

# Biswajit Mukherjee

## List of Publications by Year in descending order

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Version: 2024-02-01

92  
papers

2,593  
citations

186265

28  
h-index

214800

47  
g-index

94  
all docs

94  
docs citations

94  
times ranked

3457  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vanadiumâ€”an element of atypical biological significance. <i>Toxicology Letters</i> , 2004, 150, 135-143.	0.8	327
2	Design, development, physicochemical, and in vitro and in vivo evaluation of transdermal patches containing diclofenac diethylammonium salt. <i>Journal of Pharmaceutical Sciences</i> , 2002, 91, 2076-2089.	3.3	144
3	Preparation, characterization and in-vitro evaluation of sustained release protein-loaded nanoparticles based on biodegradable polymers. <i>International Journal of Nanomedicine</i> , 2008, 3, 487.	6.7	106
4	A comparison between povidone-ethylcellulose and povidone-eudragit transdermal dexamethasone matrix patches based on in vitro skin permeation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2005, 59, 475-483.	4.3	102
5	Apigenin loaded nanoparticle delayed development of hepatocellular carcinoma in rats. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 1905-1917.	3.3	77
6	Plant-Based Antidiabetic Nanoformulations: The Emerging Paradigm for Effective Therapy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2217.	4.1	77
7	Poly-lactide-co-glycolide nanoparticles containing voriconazole for pulmonary delivery: in vitro and in vivo study. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 94-104.	3.3	74
8	Lipid peroxidation, glutathione levels and changes in glutathioneâ€”related enzyme activities in streptozotocinâ€”induced diabetic rats. <i>Immunology and Cell Biology</i> , 1994, 72, 109-114.	2.3	70
9	Engineered polymeric iron oxide nanoparticles as potential drug carrier for targeted delivery of docetaxel to breast cancer cells. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 485, 165-173.	2.3	64
10	Development and In Vitro Evaluation of Diltiazem Hydrochloride Transdermal Patches Based on Povidoneâ€”EthylCellulose Matrices. <i>Drug Development and Industrial Pharmacy</i> , 2003, 29, 1-7.	2.0	62
11	Novel implications of the potential role of selenium on antioxidant status in streptozotocin-induced diabetic mice. <i>Biomedicine and Pharmacotherapy</i> , 1998, 52, 89-95.	5.6	58
12	Pulmonary Delivery of Voriconazole Loaded Nanoparticles Providing a Prolonged Drug Level in Lungs: A Promise for Treating Fungal Infection. <i>Molecular Pharmaceutics</i> , 2015, 12, 2651-2664.	4.6	57
13	Preparation and characterization of Tamoxifen citrate loaded nanoparticles for breast cancer therapy. <i>International Journal of Nanomedicine</i> , 2014, 9, 3107.	6.7	55
14	Chitosan-coated nanoparticles enhanced lung pharmacokinetic profile of voriconazole upon pulmonary delivery in mice. <i>Nanomedicine</i> , 2018, 13, 501-520.	3.3	53
15	Development of biodegradable polymer based tamoxifen citrate loaded nanoparticles and effect of some manufacturing process parameters on them: a physicochemical and in-vitro evaluation. <i>International Journal of Nanomedicine</i> , 2010, 5, 621.	6.7	49
16	Successful delivery of docetaxel to rat brain using experimentally developed nanoliposome: a treatment strategy for brain tumor. <i>Drug Delivery</i> , 2017, 24, 346-357.	5.7	49
17	Methotrexate Aspasomes Against Rheumatoid Arthritis: Optimized Hydrogel Loaded Liposomal Formulation with In Vivo Evaluation in Wistar Rats. <i>AAPS PharmSciTech</i> , 2018, 19, 1320-1336.	3.3	49
18	Doxorubicin-loaded phosphatidylethanolamine-conjugated nanoliposomes: in vitro characterization and their accumulation in liver, kidneys, and lungs in rats. <i>International Journal of Nanomedicine</i> , 2010, 5, 811.	6.7	48

