

# Russell J Mumper

## List of Publications by Year in descending order

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100  
papers

12,182  
citations

46984

47  
h-index

36008

97  
g-index

100  
all docs

100  
docs citations

100  
times ranked

16828  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant Phenolics: Extraction, Analysis and Their Antioxidant and Anticancer Properties. <i>Molecules</i> , 2010, 15, 7313-7352.	1.7	2,795
2	The Flipped Classroom. <i>Academic Medicine</i> , 2014, 89, 236-243.	0.8	828
3	Elevated copper and oxidative stress in cancer cells as a target for cancer treatment. <i>Cancer Treatment Reviews</i> , 2009, 35, 32-46.	3.4	801
4	Nanoparticle Surface Charges Alter Bloodâ€‘Brain Barrier Integrity and Permeability. <i>Journal of Drug Targeting</i> , 2004, 12, 635-641.	2.1	626
5	Chitosan and depolymerized chitosan oligomers as condensing carriers for in vivo plasmid delivery. <i>Journal of Controlled Release</i> , 1998, 56, 259-272.	4.8	569
6	Paclitaxel Nano-Delivery Systems: A Comprehensive Review. <i>Journal of Nanomedicine &amp; Nanotechnology</i> , 2013, 04, 1000164.	1.1	380
7	Quantitative Nanostructureâ€™Activity Relationship Modeling. <i>ACS Nano</i> , 2010, 4, 5703-5712.	7.3	342
8	Nanomedicinal strategies to treat multidrug-resistant tumors: current progress. <i>Nanomedicine</i> , 2010, 5, 597-615.	1.7	280
9	Comparison of cell uptake, biodistribution and tumor retention of folate-coated and PEG-coated gadolinium nanoparticles in tumor-bearing mice. <i>Journal of Controlled Release</i> , 2004, 95, 613-626.	4.8	278
10	Paclitaxel nanoparticles for the potential treatment of brain tumors. <i>Journal of Controlled Release</i> , 2004, 99, 259-269.	4.8	268
11	Doxorubicin and Paclitaxel-Loaded Lipid-Based Nanoparticles Overcome Multidrug Resistance by Inhibiting P-Glycoprotein and Depleting ATP. <i>Cancer Research</i> , 2009, 69, 3918-3926.	0.4	257
12	Chitosan-based nanoparticles for topical genetic immunization. <i>Journal of Controlled Release</i> , 2001, 75, 409-419.	4.8	247
13	Brain uptake of thiamine-coated nanoparticles. <i>Journal of Controlled Release</i> , 2003, 93, 271-282.	4.8	225
14	Polyvinyl derivatives as novel interactive polymers for controlled gene delivery to muscle. <i>Pharmaceutical Research</i> , 1996, 13, 701-709.	1.7	200
15	Novel -penicillamine carrying nanoparticles for metal chelation therapy in Alzheimer's and other CNS diseases. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2005, 59, 263-272.	2.0	174
16	In Situ Bloodâ€‘Brain Barrier Transport of Nanoparticles. <i>Pharmaceutical Research</i> , 2003, 20, 1772-1778.	1.7	166
17	A critical review of lipid-based nanoparticles for taxane delivery. <i>Cancer Letters</i> , 2013, 334, 157-175.	3.2	153
18	Development of Idarubicin and Doxorubicin Solid Lipid Nanoparticles to Overcome Pgp-Mediated Multiple Drug Resistance in Leukemia. <i>Journal of Biomedical Nanotechnology</i> , 2009, 5, 151-161.	0.5	148

