

# 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	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
2	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
3	Accurate point-of-care serology tests for COVID-19. <i>PLoS ONE</i> , 2021, 16, e0248729.	2.5	18
4	Intranasal delivery of allergen in a nanoemulsion adjuvant inhibits allergen-specific reactions in mouse models of allergic airway disease. <i>Clinical and Experimental Allergy</i> , 2021, 51, 1361-1373.	2.9	4
5	Dendrimer-based posaconazole nanopatform for antifungal therapy. <i>Drug Delivery</i> , 2021, 28, 2150-2159.	5.7	5
6	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
7	Treatment of allergic disease with nanoemulsion adjuvant vaccines. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 246-249.	5.7	4
8	Spacer-Mediated Control of Coumarin Uncaging for Photocaged Thymidine. <i>Journal of Organic Chemistry</i> , 2020, 85, 2945-2955.	3.2	12
9	Zwitterionic Surfactant as a Promising Non-Cytotoxic Carrier for Nanoemulsion-Based Vaccine Development. <i>ChemistrySelect</i> , 2019, 4, 9027-9032.	1.5	5
10	Nanoemulsion Adjuvant Augments Retinaldehyde Dehydrogenase Activity in Dendritic Cells via MyD88 Pathway. <i>Frontiers in Immunology</i> , 2019, 10, 916.	4.8	6
11	Oritavancin Retains a High Affinity for a Vancomycin-Resistant Cell-Wall Precursor via Its Bivalent Motifs of Interaction. <i>Biochemistry</i> , 2018, 57, 2723-2732.	2.5	4
12	Integrin alpha V beta 3 targeted dendrimer-papamycin conjugate reduces fibroblast-mediated prostate tumor progression and metastasis. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 8074-8083.	2.6	17
13	Ligand Characteristics Important to Avidity Interactions of Multivalent Nanoparticles. <i>Bioconjugate Chemistry</i> , 2017, 28, 1649-1657.	3.6	20
14	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
15	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
16	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
17	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
18	A lipopolysaccharide binding heteromultivalent dendrimer nanopatform for Gram negative cell targeting. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1149-1156.	5.8	24

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19	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
20	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
21	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
22	Intranasal immunization with W <sub>80</sub> 5EC 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
23	Assessing the barriers to image-guided drug delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014, 6, 1-14.	6.1	42
24	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
25	Applications of nanotechnology for immunology. <i>Nature Reviews Immunology</i> , 2013, 13, 592-605.	22.7	620
26	Regio-specific size, shape and surface chemistry designed dendrimers based on differentiated dendroid templates. <i>New Journal of Chemistry</i> , 2013, 37, 690-700.	2.8	3
27	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
28	Targeted cancer cell inhibition using multifunctional dendrimer-entrapped gold nanoparticles. <i>MedChemComm</i> , 2013, 4, 1001.	3.4	39
29	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
30	Bioorthogonal Chemical Handle for Tracking Multifunctional Nanoparticles. <i>ChemPlusChem</i> , 2013, 78, 430-437.	2.8	6
31	Profiling Inflammatory Responses with Microfluidic Immunoblotting. <i>PLoS ONE</i> , 2013, 8, e81889.	2.5	7
32	Photochemical release of methotrexate from folate receptor-targeting PAMAM dendrimer nanoconjugate. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 653-660.	2.9	50
33	Synthesis of glycoconjugated poly(amidoamine) dendrimers for targeting human liver cancer cells. <i>RSC Advances</i> , 2012, 2, 99-102.	3.6	37
34	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
35	Optical fiber-based in vivo quantification of growth factor receptors. <i>Cancer</i> , 2012, 118, 2148-2156.	4.1	3
36	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