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19	Sustained release of acyclovir from nano-liposomes and nano-niosomes: an in vitro study. <i>International Journal of Nanomedicine</i> , 2007, 2, 213-25.	6.7	45
20	Inhibitory effect of $\beta$ -carotene on chronic 2-acetylaminofluorene induced hepatocarcinogenesis in rat: reflection in hepatic drug metabolism. <i>Carcinogenesis</i> , 1994, 15, 1055-1060.	2.8	42
21	Editorial (Thematic Issue: "Nanosize Drug Delivery System"). <i>Current Pharmaceutical Biotechnology</i> , 2014, 14, 1221-1221.	1.6	40
22	Gum Cordia: A Novel Matrix Forming Material for Enteric resistant and Sustained Drug Delivery" A Technical Note. <i>AAPS PharmSciTech</i> , 2008, 9, 330-3.	3.3	39
23	Aptamer-Conjugated Apigenin Nanoparticles To Target Colorectal Carcinoma: A Promising Safe Alternative of Colorectal Cancer Chemotherapy. <i>ACS Applied Bio Materials</i> , 2018, 1, 1538-1556.	4.6	38
24	Can grass phytoliths and indices be relied on during vegetation and climate interpretations in the eastern Himalayas? Studies from Darjeeling and Arunachal Pradesh, India. <i>Quaternary Science Reviews</i> , 2016, 134, 114-132.	3.0	36
25	Aptamer-Functionalized Drug Nanocarrier Improves Hepatocellular Carcinoma toward Normal by Targeting Neoplastic Hepatocytes. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 20, 34-49.	5.1	36
26	Obesity and Insulin Resistance: An Abridged Molecular Correlation. <i>Lipid Insights</i> , 2013, 6, LPI.S10805.	1.0	34
27	Nanoencapsulated betulinic acid analogue distinctively improves colorectal carcinoma in vitro and in vivo. <i>Scientific Reports</i> , 2019, 9, 11506.	3.3	33
28	Preferential hepatic uptake of paclitaxel-loaded poly-(d-l-lactide-co-glycolide) nanoparticles " A possibility for hepatic drug targeting: Pharmacokinetics and biodistribution. <i>International Journal of Biological Macromolecules</i> , 2018, 112, 818-830.	7.5	31
29	Development of an inhalation chamber and a dry powder inhaler device for administration of pulmonary medication in animal model. <i>Drug Development and Industrial Pharmacy</i> , 2012, 38, 171-179.	2.0	29
30	Submicron-size biodegradable polymer-based didanosine particles for treating HIV at early stage: an in vitro study. <i>Journal of Microencapsulation</i> , 2012, 29, 666-676.	2.8	28
31	&lt;p&gt;CD-340 functionalized doxorubicin-loaded nanoparticle induces apoptosis and reduces tumor volume along with drug-related cardiotoxicity in mice&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 8073-8094.	6.7	27
32	Gum Odina-A New Tablet Binder. <i>Trends in Applied Sciences Research</i> , 2006, 1, 309-316.	0.4	26
33	Colloidal gold-loaded, biodegradable, polymer-based stavudine nanoparticle uptake by macrophages: an in vitro study. <i>International Journal of Nanomedicine</i> , 2012, 7, 6049.	6.7	25
34	Therapeutic potential of andrographolide-loaded nanoparticles on a murine asthma model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 20, 102006.	3.3	25
35	Tamoxifen Citrate Encapsulated Sustained Release Liposomes: Preparation and Evaluation of Physicochemical Properties. <i>Scientia Pharmaceutica</i> , 2010, 78, 507-515.	2.0	24
36	Lipid nanocarrier-based transport of docetaxel across the blood brain barrier. <i>RSC Advances</i> , 2016, 6, 85261-85274.	3.6	23

