

# James J Moon

## List of Publications by Year in descending order

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110  
papers

12,256  
citations

34016

52  
h-index

27345

106  
g-index

113  
all docs

113  
docs citations

113  
times ranked

14653  
citing authors

#	ARTICLE	IF	CITATIONS
1	Designer vaccine nanodiscs for personalized cancer immunotherapy. <i>Nature Materials</i> , 2017, 16, 489-496.	13.3	817
2	Cancer nanomedicine for combination cancer immunotherapy. <i>Nature Reviews Materials</i> , 2019, 4, 398-414.	23.3	658
3	Chemo-photothermal therapy combination elicits anti-tumor immunity against advanced metastatic cancer. <i>Nature Communications</i> , 2018, 9, 1074.	5.8	618
4	Therapeutic cell engineering with surface-conjugated synthetic nanoparticles. <i>Nature Medicine</i> , 2010, 16, 1035-1041.	15.2	599
5	Interbilayer-crosslinked multilamellar vesicles as synthetic vaccines for potent humoral and cellular immune responses. <i>Nature Materials</i> , 2011, 10, 243-251.	13.3	498
6	Covalently immobilized gradients of bFGF on hydrogel scaffolds for directed cell migration. <i>Biomaterials</i> , 2005, 26, 3227-3234.	5.7	434
7	Photolithographic patterning of polyethylene glycol hydrogels. <i>Biomaterials</i> , 2006, 27, 2519-2524.	5.7	372
8	Hyaluronic acid-bilirubin nanomedicine for targeted modulation of dysregulated intestinal barrier, microbiome and immune responses in colitis. <i>Nature Materials</i> , 2020, 19, 118-126.	13.3	370
9	Three-dimensional micropatterning of bioactive hydrogels via two-photon laser scanning photolithography for guided 3D cell migration. <i>Biomaterials</i> , 2008, 29, 2962-2968.	5.7	369
10	Engineering Nano- and Microparticles to Tune Immunity. <i>Advanced Materials</i> , 2012, 24, 3724-3746.	11.1	334
11	Biomimetic hydrogels with pro-angiogenic properties. <i>Biomaterials</i> , 2010, 31, 3840-3847.	5.7	324
12	Enhancing humoral responses to a malaria antigen with nanoparticle vaccines that expand T <sub>fh</sub> cells and promote germinal center induction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1080-1085.	3.3	291
13	Elimination of established tumors with nanodisc-based combination chemoimmunotherapy. <i>Science Advances</i> , 2018, 4, eaao1736.	4.7	269
14	Amplifying STING activation by cyclic dinucleotide-manganese particles for local and systemic cancer metalloimmunotherapy. <i>Nature Nanotechnology</i> , 2021, 16, 1260-1270.	15.6	261
15	Biomaterials for Nanoparticle Vaccine Delivery Systems. <i>Pharmaceutical Research</i> , 2014, 31, 2563-2582.	1.7	258
16	High-Density Lipoproteins: Nature's Multifunctional Nanoparticles. <i>ACS Nano</i> , 2016, 10, 3015-3041.	7.3	255
17	Nanoparticle Drug Delivery Systems Designed to Improve Cancer Vaccines and Immunotherapy. <i>Vaccines</i> , 2015, 3, 662-685.	2.1	225
18	Vascularization of Engineered Tissues: Approaches to Promote Angiogenesis in Biomaterials. <i>Current Topics in Medicinal Chemistry</i> , 2008, 8, 300-310.	1.0	213

