

Raj Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,883
citations

186254
28
h-index

276858
41
g-index

52
all docs

52
docs citations

52
times ranked

1871
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal oxide nanofibers and their applications for biosensing. , 2022, , 113-137.		0
2	Neurodegenerative disorders management: state-of-art and prospects of nano-biotechnology. Critical Reviews in Biotechnology, 2022, 42, 1180-1212.	9.0	22
3	Surface coating and functionalization of metal and metal oxide nanoparticles for biomedical applications. , 2022, , 205-231.		2
4	Nanomaterials of metal and metal oxides for optical biosensing application. , 2022, , 321-352.		0
5	Modified bactofection for efficient and functional DNA delivery using invasive E. coli DH10B vector into human epithelial cell line. Journal of Drug Delivery Science and Technology, 2022, 70, 103159.	3.0	3
6	Self-Assembled Alkylated Polyamine Analogs as Supramolecular Anticancer Agents. Molecules, 2022, 27, 2441.	3.8	2
7	Nanotechnology-Assisted Metered-Dose Inhalers (MDIs) for High-Performance Pulmonary Drug Delivery Applications. Pharmaceutical Research, 2022, 39, 2831-2855.	3.5	25
8	Nanotechnology based vaccines: Cervical cancer management and perspectives. Journal of Drug Delivery Science and Technology, 2022, 71, 103351.	3.0	5
9	A Role for Extracellular Vesicles in SARS-CoV-2 Therapeutics and Prevention. Journal of Neuroimmune Pharmacology, 2021, 16, 270-288.	4.1	30
10	Lignin: Drug/Gene Delivery and Tissue Engineering Applications. International Journal of Nanomedicine, 2021, Volume 16, 2419-2441.	6.7	59
11	Gene silencing delivery systems for the treatment of pancreatic cancer: Where and what to target next?. Journal of Controlled Release, 2021, 331, 246-259.	9.9	18
12	Nanocarrier vaccines for SARS-CoV-2. Advanced Drug Delivery Reviews, 2021, 171, 215-239.	13.7	66
13	Graphene-Based Nanomaterials for Neuroengineering: Recent Advances and Future Prospective. Advanced Functional Materials, 2021, 31, 2104887.	14.9	21
14	Polyhydroxybutyrate-Based Nanocomposites for Bone Tissue Engineering. Pharmaceuticals, 2021, 14, 1163.	3.8	32
15	Preparation, characterization and in vitro cytotoxicity of Fenofibrate and Nabumetone loaded solid lipid nanoparticles. Materials Science and Engineering C, 2020, 106, 110184.	7.3	42
16	Drop-by-drop solvent hot antisolvent interaction method for engineering nanocrystallization of sulfamethoxazole to enhanced water solubility and bioavailability. Journal of Drug Delivery Science and Technology, 2020, 55, 101359.	3.0	10
17	Core-shell nanostructures: perspectives towards drug delivery applications. Journal of Materials Chemistry B, 2020, 8, 8992-9027.	5.8	127
18	Nanoparticle-Based Drugs and Formulations: Current Status and Emerging Applications. ACS Applied Nano Materials, 2020, 3, 4944-4961.	5.0	60

