Umesh Gupta

List of Publications by Year
in descending order

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86 papers	5,636 citations	101496 36 h-index	76872 74 g-index
88 all docs	88 docs citations	88 times ranked	6773 citing authors

#	Article	IF	Citations
1	Theranostic Applications of Nanomaterials in the Field of Cardiovascular Diseases. Current Pharmaceutical Design, 2022, 28, 91-103.	0.9	3
2	Nose-to-brain drug delivery for the treatment of Alzheimerâ€™s disease: current advancements and challenges. Expert Opinion on Drug Delivery, 2022, 19, 87-102.	2.4	13
3	Sialic Acid Conjugated Chitosan Nanoparticles: Modulation to Target Tumour Cells and Therapeutic Opportunities. AAPS PharmSciTech, 2022, 23, 10.	1.5	8
4	Surface Engineered Dendrimers: A Potential Nanocarrier for the Effective Management of Glioblastoma Multiforme. Current Drug Metabolism, 2022, 23, .	0.7	2
5	Diagnostic and therapeutic applications of smart nanocomposite dendrimers. Frontiers in Bioscience - Landmark, 2021, 26, 518-536.	3.0	6
6	Extra-Pulmonary TB. Advances in Medical Diagnosis, Treatment, and Care, 2021, , 91-116.	0.1	0
7	Role of targeted immunotherapy for pancreatic ductal adenocarcinoma (PDAC) treatment: An overview. International Immunopharmacology, 2021, 95, 107508.	1.7	19
8	Biodegradable nanoparticulate co-delivery of flavonoid and doxorubicin: Mechanistic exploration and evaluation of anticancer effect in vitro and in vivo. Biomaterials and Biosystems, 2021, 3, 100022.	1.0	7
9	Synthesis, Morphology, and Rheological Evaluation of HPMA (N-2-Hydroxypropyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	1.6	7
10	Development and optimization of paclitaxel loaded Eudragit/PLGA nanoparticles by simplex lattice mixture design: Exploration of improved hemocompatibility and in vivo kinetics. Biomedicine and Pharmacotherapy, 2021, 144, 112286.	2.5	14
11	Vitamin E TPGS based palatable, oxidatively and physically stable emulsion of microalgae DHA oil for infants, children and food fortification. Journal of Dispersion Science and Technology, 2020, 41, 1674-1689.	1.3	11
12	Toxicity and biocompatibility aspects of dendrimers. , 2020, , 251-274.		13
13	Stimuli-responsive In situ gelling system for nose-to-brain drug delivery. Journal of Controlled Release, 2020, 327, 235-265.	4.8	137
14	Lipid-dendrimer nanohybrid system or dendrosomes: evidences of enhanced encapsulation, solubilization, cellular uptake and cytotoxicity of bortezomib. Applied Nanoscience (Switzerland), 2020, 10, 4049-4062.	1.6	7
15	Doxorubicin and Crocin Co-delivery by Polymeric Nanoparticles for Enhanced Anticancer Potential In Vitro and In Vivo. ACS Applied Bio Materials, 2020, 3, 7789-7799.	2.3	17
16	PEGylated Dendrimer Mediated Delivery of Bortezomib: Drug Conjugation versus Encapsulation. International Journal of Pharmaceutics, 2020, 584, 119389.	2.6	20
17	Biotinylated HPMA centered polymeric nanoparticles for Bortezomib delivery. International Journal of Pharmaceutics, 2020, 579, 119173.	2.6	17
18	HPMA-based polymeric conjugates in anticancer therapeutics. Drug Discovery Today, 2020, 25, 997-1012.	3.2	16

