

Pradeep Kumar

List of Publications by Year in descending order

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95
papers

2,165
citations

201674

27
h-index

254184

43
g-index

102
all docs

102
docs citations

102
times ranked

3499
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale Self-Assembly for Therapeutic Delivery. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 127.	4.1	170
2	Recent advances in nanoparticle-mediated drug delivery. <i>Journal of Drug Delivery Science and Technology</i> , 2017, 41, 260-268.	3.0	127
3	Influence of acyl chain length on transfection mediated by acylated PEI nanoparticles. <i>International Journal of Pharmaceutics</i> , 2007, 337, 265-274.	5.2	85
4	Tissue Engineering; Current Status & Futuristic Scope. <i>Journal of Medicine and Life</i> , 2019, 12, 225-229.	1.3	74
5	Gellan gum blended PEI nanocomposites as gene delivery agents: Evidences from in vitro and in vivo studies. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 79, 3-14.	4.3	70
6	Recent Advances in a Polydopamine-Mediated Antimicrobial Adhesion System. <i>Frontiers in Microbiology</i> , 2020, 11, 607099.	3.5	70
7	Non-amyloidogenic peptide tags for the regulatable self-assembling of protein-only nanoparticles. <i>Biomaterials</i> , 2012, 33, 8714-8722.	11.4	65
8	Linear polyethylenimine-graft-chitosan copolymers as efficient DNA/siRNA delivery vectors in vitro and in vivo. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 337-345.	3.3	62
9	Nanotized Curcumin and Miltefosine, a Potential Combination for Treatment of Experimental Visceral Leishmaniasis. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	62
10	Cationic Polymers and their Self-Assembly for Antibacterial Applications. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 1179-1195.	2.1	61
11	PLGA-encapsulated tea polyphenols enhance the chemotherapeutic efficacy of cisplatin against human cancer cells and mice bearing Ehrlich ascites carcinoma. <i>International Journal of Nanomedicine</i> , 2015, 10, 6789.	6.7	56
12	Functionalized graphene oxide mediated nucleic acid delivery. <i>Carbon</i> , 2013, 51, 224-235.	10.3	55
13	Ultrashort Peptide Self-Assembly: Front-Runners to Transport Drug and Gene Cargos. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 504.	4.1	50
14	Biological activities of histidine-rich peptides; merging biotechnology and nanomedicine. <i>Microbial Cell Factories</i> , 2011, 10, 101.	4.0	47
15	The activity against Ehrlich's ascites tumors of doxorubicin contained in self assembled, cell receptor targeted nanoparticle with simultaneous oral delivery of the green tea polyphenol epigallocatechin-3-gallate. <i>Biomaterials</i> , 2013, 34, 3064-3076.	11.4	42
16	Multifunctional biosynthesized silver nanoparticles exhibiting excellent antimicrobial potential against multi-drug resistant microbes along with remarkable anticancerous properties. <i>Materials Science and Engineering C</i> , 2017, 80, 659-669.	7.3	41
17	Synthesis and antimicrobial activity of aminoglycoside-conjugated silica nanoparticles against clinical and resistant bacteria. <i>New Journal of Chemistry</i> , 2015, 39, 6746-6755.	2.8	40
18	Curcumin loaded selenium nanoparticles synergize the anticancer potential of doxorubicin contained in self-assembled, cell receptor targeted nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 130, 185-199.	4.3	39

