

# James R Baker, Jr

## List of Publications by Year in descending order

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69  
papers

4,250  
citations

117625

34  
h-index

110387

64  
g-index

70  
all docs

70  
docs citations

70  
times ranked

5563  
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications of nanotechnology for immunology. <i>Nature Reviews Immunology</i> , 2013, 13, 592-605.	22.7	620
2	Design and function of a dendrimer-based therapeutic nanodevice targeted to tumor cells through the folate receptor. <i>Pharmaceutical Research</i> , 2002, 19, 1310-1316.	3.5	583
3	Dendrimer-Functionalized Shell-Crosslinked Iron Oxide Nanoparticles for In Vivo Magnetic Resonance Imaging of Tumors. <i>Advanced Materials</i> , 2008, 20, 1671-1678.	21.0	271
4	Lipid Bilayer Disruption by Polycationic Polymers: The Roles of Size and Chemical Functional Group. <i>Langmuir</i> , 2005, 21, 10348-10354.	3.5	258
5	Tumor angiogenic vasculature targeting with PAMAM dendrimer-RGD conjugates. <i>Chemical Communications</i> , 2005, , 5739.	4.1	183
6	Folate-targeted nanoparticles show efficacy in the treatment of inflammatory arthritis. <i>Arthritis and Rheumatism</i> , 2011, 63, 2671-2680.	6.7	170
7	Synthesis, characterization, and intracellular uptake of carboxyl-terminated poly(amidoamine) dendrimer-stabilized iron oxide nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 5712.	2.8	165
8	Pre-Clinical Evaluation of a Novel Nanoemulsion-Based Hepatitis B Mucosal Vaccine. <i>PLoS ONE</i> , 2008, 3, e2954.	2.5	144
9	Light-controlled release of caged doxorubicin from folate receptor-targeting PAMAM dendrimer nanoconjugate. <i>Chemical Communications</i> , 2010, 46, 2632.	4.1	142
10	Influence of dendrimer surface charge on the bioactivity of 2-methoxyestradiol complexed with dendrimers. <i>Soft Matter</i> , 2010, 6, 2539.	2.7	84
11	Targeting and detecting cancer cells using spontaneously formed multifunctional dendrimer-stabilized gold nanoparticles. <i>Analyst</i> , The, 2009, 134, 1373.	3.5	82
12	HER2 specific delivery of methotrexate by dendrimer conjugated anti-HER2 mAb. <i>Nanotechnology</i> , 2008, 19, 295102.	2.6	79
13	A Novel Inactivated Intranasal Respiratory Syncytial Virus Vaccine Promotes Viral Clearance without Th2 Associated Vaccine-Enhanced Disease. <i>PLoS ONE</i> , 2011, 6, e21823.	2.5	66
14	Modular Integration of Upconverting Nanocrystal-Dendrimer Composites for Folate Receptor-Specific NIR Imaging and Light-Triggered Drug Release. <i>Small</i> , 2015, 11, 6078-6090.	10.0	61
15	Methotrexate delivery via folate targeted dendrimer-based nanotherapeutic platform. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2009, 1, 502-510.	6.1	59
16	Molecular heterogeneity analysis of poly(amidoamine) dendrimer-based mono- and multifunctional nanodevices by capillary electrophoresis. <i>Analyst</i> , The, 2006, 131, 374.	3.5	57
17	Electrophoretic mobility and molecular distribution studies of poly(amidoamine) dendrimers of defined charges. <i>Electrophoresis</i> , 2006, 27, 1758-1767.	2.4	55
18	Analysis of poly(amidoamine)-succinamic acid dendrimers by slab-gel electrophoresis and capillary zone electrophoresis. <i>Electrophoresis</i> , 2005, 26, 2960-2967.	2.4	54