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19	In-vivo efficacy of novel paclitaxel nanoparticles in paclitaxel-resistant human colorectal tumors. <i>Journal of Controlled Release</i> , 2006, 112, 312-319.	4.8	144
20	Anthracycline nano-delivery systems to overcome multiple drug resistance: A comprehensive review. <i>Nano Today</i> , 2013, 8, 313-331.	6.2	117
21	Characterization of Blackberry Extract and Its Antiproliferative and Anti-Inflammatory Properties. <i>Journal of Medicinal Food</i> , 2007, 10, 258-265.	0.8	111
22	Protective interactive noncondensing (PINC) polymers for enhanced plasmid distribution and expression in rat skeletal muscle. <i>Journal of Controlled Release</i> , 1998, 52, 191-203.	4.8	110
23	Topical Application of a Bioadhesive Black Raspberry Gel Modulates Gene Expression and Reduces Cyclooxygenase 2 Protein in Human Premalignant Oral Lesions. <i>Cancer Research</i> , 2008, 68, 4945-4957.	0.4	109
24	Topical immunization using nanoengineered genetic vaccines. <i>Journal of Controlled Release</i> , 2002, 81, 173-184.	4.8	106
25	Effects of a Topically Applied Bioadhesive Berry Gel on Loss of Heterozygosity Indices in Premalignant Oral Lesions. <i>Clinical Cancer Research</i> , 2008, 14, 2421-2430.	3.2	102
26	Nanoparticles for Local Drug Delivery to the Oral Mucosa: Proof of Principle Studies. <i>Pharmaceutical Research</i> , 2010, 27, 1224-1236.	1.7	91
27	Microparticles and Nanoparticles as Delivery Systems for DNA Vaccines. <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> , 2003, 20, 103-137.	1.2	87
28	Influence of formulation parameters on gadolinium entrapment and tumor cell uptake using folate-coated nanoparticles. <i>International Journal of Pharmaceutics</i> , 2003, 251, 85-97.	2.6	86
29	In vivo and in vitro assessment of baseline blood-brain barrier parameters in the presence of novel nanoparticles. <i>Pharmaceutical Research</i> , 2003, 20, 705-713.	1.7	84
30	Physical Characterization and Macrophage Cell Uptake of Mannan-Coated Nanoparticles. <i>Drug Development and Industrial Pharmacy</i> , 2003, 29, 689-700.	0.9	83
31	Development of new lipid-based paclitaxel nanoparticles using sequential simplex optimization. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 72, 9-17.	2.0	83
32	Engineering Tumor-Targeted Gadolinium Hexanedione Nanoparticles for Potential Application in Neutron Capture Therapy. <i>Bioconjugate Chemistry</i> , 2002, 13, 1328-1335.	1.8	72
33	Ultra-long-acting removable drug delivery system for HIV treatment and prevention. <i>Nature Communications</i> , 2018, 9, 4156.	5.8	70
34	Gadolinium-Loaded Nanoparticles Engineered from Microemulsion Templates. <i>Drug Development and Industrial Pharmacy</i> , 2002, 28, 317-328.	0.9	68
35	Formulation and In-Vitro and In-Vivo Evaluation of a Mucoadhesive Gel Containing Freeze Dried Black Raspberries: Implications for Oral Cancer Chemoprevention. <i>Pharmaceutical Research</i> , 2007, 24, 728-737.	1.7	67
36	Intradermal immunization with novel plasmid DNA-coated nanoparticles via a needle-free injection device. <i>Journal of Biotechnology</i> , 2003, 102, 105-115.	1.9	66

