

Roderick Bryan Walker

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

1,489
citations

21
h-index

36
g-index

76
ext. papers

1,758
ext. citations

4.6
avg, IF

4.9
L-index

#	Paper	IF	Citations
72	The role of percutaneous penetration enhancers. <i>Advanced Drug Delivery Reviews</i> , 1996 , 18, 295-301	18.5	141
71	Analysis of macrolide antibiotics. <i>Journal of Chromatography A</i> , 1998 , 812, 255-86	4.5	131
70	A stability-indicating high performance liquid chromatographic (HPLC) assay for the simultaneous determination of atorvastatin and amlodipine in commercial tablets. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 846, 215-21	3.2	100
69	Should active recruitment of health workers from sub-Saharan Africa be viewed as a crime?. <i>Lancet, The</i> , 2008 , 371, 685-688	4.0	84
68	Selection and characterization of suitable lipid excipients for use in the manufacture of didanosine-loaded solid lipid nanoparticles and nanostructured lipid carriers. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 5185-96	3.9	79
67	The identification of the UV degradants of melatonin and their ability to scavenge free radicals. <i>Journal of Pineal Research</i> , 2002 , 32, 257-61	10.4	56
66	Amoxicillin Removal from Aqueous Media Using Multi-Walled Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015 , 23, 165-169	1.8	50
65	Preparation and characterization of isoniazid-loaded crude soybean lecithin liposomes. <i>International Journal of Pharmaceutics</i> , 2017 , 526, 466-473	6.5	38
64	The use of experimental design in the development of an HPLC-ECD method for the analysis of captopril. <i>Talanta</i> , 2011 , 83, 1037-49	6.2	38
63	The use of hot and cold high pressure homogenization to enhance the loading capacity and encapsulation efficiency of nanostructured lipid carriers for the hydrophilic antiretroviral drug, didanosine for potential administration to paediatric patients. <i>Pharmaceutical Development and Technology</i> , 2012 , 17, 353-62	3.4	36
62	In vitro release kinetics of antituberculosis drugs from nanoparticles assessed using a modified dissolution apparatus. <i>BioMed Research International</i> , 2013 , 2013, 136590	3	35
61	Synthesis and characterization of ZnO nanoparticle synthesized by a microwave-assisted combustion method and catalytic activity for the removal of ortho-nitrophenol. <i>Desalination and Water Treatment</i> , 2015 , 54, 1939-1948		32
60	Short Term Stability Testing of Efavirenz-Loaded Solid Lipid Nanoparticle (SLN) and Nanostructured Lipid Carrier (NLC) Dispersions. <i>Pharmaceutics</i> , 2019 , 11,	6.4	32
59	A stability-indicating high performance liquid chromatographic assay for the determination of orlistat in capsules. <i>Journal of Chromatography A</i> , 2006 , 1116, 153-7	4.5	32
58	6-Hydroxymelatonin protects against cyanide induced oxidative stress in rat brain homogenates. <i>Journal of Chemical Neuroanatomy</i> , 2003 , 26, 103-7	3.2	32
57	A sensitive and reliable method for the detection of lipid peroxidation in biological tissues. <i>Journal of Pharmacy and Pharmacology</i> , 2001 , 53, 263-6	4.8	31
56	Formulation development and in vitro evaluation of didanosine-loaded nanostructured lipid carriers for the potential treatment of AIDS dementia complex. <i>Drug Development and Industrial Pharmacy</i> , 2011 , 37, 396-407	3.6	28

