

Ruckmani Kandasamy

List of Publications by Year
in descending order

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Version: 2024-02-01

102
papers

2,774
citations

147801
31
h-index

206112
48
g-index

108
all docs

108
docs citations

108
times ranked

4165
citing authors

#	ARTICLE	IF	CITATIONS
1	Formulation and Optimization of Zidovudine Niosomes. AAPS PharmSciTech, 2010, 11, 1119-1127.	3.3	206
2	Antimicrobial and antioxidant potentials of biosynthesized colloidal zinc oxide nanoparticles for a fortified cold cream formulation: A potent nanocosmeceutical application. Materials Science and Engineering C, 2017, 79, 581-589.	7.3	106
3	Transdermal therapeutic system of carvedilol: Effect of hydrophilic and hydrophobic matrix on in vitro and in vivo characteristics. AAPS PharmSciTech, 2007, 8, E13-E20.	3.3	98
4	Curcumin drug delivery by vanillin-chitosan coated with calcium ferrite hybrid nanoparticles as carrier. European Journal of Pharmaceutical Sciences, 2018, 116, 48-60.	4.0	86
5	Hyaluronic acid co-functionalized gold nanoparticle complex for the targeted delivery of metformin in the treatment of liver cancer (HepG2 cells). Carbohydrate Polymers, 2015, 128, 63-74.	10.2	79
6	Ferric reducing anti-oxidant power assay in plant extract. Bangladesh Journal of Pharmacology, 2016, 11, 570.	0.4	79
7	Beta sitosterol and Daucosterol (phytosterols identified in Grewia tiliaefolia) perturbs cell cycle and induces apoptotic cell death in A549 cells. Scientific Reports, 2017, 7, 3418.	3.3	77
8	Fabrication of chitosan-magnetite nanocomposite strip for chromium removal. Applied Nanoscience (Switzerland), 2016, 6, 277-285.	3.1	76
9	A versatile effect of chitosan-silver nanocomposite for surface plasmonic photocatalytic and antibacterial activity. Journal of Photochemistry and Photobiology B: Biology, 2015, 153, 412-422.	3.8	71
10	β -Sitosterol targets Trx/Trx1 reductase to induce apoptosis in A549 cells via ROS mediated mitochondrial dysregulation and p53 activation. Scientific Reports, 2018, 8, 2071.	3.3	71
11	Physicochemical investigations of biogenic chitosan-silver nanocomposite as antimicrobial and anticancer agent. International Journal of Biological Macromolecules, 2016, 92, 77-87.	7.5	69
12	Microwave-assisted extraction of polysaccharides from Cyphomandra betacea and its biological activities. International Journal of Biological Macromolecules, 2016, 92, 682-693.	7.5	61
13	Exploring the Anti-quorum Sensing and Antibiofilm Efficacy of Phytol against Serratia marcescens Associated Acute Pyelonephritis Infection in Wistar Rats. Frontiers in Cellular and Infection Microbiology, 2017, 7, 498.	3.9	61
14	Physicochemical characteristics and antioxidant activity of Prunus cerasoides D. Don gum exudates. International Journal of Biological Macromolecules, 2014, 69, 192-199.	7.5	60
15	Co-encapsulated resveratrol and quercetin in chitosan and peg modified chitosan nanoparticles: For efficient intra ocular pressure reduction. International Journal of Biological Macromolecules, 2017, 104, 1837-1845.	7.5	56
16	Methotrexate Loaded Solid Lipid Nanoparticles (SLN) for Effective Treatment of Carcinoma. Journal of Nanoscience and Nanotechnology, 2006, 6, 2991-2995.	0.9	55
17	A simple and rapid high-performance liquid chromatographic method for the determination of bisoprolol fumarate and hydrochlorothiazide in a tablet dosage form. Journal of Pharmaceutical and Biomedical Analysis, 2008, 48, 1055-1057.	2.8	52
18	Cigarette smoke and related risk factors in neurological disorders: An update. Biomedicine and Pharmacotherapy, 2017, 85, 79-86.	5.6	49