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19	Microfluidic alignment of collagen fibers for in vitro cell culture. <i>Biomedical Microdevices</i> , 2006, 8, 35-41.	1.4	199
20	Immunogenic Cell Death Amplified by Co-localized Adjuvant Delivery for Cancer Immunotherapy. <i>Nano Letters</i> , 2017, 17, 7387-7393.	4.5	184
21	Releasable Layer-by-Layer Assembly of Stabilized Lipid Nanocapsules on Microneedles for Enhanced Transcutaneous Vaccine Delivery. <i>ACS Nano</i> , 2012, 6, 8041-8051.	7.3	170
22	Micropatterning of Poly(Ethylene Glycol) Diacrylate Hydrogels with Biomolecules to Regulate and Guide Endothelial Morphogenesis. <i>Tissue Engineering - Part A</i> , 2009, 15, 579-585.	1.6	163
23	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
24	Non-viral COVID-19 vaccine delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2021, 169, 137-151.	6.6	152
25	Covalently-Immobilized Vascular Endothelial Growth Factor Promotes Endothelial Cell Tubulogenesis in Poly(ethylene glycol) Diacrylate Hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009, 20, 1763-1779.	1.9	150
26	Positron Emission Tomography-Guided Photodynamic Therapy with Biodegradable Mesoporous Silica Nanoparticles for Personalized Cancer Immunotherapy. <i>ACS Nano</i> , 2019, 13, 12148-12161.	7.3	138
27	Bacteria-like mesoporous silica-coated gold nanorods for positron emission tomography and photoacoustic imaging-guided chemo-photothermal combined therapy. <i>Biomaterials</i> , 2018, 165, 56-65.	5.7	134
28	Cationic liposome-hyaluronic acid hybrid nanoparticles for intranasal vaccination with subunit antigens. <i>Journal of Controlled Release</i> , 2015, 208, 121-129.	4.8	133
29	Antigen-Displaying Lipid-Enveloped PLGA Nanoparticles as Delivery Agents for a Plasmodium vivax Malaria Vaccine. <i>PLoS ONE</i> , 2012, 7, e31472.	1.1	133
30	Engineered Nanoparticles for Cancer Vaccination and Immunotherapy. <i>Accounts of Chemical Research</i> , 2020, 53, 2094-2105.	7.6	129
31	Engineering patient-specific cancer immunotherapies. <i>Nature Biomedical Engineering</i> , 2019, 3, 768-782.	11.6	123
32	High-Density Lipoprotein-Mimicking Nanodiscs for Chemo-immunotherapy against Glioblastoma Multiforme. <i>ACS Nano</i> , 2019, 13, 1365-1384.	7.3	122
33	Immunomodulating Nanomedicine for Cancer Therapy. <i>Nano Letters</i> , 2018, 18, 6655-6659.	4.5	121
34	Role of cell surface heparan sulfate proteoglycans in endothelial cell migration and mechanotransduction. <i>Journal of Cellular Physiology</i> , 2005, 203, 166-176.	2.0	114
35	Cell membrane-coated nanocarriers: the emerging targeted delivery system for cancer theranostics. <i>Drug Discovery Today</i> , 2018, 23, 891-899.	3.2	112
36	Dual TLR agonist nanodiscs as a strong adjuvant system for vaccines and immunotherapy. <i>Journal of Controlled Release</i> , 2018, 282, 131-139.	4.8	104