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19	Biological contaminants in the indoor air environment and their impacts on human health. <i>Air Quality, Atmosphere and Health</i> , 2021, 14, 1723-1736.	3.3	39
20	Enzyme sensitive smart inulin-dehydropeptide conjugate self-assembles into nanostructures useful for targeted delivery of ornidazole. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 775-783.	7.5	36
21	Depolymerized chitosans functionalized with bPEI as carriers of nucleic acids and tuftsin-tethered conjugate for macrophage targeting. <i>Biomaterials</i> , 2012, 33, 4204-4219.	11.4	33
22	Selective blocking of primary amines in branched polyethylenimine with biocompatible ligand alleviates cytotoxicity and augments gene delivery efficacy in mammalian cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 115, 79-85.	5.0	32
23	Mussel-inspired polydopamine-polyethylenimine conjugated nanoparticles as efficient gene delivery vectors for mammalian cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 161, 403-412.	5.0	32
24	Biodegradable Poly(vinyl alcohol)-polyethylenimine Nanocomposites for Enhanced Gene Expression In Vitro and In Vivo. <i>Biomacromolecules</i> , 2012, 13, 73-83.	5.4	31
25	Amphiphilic polyethylenimine polymers mediate efficient delivery of DNA and siRNA in mammalian cells. <i>Molecular BioSystems</i> , 2013, 9, 780.	2.9	28
26	Polyethylenimine-polyacrylic acid nanocomposites: Type of bonding does influence the gene transfer efficacy and cytotoxicity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 140, 117-120.	5.0	28
27	Tetramethylguanidinium-polyallylamine (Tmg-PA): A new class of nonviral vector for efficient gene transfection. <i>Journal of Polymer Science Part A</i> , 2012, 50, 2344-2355.	2.3	27
28	Hydrophobic and membrane permeable polyethylenimine nanoparticles efficiently deliver nucleic acids in vitro and in vivo. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2515.	5.8	27
29	Accelerated and scarless wound repair by a multicomponent hydrogel through simultaneous activation of multiple pathways. <i>Drug Delivery and Translational Research</i> , 2019, 9, 1143-1158.	5.8	27
30	Photoresponsive amphiphilic azobenzene-PEG self-assembles to form supramolecular nanostructures for drug delivery applications. <i>RSC Advances</i> , 2016, 6, 8103-8117.	3.6	22
31	Hyaluronic acid-grafted PLGA nanoparticles for the sustained delivery of berberine chloride for an efficient suppression of Ehrlich ascites tumors. <i>Drug Delivery and Translational Research</i> , 2018, 8, 565-579.	5.8	22
32	Fenton oxidation of pesticide methyl parathion in aqueous solution: kinetic study of the degradation. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 420-427.	2.3	21
33	Enhanced solubility and self-assembly of amphiphilic sulfasalazine-PEG-OMe (S-PEG) conjugate into core-shell nanostructures useful for colonic drug delivery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 547, 157-167.	4.7	20
34	1,4-Butanediol diglycidyl ether (BDE)-crosslinked PEI-g-imidazole nanoparticles as nucleic acid-carriers in vitro and in vivo. <i>Molecular BioSystems</i> , 2011, 7, 2055.	2.9	19
35	Efficient DNA and siRNA delivery with biodegradable cationic hyaluronic acid conjugates. <i>RSC Advances</i> , 2013, 3, 15687.	3.6	19
36	Polydopamine-aminoglycoside nanoconjugates: Synthesis, characterization, antimicrobial evaluation and cytocompatibility. <i>Materials Science and Engineering C</i> , 2020, 107, 110284.	7.3	17

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37	Enhanced Antimicrobial Activity of Amine-Phosphonium (N-P) Hybrid Polymers Against Gram-Negative and Gram-Positive Bacteria. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015, 64, 84-89.	3.4	15
38	Biodegradable and versatile polyethylenimine derivatives efficiently transfer DNA and siRNA into mammalian cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 661-668.	5.0	14
39	Fabrication of cationic nanostructures from short self-assembling amphiphilic mixed α/β -pentapeptide: Potential candidates for drug delivery, gene delivery, and antimicrobial applications. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 880-893.	7.5	14
40	Seasonal variation and size distribution in the airborne indoor microbial concentration of residential houses in Delhi and its impact on health. <i>Aerobiologia</i> , 2021, 37, 719-732.	1.7	14
41	Comprehensive health risk assessment of microbial indoor air quality in microenvironments. <i>PLoS ONE</i> , 2022, 17, e0264226.	2.5	14
42	Synthesis and evaluation of N-(2,3-dihydroxypropyl)-PEIs as efficient vectors for nucleic acids. <i>Molecular BioSystems</i> , 2012, 8, 1426.	2.9	13
43	Self-assembled amphiphilic phosphopyridoxyl-polyethylenimine polymers exhibit high cell viability and gene transfection efficiency in vitro and in vivo. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4020.	5.8	13
44	Advances in Gene Delivery Systems. <i>BioMed Research International</i> , 2015, 2015, 1-2.	1.9	13
45	Evaluation of antimicrobial efficacy of quaternized poly[bis(2-chloroethyl)ether-alt-1,3-bis[3-(dimethylamino)propyl]urea] against targeted pathogenic and multi-drug-resistant bacteria. <i>Journal of Bioactive and Compatible Polymers</i> , 2016, 31, 467-480.	2.1	12
46	Multi-Stimuli Responsive Self-Assembled Nanostructures Useful for Colon Drug Delivery. <i>IEEE Transactions on Nanobioscience</i> , 2017, 16, 764-772.	3.3	12
47	Biogenic Silver Nanoparticles: Evaluation of Their Biological and Catalytic Potential. <i>Indian Journal of Microbiology</i> , 2020, 60, 468-474.	2.7	12
48	Synthesis and Characterization of Nanoselenium: A Step-by-Step Guide for Undergraduate Students. <i>Journal of Chemical Education</i> , 2021, 98, 2982-2989.	2.3	12
49	Synthesis, characterization and evaluation of diglycidyl-1,2-cyclohexanedicarboxylate crosslinked polyethylenimine nanoparticles as efficient carriers of DNA. <i>New Journal of Chemistry</i> , 2016, 40, 5044-5052.	2.8	11
50	Supramolecular self-assemblies of engineered polyethylenimines as multifunctional nanostructures for DNA transportation with excellent antimicrobial activity. <i>Bioorganic Chemistry</i> , 2021, 106, 104463.	4.1	11
51	Bioreducible polyethylenimine nanoparticles for the efficient delivery of nucleic acids. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 3128-3135.	2.8	10
52	Pro-inflammatory macrophage polarization enhances the anti-cancer efficacy of self-assembled galactomannan nanoparticles entrapped with hydrazinocurcumin. <i>Drug Delivery and Translational Research</i> , 2019, 9, 1159-1188.	5.8	10
53	Trichoscopy as a diagnostic tool for tinea capitis: A prospective, observational study. <i>International Journal of Trichology</i> , 2020, 12, 68.	0.5	10
54	Synthesis and Hybridization Properties of Sugar-Modified Oligonucleotides. <i>Helvetica Chimica Acta</i> , 2001, 84, 3643-3649.	1.6	9

