

Bijay Singh

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,710
citations

304701

22
h-index

182417

51
g-index

56
all docs

56
docs citations

56
times ranked

4826
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in 2D and 3D in vitro systems using primary hepatocytes, alternative hepatocyte sources and non-parenchymal liver cells and their use in investigating mechanisms of hepatotoxicity, cell signaling and ADME. Archives of Toxicology, 2013, 87, 1315-1530.	4.2	1,089
2	Digitally Tunable Microfluidic Bioprinting of Multilayered Cannular Tissues. Advanced Materials, 2018, 30, e1706913.	21.0	199
3	Major degradable polycations as carriers for DNA and siRNA. Journal of Controlled Release, 2014, 193, 74-89.	9.9	124
4	Targeted oral delivery of BmpB vaccine using porous PLGA microparticles coated with M cell homing peptide-coupled chitosan. Biomaterials, 2014, 35, 2365-2373.	11.4	118
5	Enhanced BBB permeability of osmotically active poly(mannitol-co-PEI) modified with rabies virus glycoprotein via selective stimulation of caveolar endocytosis for RNAi therapeutics in Alzheimer's disease. Biomaterials, 2015, 38, 61-71.	11.4	106
6	Roadmap for metal nanoparticles in radiation therapy: current status, translational challenges, and future directions. Physics in Medicine and Biology, 2020, 65, 21RM02.	3.0	101
7	Chitosan-based particulate systems for the delivery of mucosal vaccines against infectious diseases. International Journal of Biological Macromolecules, 2018, 110, 54-64.	7.5	65
8	Mucoadhesive Chitosan Derivatives as Novel Drug Carriers. Current Pharmaceutical Design, 2015, 21, 4285-4309.	1.9	58
9	Tuning the Buffering Capacity of Polyethylenimine with Glycerol Molecules for Efficient Gene Delivery: Staying In or Out of the Endosomes. Macromolecular Bioscience, 2015, 15, 622-635.	4.1	54
10	Combinatorial Approach of Antigen Delivery Using M Cell-Homing Peptide and Mucoadhesive Vehicle to Enhance the Efficacy of Oral Vaccine. Molecular Pharmaceutics, 2015, 12, 3816-3828.	4.6	50
11	Nanoparticle-mediated delivery of siRNA for effective lung cancer therapy. Nanomedicine, 2015, 10, 1165-1188.	3.3	48
12	Limitations in doxorubicin production from Streptomyces peucetius. Microbiological Research, 2010, 165, 427-435.	5.3	47
13	Combination therapy with doxorubicin-loaded galactosylated poly(ethyleneglycol)-lithocholic acid to suppress the tumor growth in an orthotopic mouse model of liver cancer. Biomaterials, 2017, 116, 130-144.	11.4	39
14	Harnessing cells to deliver nanoparticle drugs to treat cancer. Biotechnology Advances, 2020, 42, 107339.	11.7	39
15	Attuning hydroxypropyl methylcellulose phthalate to oral delivery vehicle for effective and selective delivery of protein vaccine in ileum. Biomaterials, 2015, 59, 144-159.	11.4	38
16	Suppression of tumor growth in lung cancer xenograft model mice by poly(sorbitol-co-PEI)-mediated delivery of osteopontin siRNA. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 94, 450-462.	4.3	38
17	Oral delivery of probiotic expressing M cell homing peptide conjugated BmpB vaccine encapsulated into alginate/chitosan/alginate microcapsules. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 88, 768-777.	4.3	29
18	A new way of producing pediocin in Pediococcus acidilactici through intracellular stimulation by internalized inulin nanoparticles. Scientific Reports, 2018, 8, 5878.	3.3	28