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37	Poly(ethylene glycol) hydrogels conjugated with a collagenase-sensitive fluorogenic substrate to visualize collagenase activity during three-dimensional cell migration. <i>Biomaterials</i> , 2007, 28, 3163-3170.	5.7	98
38	LIMIT is an immunogenic lncRNA in cancer immunity and immunotherapy. <i>Nature Cell Biology</i> , 2021, 23, 526-537.	4.6	96
39	Generation of systemic antitumour immunity via the in situ modulation of the gut microbiome by an orally administered inulin gel. <i>Nature Biomedical Engineering</i> , 2021, 5, 1377-1388.	11.6	95
40	Synthetic Biomimetic Hydrogels Incorporated with Ephrin-A1 for Therapeutic Angiogenesis. <i>Biomacromolecules</i> , 2007, 8, 42-49.	2.6	94
41	Robust IgG responses to nanograms of antigen using a biomimetic lipid-coated particle vaccine. <i>Journal of Controlled Release</i> , 2012, 157, 354-365.	4.8	93
42	Inhibition of neutrophil elastase prevents neutrophil extracellular trap formation and rescues mice from endotoxic shock. <i>Biomaterials</i> , 2020, 238, 119836.	5.7	91
43	Bioengineered stem cell membrane functionalized nanocarriers for therapeutic targeting of severe hindlimb ischemia. <i>Biomaterials</i> , 2018, 185, 360-370.	5.7	81
44	PEGylated tumor cell membrane vesicles as a new vaccine platform for cancer immunotherapy. <i>Biomaterials</i> , 2018, 182, 157-166.	5.7	79
45	Synthetic High-Density Lipoprotein-Mediated Targeted Delivery of Liver X Receptors Agonist Promotes Atherosclerosis Regression. <i>EBioMedicine</i> , 2018, 28, 225-233.	2.7	74
46	Inhibition of 2-hydroxyglutarate elicits metabolic reprogramming and mutant IDH1 glioma immunity in mice. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	70
47	Efficient Lymph Node-Targeted Delivery of Personalized Cancer Vaccines with Reactive Oxygen Species-Inducing Reduced Graphene Oxide Nanosheets. <i>ACS Nano</i> , 2020, 14, 13268-13278.	7.3	69
48	Subcutaneous Nanodisc Vaccination with Neoantigens for Combination Cancer Immunotherapy. <i>Bioconjugate Chemistry</i> , 2018, 29, 771-775.	1.8	68
49	Cationic liposomes promote antigen cross-presentation in dendritic cells by alkalinizing the lysosomal pH and limiting the degradation of antigens. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 1251-1264.	3.3	67
50	Proteolytically Degradable Hydrogels with a Fluorogenic Substrate for Studies of Cellular Proteolytic Activity and Migration. <i>Biotechnology Progress</i> , 2005, 21, 1736-1741.	1.3	66
51	Sugar-Nanocapsules Imprinted with Microbial Molecular Patterns for mRNA Vaccination. <i>Nano Letters</i> , 2020, 20, 1499-1509.	4.5	61
52	A Dual TLR Agonist Adjuvant Enhances the Immunogenicity and Protective Efficacy of the Tuberculosis Vaccine Antigen ID93. <i>PLoS ONE</i> , 2014, 9, e83884.	1.1	60
53	Cancer Immunotherapy via Targeting Cancer Stem Cells Using Vaccine Nanodiscs. <i>Nano Letters</i> , 2020, 20, 7783-7792.	4.5	55
54	Engineering Antiviral Vaccines. <i>ACS Nano</i> , 2020, 14, 12370-12389.	7.3	50

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55	Synthetic High-density Lipoprotein Nanodiscs for Personalized Immunotherapy Against Gliomas. <i>Clinical Cancer Research</i> , 2020, 26, 4369-4380.	3.2	48
56	Signal Transduction in Matrix Contraction and the Migration of Vascular Smooth Muscle Cells in Three-Dimensional Matrix. <i>Journal of Vascular Research</i> , 2003, 40, 378-388.	0.6	47
57	Modularly Programmable Nanoparticle Vaccine Based on Polyethyleneimine for Personalized Cancer Immunotherapy. <i>Advanced Science</i> , 2021, 8, 2002577.	5.6	46
58	Effect of size and pegylation of liposomes and peptide-based synthetic lipoproteins on tumor targeting. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1869-1878.	1.7	45
59	Oral nanomedicine for modulating immunity, intestinal barrier functions, and gut microbiome. <i>Advanced Drug Delivery Reviews</i> , 2021, 179, 114021.	6.6	44
60	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
61	Biodegradable polymers for modern vaccine development. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 12-24.	2.9	43
62	Self-healing encapsulation and controlled release of vaccine antigens from PLGA microparticles delivered by microneedle patches. <i>Bioengineering and Translational Medicine</i> , 2019, 4, 116-128.	3.9	38
63	Dendritic Cell Membrane Vesicles for Activation and Maintenance of Antigen-specific T Cells. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801091.	3.9	36
64	Particulate delivery systems for vaccination against bioterrorism agents and emerging infectious pathogens. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017, 9, e1403.	3.3	34
65	Multilamellar Vaccine Particle Elicits Potent Immune Activation with Protein Antigens and Protects Mice against Ebola Virus Infection. <i>ACS Nano</i> , 2019, 13, 11087-11096.	7.3	33
66	Resident alveolar macrophage-derived vesicular SOCS3 dampens allergic airway inflammation. <i>FASEB Journal</i> , 2020, 34, 4718-4731.	0.2	33
67	Targeting Neuroinflammation in Brain Cancer: Uncovering Mechanisms, Pharmacological Targets, and Neuropharmaceutical Developments. <i>Frontiers in Pharmacology</i> , 2021, 12, 680021.	1.6	33
68	Toward a Single-Dose Vaccination Strategy with Self-Encapsulating PLGA Microspheres. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601418.	3.9	32
69	Lipid-based vaccine nanoparticles for induction of humoral immune responses against HIV-1 and SARS-CoV-2. <i>Journal of Controlled Release</i> , 2021, 330, 529-539.	4.8	31
70	Antimicrobial Microwebs of DNA-Histone Inspired from Neutrophil Extracellular Traps. <i>Advanced Materials</i> , 2019, 31, e1807436.	11.1	30
71	Synthetic high-density lipoprotein nanoparticles: A novel therapeutic strategy for adrenocortical carcinomas. <i>Surgery</i> , 2016, 159, 284-295.	1.0	29
72	Synthetic high-density lipoprotein nanodisks for targeted withalongoide delivery to adrenocortical carcinoma. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 6581-6594.	3.3	29

