

# Darrell J Irvine

## List of Publications by Year in descending order

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211  
papers

26,267  
citations

5126

86  
h-index

8034

154  
g-index

229  
all docs

229  
docs citations

229  
times ranked

32530  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neoadjuvant STING Activation, Extended Half-life IL2, and Checkpoint Blockade Promote Metastasis Clearance via Sustained NK-cell Activation. <i>Cancer Immunology Research</i> , 2022, 10, 26-39.	1.6	10
2	Intratumorally injected alum-tethered cytokines elicit potent and safer local and systemic anticancer immunity. <i>Nature Biomedical Engineering</i> , 2022, 6, 129-143.	11.6	56
3	Mannose-binding lectin and complement mediate follicular localization and enhanced immunogenicity of diverse protein nanoparticle immunogens. <i>Cell Reports</i> , 2022, 38, 110217.	2.9	29
4	An adjuvant strategy enabled by modulation of the physical properties of microbial ligands expands antigen immunogenicity. <i>Cell</i> , 2022, 185, 614-629.e21.	13.5	40
5	Structure-guided changes at the V2 apex of HIV-1 clade C trimer enhance elicitation of autologous neutralizing and broad V1V2-scaffold antibodies. <i>Cell Reports</i> , 2022, 38, 110436.	2.9	6
6	Immunogenic cell stress and injury versus immunogenic cell death: implications for improving cancer treatment with immune checkpoint blockade. <i>Molecular and Cellular Oncology</i> , 2022, 9, 2039038.	0.3	0
7	Co-anchoring of Engineered Immunogen and Immunostimulatory Cytokines to Alum Promotes Enhanced Humoral Immunity. <i>Advanced Therapeutics</i> , 2022, 5, .	1.6	3
8	STING agonist delivery by tumour-penetrating PEG-lipid nanodiscs primes robust anticancer immunity. <i>Nature Materials</i> , 2022, 21, 710-720.	13.3	114
9	Controlling Nuclease Degradation of Wireframe DNA Origami with Minor Groove Binders. <i>ACS Nano</i> , 2022, 16, 8954-8966.	7.3	22
10	Intratumorally anchored cytokine therapy. <i>Expert Opinion on Drug Delivery</i> , 2022, 19, 725-732.	2.4	11
11	Peptide-Based Cancer Vaccine Delivery via the STING <sup>1</sup> /TM6 <sup>2</sup> GAMP Complex. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	12
12	Screening for CD19-specific chimaeric antigen receptors with enhanced signalling via a barcoded library of intracellular domains. <i>Nature Biomedical Engineering</i> , 2022, 6, 855-866.	11.6	23
13	In Vivo Validation of a Reversible Small Molecule-Based Switch for Synthetic Self-Amplifying mRNA Regulation. <i>Molecular Therapy</i> , 2021, 29, 1164-1173.	3.7	13
14	Surface Plasmon-Enhanced Short-Wave Infrared Fluorescence for Detecting Sub-Millimeter-Sized Tumors. <i>Advanced Materials</i> , 2021, 33, e2006057.	11.1	23
15	Morphological Definition of Actin Architecture at the T Cell Immunological Synapse. <i>Journal of the Indian Institute of Science</i> , 2021, 101, 47-50.	0.9	0
16	IgG-Engineered Protective Antigen for Cytosolic Delivery of Proteins into Cancer Cells. <i>ACS Central Science</i> , 2021, 7, 365-378.	5.3	8
17	Temporal dynamics of intradermal cytokine response to tuberculin in Mycobacterium bovis BCG-vaccinated cattle using sampling microneedles. <i>Scientific Reports</i> , 2021, 11, 7074.	1.6	7
18	Ivermectin converts cold tumors hot and synergizes with immune checkpoint blockade for treatment of breast cancer. <i>Npj Breast Cancer</i> , 2021, 7, 22.	2.3	16

