 418-432	3.9	10
31	Reprogramming the Local Lymph Node Microenvironment Promotes Tolerance that Is Systemic and Antigen Specific. *Cell Reports*, **2016**, 16, 2940-2952	10.6	100
30	Intrinsic immunogenicity of rapidly-degradable polymers evolves during degradation. *Acta Biomaterialia*, **2016**, 32, 24-34	10.8	63
29	Lipid tethering of breast tumor cells enables real-time imaging of free-floating cell dynamics and drug response. *Oncotarget*, **2016**, 7, 10486-97	3.3	10
28	Improving the clinical impact of biomaterials in cancer immunotherapy. *Oncotarget*, **2016**, 7, 15421-43	3.3	43
27	Assembly and Immunological Processing of Polyelectrolyte Multilayers Composed of Antigens and Adjuvants. *ACS Applied Materials & Interfaces*, **2016**, 8, 18722-31	9.5	33
26	Engineering tolerance using biomaterials to target and control antigen presenting cells. *Discovery Medicine*, **2016**, 21, 403-10	2.5	23
25	Harnessing biomaterials to engineer the lymph node microenvironment for immunity or tolerance. *AAPS Journal*, **2015**, 17, 323-38	3.7	67
24	Controlled delivery of a metabolic modulator promotes regulatory T cells and restrains autoimmunity. *Journal of Controlled Release*, **2015**, 210, 169-78	11.7	32
23	Modular Vaccine Design Using Carrier-Free Capsules Assembled from Polyionic Immune Signals. *ACS Biomaterials Science and Engineering*, **2015**, 1, 1200-1205	5.5	49
22	Polyelectrolyte Multilayers Assembled Entirely from Immune Signals on Gold Nanoparticle Templates Promote Antigen-Specific T Cell Response. *ACS Nano*, **2015**, 9, 6465-77	16.7	112
21	Intra-lymph node injection of biodegradable polymer particles. *Journal of Visualized Experiments*, **2014**, e50984	1.6	27
20	Polyelectrolyte multilayers promote stent-mediated delivery of DNA to vascular tissue. *Biomacromolecules*, **2013**, 14, 1696-704	6.9	43
19	Oligonucleotide delivery by cell-penetrating "striped" nanoparticles. *Angewandte Chemie - International Edition*, **2011**, 50, 12312-12315	16.4	66
18	Degradable polyelectrolyte multilayers that promote the release of siRNA. *Langmuir*, **2011**, 27, 7868-76	4	29
17	Characterization of pH-induced changes in the morphology of polyelectrolyte multilayers assembled from poly(allylamine) and low molecular weight poly(acrylic acid). *Journal of Colloid and Interface Science*, **2011**, 355, 431-41	9.3	13
16	In situ engineering of the lymph node microenvironment via intranodal injection of adjuvant-releasing polymer particles. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 15745-50	11.5	177
15	Characterization of nanoscale transformations in polyelectrolyte multilayers fabricated from plasmid DNA using laser scanning confocal microscopy in combination with atomic force microscopy. *Microscopy Research and Technique*, **2010**, 73, 834-44	2.8	9

14	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, 913-24	10.8	47
13	Chemical activation of lipoplexes formed from DNA and a redox-active, ferrocene-containing cationic lipid. *Bioconjugate Chemistry*, **2008**, 19, 2120-8	6.3	24
12	Characterization of the nanostructure of complexes formed by a redox-active cationic lipid and DNA. *Journal of Physical Chemistry B*, **2008**, 112, 5849-57	3.4	35
11	Surface-Mediated Delivery of DNA: Cationic Polymers Take Charge. *Current Opinion in Colloid and Interface Science*, **2008**, 13, 395-402	7.6	78
10	Multilayered polyelectrolyte assemblies as platforms for the delivery of DNA and other nucleic acid-based therapeutics. *Advanced Drug Delivery Reviews*, **2008**, 60, 979-99	18.5	265
9	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. *Langmuir*, **2007**, 23, 8452-9	4	67
8	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. *Langmuir*, **2007**, 23, 11139-46	4	56
7	Multilayered films fabricated from an oligoarginine-conjugated protein promote efficient surface-mediated protein transduction. *Biomacromolecules*, **2007**, 8, 857-63	6.9	29
6	Reversible condensation of DNA using a redox-active surfactant. *Langmuir*, **2007**, 23, 5609-14	4	35
5	Lipoplexes formed by DNA and ferrocenyl lipids: effect of lipid oxidation state on size, internal dynamics, and zeta-potential. *Biophysical Journal*, **2007**, 93, 4414-24	2.9	22
4	Ferrocene-containing cationic lipids for the delivery of DNA: oxidation state determines transfection activity. *Journal of Controlled Release*, **2006**, 112, 129-38	11.7	39
3	Release of plasmid DNA from intravascular stents coated with ultrathin multilayered polyelectrolyte films. *Biomacromolecules*, **2006**, 7, 2483-91	6.9	144
2	Ferrocene-containing cationic lipids: influence of redox state on cell transfection. *Journal of the American Chemical Society*, **2005**, 127, 11576-7	16.4	65
1	Multilayered polyelectrolyte films promote the direct and localized delivery of DNA to cells. *Journal of Controlled Release*, **2005**, 106, 214-23	11.7	160