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73	High-density lipoprotein-mimicking nanodiscs carrying peptide for enhanced therapeutic angiogenesis in diabetic hindlimb ischemia. <i>Biomaterials</i> , 2018, 161, 69-80.	5.7	29
74	Interrogation of Antigen Display on Individual Vaccine Nanoparticles for Achieving Neutralizing Antibody Responses against Hepatitis C Virus. <i>Nano Letters</i> , 2018, 18, 7832-7838.	4.5	27
75	Self-encapsulating Poly(lactic-co-glycolic acid) (PLGA) Microspheres for Intranasal Vaccine Delivery. <i>Molecular Pharmaceutics</i> , 2017, 14, 3228-3237.	2.3	26
76	Synthetic HDL Nanoparticles Delivering Docetaxel and CpG for Chemoimmunotherapy of Colon Adenocarcinoma. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1777.	1.8	26
77	Cryptic ligand on collagen matrix unveiled by MMP13 accelerates bone tissue regeneration via MMP13/Integrin $\alpha 3$ /RUNX2 feedback loop. <i>Acta Biomaterialia</i> , 2021, 125, 219-230.	4.1	26
78	Engineered Ovalbumin Nanoparticles for Cancer Immunotherapy. <i>Advanced Therapeutics</i> , 2020, 3, 2000100.	1.6	25
79	Synthetic high-density lipoproteins delivering liver X receptor agonist prevent atherogenesis by enhancing reverse cholesterol transport. <i>Journal of Controlled Release</i> , 2021, 329, 361-371.	4.8	25
80	Vaccine nanoparticles for protection against HIV infection. <i>Nanomedicine</i> , 2017, 12, 673-682.	1.7	22
81	Improving STING Agonist Delivery for Cancer Immunotherapy Using Biodegradable Mesoporous Silica Nanoparticles. <i>Advanced Therapeutics</i> , 2020, 3, 2000130.	1.6	22
82	Alveolar macrophage secretion of vesicular SOCS3 represents a platform for lung cancer therapeutics. <i>JCI Insight</i> , 2019, 4, .	2.3	21
83	Quantitation and Stability of Protein Conjugation on Liposomes for Controlled Density of Surface Epitopes. <i>Bioconjugate Chemistry</i> , 2018, 29, 1251-1260.	1.8	20
84	Photothermal Therapy Combined with Neoantigen Cancer Vaccination for Effective Immunotherapy against Large Established Tumors and Distant Metastasis. <i>Advanced Therapeutics</i> , 2021, 4, 2100093.	1.6	20
85	Personalized combination nano-immunotherapy for robust induction and tumor infiltration of CD8+ T cells. <i>Biomaterials</i> , 2021, 274, 120844.	5.7	19
86	Vaccine nanoparticles displaying recombinant Ebola virus glycoprotein for induction of potent antibody and polyfunctional T cell responses. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 18, 414-425.	1.7	17
87	Prospects of biological and synthetic pharmacotherapies for glioblastoma. <i>Expert Opinion on Biological Therapy</i> , 2020, 20, 305-317.	1.4	16
88	Vaccine nanodiscs plus poly(IGLC) elicit robust CD8+ T cell responses in mice and non-human primates. <i>Journal of Controlled Release</i> , 2021, 337, 168-178.	4.8	16
89	Adjuvant-Loaded Spiky Gold Nanoparticles for Activation of Innate Immune Cells. <i>Cellular and Molecular Bioengineering</i> , 2017, 10, 341-355.	1.0	15
90	Immunotherapy for gliomas: shedding light on progress in preclinical and clinical development. <i>Expert Opinion on Investigational Drugs</i> , 2020, 29, 659-684.	1.9	15