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19	Photochemical release of methotrexate from folate receptor-targeting PAMAM dendrimer nanoconjugate. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 653-660.	2.9	50
20	Induction of Th17 Cellular Immunity With a Novel Nanoemulsion Adjuvant. <i>Critical Reviews in Immunology</i> , 2010, 30, 189-199.	0.5	50
21	Comparison of the internalization of targeted dendrimers and dendrimer-entrapped gold nanoparticles into cancer cells. <i>Biopolymers</i> , 2009, 91, 936-942.	2.4	48
22	Light-controlled active release of photocaged ciprofloxacin for lipopolysaccharide-targeted drug delivery using dendrimer conjugates. <i>Chemical Communications</i> , 2016, 52, 10357-10360.	4.1	48
23	Nanoemulsion mucosal adjuvant uniquely activates cytokine production by nasal ciliated epithelium and induces dendritic cell trafficking. <i>European Journal of Immunology</i> , 2012, 42, 2073-2086.	2.9	47
24	Prevention of Murine Influenza a Virus Pneumonitis by Surfactant Nano-Emulsions. <i>Antiviral Chemistry and Chemotherapy</i> , 2000, 11, 41-49.	0.6	43
25	Capillary electrophoresis of polycationic poly(amidoamine) dendrimers. <i>Electrophoresis</i> , 2005, 26, 2949-2959.	2.4	42
26	Assessing the barriers to image-guided drug delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014, 6, 1-14.	6.1	42
27	4-Hydroxytamoxifen probes for light-dependent spatiotemporal control of Cre-ER mediated reporter gene expression. <i>Molecular BioSystems</i> , 2015, 11, 783-790.	2.9	41
28	HPLC analysis of functionalized poly(amidoamine) dendrimers and the interaction between a folate-dendrimer conjugate and folate binding protein. <i>Analyst, The</i> , 2006, 131, 842.	3.5	40
29	Targeted cancer cell inhibition using multifunctional dendrimer-entrapped gold nanoparticles. <i>MedChemComm</i> , 2013, 4, 1001.	3.4	39
30	Synthesis of a photocaged tamoxifen for light-dependent activation of Cre-ER recombinase-driven gene modification. <i>Chemical Communications</i> , 2013, 49, 4971.	4.1	39
31	Synthesis of glycoconjugated poly(amidoamine) dendrimers for targeting human liver cancer cells. <i>RSC Advances</i> , 2012, 2, 99-102.	3.6	37
32	Photocontrolled Release of Doxorubicin Conjugated through a Thioacetal Photocage in Folate-Targeted Nanodelivery Systems. <i>Bioconjugate Chemistry</i> , 2017, 28, 3016-3028.	3.6	37
33	Isolation and Characterization of Dendrimers with Precise Numbers of Functional Groups. <i>Chemistry - A European Journal</i> , 2010, 16, 10675-10678.	3.3	36
34	The Role of Fas-mediated Apoptosis in Thyroid Autoimmune Disease. <i>Autoimmunity</i> , 1999, 30, 251-264.	2.6	35
35	Formulation, High Throughput In Vitro Screening and In Vivo Functional Characterization of Nanoemulsion-Based Intranasal Vaccine Adjuvants. <i>PLoS ONE</i> , 2015, 10, e0126120.	2.5	35
36	A Thioacetal Photocage Designed for Dual Release: Application in the Quantitation of Therapeutic Release by Synchronous Reporter Decaging. <i>ChemBioChem</i> , 2017, 18, 126-135.	2.6	30