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19	Nano-Co-Delivery of Berberine and Anticancer Drug Using PLGA Nanoparticles: Exploration of Better Anticancer Activity and In Vivo Kinetics. Pharmaceutical Research, 2019, 36, 149.	1.7	49
20	Behavioral and Biochemical Implications of Dendrimeric Rivastigmine in Memory-Deficit and Alzheimerâ€™s Induced Rodents. ACS Chemical Neuroscience, 2019, 10, 3789-3795.	1.7	16
21	Lactoferrin Coupled Lower Generation PAMAM Dendrimers for Brain Targeted Delivery of Memantine in Aluminum-Chloride-Induced Alzheimerâ€™s Disease in Mice. Bioconjugate Chemistry, 2019, 30, 2573-2583.	1.8	63
22	Glycine-Poly-L-Lactic Acid Copolymeric Nanoparticles for the Efficient Delivery of Bortezomib. Pharmaceutical Research, 2019, 36, 160.	1.7	9
23	Self-Emulsifying Oral Lipid Drug Delivery Systems: Advances and Challenges. AAPS PharmSciTech, 2019, 20, 129.	1.5	81
24	Polymeric Micelles. Polymers and Polymeric Composites, 2019, , 73-101.	0.6	0
25	Dendrimer Donepezil Conjugates for Improved Brain Delivery and Better in Vivo Pharmacokinetics. ACS Omega, 2019, 4, 4519-4529.	1.6	26
26	Heparin appended ADH-anionic polysaccharide nanoparticles for site-specific delivery of usnic acid. International Journal of Pharmaceutics, 2019, 557, 238-253.	2.6	17
27	HPMA-PLGA Based Nanoparticles for Effective In Vitro Delivery of Rifampicin. Pharmaceutical Research, 2019, 36, 19.	1.7	20
28	3D Printing Technology: A New Milestone in the Development of Pharmaceuticals. Current Pharmaceutical Design, 2019, 25, 937-945.	0.9	24
29	Recent Biomedical Applications on Stem Cell Therapy: A Brief Overview. Current Stem Cell Research and Therapy, 2019, 14, 127-136.	0.6	9
30	Chitosan Engineered PAMAM Dendrimers as Nanoconstructs for the Enhanced Anti-Cancer Potential and Improved In vivo Brain Pharmacokinetics of Temozolomide. Pharmaceutical Research, 2018, 35, 9.	1.7	64
31	Dendrimer nanohybrid carrier systems: an expanding horizon for targeted drug and gene delivery. Drug Discovery Today, 2018, 23, 300-314.	3.2	100
32	Bendamustineâ€“PAMAM Conjugates for Improved Apoptosis, Efficacy, and in Vivo Pharmacokinetics: A Sustainable Delivery Tactic. Molecular Pharmaceutics, 2018, 15, 2084-2097.	2.3	20
33	Polymeric Micelles. Polymers and Polymeric Composites, 2018, , 1-29.	0.6	1
34	Smartly Engineered PEGylated Di-Block Nanopolymeric Micelles: Duo Delivery of Isoniazid and Rifampicin Against Mycobacterium tuberculosis. AAPS PharmSciTech, 2018, 19, 3237-3248.	1.5	27
35	Radiolabeled PLGA Nanoparticles for Effective Targeting of Bendamustine in Tumor Bearing Mice. Pharmaceutical Research, 2018, 35, 200.	1.7	4
36	Dendrimers as Effective Carriers for the Treatment of Brain Tumor. , 2018, , 267-305.		11