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19	Physicochemical, thermal, pasting and microstructural characterization of commercial <i>Curcuma angustifolia</i> starch. <i>Food Hydrocolloids</i> , 2017, 67, 27-36.	10.7	48
20	Chitosan stabilized camptothecin nanoemulsions: Development, evaluation and biodistribution in preclinical breast cancer animal model. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 1846-1852.	7.5	45
21	Cellular imaging and folate receptor targeting delivery of gum kondagogu capped gold nanoparticles in cancer cells. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 220-230.	7.5	43
22	Biological macromolecules for ophthalmic drug delivery to treat ocular diseases. <i>International Journal of Biological Macromolecules</i> , 2018, 110, 7-16.	7.5	41
23	Evaluation of antidiabetic activity of bud and flower of <i>Avaram Senna</i> (<i>Cassia auriculata</i> L.) in high fat diet and streptozotocin induced diabetic rats. <i>Biomedicine and Pharmacotherapy</i> , 2018, 108, 1495-1506.	5.6	40
24	Aerosolized hyaluronic acid decorated, ferulic acid loaded chitosan nanoparticle: A promising asthma control strategy. <i>International Journal of Pharmaceutics</i> , 2020, 591, 119958.	5.2	39
25	Novel nano therapeutic materials for the effective treatment of rheumatoid arthritis-recent insights. <i>Materials Today Communications</i> , 2018, 17, 200-213.	1.9	38
26	Synthesis and characterization of Arabic gum capped gold nanoparticles for tumor-targeted drug delivery. <i>Materials Letters</i> , 2015, 139, 241-244.	2.6	37
27	Anti-amyloidogenic and anti-apoptotic effect of α -bisabolol against $A\beta^{25}$ induced neurotoxicity in PC12 cells. <i>European Journal of Medicinal Chemistry</i> , 2018, 143, 1196-1207.	5.5	37
28	Synthesis, characterization and applications of endophytic fungal nanoparticles. <i>Inorganic and Nano-Metal Chemistry</i> , 2021, 51, 280-287.	1.6	36
29	Heterogeneous polymer composite nanoparticles loaded in situ gel for controlled release intra-vaginal therapy of genital herpes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 146, 260-270.	5.0	34
30	Green Nanocolloids Control Multi Drug Resistant Pathogenic Bacteria. <i>Journal of Cluster Science</i> , 2020, 31, 861-866.	3.3	34
31	Recent Trends of Biocompatible and Biodegradable Nanoparticles in Drug Delivery: A Review. <i>Current Medicinal Chemistry</i> , 2016, 23, 3730-3751.	2.4	33
32	α -Bisabolol loaded solid lipid nanoparticles attenuates $A\beta^{25}$ aggregation and protects Neuro-2a cells from $A\beta^{25}$ induced neurotoxicity. <i>Journal of Molecular Liquids</i> , 2018, 264, 431-441.	4.9	32
33	Synthesis and characterization of poly (N-isopropylacrylamide)-g-carboxymethyl chitosan copolymer-based doxorubicin-loaded polymeric nanoparticles for thermoresponsive drug release. <i>Colloid and Polymer Science</i> , 2016, 294, 527-535.	2.1	31
34	Surfactants and fatty alcohol based novel nanovesicles for resveratrol: Process optimization, characterization and evaluation of functional properties in RAW 264.7 macrophage cells. <i>Journal of Molecular Liquids</i> , 2018, 261, 387-396.	4.9	30
35	<i>Myxopyrum serratum</i> ameliorates airway inflammation in LPS-stimulated RAW 264.7 macrophages and OVA-induced murine model of allergic asthma. <i>Journal of Ethnopharmacology</i> , 2020, 255, 112369.	4.1	30
36	Alginate beads of Captopril using galactomannan containing <i>Senna tora</i> gum, guar gum and locust bean gum. <i>International Journal of Biological Macromolecules</i> , 2015, 76, 119-131.	7.5	29