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37	Preparation and Characterization of Nickel Nanoparticles for Binding to His-tag Proteins and Antigens. <i>Pharmaceutical Research</i> , 2007, 24, 343-352.	1.7	63
38	Bilayer films for mucosal (genetic) immunization via the buccal route in rabbits. <i>Pharmaceutical Research</i> , 2002, 19, 947-953.	1.7	62
39	Preparation and characterization of novel coenzyme Q10 nanoparticles engineered from microemulsion precursors. <i>AAPS PharmSciTech</i> , 2003, 4, 24-35.	1.5	62
40	Copper chelation by D-penicillamine generates reactive oxygen species that are cytotoxic to human leukemia and breast cancer cells. <i>Free Radical Biology and Medicine</i> , 2007, 43, 1271-1278.	1.3	62
41	The effect of co-administration of adjuvants with a nanoparticle-based genetic vaccine delivery system on the resulting immune responses. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2003, 55, 11-18.	2.0	60
42	Plasmid DNA-Entrapped Nanoparticles Engineered from Microemulsion Precursors: In Vitro and in Vivo Evaluation. <i>Bioconjugate Chemistry</i> , 2002, 13, 1319-1327.	1.8	59
43	Coating of cationized protein on engineered nanoparticles results in enhanced immune responses. <i>International Journal of Pharmaceutics</i> , 2002, 238, 229-239.	2.6	59
44	Genetic immunization using nanoparticles engineered from microemulsion precursors. <i>Pharmaceutical Research</i> , 2002, 19, 939-946.	1.7	59
45	Plasmid delivery to muscle. <i>Advanced Drug Delivery Reviews</i> , 1998, 30, 151-172.	6.6	56
46	Strong T cell type-1 immune responses to HIV-1 Tat (1-72) protein-coated nanoparticles. <i>Vaccine</i> , 2004, 22, 2631-2640.	1.7	55
47	Systemic Effect of Human Growth Hormone after Intramuscular Injection of a Single Dose of a Muscle-Specific Gene Medicine. <i>Human Gene Therapy</i> , 1998, 9, 659-670.	1.4	54
48	Specific Association of Thiamine-Coated Gadolinium Nanoparticles with Human Breast Cancer Cells Expressing Thiamine Transporters. <i>Bioconjugate Chemistry</i> , 2003, 14, 404-411.	1.8	47
49	D-penicillamine and other low molecular weight thiols: Review of anticancer effects and related mechanisms. <i>Cancer Letters</i> , 2013, 337, 8-21.	3.2	47
50	A Renaissance in Pharmacy Education at the University of North Carolina at Chapel Hill. <i>North Carolina Medical Journal</i> , 2014, 75, 48-52.	0.1	45
51	Antiviral effects of blackberry extract against herpes simplex virus type 1. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2011, 112, e31-e35.	1.6	44
52	Genetic immunization by jet injection of targeted pDNA-coated nanoparticles. <i>Methods</i> , 2003, 31, 255-262.	1.9	43
53	An investigation into copper catalyzed D-penicillamine oxidation and subsequent hydrogen peroxide generation. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 594-602.	1.5	43
54	Synergistic effect of formulated plasmid and needle-free injection for genetic vaccines. <i>Pharmaceutical Research</i> , 1999, 16, 889-895.	1.7	39