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19	Exploiting albumin as a mucosal vaccine chaperone for robust generation of lung-resident memory T cells. <i>Science Immunology</i> , 2021, 6, .	5.6	43
20	Immunotherapy-induced antibodies to endogenous retroviral envelope glycoprotein confer tumor protection in mice. <i>PLoS ONE</i> , 2021, 16, e0248903.	1.1	6
21	Engineering Strategies for Immunomodulatory Cytokine Therapies: Challenges and Clinical Progress. <i>Advanced Therapeutics</i> , 2021, 4, 2100035.	1.6	42
22	A participant-derived xenograft model of HIV enables long-term evaluation of autologous immunotherapies. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	9
23	Disassembly of HIV envelope glycoprotein trimer immunogens is driven by antibodies elicited via immunization. <i>Science Advances</i> , 2021, 7, .	4.7	37
24	An in vivo selection-derived <sc>d</sc>-peptide for engineering erythrocyte-binding antigens that promote immune tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	6
25	Combined PET and whole-tissue imaging of lymphatic-targeting vaccines in non-human primates. <i>Biomaterials</i> , 2021, 275, 120868.	5.7	16
26	Evolution of Toll-like receptor 7/8 agonist therapeutics and their delivery approaches: From antiviral formulations to vaccine adjuvants. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113803.	6.6	76
27	Low neoantigen expression and poor T-cell priming underlie early immune escape in colorectal cancer. <i>Nature Cancer</i> , 2021, 2, 1071-1085.	5.7	57
28	<i>In Situ</i> Covalent Functionalization of DNA Origami Virus-like Particles. <i>ACS Nano</i> , 2021, 15, 14316-14322.	7.3	29
29	Engineered SARS-CoV-2 receptor binding domain improves manufacturability in yeast and immunogenicity in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	68
30	In vitro STING Activation with the cGAMP-STING <sup>1</sup> ™ Signaling Complex. <i>Bio-protocol</i> , 2021, 11, e3905.	0.2	0
31	The injury response to DNA damage in live tumor cells promotes antitumor immunity. <i>Science Signaling</i> , 2021, 14, eabc4764.	1.6	32
32	Sequential immunization of macaques elicits heterologous neutralizing antibodies targeting the V3-glycan patch of HIV-1 Env. <i>Science Translational Medicine</i> , 2021, 13, eabk1533.	5.8	27
33	Reprogramming NK cells and macrophages via combined antibody and cytokine therapy primes tumors for elimination by checkpoint blockade. <i>Cell Reports</i> , 2021, 37, 110021.	2.9	21
34	A particulate saponin/TLR agonist vaccine adjuvant alters lymph flow and modulates adaptive immunity. <i>Science Immunology</i> , 2021, 6, eabf1152.	5.6	63
35	Introduction to the Special Issue: Nanoparticles and immune responses. <i>Seminars in Immunology</i> , 2021, 56, 101548.	2.7	0
36	Phosphate-mediated coanchoring of RBD immunogens and molecular adjuvants to alum potentiates humoral immunity against SARS-CoV-2. <i>Science Advances</i> , 2021, 7, eabj6538.	4.7	19