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37	Characterization and in vitro antioxidant activity of Albizia stipulata Boiv. gum exudates. International Journal of Biological Macromolecules, 2015, 80, 231-239.	7.5	29
38	Efficient indoles and anilines syntheses employing tert-butyl sulfonamide as ammonia surrogate. Tetrahedron Letters, 2011, 52, 5625-5628.	1.4	27
39	Stigmatellin Y " An anti-biofilm compound from Bacillus subtilis BR4 possibly interferes in PQS" PqsR mediated quorum sensing system in Pseudomonas aeruginosa. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2113-2118.	2.2	26
40	Phytol-loaded PLGA nanoparticle as a modulator of Alzheimer's toxic A β peptide aggregation and fibrillation associated with impaired neuronal cell function. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 1-12.	2.8	26
41	Tissue Distribution, Pharmacokinetics and Stability Studies of Zidovudine Delivered by Niosomes and Proniosomes. Journal of Biomedical Nanotechnology, 2010, 6, 43-51.	1.1	25
42	Isatin down-regulates expression of atrial natriuretic peptide receptor A and inhibits airway inflammation in a mouse model of allergic asthma. International Immunopharmacology, 2010, 10, 218-225.	3.8	25
43	Determination of sodium hyaluronate in pharmaceutical formulations by HPLC"UV. Journal of Pharmaceutical Analysis, 2013, 3, 324-329.	5.3	25
44	Ultrafast synthesis of stabilized gold nanoparticles using aqueous fruit extract of Limonia acidissima L. and conjugated epirubicin: targeted drug delivery for treatment of breast cancer. RSC Advances, 2016, 6, 26874-26882.	3.6	25
45	Development of methotrexate-loaded cubosomes with improved skin permeation for the topical treatment of rheumatoid arthritis. Applied Nanoscience (Switzerland), 2019, 9, 1781-1796.	3.1	25
46	pH responsive delivery of lumefantrine with calcium phosphate nanoparticles loaded lipidic cubosomes for the site specific treatment of lung cancer. Chemistry and Physics of Lipids, 2019, 224, 104763.	3.2	25
47	Nepafenac loaded silica nanoparticles dispersed in-situ gel systems: Development and characterization. International Journal of Biological Macromolecules, 2018, 110, 336-345.	7.5	23
48	Synthesis and characterization of cystamine conjugated chitosan-SS-mPEG based 5-Fluorouracil loaded polymeric nanoparticles for redox responsive drug release. European Journal of Pharmaceutical Sciences, 2018, 116, 37-47.	4.0	23
49	Atrial natriuretic peptide-conjugated chitosan-hydrazone-mPEG copolymer nanoparticles as pH-responsive carriers for intracellular delivery of prednisone. Carbohydrate Polymers, 2017, 157, 1677-1686.	10.2	22
50	Passiflora caerulea L. fruit extract and its metabolites ameliorate epileptic seizure, cognitive deficit and oxidative stress in pilocarpine-induced epileptic mice. Metabolic Brain Disease, 2020, 35, 159-173.	2.9	19
51	In vitro study on aspects of molecular mechanisms underlying invasive aspergillosis caused by gliotoxin and fumagillin, alone and in combination. Scientific Reports, 2020, 10, 14473.	3.3	19
52	Development and evaluation of camptothecin loaded polymer stabilized nanoemulsion: Targeting potential in 4T1-breast tumour xenograft model. European Journal of Pharmaceutical Sciences, 2018, 116, 15-25.	4.0	17
53	Multi potent aromatic nano colloid: synthesis, characterization and applications. AMB Express, 2020, 10, 168.	3.0	17
54	Cytocompatible chitosan-graft-mPEG-based 5-fluorouracil-loaded polymeric nanoparticles for tumor-targeted drug delivery. Drug Development and Industrial Pharmacy, 2018, 44, 365-376.	2.0	16