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55	Buccal transmucosal delivery of calcitonin in rabbits using thin-film composites. <i>Pharmaceutical Research</i> , 2002, 19, 1901-1906.	1.7	39
56	Distribution of Anthocyanins Delivered from a Bioadhesive Black Raspberry Gel Following Topical Intraoral Application in Normal Healthy Volunteers. <i>Pharmaceutical Research</i> , 2009, 26, 977-986.	1.7	38
57	Anthocyanin-rich Fractions of Blackberry Extracts Reduce UV-induced Free Radicals and Oxidative Damage in Keratinocytes. <i>Phytotherapy Research</i> , 2012, 26, 106-112.	2.8	38
58	Intranasal administration of plasmid DNA-coated nanoparticles results in enhanced immune responses. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 54, 1195-1203.	1.2	36
59	In vitro and in vivo assessment of targeting lipid-based nanoparticles to the epidermal growth factor-receptor (EGFR) using a novel Heptameric ZEGFR domain. <i>Journal of Controlled Release</i> , 2012, 158, 63-71.	4.8	36
60	Transmucosal delivery of testosterone in rabbits using novel bilayer mucoadhesive wax film composite disks. <i>Journal of Pharmaceutical Sciences</i> , 2002, 91, 2016-2025.	1.6	35
61	$\epsilon$ -Behenoyl-paclitaxel conjugate containing lipid nanoparticles for the treatment of metastatic breast cancer. <i>Cancer Letters</i> , 2013, 334, 253-262.	3.2	35
62	Dendritic Cell Delivery of Plasmid DNA: Applications for Controlled Genetic Immunization. <i>Molecular Biotechnology</i> , 2001, 19, 079-096.	1.3	33
63	Nanotemplate Engineering of Cell Specific Nanoparticles. <i>Journal of Dispersion Science and Technology</i> , 2003, 24, 569-588.	1.3	33
64	A Roadmap for Educational Research in Pharmacy. <i>American Journal of Pharmaceutical Education</i> , 2013, 77, 218.	0.7	33
65	Near-infrared spectroscopy for the determination of testosterone in thin-film composites. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 33, 181-189.	1.4	31
66	Poly(L-lactic acid) microspheres containing neutron-activatable holmium-165: a study of the physical characteristics of microspheres before and after irradiation in a nuclear reactor. <i>Pharmaceutical Research</i> , 1992, 09, 149-154.	1.7	28
67	HIV-1 Tat-coated nanoparticles result in enhanced humoral immune responses and neutralizing antibodies compared to alum adjuvant. <i>Vaccine</i> , 2006, 24, 3564-3573.	1.7	28
68	Formulating a Sulfonated Antiviral Dendrimer in a Vaginal Microbicidal Gel Having Dual Mechanisms of Action. <i>Drug Development and Industrial Pharmacy</i> , 2009, 35, 515-524.	0.9	28
69	Effect of Carbon Coating on the Physicochemical Properties and Toxicity of Copper and Nickel Nanoparticles. <i>Small</i> , 2012, 8, 3289-3299.	5.2	28
70	Novel ethanol-in-fluorocarbon microemulsions for topical genetic immunization. <i>Pharmaceutical Research</i> , 2003, 20, 16-23.	1.7	26
71	Polymer-Drug Conjugates for Anticancer Drug Delivery. <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> , 2015, 32, 215-245.	1.2	25
72	Formation and stability of lanthanide complexes and their encapsulation into polymeric microspheres. <i>The Journal of Physical Chemistry</i> , 1992, 96, 8626-8631.	2.9	20