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91	New Opportunities in Cancer Immunotherapy and Theranostics. <i>Accounts of Chemical Research</i> , 2020, 53, 2763-2764.	7.6	14
92	Whole-animal Imaging and Flow Cytometric Techniques for Analysis of Antigen-specific CD8+ T Cell Responses after Nanoparticle Vaccination. <i>Journal of Visualized Experiments</i> , 2015, , e52771.	0.2	11
93	Bioinspired nucleic acid structures for immune modulation. <i>Biomaterials</i> , 2019, 217, 119287.	5.7	11
94	Self-Antigens Displayed on Liposomal Nanoparticles above a Threshold of Epitope Density Elicit Class-Switched Autoreactive Antibodies Independent of T Cell Help. <i>Journal of Immunology</i> , 2020, 204, 335-347.	0.4	11
95	Robust Anti-Tumor T Cell Response with Efficient Intratumoral Infiltration by Nanodisc Cancer Immunotherapy. <i>Advanced Therapeutics</i> , 2020, 3, 2000094.	1.6	11
96	Discovery and characterization of high-affinity, potent SARS-CoV-2 neutralizing antibodies via single B cell screening. <i>Scientific Reports</i> , 2021, 11, 20738.	1.6	11
97	Mimetic sHDL nanoparticles: A novel drug-delivery strategy to target triple-negative breast cancer. <i>Surgery</i> , 2019, 166, 1168-1175.	1.0	10
98	Genetic Alterations in Gliomas Remodel the Tumor Immune Microenvironment and Impact Immune-Mediated Therapies. <i>Frontiers in Oncology</i> , 2021, 11, 631037.	1.3	10
99	Synthetic high-density lipoprotein nanoconjugate targets neuroblastoma stem cells, blocking migration and self-renewal. <i>Surgery</i> , 2018, 164, 165-172.	1.0	8
100	Extracellular Trap-Mimicking DNA-Histone Mesostructures Synergistically Activate Dendritic Cells. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900926.	3.9	7
101	Three-dimensional microenvironmental priming of human mesenchymal stem cells in hydrogels facilitates efficient and rapid retroviral gene transduction via accelerated cell cycle synchronization. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	6
102	Combinatorial physicochemical stimuli in the three-dimensional environment of a hyaluronic acid hydrogel amplify chondrogenesis by stimulating phosphorylation of the Smad and MAPK signaling pathways. <i>NPG Asia Materials</i> , 2022, 14, .	3.8	6
103	Lipid-Based Nanoparticles for Vaccine Applications. <i>Biosystems and Biorobotics</i> , 2016, , 177-197.	0.2	3
104	Next Generation Immunotherapies – Emerging Strategies for Immune Modulation against Cancer, Infections, and Beyond. <i>Advanced Therapeutics</i> , 2021, 4, 2100157.	1.6	2
105	Guest Editorial Title: Nanomedicine: past, present, and future. <i>Advanced Drug Delivery Reviews</i> , 2018, 130, 1-2.	6.6	1
106	Revealing the Presence of a Symbolic Sequence Representing Multiple Nucleotides Based on K-Means Clustering of Oligonucleotides. <i>Molecules</i> , 2019, 24, 348.	1.7	1
107	DNA nanogel encapsulated by a lipid vesicle. , 2010, , .		0
108	Cover Image, Volume 9, Issue 1. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017, 9, e1458.	3.3	0

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109	2165 Vesicular secretion of suppressor of cytokine signaling 3 by alveolar macrophages is dysregulated in NSCLC patients and its provision inhibits epithelial cell transformation and tumor cell function. <i>Journal of Clinical and Translational Science</i> , 2018, 2, 36-36.	0.3	0
110	NanoDDS 2017: The 15th International Nanomedicine & Drug Delivery Symposium. <i>Journal of Controlled Release</i> , 2018, 282, 1-2.	4.8	0