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55	Phytol loaded PLGA nanoparticles ameliorate scopolamine-induced cognitive dysfunction by attenuating cholinesterase activity, oxidative stress and apoptosis in Wistar rat. Nutritional Neuroscience, 2022, 25, 485-501.	3.1	16
56	Recent Progress in Stimuli-Responsive Intelligent Nano Scale Drug Delivery Systems: A Special Focus Towards pH-Sensitive Systems. Current Drug Targets, 2021, 22, 947-966.	2.1	16
57	In vivo synergistic anti-tumor effect of lumefantrine combined with pH responsive behavior of nano calcium phosphate based lipid nanoparticles on lung cancer. European Journal of Pharmaceutical Sciences, 2021, 158, 105657.	4.0	15
58	Development of Methotrexate and Minocycline-Loaded Nanoparticles for the Effective Treatment of Rheumatoid Arthritis. AAPS PharmSciTech, 2020, 21, 34.	3.3	14
59	Mimosa pudica floral nanoparticles: a potent antibiotic resistance breaker. Inorganic and Nano-Metal Chemistry, 2021, 51, 1751-1758.	1.6	13
60	Myco-nanocolloids manipulate growth, biofilm formation and virulence genes in UTI causing E. coli. Inorganic and Nano-Metal Chemistry, 2021, 51, 1725-1734.	1.6	13
61	pH responsive metformin loaded zeolitic imidazolate framework (ZIF-8) for the treatment of lung cancer. Materials Technology, 2022, 37, 926-934.	3.0	13
62	Evaluation of betamethasone sodium phosphate loaded chitosan nanoparticles for anti-rheumatoid activity. IET Nanobiotechnology, 2018, 12, 6-11.	3.8	11
63	Carbamic acid 2-trimethylsilylethyl ester as a new ammonia equivalent for palladium-catalyzed amination of aryl halides. Tetrahedron Letters, 2010, 51, 5984-5987.	1.4	10
64	Exploitation of novel gum Prunus cerasoides as mucoadhesive beads for a controlled-release drug delivery. International Journal of Biological Macromolecules, 2016, 85, 667-673.	7.5	10
65	Mechanistic investigation of PPAR γ -facilitated anti-asthmatic effects of Galangin (Norisalpinin): Insights from in silico and in vivo analyses. Biochemical and Biophysical Research Communications, 2020, 526, 833-840.	2.1	10
66	Design and development of Albizia stipulata gum based controlled-release matrix tablets in cancer therapeutics. International Journal of Biological Macromolecules, 2016, 92, 972-980.	7.5	9
67	Development of copolymeric nanoparticles of hypocrellin B: Enhanced phototoxic effect and ocular distribution. European Journal of Pharmaceutical Sciences, 2018, 116, 26-36.	4.0	9
68	Design and development of artemisinin and dexamethasone loaded topical nanodispersion for the effective treatment of age-related macular degeneration. IET Nanobiotechnology, 2019, 13, 868-874.	3.8	9
69	Alpha-1 antitrypsin: Associated diseases and therapeutic uses. Clinica Chimica Acta, 2016, 459, 109-116.	1.1	8
70	Development of Oral Flexible Tablet (OFT) Formulation for Pediatric and Geriatric Patients: a Novel Age-Appropriate Formulation Platform. AAPS PharmSciTech, 2017, 18, 1972-1986.	3.3	7
71	A novel biphenolic ligand for selective Mg 2+ and Zn 2+ ions sensing followed by colorimetric, spectroscopic and cell imaging methods. European Journal of Pharmaceutical Sciences, 2018, 116, 61-69.	4.0	7
72	In vivo protective effect of geraniol on colonization of Staphylococcus epidermidis in rat jugular vein catheter model. Pathogens and Disease, 2018, 76, .	2.0	7

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73	Solubility Enhancement of Methotrexate by Solid Nanodispersion Approach for the Improved Treatment of Small Cell Lung Carcinoma. <i>Current Topics in Medicinal Chemistry</i> , 2021, 21, 140-150.	2.1	7
74	Levan: A Biocompatible Homopolysaccharide Excipient for Stabilization of Peptide Drugs. <i>International Journal of Peptide Research and Therapeutics</i> , 2017, 23, 305-311.	1.9	6
75	Fabrication of stimuli gated nanoformulation for site-specific delivery of thymoquinone for colon cancer treatment – Insight into thymoquinone’s improved physicochemical properties. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 55, 101334.	3.0	6
76	Î±-Lipoic acid nanocapsules fortified cow milk application as a dietary supplement product for anemia. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 2007-2023.	3.1	6
77	Standardization, in-silico and in-vivo safety assessment of methanol extract of <i>Ziziphus mauritiana</i> Lam leaves. <i>Regulatory Toxicology and Pharmacology</i> , 2022, 131, 105144.	2.7	6
78	<i>Ziziphus mauritiana</i> Lam attenuates inflammation via downregulating NF-κB pathway in LPS-stimulated RAW 264.7 macrophages & OVA-induced airway inflammation in mice models. <i>Journal of Ethnopharmacology</i> , 2022, 295, 115445.	4.1	6
79	Nanoparticulate Drug Delivery System of Cytarabine Hydrochloride (CTH) for Improved Treatment of Lymphoma. <i>Journal of Biomedical Nanotechnology</i> , 2007, 3, 90-96.	1.1	5
80	2-(Trimethylsilyl)ethanol as a new alcohol equivalent for copper-catalyzed coupling of aryl iodides. <i>Tetrahedron Letters</i> , 2011, 52, 5338-5341.	1.4	5
81	Development of Extended-Release Oral Flexible Tablet (ER-OFT) Formulation for Pediatric and Geriatric Compliance: an Age-Appropriate Formulation. <i>AAPS PharmSciTech</i> , 2017, 18, 2394-2409.	3.3	5
82	HPLC-ESI-QQQ based standardization, mutagenic and genotoxic potential of methanol extract of <i>Ziziphus mauritiana</i> Lam leaves. <i>Journal of Ethnopharmacology</i> , 2020, 246, 112216.	4.1	5
83	Facile fabrication and structural elucidation of lignin based macromolecular green composites for multifunctional applications. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51280.	2.6	5
84	Combinatorial analysis of quercetin and resveratrol by HPTLC in <i>Sesbania grandiflora</i> /phyto-based nanoformulations. <i>Natural Product Research</i> , 2021, 35, 2243-2248.	1.8	4
85	<i>Geophila repens</i> phytosome-loaded intranasal gel with improved nasal permeation for the effective treatment of Alzheimer's disease. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 69, 103087.	3.0	4
86	High performance thin-layer chromatography and in vitro cytotoxic studies on ethanol extract of <i>Matricaria chamomilla</i> L (Asteraceae) flowers. <i>Tropical Journal of Pharmaceutical Research</i> , 2021, 18, 1969-1976.	0.3	3
87	Effective Waste Water Treatment and its Management. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2016, , 312-334.	0.4	3
88	Studies on Anti microbial Potential of Non-antibiotics on Resistant Bacteria – A Review. <i>Journal of Young Pharmacists</i> , 2015, 7, 63-68.	0.2	3
89	Antibacterial potentiality of antiulcer and antispasmodic drugs with selected antibiotics against methicillin resistant <i>Staphylococcus aureus</i> : <i>In vitro</i> and <i>in silico</i> studies. <i>Bangladesh Journal of Pharmacology</i> , 2015, 10, 875.	0.4	2
90	Effect of Ytterbium and Erbium co-doped NaYF ₄ @NaSmF ₄ upconversion core-shell nanoparticles on their luminescence and morphological properties. <i>Materials Research Express</i> , 2019, 6, 104004.	1.6	2