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55	Synthesis, characterization and evaluation of retinoic acid-polyethylene glycol nanoassembly as efficient drug delivery system. <i>Nano Structures Nano Objects</i> , 2018, 14, 110-117.	3.5	9
56	An injectable self-assembling hydrogel based on RGD peptidomimetic β -sheets as multifunctional biomaterials. <i>Materials Science and Engineering C</i> , 2022, 133, 112633.	7.3	9
57	Synthesis and Evaluation of Tetramethylguanidinium-Polyethylenimine Polymers as Efficient Gene Delivery Vectors. <i>BioMed Research International</i> , 2014, 2014, 1-11.	1.9	8
58	In Vitro Assessment of Core-Shell Micellar Nanostructures of Amphiphilic Cationic Polymer-Peptide Conjugates as Efficient Gene and Drug Carriers. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 2847-2853.	3.3	8
59	Universal Reusable Polymer Support for Oligonucleotide Synthesis. <i>Journal of Organic Chemistry</i> , 2004, 69, 6482-6485.	3.2	7
60	Oligoamine-tethered low generation polyamidoamine dendrimers as potential nucleic acid carriers. <i>Biomaterials Science</i> , 2014, 2, 1275-1286.	5.4	7
61	Hexadecylated linear PEI self-assembled nanostructures as efficient vectors for neuronal gene delivery. <i>Drug Delivery and Translational Research</i> , 2018, 8, 1436-1449.	5.8	7
62	Antimicrobial, radical scavenging, and dye degradation potential of nontoxic biogenic silver nanoparticles using <i>Cassia fistula</i> pods. <i>Chemical Papers</i> , 2021, 75, 979-991.	2.2	7
63	Trichoscopy as a monitoring tool in assessing treatment response in 98 children with tinea capitis: A prospective clinical study. <i>Dermatologic Therapy</i> , 2021, 34, e15010.	1.7	7
64	Rapid Cleavage of Oligodeoxyribonucleotides from cis-Diol-Bearing Universal Polymer Support. <i>Helvetica Chimica Acta</i> , 2003, 86, 59-64.	1.6	6
65	Synthesis and characterization of N-ethyl-N-(3-dimethylaminopropyl)-guanidiny-polyethylenimine polymers and investigation of their capability to deliver DNA and siRNA in mammalian cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 109, 197-203.	5.0	6
66	Polyethyleneglycol crosslinked N-(2-hydroxyethyl)-polyethylenimine nanoparticles as efficient non-viral vectors for DNA and siRNA delivery in vitro and in vivo. <i>Molecular BioSystems</i> , 2013, 9, 2322.	2.9	6
67	Engineered polymeric amphiphiles self-assembling into nanostructures and acting as efficient gene and drug carriers. <i>Journal of Biomaterials Applications</i> , 2017, 32, 40-53.	2.4	5
68	Enhanced antimicrobial activity of amphiphilic cationic polymers against a broad range of bacterial strains and skin microbes. <i>Colloid and Polymer Science</i> , 2017, 295, 1177-1185.	2.1	5
69	Chemoenzymatic Synthesis, Nanotization, and Anti-Aspergillus Activity of Optically Enriched Fluconazole Analogues. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	4
70	Self-Assembled Biodegradable Core-Shell Nanocomposites of Amphiphilic Retinoic Acid-LMW bPEI Conjugates Exhibit Enhanced Transgene Expression in Hepatocellular Carcinoma Cells With Inherent Anticancer Properties. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 3047-3060.	3.3	4
71	Role of trichoscopy in the management of tinea capitis in two infants: A case report. <i>Journal of Cutaneous and Aesthetic Surgery</i> , 2021, 14, 443.	0.3	4
72	High-Loading Supports for Oligonucleotide Synthesis. <i>Helvetica Chimica Acta</i> , 2000, 83, 322-327.	1.6	3