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19	Fluorescent Mantle Carbon Coated Core–Shell SPIONs for Neuroengineering Applications. ACS Applied Bio Materials, 2020, 3, 4665-4673.	4.6	27
20	Sonochemical synthesis of carbon dots, mechanism, effect of parameters, and catalytic, energy, biomedical and tissue engineering applications. Ultrasonics Sonochemistry, 2020, 64, 105009.	8.2	132
21	Advances in nanotechnology and nanomaterials based strategies for neural tissue engineering. Journal of Drug Delivery Science and Technology, 2020, 57, 101617.	3.0	88
22	Solubility and Bioavailability of Fenofibrate Nanoformulations. ChemistrySelect, 2020, 5, 1478-1490.	1.5	17
23	Advances in Nanotechnology based Strategies for Synthesis of Nanoparticles of Lignin. Springer Series on Polymer and Composite Materials, 2020, , 203-229.	0.7	5
24	Acoustic Cavitation-Assisted Formulation of Solid Lipid Nanoparticles using Different Stabilizers. ACS Omega, 2019, 4, 13360-13370.	3.5	33
25	Acoustic cavitation assisted hot melt mixing technique for solid lipid nanoparticles formulation, characterization, and controlled delivery of poorly water soluble drugs. Journal of Drug Delivery Science and Technology, 2019, 54, 101277.	3.0	30
26	Nanotechnology based approaches to enhance aqueous solubility and bioavailability of griseofulvin: A literature survey. Journal of Drug Delivery Science and Technology, 2019, 53, 101221.	3.0	35
27	One-Pot Hydrothermal Synthesis of Elements (B, N, P)-Doped Fluorescent Carbon Dots for Cell Labelling, Differentiation and Outgrowth of Neuronal Cells. ChemistrySelect, 2019, 4, 4222-4232.	1.5	29
28	Engineering the Morphology and Particle Size of High Energetic Compounds Using Drop-by-Drop and Drop-to-Drop Solvent–Antisolvent Interaction Methods. ACS Omega, 2019, 4, 5424-5433.	3.5	31
29	Fluorescent metal-doped carbon dots for neuronal manipulations. Ultrasonics Sonochemistry, 2019, 52, 205-213.	8.2	70
30	Lipid-Based Nanoparticles for Drug-Delivery Systems. , 2019, , 249-284.		56
31	Element (B, N, P) doped carbon dots interaction with neural cells: promising results and future prospective. , 2019, , .		11
32	Enhancing the Solubility of Fenofibrate by Nanocrystal Formation and Encapsulation. AAPS PharmSciTech, 2018, 19, 284-292.	3.3	43
33	Solid lipid nanoparticles for the controlled delivery of poorly water soluble non-steroidal anti-inflammatory drugs. Ultrasonics Sonochemistry, 2018, 40, 686-696.	8.2	87
34	Physiochemical and cytotoxicity study of TPGS stabilized nanoemulsion designed by ultrasonication method. Ultrasonics Sonochemistry, 2017, 34, 173-182.	8.2	39
35	Ultrasound processed nanoemulsion: A comparative approach between resveratrol and resveratrol cyclodextrin inclusion complex to study its binding interactions, antioxidant activity and UV light stability. Ultrasonics Sonochemistry, 2017, 37, 478-489.	8.2	87
36	Formulation and physiochemical study of α -tocopherol based oil in water nanoemulsion stabilized with non toxic, biodegradable surfactant: Sodium stearyl lactate. Ultrasonics Sonochemistry, 2017, 38, 570-578.	8.2	40

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37	High catalytic activities of palladium nanowires synthesized using liquid crystal templating approach. Journal of Molecular Catalysis A, 2016, 423, 126-134.	4.8	41
38	Unusual anti-leukemia activity of nanoformulated naproxen and other non-steroidal anti-inflammatory drugs. Materials Science and Engineering C, 2016, 69, 1335-1344.	7.3	49
39	Facile synthesis of pristine graphene-palladium nanocomposites with extraordinary catalytic activities using swollen liquid crystals. Scientific Reports, 2016, 6, 33053.	3.3	59
40	Preparation and characterization of polyvinyl alcohol stabilized griseofulvin nanoparticles. Materials Today: Proceedings, 2016, 3, 2261-2267.	1.8	23
41	Formulation of saponin stabilized nanoemulsion by ultrasonic method and its role to protect the degradation of quercetin from UV light. Ultrasonics Sonochemistry, 2016, 31, 29-38.	8.2	50
42	Repositioning of Non-Steroidal Anti Inflammatory Drug (NSAIDs) for Cancer Treatment: Promises and Challenges. Journal of Nanomedicine & Nanotechnology, 2016, 7, .	1.1	15
43	Controlling the size and morphology of griseofulvin nanoparticles using polymeric stabilizers by evaporation-assisted solvent-antisolvent interaction method. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	37
44	Optimized Synthesis of HMX Nanoparticles Using Antisolvent Precipitation Method. Journal of Energetic Materials, 2015, 33, 277-287.	2.0	40
45	Tuning the particle size and morphology of high energetic material nanocrystals. Defence Technology, 2015, 11, 382-389.	4.2	35
46	Green synthesis of a palladium-polyaniline nanocomposite for green Suzuki-Miyaura coupling reactions. RSC Advances, 2015, 5, 33786-33791.	3.6	45
47	Ultrafine carbamazepine nanoparticles with enhanced water solubility and rate of dissolution. RSC Advances, 2014, 4, 48101-48108.	3.6	38
48	Preparation of Nano-RDX by Evaporation Assisted Solvent-Antisolvent Interaction. Propellants, Explosives, Pyrotechnics, 2014, 39, 383-389.	1.6	55
49	Biomimetic Nanocomposites for Biomedical Applications. ACS Symposium Series, 0, , 163-196.	0.5	2