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91	Lactic acid-mediated isolation of alpha-, beta- and kappa-casein fractions by isoelectric precipitation coupled with cold extraction from defatted cow milk. International Journal of Dairy Technology, 2020, 73, 31-39.	2.8	2
92	Nanoparticle-Loaded Oral Fast-Dissolving Film: New Realistic Approach of Prospective Generation in Drug Delivery - A Review. Critical Reviews in Therapeutic Drug Carrier Systems, 2021, 38, 1-35.	2.2	2
93	Bronchodilatory effect of <i>Myxopyrum serratum</i> in animal model. Bangladesh Journal of Pharmacology, 2017, 12, 84.	0.4	1
94	Investigations on physiochemical and third-order nonlinear optical studies on quinolinium based organic crystal. Journal of Nonlinear Optical Physics and Materials, 2019, 28, 1950012.	1.8	1
95	Anti-platelet Drug-loaded Targeted Technologies for the Effective Treatment of Atherothrombosis. Current Drug Targets, 2021, 22, 399-419.	2.1	1
96	Novel Nanocarriers for the Treatment of Wound Healing. Current Pharmaceutical Design, 2020, 26, 4591-4600.	1.9	1
97	Guar gum based oral films for hypertensive urgencies. Natural Product Research, 2022, 36, 6470-6473.	1.8	1
98	Design and evaluation of redox responsive disulfide containing resveratrol loaded nanocarrier anti-cancer activity in the MDA-MB-231 cell line. Materials Today Communications, 2022, 32, 103873.	1.9	1
99	Scientific Abstracts presented at the 5th International Convention of Association of Pharmacy Professionals: Redesigning Pharmacy Education and Regulations for Translational Drug Research in India, hosted at Anna University, Centre for Excellence in Nanob. European Journal of Molecular and Clinical Medicine, 2017, 3, 30.	0.1	0
100	Liquid Chromatographic analysis of Methotrexate and Minocycline- Relevance to the determination in Plasma/Nanoparticulate formulations. Current Chromatography, 2021, 08, .	0.3	0
101	Stabilizing effect of chitosan-poly vinyl alcohol complex on simvastatin loaded nanoformulation. International Journal of Research in Pharmaceutical Sciences, 2019, 10, 2265-2279.	0.1	0
102	Telomere DNA Binding, Cleavage and Anticancer Activity of [Cu(phendione)(Hpyramol)Cl]. Current Chemical Biology, 2019, 13, 171-182.	0.5	0