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37	Cytoskeletal tension actively sustains the migratory T cell synaptic contact. <i>EMBO Journal</i> , 2020, 39, e102783.	3.5	53
38	DOCK2 Sets the Threshold for Entry into the Virtual Memory CD8+ T Cell Compartment by Negatively Regulating Tonic TCR Triggering. <i>Journal of Immunology</i> , 2020, 204, 49-57.	0.4	9
39	Murine CD8 T cell functional avidity is stable in vivo but not in vitro: Independence from homologous prime/boost time interval and antigen density. <i>European Journal of Immunology</i> , 2020, 50, 505-514.	1.6	6
40	Multifaceted Effects of Antigen Valency on B Cell Response Composition and Differentiation In Vivo. <i>Immunity</i> , 2020, 53, 548-563.e8.	6.6	149
41	Calcium-triggered fusion of lipid membranes is enabled by amphiphilic nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18470-18476.	3.3	38
42	Cancer Cell Coating Nanoparticles for Optimal Tumor-Specific Cytokine Delivery. <i>ACS Nano</i> , 2020, 14, 11238-11253.	7.3	45
43	Resistance to PD1 blockade in the absence of metalloprotease-mediated LAG3 shedding. <i>Science Immunology</i> , 2020, 5, .	5.6	36
44	Regulatory T cells engineered with TCR signaling-responsive IL-2 nanogels suppress alloimmunity in sites of antigen encounter. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	39
45	Multifunctional oncolytic nanoparticles deliver self-replicating IL-12 RNA to eliminate established tumors and prime systemic immunity. <i>Nature Cancer</i> , 2020, 1, 882-893.	5.7	113
46	Targeting HIV Env immunogens to B cell follicles in nonhuman primates through immune complex or protein nanoparticle formulations. <i>Npj Vaccines</i> , 2020, 5, 72.	2.9	39
47	Pharmacokinetic tuning of protein-antigen fusions enhances the immunogenicity of T-cell vaccines. <i>Nature Biomedical Engineering</i> , 2020, 4, 636-648.	11.6	44
48	ABC triblock bottlebrush copolymer-based injectable hydrogels: design, synthesis, and application to expanding the therapeutic index of cancer immunochemotherapy. <i>Chemical Science</i> , 2020, 11, 5974-5986.	3.7	40
49	Self-assembled cGAMP-STING signaling complex as a bioinspired platform for cGAMP delivery. <i>Science Advances</i> , 2020, 6, eaba7589.	4.7	41
50	Shaping humoral immunity to vaccines through antigen-displaying nanoparticles. <i>Current Opinion in Immunology</i> , 2020, 65, 1-6.	2.4	78
51	Role of nanoscale antigen organization on B-cell activation probed using DNA origami. <i>Nature Nanotechnology</i> , 2020, 15, 716-723.	15.6	263
52	Controlling timing and location in vaccines. <i>Advanced Drug Delivery Reviews</i> , 2020, 158, 91-115.	6.6	141
53	Engineered immunogen binding to alum adjuvant enhances humoral immunity. <i>Nature Medicine</i> , 2020, 26, 430-440.	15.2	172
54	Enhancing cancer immunotherapy with nanomedicine. <i>Nature Reviews Immunology</i> , 2020, 20, 321-334.	10.6	506

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55	Hydrogel-Coated Microneedle Arrays for Minimally Invasive Sampling and Sensing of Specific Circulating Nucleic Acids from Skin Interstitial Fluid. <i>ACS Nano</i> , 2019, 13, 9620-9628.	7.3	140
56	Enhancing humoral immunity via sustained-release implantable microneedle patch vaccination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16473-16478.	3.3	141
57	Anchoring of intratumorally administered cytokines to collagen safely potentiates systemic cancer immunotherapy. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	141
58	A multilamellar nanoliposome stabilized by interlayer hydrogen bonds increases antimalarial drug efficacy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 22, 102099.	1.7	18
59	Rapid Germinal Center and Antibody Responses in Non-human Primates after a Single Nanoparticle Vaccine Immunization. <i>Cell Reports</i> , 2019, 29, 1756-1766.e8.	2.9	47
60	Donor cell engineering with GSK3 inhibitor-loaded nanoparticles enhances engraftment after in utero transplantation. <i>Blood</i> , 2019, 134, 1983-1995.	0.6	13
61	Immunogenicity of RNA Replicons Encoding HIV Env Immunogens Designed for Self-Assembly into Nanoparticles. <i>Molecular Therapy</i> , 2019, 27, 2080-2090.	3.7	58
62	Redox-responsive interleukin-2 nanogel specifically and safely promotes the proliferation and memory precursor differentiation of tumor-reactive T-cells. <i>Biomaterials Science</i> , 2019, 7, 1345-1357.	2.6	58
63	Immunization expands B cells specific to HIV-1 V3 glycan in mice and macaques. <i>Nature</i> , 2019, 570, 468-473.	13.7	145
64	Slow Delivery Immunization Enhances HIV Neutralizing Antibody and Germinal Center Responses via Modulation of Immunodominance. <i>Cell</i> , 2019, 177, 1153-1171.e28.	13.5	293
65	In vitro evolution of enhanced RNA replicons for immunotherapy. <i>Scientific Reports</i> , 2019, 9, 6932.	1.6	40
66	Order of administration of combination cytokine therapies can decouple toxicity from efficacy in syngeneic mouse tumor models. <i>Oncolimmunology</i> , 2019, 8, e1558678.	2.1	10
67	Probing the Role of HIV Antigen Nanoscale Organization on B-Cell Activation with DNA Origami. <i>Biophysical Journal</i> , 2019, 116, 578a.	0.2	0
68	Vaccine-Induced Protection from Homologous Tier 2 SHIV Challenge in Nonhuman Primates Depends on Serum-Neutralizing Antibody Titers. <i>Immunity</i> , 2019, 50, 241-252.e6.	6.6	153
69	Innate immune recognition of glycans targets HIV nanoparticle immunogens to germinal centers. <i>Science</i> , 2019, 363, 649-654.	6.0	227
70	Amphiphilic nanoparticle delivery enhances the anticancer efficacy of a TLR7 ligand via local immune activation. <i>Biomaterials</i> , 2019, 190-191, 111-120.	5.7	43
71	Targeting small molecule drugs to T cells with antibody-directed cell-penetrating gold nanoparticles. <i>Biomaterials Science</i> , 2019, 7, 113-124.	2.6	67
72	Enhanced CAR-T cell activity against solid tumors by vaccine boosting through the chimeric receptor. <i>Science</i> , 2019, 365, 162-168.	6.0	282