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73	Core/shell nanoassembly of amphiphilic naproxen-polyethylene glycol: synthesis, characterisation and evaluation as drug delivery system. IET Nanobiotechnology, 2018, 12, 814-821.	3.8	3
74	Chol-Dex nanomicelles: Synthesis, characterization and evaluation as efficient drug carriers for colon targeting. Carbohydrate Research, 2021, 500, 108255.	2.3	3
75	Self-assembled micellar nanostructures of ursolic acid-polyethylene glycol (UA-PEG) conjugate as efficient drug transporter system. Nano Structures Nano Objects, 2021, 26, 100688.	3.5	3
76	Disaccharide-polyethylenimine organic nanoparticles as non-toxic in vitro gene transporters and their anticancer potential. Bioorganic Chemistry, 2021, 112, 104918.	4.1	3
77	Synthesis of labeled oligonucleotides through a new chemically cleavable linker. Tetrahedron Letters, 2005, 46, 6149-6153.	1.4	2
78	Evaluation of antimicrobial activity and cytotoxicity of pegylated aminoglycosides. Journal of Bioactive and Compatible Polymers, 2018, 33, 295-309.	2.1	2
79	Anisamido-Polyethylenimines as Efficient Nonviral Vectors for the Transport of Plasmid DNA to Sigma Receptor-bearing Cells In Vitro. Journal of Pharmaceutical Sciences, 2019, 108, 1552-1558.	3.3	2
80	Synthesis and evaluation of Poly(N-isopropylacrylamide)-based stimuli-responsive biodegradable carrier with enhanced loading capacity and controlled release properties. Tetrahedron, 2021, 80, 131887.	1.9	2
81	Amphipathic methoxypolyethylene glycol-curcumin conjugate as effective drug delivery system useful for colonic diseases. Colloid and Polymer Science, 2021, 299, 1757-1766.	2.1	2
82	Synthesis and Biophysical Studies on Fluorescently Labeled Oligodeoxyribonucleotides. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 521-531.	1.1	1
83	Facile and Rapid Deprotection Conditions for the Cleavage of Synthetic Oligonucleotides from 1,4-Anhydroerythritol-Based Universal Polymer Support. Nucleosides, Nucleotides and Nucleic Acids, 2015, 34, 149-162.	1.1	1
84	Synthesis of carbon nanoparticles from mustard oil and evaluation of their antibacterial activity against dental caries. Micro and Nano Letters, 2017, 12, 799-802.	1.3	1
85	Nanoparticles for DNA delivery. , 2017, , 59-81.		1
86	Enhanced uptake of plasmid at boronic acid decorated linear polyethylenimines results in higher transfection efficiency. Biointerphases, 2018, 13, 061003.	1.6	1
87	Bifunctionally engineered polyethylenimines as efficient DNA carriers and antibacterials against resistant pathogens. Journal of Biomaterials Applications, 2018, 33, 363-379.	2.4	1
88	Tight Binding of Plasmid DNA With Self-Assembled Tetramethylguanidinium Conjugated Polyethylenimine Suppresses Transfection Efficiency. Frontiers in Nanotechnology, 2021, 3, .	4.8	1
89	The Role of Nanotechnology in Antiviral Regime: An Overview. Nano LIFE, 0, , 2130011.	0.9	1
90	Therapeutic Applications of Self-assembled Indole-3-butanoyl-polyethylenimine Nanostructures. Indian Journal of Microbiology, 0, , 1.	2.7	1

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91	Harnessing the gene delivery, anti-cancer and antimicrobial potential of polyethylene biguanides and their nanotized forms. Journal of Polymer Research, 2022, 29, .	2.4	1
92	Becker's Nevus Coexisting with Morphea: A Rare Case Report. Skin Appendage Disorders, 2021, 7, 46-49.	1.0	0
93	Nanoparticles as Therapeutic Nanocargos Affecting Epigenome of Microbial Biofilms. , 2021, , 461-481.		0
94	Novel coronavirus (severe acute respiratory syndrome coronavirus 2) as threat to general and reproductive health: Challenges and research needs. , 0, 2, 19-25.		0
95	Do We Care? India's Health System. Indian Journal of Community Medicine, 2017, 42, 186.	0.4	0