55	Evaluation of the proposed FDA pilot dose-response methodology for topical corticosteroid bioequivalence testing. <i>Pharmaceutical Research</i> , 1997 , 14, 303-8	4.5	26
54	An Artificial Neural Network Approach to Predict the Effects of Formulation and Process Variables on Prednisone Release from a Multipartite System. <i>Pharmaceutics</i> , 2019 , 11,	6.4	23
53	The determination of acetaminophen using a carbon nanotube:graphite-based electrode. <i>Mikrochimica Acta</i> , 2010 , 171, 377-384	5.8	23
52	Cyanide-induced free radical production and lipid peroxidation in rat brain homogenate is reduced by aspirin. <i>Metabolic Brain Disease</i> , 2000 , 15, 203-10	3.9	23
51	Swelling, erosion and drug release characteristics of salbutamol sulfate from hydroxypropyl methylcellulose-based matrix tablets. <i>Drug Development and Industrial Pharmacy</i> , 2010 , 36, 1497-510	3.6	21
50	Evaluation of the in vitro differential protein adsorption patterns of didanosine-loaded nanostructured lipid carriers (NLCs) for potential targeting to the brain. <i>Journal of Liposome Research</i> , 2011 , 21, 245-54	6.1	20
49	Optimization of Salbutamol Sulfate Dissolution from Sustained Release Matrix Formulations Using an Artificial Neural Network. <i>Pharmaceutics</i> , 2010 , 2, 182-198	6.4	20
48	The effect of variations in pH and temperature on stability of melatonin in aqueous solution. <i>Journal of Pineal Research</i> , 2001 , 31, 155-8	10.4	19
47	pH-Dependent release of isoniazid from isonicotinic acid (4-hydroxy-benzylidene)-hydrazide loaded liposomes. <i>Journal of Drug Delivery Science and Technology</i> , 2018 , 45, 264-271	4.5	15
46	A capillary zone electrophoresis (CZE) method for the determination of cyclizine hydrochloride in tablets and suppositories. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004 , 35, 233-9	3.5	15
45	Nano-Biomimetic Drug Delivery Vehicles: Potential Approaches for COVID-19 Treatment. <i>Molecules</i> , 2020 , 25,	4.8	15
44	Development and validation of a stability-indicating method for the quantitation of Paclitaxel in pharmaceutical dosage forms. <i>Journal of Chromatographic Science</i> , 2009 , 47, 599-604	1.4	13
43	Development and validation of a stability-indicating analytical method for the quantitation of oxytocin in pharmaceutical dosage forms. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 43, 179-85	3.5	13
42	Biocompatibility of Biomaterials for Nanoencapsulation: Current Approaches. <i>Nanomaterials</i> , 2020 , 10,	5.4	13
41	Evaluation of rate of swelling and erosion of verapamil (VRP) sustained-release matrix tablets. <i>Drug Development and Industrial Pharmacy</i> , 2006 , 32, 1139-48	3.6	12
40	Quantitation of zolpidem in biological fluids by electro-driven microextraction combined with HPLC-UV analysis. <i>EXCLI Journal</i> , 2018 , 17, 349-361	2.4	12
39	Encapsulation and physicochemical evaluation of efavirenz in liposomes. <i>Journal of Pharmaceutical Investigation</i> , 2020 , 50, 201-208	6.3	12
38	Forced degradation studies of clobetasol 17-propionate in methanol, propylene glycol, as bulk drug and cream formulations by RP-HPLC. <i>Journal of Separation Science</i> , 2013 , 36, 849-56	3.4	11

37	An LC-MS-MS method for the determination of cyclizine in human serum. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005 , 824, 148-52	3.2	11
36	An investigation into the neuroprotective properties of ibuprofen. <i>Metabolic Brain Disease</i> , 2000 , 15, 249-56	3.9	11
35	Quality by Design Optimization of Cold Sonochemical Synthesis of Zidovudine-Lamivudine Nanosuspensions. <i>Pharmaceutics</i> , 2020 , 12,	6.4	10
34	Analysis of chromameter results obtained from corticosteroid-induced skin blanching. I: Manipulation of data. <i>Pharmaceutical Research</i> , 1998 , 15, 280-5	4.5	10
33	Design, Optimization, Manufacture and Characterization of Efavirenz-Loaded Flaxseed Oil Nanoemulsions. <i>Pharmaceutics</i> , 2020 , 12,	6.4	10
32	The use of response surface methodology for the formulation and optimization of salbutamol sulfate hydrophilic matrix sustained release tablets. <i>Pharmaceutical Development and Technology</i> , 2012 , 17, 594-606	3.4	9
31	A Comparative Study of the Effect of Different Stabilizers on the Critical Quality Attributes of Self-Assembling Nano Co-Crystals. <i>Pharmaceutics</i> , 2020 , 12,	6.4	8
30	The use of response surface methodology in the evaluation of captopril microparticles manufactured using an oil in oil solvent evaporation technique. <i>Journal of Microencapsulation</i> , 2012 , 29, 39-53	3.4	8
29	High-performance liquid chromatographic analysis of cyclizine and its metabolite, norcyclizine in biological fluids using solid phase extraction. <i>Chromatographia</i> , 1987 , 24, 287-290	2.1	8
28	Enhancement of Biological and Pharmacological Properties of an Encapsulated Polyphenol: Curcumin. <i>Molecules</i> , 2021 , 26,	4.8	8
27	Nano Co-Crystal Embedded Stimuli-Responsive Hydrogels: A Potential Approach to Treat HIV/AIDS. <i>Pharmaceutics</i> , 2021 , 13,	6.4	8
26	Simultaneous liposomal encapsulation of antibiotics and proteins: Co-loading and characterization of rifampicin and Human Serum Albumin in soy-liposomes. <i>Journal of Drug Delivery Science and Technology</i> , 2020 , 58, 101751	4.5	7
25	The Evaluation of Eudragit Microcapsules Manufactured by Solvent Evaporation Using USP Apparatus 1. <i>Dissolution Technologies</i> , 2009 , 16, 15-22	1.7	7
24	Muco-adhesive clarithromycin-loaded nanostructured lipid carriers for ocular delivery: Formulation, characterization, cytotoxicity and stability. <i>Journal of Drug Delivery Science and Technology</i> , 2021 , 61, 102171	4.5	7
23	HPLC Method for Simultaneous Analysis of Ranitidine and Metronidazole in Dosage Forms. <i>Asian Journal of Chemistry</i> , 2014 , 26, 426-430	0.4	6
22	In Vitro Dissolution Kinetics of Captopril from Microspheres Manufactured by Solvent Evaporation. <i>Dissolution Technologies</i> , 2012 , 19, 42-51	1.7	6
21	Assessment of taste masking of captopril by ion-exchange resins using electronic gustatory system. <i>Pharmaceutical Development and Technology</i> , 2020 , 25, 281-289	3.4	6
20	The use of quantitative analysis and Hansen solubility parameter predictions for the selection of excipients for lipid nanocarriers to be loaded with water soluble and insoluble compounds. <i>Saudi Pharmaceutical Journal</i> , 2020 , 28, 308-315	4.4	5