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73	Structure-Property Relationships of Amphiphilic Nanoparticles That Penetrate or Fuse Lipid Membranes. <i>Bioconjugate Chemistry</i> , 2018, 29, 1131-1140.	1.8	36
74	Nanoparticle anchoring targets immune agonists to tumors enabling anti-cancer immunity without systemic toxicity. <i>Nature Communications</i> , 2018, 9, 6.	5.8	184
75	Enhancing Humoral Responses Against HIV Envelope Trimers via Nanoparticle Delivery with Stabilized Synthetic Liposomes. <i>Scientific Reports</i> , 2018, 8, 16527.	1.6	69
76	Cell and fluid sampling microneedle patches for monitoring skin-resident immunity. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	111
77	Combined HDAC and BET Inhibition Enhances Melanoma Vaccine Immunogenicity and Efficacy. <i>Journal of Immunology</i> , 2018, 201, 2744-2752.	0.4	11
78	Synthetic Charge-Invertible Polymer for Rapid and Complete Implantation of Layer-by-Layer Microneedle Drug Films for Enhanced Transdermal Vaccination. <i>ACS Nano</i> , 2018, 12, 10272-10280.	7.3	72
79	Material aid for vaccines. <i>Nature Materials</i> , 2018, 17, 472-473.	13.3	10
80	Enhancing T cell therapy through TCR-signaling-responsive nanoparticle drug delivery. <i>Nature Biotechnology</i> , 2018, 36, 707-716.	9.4	448
81	Polymers at the Interface with Biology. <i>Biomacromolecules</i> , 2018, 19, 3151-3162.	2.6	10
82	Enhancement of Peptide Vaccine Immunogenicity by Increasing Lymphatic Drainage and Boosting Serum Stability. <i>Cancer Immunology Research</i> , 2018, 6, 1025-1038.	1.6	58
83	Structurally Programmed Assembly of Translation Initiation Nanoplex for Superior mRNA Delivery. <i>ACS Nano</i> , 2017, 11, 2531-2544.	7.3	74
84	High-throughput quantitation of inorganic nanoparticle biodistribution at the single-cell level using mass cytometry. <i>Nature Communications</i> , 2017, 8, 14069.	5.8	102
85	Enhancing Adoptive Cell Therapy of Cancer through Targeted Delivery of Small-Molecule Immunomodulators to Internalizing or Noninternalizing Receptors. <i>ACS Nano</i> , 2017, 11, 3089-3100.	7.3	117
86	Nanoscience and Nanotechnology Cross Borders. <i>ACS Nano</i> , 2017, 11, 1123-1126.	7.3	4
87	Delivering safer immunotherapies for cancer. <i>Advanced Drug Delivery Reviews</i> , 2017, 114, 79-101.	6.6	233
88	Elicitation of Robust Tier 2 Neutralizing Antibody Responses in Nonhuman Primates by HIV Envelope Trimer Immunization Using Optimized Approaches. <i>Immunity</i> , 2017, 46, 1073-1088.e6.	6.6	286
89	Radiation-enhanced delivery of systemically administered amphiphilic-CpG oligodeoxynucleotide. <i>Journal of Controlled Release</i> , 2017, 266, 248-255.	4.8	21
90	Roles for Innate Immunity in Combination Immunotherapies. <i>Cancer Research</i> , 2017, 77, 5215-5221.	0.4	81