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37	Micelle-Based Drug Delivery for Brain Tumors. , 2018, , 307-326.		5
38	MCM-41 Nanoparticles for Brain Delivery: Better Choline-Esterase and Amyloid Formation Inhibition with Improved Kinetics. ACS Biomaterials Science and Engineering, 2018, 4, 2860-2869.	2.6	18
39	Recent advancements in the field of nanotechnology for the delivery of anti-Alzheimer drug in the brain region. Expert Opinion on Drug Delivery, 2018, 15, 589-617.	2.4	74
40	Boosted Memory and Improved Brain Bioavailability of Rivastigmine: Targeting Effort to the Brain Using Covalently Tethered Lower Generation PAMAM Dendrimers with Lactoferrin. Molecular Pharmaceutics, 2018, 15, 4538-4549.	2.3	36
41	Polymeric Nanocarriers: A New Horizon for the Effective Management of Breast Cancer. Current Pharmaceutical Design, 2018, 23, 5315-5326.	0.9	12
42	Intranasal Drug Delivery: A Non-Invasive Approach for the Better Delivery of Neurotherapeutics. Pharmaceutical Nanotechnology, 2018, 5, 203-214.	0.6	40
43	Enhanced apoptotic and anticancer potential of paclitaxel loaded biodegradable nanoparticles based on chitosan. International Journal of Biological Macromolecules, 2017, 98, 810-819.	3.6	67
44	Polypropyleneimine and polyamidoamine dendrimer mediated enhanced solubilization of bortezomib: Comparison and evaluation of mechanistic aspects by thermodynamics and molecular simulations. Materials Science and Engineering C, 2017, 72, 611-619.	3.8	9
45	Dendrimer encapsulated and conjugated delivery of berberine: A novel approach mitigating toxicity and improving in vivo pharmacokinetics. International Journal of Pharmaceutics, 2017, 528, 88-99.	2.6	83
46	Recent advances in hyaluronic acid-decorated nanocarriers for targeted cancer therapy. Drug Discovery Today, 2017, 22, 665-680.	3.2	165
47	Galactose-Anchored Gelatin Nanoparticles for Primaquine Delivery and Improved Pharmacokinetics: A Biodegradable and Safe Approach for Effective Antiplasmodial Activity against P. falciparum 3D7 and in Vivo Hepatocyte Targeting. Molecular Pharmaceutics, 2017, 14, 3356-3369.	2.3	17
48	Conjugated and Entrapped HPMA-PLA Nano-Polymeric Micelles Based Dual Delivery of First Line Anti TB Drugs: Improved and Safe Drug Delivery against Sensitive and Resistant Mycobacterium Tuberculosis. Pharmaceutical Research, 2017, 34, 1944-1955.	1.7	30
49	Dendrimer nanoarchitectures for cancer diagnosis and anticancer drug delivery. Drug Discovery Today, 2017, 22, 314-326.	3.2	174
50	Nanoparticles as nucleic acid delivery vectors. , 2017, , 13-42.		1
51	Impact of Dendrimers on Solubility of Hydrophobic Drug Molecules. Frontiers in Pharmacology, 2017, 8, 261.	1.6	149
52	Oral drug delivery potential of dendrimers. , 2017, , 231-261.		5
53	Polymeric Nanoparticles in Targeting and Delivery of Drugs. , 2017, , 223-255.		12
54	PLGA Nanoparticles and Their Versatile Role in Anticancer Drug Delivery. Critical Reviews in Therapeutic Drug Carrier Systems, 2016, 33, 159-193.	1.2	69

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55	Biodegradable nano-architectural PEGylated approach for the improved stability and anticancer efficacy of bendamustine. International Journal of Biological Macromolecules, 2016, 92, 1242-1251.	3.6	29
56	PEGylated PAMAM dendrimers: Enhancing efficacy and mitigating toxicity for effective anticancer drug and gene delivery. Acta Biomaterialia, 2016, 43, 14-29.	4.1	296
57	Blood brain barrier: An overview on strategies in drug delivery, realisticin vitromodeling andin vivolive tracking. Tissue Barriers, 2016, 4, e1129476.	1.6	80
58	Polymeric Micelles: Recent Advancements in the Delivery of Anticancer Drugs. Pharmaceutical Research, 2016, 33, 18-39.	1.7	185
59	Dendrimer-drug Conjugates in Drug Delivery and Targeting. Pharmaceutical Nanotechnology, 2016, 3, 239-260.	0.6	10
60	PEGylated methotrexate based micellar conjugates for anticancer chemotherapy. Asian Journal of Pharmaceutics (discontinued), 2015, 9, 60.	0.4	1
61	Surface engineered and ligand anchored nanobioconjugate: An effective therapeutic approach for oral insulin delivery in experimental diabetic rats. Colloids and Surfaces B: Biointerfaces, 2015, 127, 172-181.	2.5	26
62	PAMAM dendrimers as promising nanocarriers for RNAi therapeutics. Materials Today, 2015, 18, 565-572.	8.3	219
63	Controlled delivery of Gemcitabine Hydrochloride using mannosylated poly(propyleneimine) dendrimers. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	24
64	Dendrimers as an Effective Nanocarrier in Cardiovascular Disease. Current Pharmaceutical Design, 2015, 21, 4519-4526.	0.9	44
65	Dendronized nanoconjugates of lysine and folate for treatment of cancer. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 87, 500-509.	2.0	77
66	Dendrimers and Its Biomedical Applications. , 2014, , 243-257.		17
67	Hyperbranched dendritic nano-carriers for topical delivery of dithranol. Journal of Drug Targeting, 2013, 21, 497-506.	2.1	71
68	A review of glycosylated carriers for drug delivery. Biomaterials, 2012, 33, 4166-4186.	5.7	232
69	Non-polymeric nano-carriers in HIV/AIDS drug delivery and targeting. Advanced Drug Delivery Reviews, 2010, 62, 478-490.	6.6	140
70	Ligand anchored dendrimers based nanoconstructs for effective targeting to cancer cells. International Journal of Pharmaceutics, 2010, 393, 186-197.	2.6	91
71	Dendrimer toxicity: Let's meet the challenge. International Journal of Pharmaceutics, 2010, 394, 122-142.	2.6	627
72	Development and Characterization of Triazine Based Dendrimers for Delivery of Antitumor Agent. Journal of Nanoscience and Nanotechnology, 2010, 10, 8395-8404.	0.9	33