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37	Toxicological Concerns of Engineered Nanosize Drug Delivery Systems. American Journal of Therapeutics, 2016, 23, e139-e150.	0.9	23
38	Potentials and Challenges of Active Targeting at the Tumor Cells by Engineered Polymeric Nanoparticles. Current Pharmaceutical Biotechnology, 2014, 14, 1250-1263.	1.6	23
39	Lipid-based nanocarrier efficiently delivers highly water soluble drug across the blood-brain barrier into brain. Drug Delivery, 2018, 25, 504-516.	5.7	22
40	Apigenin-Loaded PLGA-DMSA Nanoparticles: A Novel Strategy to Treat Melanoma Lung Metastasis. Molecular Pharmaceutics, 2021, 18, 1920-1938.	4.6	21
41	Development of Linker-Conjugated Nanosize Lipid Vesicles: A Strategy for Cell Selective Treatment in Breast Cancer. Current Cancer Drug Targets, 2016, 16, 357-372.	1.6	21
42	Inhibition of 3-methyl-4-dimethylaminoazobenzene-induced hepatocarcinogenesis in rat by dietary $\beta$ -carotene: Changes in hepatic anti-oxidant defense enzyme levels. International Journal of Cancer, 1995, 61, 799-805.	5.1	19
43	Characterization of insulin-like-growth factor II (IGF II) mRNA positive hepatic altered foci and IGF II expression in hepatocellular carcinoma during diethylnitrosamine-induced hepatocarcinogenesis in rats. Journal of Carcinogenesis, 2005, 4, 12.	2.5	18
44	HPLC detection of plasma concentrations of diclofenac in human volunteers administered with povidone-ethylcellulose based experimental transdermal matrix-type patches. Methods and Findings in Experimental and Clinical Pharmacology, 2006, 28, 301.	0.8	17
45	Anticancer potential of docetaxel-loaded cobalt ferrite nanocarrier: an in vitro study on MCF-7 and MDA-MB-231 cell lines. Journal of Microencapsulation, 2021, 38, 36-46.	2.8	16
46	Improved Skin Penetration Using In Situ Nanoparticulate Diclofenac Diethylamine in Hydrogel Systems: In Vitro and In Vivo Studies. AAPS PharmSciTech, 2016, 17, 307-317.	3.3	15
47	Calorie restriction improves aging-induced impairment of cognitive function in relation to deregulation of corticosterone status and brain regional GABA system. Mechanisms of Ageing and Development, 2020, 189, 111248.	4.6	14
48	A comprehensive calibrated phytolith based climatic index from the Himalaya and its application in palaeotemperature reconstruction. Science of the Total Environment, 2021, 750, 142280.	8.0	14
49	A Comparative Investigation of the Ability of Various Aptamer-Functionalized Drug Nanocarriers to Induce Selective Apoptosis in Neoplastic Hepatocytes: In Vitro and In Vivo Outcome. AAPS PharmSciTech, 2020, 21, 89.	3.3	13
50	Peptides, Proteins and Peptide/Protein-Polymer Conjugates as Drug Delivery System. Protein and Peptide Letters, 2014, 21, 1121-1128.	0.9	13
51	Effect of antisense oligomer in controlling c-raf.1 overexpression during diethylnitrosamine-induced hepatocarcinogenesis in rat. Cancer Chemotherapy and Pharmacology, 2010, 65, 309-318.	2.3	12
52	Gum odina: a novel matrix forming material for sustained drug delivery. Oriental Pharmacy and Experimental Medicine, 2011, 11, 131-136.	1.2	12
53	Early Stage HIV Management and Reduction of Stavudine-Induced Hepatotoxicity in Rats by Experimentally Developed Biodegradable Nanoparticles. AAPS PharmSciTech, 2017, 18, 697-709.	3.3	12
54	Size Dependent Variations of Phospholipid Based Vesicular Drug Carriers in Systemic Drug Activity. Current Pharmaceutical Biotechnology, 2015, 16, 380-391.	1.6	12

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55	Garcinol-loaded novel cationic nanoliposomes: <i>in vitro</i> and <i>in vivo</i> study against B16F10 melanoma tumor model. <i>Nanomedicine</i> , 2019, 14, 2045-2065.	3.3	11
56	Development of Denticap, a Matrix Based Sustained Release Formulation for Treatment of Toothache, Dental Infection and Other Gum Problem. <i>Current Drug Delivery</i> , 2009, 6, 199-207.	1.6	11
57	Is Type 2 Diabetes Mellitus a Predisposal Cause for Developing Hepatocellular Carcinoma?. <i>Current Diabetes Reviews</i> , 2015, 11, 64-70.	1.3	11
58	Dental Mold: A Novel Formulation to Treat Common Dental Disorders. <i>AAPS PharmSciTech</i> , 2009, 10, 692-702.	3.3	10
59	Carnosine improves aging-induced cognitive impairment and brain regional neurodegeneration in relation to the neuropathological alterations in the secondary structure of amyloid beta (A $\beta$ ). <i>Journal of Neurochemistry</i> , 2021, 158, 710-723.	3.9	10
60	Pressure-sensitive mucoadhesive polymer-based dental patches to treat periodontal diseases: an <i>in vitro</i> study. <i>Drug Delivery</i> , 2013, 20, 258-267.	5.7	9
61	Multifunctional drug nanocarriers facilitate more specific entry of therapeutic payload into tumors and control multiple drug resistance in cancer. , 2016, , 203-251.		9
62	Development of gum odina-gelatin based antimicrobial loaded biodegradable spongy scaffold: A promising wound care tool. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50057.	2.6	9
63	Potentials of Polymeric Nanoparticle as Drug Carrier for Cancer Therapy: With a Special Reference to Pharmacokinetic Parameters. <i>Current Drug Metabolism</i> , 2014, 15, 565-580.	1.2	9
64	Comparative Patterns of Hepatic Drug Metabolizing Enzymes and Their Possible Correlation with Chromosomal Aberrations in Transplantable Murine Lymphoma: a Time Course Study. <i>Cancer Investigation</i> , 1994, 12, 477-483.	1.3	8
65	Role of forward motility stimulating factor as an extracellular activator of soluble adenylyl cyclase. <i>Molecular Reproduction and Development</i> , 2015, 82, 1001-1014.	2.0	8
66	Optimization of In - vitro Permeation Pattern of Ketorolac Tromethamine Transdermal Patches. <i>Iranian Journal of Pharmaceutical Research</i> , 2011, 10, 193-201.	0.5	8
67	Preparation and Evaluation of Verapamil Hydrochloride Microcapsules. <i>American Journal of Therapeutics</i> , 2005, 12, 417-424.	0.9	7
68	Changes in the antioxidant defense and hepatic drug metabolizing enzyme and isoenzyme levels, 8-hydroxydeoxyguanosine formation and expressions of c-raf.1 and insulin-like growth factor II genes during the stages of development of hepatocellular carcinoma in rats. <i>European Journal of Cancer Prevention</i> , 2007, 16, 363-371.	1.3	7
69	Development and evaluation of nefopam transdermal matrix patch system in human volunteers. <i>PDA Journal of Pharmaceutical Science and Technology</i> , 2009, 63, 537-46.	0.5	7
70	Antisense oligonucleotides directed against insulin-like growth factor-II messenger ribonucleic acids delay the progress of rat hepatocarcinogenesis. <i>Journal of Carcinogenesis</i> , 2014, 13, 2.	2.5	6
71	Pharmacokinetic and Pharmacodynamic Modulations of Therapeutically Active Constituents From Orally Administered Nanocarriers Along With a Glimpse of Their Advantages and Limitations. , 2017, , 357-375.		6
72	Antimicrobial loaded gum odina - gelatin based biomimetic spongy scaffold for accelerated wound healing with complete cutaneous texture. <i>International Journal of Pharmaceutics</i> , 2021, 606, 120892.	5.2	6