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91	T cell-targeting nanoparticles focus delivery of immunotherapy to improve antitumor immunity. <i>Nature Communications</i> , 2017, 8, 1747.	5.8	336
92	Immunogenic Cell Death Amplified by Co-localized Adjuvant Delivery for Cancer Immunotherapy. <i>Nano Letters</i> , 2017, 17, 7387-7393.	4.5	184
93	Synthetic Lift-off Polymer beneath Layer-by-Layer Films for Surface-Mediated Drug Delivery. <i>ACS Macro Letters</i> , 2017, 6, 1320-1324.	2.3	9
94	Smart Radiation Therapy Biomaterials. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 97, 624-637.	0.4	42
95	Synthesis of Lymph Node-Targeting Adjuvants. <i>Methods in Molecular Biology</i> , 2017, 1494, 145-152.	0.4	5
96	Antigen recognition-triggered drug delivery mediated by nanocapsule-functionalized cytotoxic T-cells. <i>Biomaterials</i> , 2017, 117, 44-53.	5.7	61
97	Beyond antigens and adjuvants: formulating future vaccines. <i>Journal of Clinical Investigation</i> , 2016, 126, 799-808.	3.9	309
98	A Subset of Latency-Reversing Agents Expose HIV-Infected Resting CD4+ T-Cells to Recognition by Cytotoxic T-Lymphocytes. <i>PLoS Pathogens</i> , 2016, 12, e1005545.	2.1	142
99	Generation of Long-Lived Bone Marrow Plasma Cells Secreting Antibodies Specific for the HIV-1 gp41 Membrane-Proximal External Region in the Absence of Polyreactivity. <i>Journal of Virology</i> , 2016, 90, 8875-8890.	1.5	20
100	Targeting dendritic cells to accelerate T-cell activation overcomes a bottleneck in tuberculosis vaccine efficacy. <i>Nature Communications</i> , 2016, 7, 13894.	5.8	100
101	Temporally Programmed CD8 <sup>+</sup> + DC Activation Enhances Combination Cancer Immunotherapy. <i>Cell Reports</i> , 2016, 17, 2503-2511.	2.9	37
102	Sustained antigen availability during germinal center initiation enhances antibody responses to vaccination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6639-E6648.	3.3	286
103	HIV Vaccine Design to Target Germline Precursors of Glycan-Dependent Broadly Neutralizing Antibodies. <i>Immunity</i> , 2016, 45, 483-496.	6.6	335
104	Materializing the future of vaccines and immunotherapy. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	32
105	Eradication of large established tumors in mice by combination immunotherapy that engages innate and adaptive immune responses. <i>Nature Medicine</i> , 2016, 22, 1402-1410.	15.2	437
106	A Receptor for All Occasions. <i>Cell</i> , 2016, 164, 599-600.	13.5	4
107	A DOCK8-WIP-WASp complex links T cell receptors to the actin cytoskeleton. <i>Journal of Clinical Investigation</i> , 2016, 126, 3837-3851.	3.9	93
108	Active targeting of chemotherapy to disseminated tumors using nanoparticle-carrying T cells. <i>Science Translational Medicine</i> , 2015, 7, 291ra94.	5.8	242