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73	Tumour and dendrimers: a review on drug delivery aspects. Journal of Pharmacy and Pharmacology, 2010, 60, 671-688.	1.2	50
74	Surface-Engineered Dendrimers: a Solution for Toxicity Issues. Journal of Biomaterials Science, Polymer Edition, 2009, 20, 141-166.	1.9	65
75	Dendrimers - Reflections on host-guest interaction mechanism towards solubility enhancement. Asian Journal of Pharmaceutics (discontinued), 2009, 3, 188.	0.4	9
76	Dextran conjugated dendritic nanoconstructs as potential vectors for anti-cancer agent. Biomaterials, 2009, 30, 3588-3596.	5.7	109
77	Dendimer-Mediated Solubilization, Formulation Development and in Vitroâ^'in Vivo Assessment of Piroxicam. Molecular Pharmaceutics, 2009, 6, 940-950.	2.3	97
78	Ligand based dendritic systems for tumor targeting. International Journal of Pharmaceutics, 2008, 350, 3-13.	2.6	103
79	Folate and Folateâ^'PEGâ^'PAMAM Dendrimers: Synthesis, Characterization, and Targeted Anticancer Drug Delivery Potential in Tumor Bearing Mice. Bioconjugate Chemistry, 2008, 19, 2239-2252.	1.8	292
80	Application of dendrimerâ€"drug complexation in the enhancement of drug solubility and bioavailability. Expert Opinion on Drug Metabolism and Toxicology, 2008, 4, 1035-1052.	1.5	120
81	Glycoconjugated peptide dendrimers-based nanoparticulate system for the delivery of chloroquine phosphate. Biomaterials, 2007, 28, 3349-3359.	5.7	212
82	Pharmaceutical and Biomedical Potential of Surface Engineered Dendrimers. Critical Reviews in Therapeutic Drug Carrier Systems, 2007, 24, 257-306.	1.2	65
83	Polypropylene imine dendrimer mediated solubility enhancement: effect of pH and functional groups of hydrophobes. Journal of Pharmacy and Pharmaceutical Sciences, 2007, 10, 358-67.	0.9	53
84	Dendrimers:Â Novel Polymeric Nanoarchitectures for Solubility Enhancement. Biomacromolecules, 2006, 7, 649-658.	2.6	338
85	A review of in vitroâ€"in vivo investigations on dendrimers: the novel nanoscopic drug carriers. Nanomedicine: Nanotechnology, Biology, and Medicine, 2006, 2, 66-73.	1.7	92
86	Hyper-Branched Dendrimers in Drug Delivery and Solubilization. SOJ Pharmacy & Pharmaceutical Sciences, 0, , .	0.1	2