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37	The need to pursue and publish clinical trials in nanomedicine. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2011, 3, 341-342.	6.1	2
38	Folate-targeted nanoparticles show efficacy in the treatment of inflammatory arthritis. Arthritis and Rheumatism, 2011, 63, 2671-2680.	6.7	170
39	A Novel Inactivated Intranasal Respiratory Syncytial Virus Vaccine Promotes Viral Clearance without Th2 Associated Vaccine-Enhanced Disease. PLoS ONE, 2011, 6, e21823.	2.5	66
40	Isolation and Characterization of Dendrimers with Precise Numbers of Functional Groups. Chemistry - A European Journal, 2010, 16, 10675-10678.	3.3	36
41	Light-controlled release of caged doxorubicin from folate receptor-targeting PAMAM dendrimer nanoconjugate. Chemical Communications, 2010, 46, 2632.	4.1	142
42	Influence of dendrimer surface charge on the bioactivity of 2-methoxyestradiol complexed with dendrimers. Soft Matter, 2010, 6, 2539.	2.7	84
43	Induction of Th17 Cellular Immunity With a Novel Nanoemulsion Adjuvant. Critical Reviews in Immunology, 2010, 30, 189-199.	0.5	50
44	Therapeutic Efficacy of 2-Methoxyestradiol Microcrystals Encapsulated within Polyelectrolyte Multilayers. Macromolecular Bioscience, 2009, 9, 429-436.	4.1	17
45	Macromol. Biosci. 5/2009. Macromolecular Bioscience, 2009, 9, .	4.1	0
46	Comparison of the internalization of targeted dendrimers and dendrimer-entrapped gold nanoparticles into cancer cells. Biopolymers, 2009, 91, 936-942.	2.4	48
47	Methotrexate delivery via folate targeted dendrimer-based nanotherapeutic platform. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2009, 1, 502-510.	6.1	59
48	Targeting and detecting cancer cells using spontaneously formed multifunctional dendrimer-stabilized gold nanoparticles. Analyst, The, 2009, 134, 1373.	3.5	82
49	Dendrimer-Functionalized Shell-crosslinked Iron Oxide Nanoparticles for In Vivo Magnetic Resonance Imaging of Tumors. Advanced Materials, 2008, 20, 1671-1678.	21.0	271
50	HER2 specific delivery of methotrexate by dendrimer conjugated anti-HER2 mAb. Nanotechnology, 2008, 19, 295102.	2.6	79
51	Pre-Clinical Evaluation of a Novel Nanoemulsion-Based Hepatitis B Mucosal Vaccine. PLoS ONE, 2008, 3, e2954.	2.5	144
52	Synthesis, characterization, and intracellular uptake of carboxyl-terminated poly(amidoamine) dendrimer-stabilized iron oxide nanoparticles. Physical Chemistry Chemical Physics, 2007, 9, 5712.	2.8	165
53	HPLC analysis of functionalized poly(amidoamine) dendrimers and the interaction between a folate-dendrimer conjugate and folate binding protein. Analyst, The, 2006, 131, 842.	3.5	40
54	Molecular heterogeneity analysis of poly(amidoamine) dendrimer-based mono- and multifunctional nanodevices by capillary electrophoresis. Analyst, The, 2006, 131, 374.	3.5	57

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55	Diffusion of Alexa Fluor 488-Conjugated Dendrimers in Rat Aortic Tissue. <i>Annals of the New York Academy of Sciences</i> , 2006, 1085, 294-305.	3.8	0
56	Electrophoretic mobility and molecular distribution studies of poly(amidoamine) dendrimers of defined charges. <i>Electrophoresis</i> , 2006, 27, 1758-1767.	2.4	55
57	Targeting B Cells in Graves's Disease. <i>Endocrinology</i> , 2006, 147, 4559-4560.	2.8	20
58	Tumor angiogenic vasculature targeting with PAMAM dendrimer-RGD conjugates. <i>Chemical Communications</i> , 2005, , 5739.	4.1	183
59	Capillary electrophoresis of polycationic poly(amidoamine) dendrimers. <i>Electrophoresis</i> , 2005, 26, 2949-2959.	2.4	42
60	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
61	Lipid Bilayer Disruption by Polycationic Polymers: The Roles of Size and Chemical Functional Group. <i>Langmuir</i> , 2005, 21, 10348-10354.	3.5	258
62	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
63	Prevention of Murine Influenza A Virus Pneumonitis by Surfactant Nano-Emulsions. <i>Antiviral Chemistry and Chemotherapy</i> , 2000, 11, 41-49.	0.6	43
64	The Role of Fas-mediated Apoptosis in Thyroid Autoimmune Disease. <i>Autoimmunity</i> , 1999, 30, 251-264.	2.6	35
65	Characterization of FAP-1 Expression and Function in Thyroid Follicular Cells. <i>Endocrinology</i> , 1999, 140, 5431-5434.	2.8	27
66	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
67	Characterization of FAP-1 Expression and Function in Thyroid Follicular Cells. <i>Endocrinology</i> , 1999, 140, 5431-5434.	2.8	5
68	Poly(amidoamine) Dendrimer-Based Multifunctional Nanoparticles. , 0, , 305-319.		1
69	Dendrimer Synthesis and Functionalization by Click Chemistry for Biomedical Applications. , 0, , 177-193.		8