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109	Microfluidic squeezing for intracellular antigen loading in polyclonal B-cells as cellular vaccines. <i>Scientific Reports</i> , 2015, 5, 10276.	1.6	88
110	Manipulating the Selection Forces during Affinity Maturation to Generate Cross-Reactive HIV Antibodies. <i>Cell</i> , 2015, 160, 785-797.	13.5	173
111	Liposomal vaccines incorporating molecular adjuvants and intrastructural T-cell help promote the immunogenicity of HIV membrane-proximal external region peptides. <i>Vaccine</i> , 2015, 33, 861-868.	1.7	76
112	Influence of the glycocalyx and plasma membrane composition on amphiphilic gold nanoparticle association with erythrocytes. <i>Nanoscale</i> , 2015, 7, 11420-11432.	2.8	51
113	Synthetic Nanoparticles for Vaccines and Immunotherapy. <i>Chemical Reviews</i> , 2015, 115, 11109-11146.	23.0	623
114	Engineering New Approaches to Cancer Vaccines. <i>Cancer Immunology Research</i> , 2015, 3, 836-843.	1.6	50
115	Nanoparticulate STING agonists are potent lymph node-targeted vaccine adjuvants. <i>Journal of Clinical Investigation</i> , 2015, 125, 2532-2546.	3.9	306
116	Guiding Principles in the Design of Molecular Bioconjugates for Vaccine Applications. <i>Bioconjugate Chemistry</i> , 2015, 26, 791-801.	1.8	74
117	Synergistic Innate and Adaptive Immune Response to Combination Immunotherapy with Anti-Tumor Antigen Antibodies and Extended Serum Half-Life IL-2. <i>Cancer Cell</i> , 2015, 27, 489-501.	7.7	158
118	Biomaterial Strategies for Immunomodulation. <i>Annual Review of Biomedical Engineering</i> , 2015, 17, 317-349.	5.7	132
119	Big thinking for adjuvants. <i>Nature Biotechnology</i> , 2015, 33, 1146-1148.	9.4	18
120	CD4 <sup>+</sup> T cell-dependent and CD4 <sup>+</sup> T cell-independent cytokine-chemokine network changes in the immune responses of HIV-infected individuals. <i>Science Signaling</i> , 2015, 8, ra104.	1.6	20
121	Editorial overview: Special section: Immunological engineering. <i>Current Opinion in Immunology</i> , 2015, 35, ix-xi.	2.4	0
122	Actin foci facilitate activation of the phospholipase C- $\beta$ 3 in primary T lymphocytes via the WASP pathway. <i>ELife</i> , 2015, 4, .	2.8	200
123	High Avidity CD8 <sup>+</sup> T Cells Efficiently Eliminate Motile HIV-Infected Targets and Execute a Locally Focused Program of Anti-Viral Function. <i>PLoS ONE</i> , 2014, 9, e87873.	1.1	31
124	Histone Deacetylase Inhibitors Impair the Elimination of HIV-Infected Cells by Cytotoxic T-Lymphocytes. <i>PLoS Pathogens</i> , 2014, 10, e1004287.	2.1	179
125	Structure-based programming of lymph-node targeting in molecular vaccines. <i>Nature</i> , 2014, 507, 519-522.	13.7	760
126	Implantable Silk Composite Microneedles for Programmable Vaccine Release Kinetics and Enhanced Immunogenicity in Transcutaneous Immunization. <i>Advanced Healthcare Materials</i> , 2014, 3, 47-58.	3.9	139