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73	Formulation development and <i>in vitro</i> evaluation of solidified self-microemulsion in the form of tablet containing atorvastatin calcium. Drug Development and Industrial Pharmacy, 2013, 39, 1742-1749.	2.0	5
74	Inhibitory potential of iRGD peptide-conjugated garcinol-loaded biodegradable nanoparticles in rat colorectal carcinoma. Materials Science and Engineering C, 2022, , 112714.	7.3	5
75	Chemically Induced Hepatocellular Carcinoma and Stages of Development with Biochemical and Genetic Modulation: A Special Reference to Insulin-Like-Growth Factor II and Raf Gene Signaling. , 0, , .		4
76	Peripheral nerve targeting by procaine-conjugated ribavirin-loaded dual drug nanovesicle. Nanomedicine, 2018, 13, 3009-3023.	3.3	4
77	Educational Motivation and Legislative Approaches for Safe and Effective Hand Washes and Hand Rubs in Hand Health Care During COVID-19 Pandemic. Asia-Pacific Journal of Public Health, 2020, 32, 495-496.	1.0	4
78	Bioactive Flavonoid Apigenin and Its Nanoformulations: A Promising Hope for Diabetes and Cancer. , 2020, , 367-382.		4
79	Nanoscale Formulations and Diagnostics With Their Recent Trends: A Major Focus of Future Nanotechnology. Current Pharmaceutical Design, 2015, 21, 5172-5186.	1.9	3
80	Lactide-glycolide polymers as nano-dimensional carriers for drugs. International Journal of Biomedical Nanoscience and Nanotechnology, 2010, 1, 230.	0.1	2
81	EFFECT OF STREPTOZOTOCIN-INDUCED HYPERGLYCEMIA ON THE PROGRESSION OF HEPATOCARCINOGENESIS IN RATS. American Journal of Pharmacology and Toxicology, 2013, 8, 170-178.	0.7	2
82	Editorial: Advances in Drug Formulation. Frontiers in Pharmacology, 2020, 11, 608771.	3.5	2
83	Calorie restriction modulates Neuro-immune system differently in young and aged rats. International Immunopharmacology, 2021, 100, 108141.	3.8	2
84	Variation of Pharmacokinetic Profiles of Some Antidiabetic Drugs from Nanostructured Formulations Administered Through Pulmonary Route. Current Drug Metabolism, 2016, 17, 271-278.	1.2	2
85	Epididymal protein ASF is a d-galactose-specific lectin with apoptotic effect on human breast cancer cell line MCF7. International Journal of Biological Macromolecules, 2016, 84, 208-220.	7.5	1
86	Pulmonary Administration of Biodegradable Drug Nanocarriers for More Efficacious Treatment of Fungal Infections in Lungs: Insights Based on Recent Findings. , 2017, , 261-280.		0
87	Transdermal Nanomedicines for Reduction of Dose and Site-Specific Drug Delivery. , 2020, , 175-211.		0
88	Development and Characterization of Triple Action-Dental Mold. Current Research in Dentistry, 2020, 2, 60-69.	1.0	0
89	Conventional and Nonconventional Approaches to Site-Specific Targeting of Nanotherapeutics in Some Infectious Diseases and Metabolic Disorders. , 2020, , 111-132.		0
90	Recent Trends for Nanomedicine Safety. , 2020, , 469-509.		0

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91	Pharmacokinetic Sample Collection and Processing. , 2022, , 175-184.		0
92	Pharmacokinetic Laboratory-Based Experiments. , 2022, , 233-285.		0