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19	Oral Immunization of FMDV Vaccine Using pH-Sensitive and Mucoadhesive Thiolated Cellulose Acetate Phthalate Microparticles. <i>Tissue Engineering and Regenerative Medicine</i> , 2018, 15, 1-11.	3.7	28
20	Needle-Free Immunization with Chitosan-Based Systems. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3639.	4.1	28
21	Nasal immunization with mannan-decorated mucoadhesive HPMCP microspheres containing ApxIIA toxin induces protective immunity against challenge infection with <i>Actinobacillus pleuropneumoniae</i> in mice. <i>Journal of Controlled Release</i> , 2016, 233, 114-125.	9.9	26
22	Chemical Modification of Chitosan with pH-Sensitive Molecules and Specific Ligands for Efficient DNA Transfection and siRNA Silencing. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 564-576.	0.9	24
23	Imiquimod-gemcitabine nanoparticles harness immune cells to suppress breast cancer. <i>Biomaterials</i> , 2022, 280, 121302.	11.4	23
24	Systemic administration of RANKL overcomes the bottleneck of oral vaccine delivery through microfold cells in ileum. <i>Biomaterials</i> , 2016, 84, 286-300.	11.4	22
25	Gene therapy for bone tissue engineering. <i>Tissue Engineering and Regenerative Medicine</i> , 2016, 13, 111-125.	3.7	20
26	Local Delivery of CTGF siRNA with Poly(sorbitol-co-PEI) Reduces Scar Contraction in Cutaneous Wound Healing. <i>Tissue Engineering and Regenerative Medicine</i> , 2017, 14, 211-220.	3.7	19
27	Mannan-decorated thiolated Eudragit microspheres for targeting antigen presenting cells via nasal vaccination. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 80, 16-25.	4.0	18
28	Oral Delivery of Probiotics Using pH-Sensitive Tablets. <i>Journal of Microbiology and Biotechnology</i> , 2017, 27, 739-746.	2.1	18
29	Exploration of geosmin synthase from <i>Streptomyces peucetius</i> ATCC 27952 by deletion of doxorubicin biosynthetic gene cluster. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2009, 36, 1257-1265.	3.0	17
30	Exploring Codon Optimization and Response Surface Methodology to Express Biologically Active Transmembrane RANKL in <i>E. coli</i> . <i>PLoS ONE</i> , 2014, 9, e96259.	2.5	17
31	Switching Antibiotics Production On and Off in Actinomycetes by an IclR Family Transcriptional Regulator from <i>Streptomyces peucetius</i> ATCC 27952. <i>Journal of Microbiology and Biotechnology</i> , 2014, 24, 1065-1072.	2.1	15
32	Precursor for biosynthesis of sugar moiety of doxorubicin depends on rhamnose biosynthetic pathway in <i>Streptomyces peucetius</i> ATCC 27952. <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 1565-1574.	3.6	14
33	Effect of Microencapsulation of <i>Lactobacillus plantarum</i> 25 into Alginate/Chitosan/Alginate Microcapsules on Viability and Cytokine Induction. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 5291-5295.	0.9	14
34	Self-Assembled, Adjuvant/Antigen-Based Nanovaccine Mediates Anti-Tumor Immune Response against Melanoma Tumor. <i>Polymers</i> , 2018, 10, 1063.	4.5	14
35	Galactosylated Poly(Ethylene glycol)-Lithocholic Acid Selectively Kills Hepatoma Cells, While Sparing Normal Liver Cells. <i>Macromolecular Bioscience</i> , 2015, 15, 777-787.	4.1	12
36	Efficient gene transfection to liver cells via the cellular regulation of a multifunctional poly(lactitol)-based gene transporter. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2208-2218.	5.8	9

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37	Image-Guided Nanoparticle-Based siRNA Delivery for Cancer Therapy. <i>Current Pharmaceutical Design</i> , 2015, 21, 4637-4656.	1.9	9
38	Heterologous production of spectinomycin in <i>Streptomyces venezuelae</i> by exploiting the dTDP-d-desosamine pathway. <i>Journal of Biotechnology</i> , 2014, 174, 57-63.	3.8	8
39	Targeted Gene Delivery via N-Acetylglucosamine Receptor Mediated Endocytosis. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 8356-8364.	0.9	8
40	Release and Cytokine Production of BmpB from BmpB-Loaded pH-Sensitive and Mucoadhesive Thiolated Eudragit Microspheres. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 606-610.	0.9	8
41	Trigger factor assisted soluble expression of recombinant spike protein of porcine epidemic diarrhea virus in <i>Escherichia coli</i> . <i>BMC Biotechnology</i> , 2016, 16, 39.	3.3	8
42	Nanoparticle Formulations of Poly (ADP-ribose) Polymerase Inhibitors for Cancer Therapy. <i>Frontiers in Chemistry</i> , 2020, 8, 594619.	3.6	8
43	Mucosal Delivery of Vaccine by M Cell Targeting Strategies. <i>Current Drug Therapy</i> , 2014, 9, 9-20.	0.3	6
44	Suppression of Tobacco Carcinogen-Induced Lung Tumorigenesis by Aerosol-Delivered Glycerol Propoxylate Triacrylate-Spermine Copolymer/Short Hairpin Rab25 RNA Complexes in Female A/J Mice. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2017, 30, 81-90.	1.4	6
45	N-acetylglucosamine-conjugated block copolymer consisting of poly(ethylene oxide) and cationic polyaspartamide as a gene carrier for targeting vimentin-expressing cells. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 51, 165-172.	4.0	3
46	Liver tissue engineering using functional marine biomaterials. , 2015, , 91-106.		3
47	Drug-conjugated polymers as gene carriers for synergistic therapeutic effect. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 698-711.	3.4	3
48	Biomimetic nanovaccines for COVID-19. <i>Applied Science and Technology Annals</i> , 2020, 1, 176-182.	0.7	3
49	The amino acid sequences in the C-terminal region of glucose-1-phosphate thymidyltransferases determine their soluble expression in <i>Escherichia coli</i> . <i>Protein Engineering, Design and Selection</i> , 2012, 25, 179-187.	2.1	2
50	Exploration of two epimerase homologs in <i>Streptomyces peucetius</i> ATCC 27952. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 2493-2502.	3.6	2
51	Microfluidic Bioprinting: Digitally Tunable Microfluidic Bioprinting of Multilayered Cannular Tissues (Adv. Mater. 43(2018)). <i>Advanced Materials</i> , 2018, 30, 1870322.	21.0	2
52	Marine Materials: Gene Delivery. , 2015, , 1217-1227.		0
53	Correction: Efficient gene transfection to liver cells via the cellular regulation of a multifunctional poly(lactitol)-based gene transporter. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2740-2740.	5.8	0
54	Abstract 3631: Development of targeted nanoformulation of talazoparib for combined chemoradiation therapy in lung cancer. , 2019, , .		0