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37	Characterization of FAP-1 Expression and Function in Thyroid Follicular Cells. <i>Endocrinology</i> , 1999, 140, 5431-5434.	2.8	27
38	Intranasal nanoemulsion-based inactivated respiratory syncytial virus vaccines protect against viral challenge in cotton rats. <i>Human Vaccines and Immunotherapeutics</i> , 2015, 11, 2904-2912.	3.3	26
39	A lipopolysaccharide binding heteromultivalent dendrimer nanoplatfom for Gram negative cell targeting. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1149-1156.	5.8	24
40	Acetonitrile shortage: Use of isopropanol as an alternative elution system for ultra/high performance liquid chromatography. <i>Analytical Methods</i> , 2011, 3, 56-58.	2.7	21
41	Targeting B Cells in Graves's Disease. <i>Endocrinology</i> , 2006, 147, 4559-4560.	2.8	20
42	Why I believe nanoparticles are crucial as a carrier for targeted drug delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2013, 5, 423-429.	6.1	20
43	Ligand Characteristics Important to Avidity Interactions of Multivalent Nanoparticles. <i>Bioconjugate Chemistry</i> , 2017, 28, 1649-1657.	3.6	20
44	Targeted allergen-specific immunotherapy within the skin improves allergen delivery to induce desensitization to peanut. <i>Immunotherapy</i> , 2022, 14, 539-552.	2.0	19
45	Accurate point-of-care serology tests for COVID-19. <i>PLoS ONE</i> , 2021, 16, e0248729.	2.5	18
46	Therapeutic Efficacy of 17 $\beta$ -Estradiol Microcrystals Encapsulated within Polyelectrolyte Multilayers. <i>Macromolecular Bioscience</i> , 2009, 9, 429-436.	4.1	17
47	Design and mechanistic investigation of oxime-conjugated PAMAM dendrimers as the catalytic scavenger of reactive organophosphate. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1068.	5.8	17
48	Integrin $\alpha$ V $\beta$ 3 targeted dendrimer- $\epsilon$ -capamycin conjugate reduces fibroblast-mediated prostate tumor progression and metastasis. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 8074-8083.	2.6	17
49	Intranasal nanoemulsion vaccine confers long-lasting immunomodulation and sustained unresponsiveness in a murine model of milk allergy. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 872-881.	5.7	16
50	Optimization of in situ cellular ELISA performed on influenza A virus-infected monolayers for screening of antiviral agents. <i>Journal of Virological Methods</i> , 1999, 77, 165-177.	2.1	14
51	Combined Intranasal Nanoemulsion and RIG-I Activating RNA Adjuvants Enhance Mucosal, Humoral, and Cellular Immunity to Influenza Virus. <i>Molecular Pharmaceutics</i> , 2021, 18, 679-698.	4.6	14
52	Intranasal immunization with W <sub>80</sub> SEC adjuvanted recombinant RSV rF-ptn enhances clearance of respiratory syncytial virus in a mouse model. <i>Human Vaccines and Immunotherapeutics</i> , 2014, 10, 615-622.	3.3	13
53	Spacer-Mediated Control of Coumarin Uncaging for Photocaged Thymidine. <i>Journal of Organic Chemistry</i> , 2020, 85, 2945-2955.	3.2	12
54	Dendrimer Synthesis and Functionalization by Click Chemistry for Biomedical Applications. , 0, , 177-193.		8

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55	Profiling Inflammatory Responses with Microfluidic Immunoblotting. PLoS ONE, 2013, 8, e81889.	2.5	7
56	Bioorthogonal Chemical Handle for Tracking Multifunctional Nanoparticles. ChemPlusChem, 2013, 78, 430-437.	2.8	6
57	Nanoemulsion Adjuvant Augments Retinaldehyde Dehydrogenase Activity in Dendritic Cells via MyD88 Pathway. Frontiers in Immunology, 2019, 10, 916.	4.8	6
58	Zwitterionic Surfactant as a Promising Non-cytotoxic Carrier for Nanoemulsion-Based Vaccine Development. ChemistrySelect, 2019, 4, 9027-9032.	1.5	5
59	Characterization of FAP-1 Expression and Function in Thyroid Follicular Cells. Endocrinology, 1999, 140, 5431-5434.	2.8	5
60	Dendrimer-based posaconazole nanoplatfrom for antifungal therapy. Drug Delivery, 2021, 28, 2150-2159.	5.7	5
61	Oritavancin Retains a High Affinity for a Vancomycin-Resistant Cell-Wall Precursor via Its Bivalent Motifs of Interaction. Biochemistry, 2018, 57, 2723-2732.	2.5	4
62	Treatment of allergic disease with nanoemulsion adjuvant vaccines. Allergy: European Journal of Allergy and Clinical Immunology, 2020, 75, 246-249.	5.7	4
63	Intranasal delivery of allergen in a nanoemulsion adjuvant inhibits allergen-specific reactions in mouse models of allergic airway disease. Clinical and Experimental Allergy, 2021, 51, 1361-1373.	2.9	4
64	Optical fiber-based in vivo quantification of growth factor receptors. Cancer, 2012, 118, 2148-2156.	4.1	3
65	Regio-specific size, shape and surface chemistry designed dendrimers based on differentiated dendroid templates. New Journal of Chemistry, 2013, 37, 690-700.	2.8	3
66	The need to pursue and publish clinical trials in nanomedicine. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2011, 3, 341-342.	6.1	2
67	Poly(amidoamine) Dendrimer-Based Multifunctional Nanoparticles. , 0, , 305-319.		1
68	Diffusion of Alexa Fluor 488-Conjugated Dendrimers in Rat Aortic Tissue. Annals of the New York Academy of Sciences, 2006, 1085, 294-305.	3.8	0
69	Macromol. Biosci. 5/2009. Macromolecular Bioscience, 2009, 9, .	4.1	0