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73	The Interplay of Antigen Affinity, Internalization, and Pharmacokinetics on CD44-Positive Tumor Targeting of Monoclonal Antibodies. <i>Molecular Pharmaceutics</i> , 2016, 13, 1894-1903.	2.3	20
74	Development of a novel orthotopic non-small cell lung cancer model and therapeutic benefit of 2â€²-(2-bromohexadecanoyl)-docetaxel conjugate nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 1497-1506.	1.7	19
75	Development and optimization of oil-filled lipid nanoparticles containing docetaxel conjugates designed to control the drug release rate in vitro and in vivo. <i>International Journal of Nanomedicine</i> , 2011, 6, 2545.	3.3	18
76	Ultrasound Molecular Imaging of Secreted Frizzled Related Protein-2 Expression in Murine Angiosarcoma. <i>PLoS ONE</i> , 2014, 9, e86642.	1.1	18
77	Intracellular Delivery of the Reactive Oxygen Species Generating Agent d-Penicillamine upon Conjugation to Poly-l-glutamic Acid. <i>Molecular Pharmaceutics</i> , 2010, 7, 854-862.	2.3	17
78	Lipid nanocapsule as vaccine carriers for his-tagged proteins: Evaluation of antigen-specific immune responses to HIV I His-Gag p41 and systemic inflammatory responses. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 80, 315-322.	2.0	16
79	Enhanced Intracellular Delivery of the Reactive Oxygen Species (ROS)-Generating Copper Chelator D-Penicillamine via a Novel Gelatinâˆ²D-Penicillamine Conjugate. <i>Bioconjugate Chemistry</i> , 2008, 19, 1382-1388.	1.8	14
80	Polypeptide conjugates of d-penicillamine and idarubicin for anticancer therapy. <i>Journal of Controlled Release</i> , 2012, 158, 215-223.	4.8	14
81	Nonaqueous Gel for the Transdermal Delivery of a DTPA Penta-ethyl Ester Prodrug. <i>AAPS Journal</i> , 2013, 15, 523-532.	2.2	14
82	Orally administered DTPA di-ethyl ester for decorporation of <sup>241</sup> Am in dogs: Assessment of safety and efficacy in an inhalation-contamination model. <i>International Journal of Radiation Biology</i> , 2015, 91, 568-575.	1.0	13
83	The stabilization and release of hirudin from liposomes or lipid-assemblies coated with hydrophobically modified dextran. <i>AAPS PharmSciTech</i> , 2000, 1, 20-29.	1.5	12
84	Oil-Filled Lipid Nanoparticles Containing 2â€²-(2-Bromohexadecanoyl)-Docetaxel for the Treatment of Breast Cancer. <i>Advanced Healthcare Materials</i> , 2013, 2, 1451-1457.	3.9	11
85	Tresyl-based conjugation of protein antigen to lipid nanoparticles increases antigen immunogenicity. <i>International Journal of Pharmaceutics</i> , 2010, 401, 87-92.	2.6	10
86	Retention of Polyphenolic Species in Spray-Dried Blackberry Extract Using Mannitol as a Thermoprotectant. <i>Journal of Medicinal Food</i> , 2014, 17, 1064-1069.	0.8	8
87	Aqueous liquid scintillation counting with fluor-containing nanosuspensions. <i>Applied Radiation and Isotopes</i> , 2004, 60, 887-891.	0.7	7
88	Lipid nanoparticles with accessible nickel as a vaccine delivery system for single and multiple his-tagged HIV antigens. <i>HIV/AIDS - Research and Palliative Care</i> , 2009, 2009, 1.	0.4	7
89	Synthesis and Physicochemical Characterization of a Diethyl Ester Prodrug of DTPA and Its Investigation as an Oral Decorporation Agent in Rats. <i>AAPS Journal</i> , 2016, 18, 972-980.	2.2	7
90	Synthesis and Characterization of Cetuximabâ€²Docetaxel and Panitumumabâ€²Docetaxel Antibodyâ€²Drug Conjugates for EGFR-Overexpressing Cancer Therapy. <i>Molecular Pharmaceutics</i> , 2018, 15, 5089-5102.	2.3	7

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91	Radionuclide Decorporation: Matching the Biokinetics of Actinides by Transdermal Delivery of Pro-chelators. AAPS Journal, 2013, 15, 1180-1188.	2.2	6
92	Transdermal Prodrug Delivery for Radionuclide Decorporation: Nonaqueous Gel Formulation Development and In Vitro and In Vivo Assessment. Drug Development Research, 2013, 74, 322-331.	1.4	6
93	Species-Dependent Chelation of <sup>241</sup> Am by DTPA Di-Ethyl Ester. Health Physics, 2015, 108, 443-450.	0.3	5
94	2&#39;-((2-bromohexadecanoyl)-paclitaxel conjugate nanoparticles for the treatment of non-small cell lung cancer in an orthotopic xenograft mouse model. International Journal of Nanomedicine, 2014, 9, 3601.	3.3	4
95	Cationic Nanoparticles for Delivery of CpG Oligodeoxynucleotide and Ovalbumin: In Vitro and In Vivo Assessment. Journal of Biomedical Nanotechnology, 2007, 3, 97-106.	0.5	3
96	In Reply to Spangler. Academic Medicine, 2014, 89, 1429-1430.	0.8	3
97	The Flipped Classroom: Freeing Up Class Time for Strategic Active Learning. IAMSE Manuals, 2021, , 9-17.	0.1	1
98	Nanoparticle Targeting for Drug Delivery Across the Bloodâ€“Brain Barrier. , 0, , 160-169.		0
99	Design and testing of acoustically-active therapeutic nanocapsule delivery vehicles for ultrasound-targeted chemotherapy. , 2010, , .		0
100	Tumor treatment with microbubble enhanced low-intensity ultrasound and paclitaxel nanocapsules reduces drug dose required for therapeutic effect. , 2011, , .		0