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127	Antigen Delivery by Lipid-Enveloped PLGA Microparticle Vaccines Mediated by <i>in Situ</i> Vesicle Shedding. <i>Biomacromolecules</i> , 2014, 15, 2475-2481.	2.6	35
128	Enhancing Radiotherapy by Lipid Nanocapsule-Mediated Delivery of Amphiphilic Gold Nanoparticles to Intracellular Membranes. <i>ACS Nano</i> , 2014, 8, 8992-9002.	7.3	97
129	Design of Lipid Nanocapsule Delivery Vehicles for Multivalent Display of Recombinant Env Trimers in HIV Vaccination. <i>Bioconjugate Chemistry</i> , 2014, 25, 1470-1478.	1.8	38
130	Cell Engineering with Glycogen Synthase Kinase-3 Beta Inhibitor-Loaded Synthetic Nanoparticles Enhances Hematopoietic Engraftment of Bone Marrow Mononuclear Cells Following <i>in Utero</i> Transplantation. <i>Blood</i> , 2014, 124, 2414-2414.	0.6	0
131	Effect of Particle Diameter and Surface Composition on the Spontaneous Fusion of Monolayer-Protected Gold Nanoparticles with Lipid Bilayers. <i>Nano Letters</i> , 2013, 13, 4060-4067.	4.5	236
132	Engineering synthetic vaccines using cues from natural immunity. <i>Nature Materials</i> , 2013, 12, 978-990.	13.3	500
133	Immunogenicity of Membrane-bound HIV-1 gp41 Membrane-proximal External Region (MPER) Segments Is Dominated by Residue Accessibility and Modulated by Stereochemistry. <i>Journal of Biological Chemistry</i> , 2013, 288, 31888-31901.	1.6	43
134	Drug Delivery: Composite Dissolving Microneedles for Coordinated Control of Antigen and Adjuvant Delivery Kinetics in Transcutaneous Vaccination ( <i>Adv. Funct. Mater.</i> 2/2013). <i>Advanced Functional Materials</i> , 2013, 23, 138-138.	7.8	0
135	Synergistic Antitumor Activity from Two-Stage Delivery of Targeted Toxins and Endosome-Disrupting Nanoparticles. <i>Biomacromolecules</i> , 2013, 14, 1093-1102.	2.6	18
136	Localized Immunotherapy via Liposome-Anchored Anti-CD137 + IL-2 Prevents Lethal Toxicity and Elicits Local and Systemic Antitumor Immunity. <i>Cancer Research</i> , 2013, 73, 1547-1558.	0.4	176
137	Rapid Conformational Epitope Mapping of Anti-gp120 Antibodies with a Designed Mutant Panel Displayed on Yeast. <i>Journal of Molecular Biology</i> , 2013, 425, 444-456.	2.0	56
138	<i>In vivo</i> targeting of adoptively transferred T-cells with antibody- and cytokine-conjugated liposomes. <i>Journal of Controlled Release</i> , 2013, 172, 426-435.	4.8	122
139	Vaccine delivery with microneedle skin patches in nonhuman primates. <i>Nature Biotechnology</i> , 2013, 31, 1082-1085.	9.4	85
140	Polymer multilayer tattooing for enhanced DNA vaccination. <i>Nature Materials</i> , 2013, 12, 367-376.	13.3	242
141	Composite Dissolving Microneedles for Coordinated Control of Antigen and Adjuvant Delivery Kinetics in Transcutaneous Vaccination. <i>Advanced Functional Materials</i> , 2013, 23, 161-172.	7.8	147
142	Koch Institute Symposium on Cancer Immunology and Immunotherapy. <i>Cancer Immunology Research</i> , 2013, 1, 217-222.	1.6	1
143	Generation of Effector Memory T Cell-Based Mucosal and Systemic Immunity with Pulmonary Nanoparticle Vaccination. <i>Science Translational Medicine</i> , 2013, 5, 204ra130.	5.8	157
144	Enhanced Phagocytic Activity of HIV-Specific Antibodies Correlates with Natural Production of Immunoglobulins with Skewed Affinity for FcγR2a and FcγR2b. <i>Journal of Virology</i> , 2013, 87, 5468-5476.	1.5	94

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145	Enhancing humoral responses to a malaria antigen with nanoparticle vaccines that expand T <sub>fh</sub> cells and promote germinal center induction. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1080-1085.	3.3	291
146	Releasable Layer-by-Layer Assembly of Stabilized Lipid Nanocapsules on Microneedles for Enhanced Transcutaneous Vaccine Delivery. ACS Nano, 2012, 6, 8041-8051.	7.3	170
147	Cellular Barcodes for Efficiently Profiling Single-Cell Secretory Responses by Microengraving. Analytical Chemistry, 2012, 84, 10531-10536.	3.2	44
148	Engineering Nano- and Microparticles to Tune Immunity. Advanced Materials, 2012, 24, 3724-3746.	11.1	334
149	Synapse-directed delivery of immunomodulators using T-cell-conjugated nanoparticles. Biomaterials, 2012, 33, 5776-5787.	5.7	168
150	Robust IgG responses to nanograms of antigen using a biomimetic lipid-coated particle vaccine. Journal of Controlled Release, 2012, 157, 354-365.	4.8	93
151	Antigen-Displaying Lipid-Enveloped PLGA Nanoparticles as Delivery Agents for a Plasmodium vivax Malaria Vaccine. PLoS ONE, 2012, 7, e31472.	1.1	133
152	In Chemotaxing Fibroblasts, Both High-Fidelity and Weakly Biased Cell Movements Track the Localization of PI3K Signaling. Biophysical Journal, 2011, 100, 1893-1901.	0.2	27
153	T Cell Receptor Internalization from the Immunological Synapse Is Mediated by TC21 and RhoG GTPase-Dependent Phagocytosis. Immunity, 2011, 35, 208-222.	6.6	152
154	Interbilayer-crosslinked multilamellar vesicles as synthetic vaccines for potent humoral and cellular immune responses. Nature Materials, 2011, 10, 243-251.	13.3	498
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