19	Electro-oxidation of acetaminophen on nickel/poly(o-aminophenol)/multi-walled carbon nanotube nanocomposite modified graphite electrode. <i>Micro and Nano Letters</i> , 2014 , 9, 691-696	0.9	5
18	Top-Down Synthesis of a Lamivudine-Zidovudine Nano Co-Crystal. <i>Crystals</i> , 2021 , 11, 33	2.3	5
17	The impact of manufacturing variables on in vitro release of clobetasol 17-propionate from pilot scale cream formulations. <i>Drug Development and Industrial Pharmacy</i> , 2014 , 40, 1683-92	3.6	4
16	An assessment of the efficacy of two lysine microencapsulation techniques to determine the quantitative lysine requirement of the South African abalone, <i>Haliotis midae</i> L.. <i>Aquaculture Nutrition</i> , 2002 , 8, 221-227	3.2	4
15	Pharmacokinetics of cyclizine following intravenous administration to human volunteers. <i>European Journal of Pharmaceutical Sciences</i> , 1996 , 4, 301-306	5.1	4
14	The Evaluation of Eudragit Microcapsules Manufactured by Solvent Evaporation Using USP Apparatus 1. <i>Dissolution Technologies</i> , 2009 , 16, 15-22	1.7	4
13	Improved Stability of Rifampicin in the Presence of Gastric-Resistant Isoniazid Microspheres in Acidic Media. <i>Pharmaceutics</i> , 2020 , 12,	6.4	3
12	Electropolymerized fluorinated aniline-based fiber for headspace solid-phase microextraction and gas chromatographic determination of benzaldehyde in injectable pharmaceutical formulations. <i>Journal of Chromatographic Science</i> , 2014 , 52, 971-6	1.4	3
11	Bioequivalence Assessment of Generic Products: An Innovative South African Approach. <i>Clinical Research and Regulatory Affairs</i> , 2006 , 23, 11-20		3
10	Co-encapsulation of Rifampicin and Isoniazid in Crude Soybean Lecithin Liposomes. <i>South African Journal of Chemistry</i> , 2019 , 72, 80-87	1.8	3
9	Formulation optimization of smart thermosetting lamotrigine loaded hydrogels using response surface methodology, box behken design and artificial neural networks. <i>Drug Development and Industrial Pharmacy</i> , 2020 , 46, 1402-1415	3.6	3
8	Formulation and Characterisation of a Combination Captopril and Hydrochlorothiazide Microparticulate Dosage Form. <i>Pharmaceutics</i> , 2020 , 12,	6.4	2
7	The impact of formulation variables on the optimization of pilot scale clobetasol 17-propionate creams. <i>Cogent Engineering</i> , 2020 , 7, 1804713	1.5	2
6	Ultrasound-Triggered Release of 5-Fluorouracil from Soy Lecithin Echogenic Liposomes. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
5	Stability Indicating HPLC-ECD Method for the Analysis of Clarithromycin in Pharmaceutical Dosage Forms: Method Scaling versus Re-Validation. <i>Scientia Pharmaceutica</i> , 2019 , 87, 31	4.3	2
4	Cyanide-Induced Free Radical Production and Lipid Peroxidation in Rat Brain Homogenate is Reduced by Aspirin. <i>Metabolic Brain Disease</i> , 2000 , 15, 203-210	3.9	1
3	Response to the manuscript titled "An assessment of the potency related to Cannabis-based products in the South African market" by H.J. Viviers et al. FSI 322 (2021) 110754. <i>Forensic Science International</i> , 2021 , 327, 110933	2.6	1
2	Application of the Minolta Chromameter to the Assessment of Corticosteroid-Induced Skin Blanching 2000 , 295-305		

- 1 Science and Practice of Microencapsulation Technology. *Advances in Delivery Science and Technology*, **2017**, 119-154