

Melgardt M De Villiers

List of Publications by Year in descending order

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29
papers

1,022
citations

623734

14
h-index

477307

29
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31
all docs

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docs citations

31
times ranked

1738
citing authors

#	ARTICLE	IF	CITATIONS
1	Introduction to nanocoatings produced by layer-by-layer (LbL) self-assembly. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 701-715.	13.7	331
2	Paclitaxel Encapsulated in Halloysite Clay Nanotubes for Intestinal and Intracellular Delivery. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3131-3139.	3.3	98
3	Application of halloysite clay nanotubes as a pharmaceutical excipient. <i>International Journal of Pharmaceutics</i> , 2017, 521, 267-273.	5.2	94
4	Characterization of the Solubility and Dissolution Properties of Several New Rifampicin Polymorphs, Solvates, and Hydrates. <i>Drug Development and Industrial Pharmacy</i> , 2001, 27, 1017-1030.	2.0	79
5	Variable-temperature X-ray powder diffraction analysis of the crystal transformation of the pharmaceutically preferred polymorph C of mebendazole. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 38, 435-441.	2.8	53
6	Layer-by-layer self-assembled nanoshells for drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 699-700.	13.7	45
7	Poly(amidoamine) Dendrimers as a Pharmaceutical Excipient. Are We There yet?. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 75-83.	3.3	41
8	The Dissolution and Complexing Properties of Ibuprofen and Ketoprofen when Mixed with N-Methylglucamine. <i>Drug Development and Industrial Pharmacy</i> , 1999, 25, 967-972.	2.0	26
9	Preparation and characterization of directly compactible layer-by-layer nanocoated cellulose. <i>International Journal of Pharmaceutics</i> , 2011, 404, 57-65.	5.2	26
10	Layer-by-Layer Nanocoating of Antiviral Polysaccharides on Surfaces to Prevent Coronavirus Infections. <i>Molecules</i> , 2020, 25, 3415.	3.8	25
11	Comparison of the Physical and Chemical Stability of Niclosamide Crystal Forms in Aqueous Versus Nonaqueous Suspensions. <i>Drug Development and Industrial Pharmacy</i> , 2004, 30, 581-592.	2.0	22
12	Influence of the Composition of Water/Ethanol Mixtures on the Solubility and Recrystallization of Nevirapine. <i>Crystal Growth and Design</i> , 2010, 10, 3859-3868.	3.0	18
13	Self-assembled macromolecular nanocoatings to stabilize and control drug release from nanoparticles. <i>Powder Technology</i> , 2014, 256, 470-476.	4.2	18
14	Why is the nanoscale special (or not)? Fundamental properties and how it relates to the design of nano-enabled drug delivery systems. <i>Nanotechnology Reviews</i> , 2013, 2, 171-199.	5.8	17
15	Physicochemical Characterization of Hydrated 4-Sulphonato-Calix[n]arenes: Thermal, Structural, and Sorption Properties. <i>Supramolecular Chemistry</i> , 2005, 17, 485-496.	1.2	14
16	Crystallization of Toxic Glycol Solvates of Rifampin from Glycerin and Propylene Glycol Contaminated with Ethylene Glycol or Diethylene Glycol. <i>Molecular Pharmaceutics</i> , 2011, 8, 877-888.	4.6	14
17	Solid State Concerns During Drug Discovery and Development: Thermodynamic and Kinetic Aspects of Crystal Polymorphism and the Special Cases of Concomitant Polymorphs, Co-Crystals and Glasses. <i>Current Drug Discovery Technologies</i> , 2017, 14, 72-105.	1.2	14
18	Polymorphism of the Antitubercular Isoxyl. <i>Crystal Growth and Design</i> , 2011, 11, 4950-4957.	3.0	13

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19	Photostability of Crystalline Versus Amorphous Nifedipine and Nimodipine. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 1883-1894.	3.3	13
20	Dissipative Particle Dynamics Investigation of the Transport of Salicylic Acid through a Simulated In Vitro Skin Permeation Model. <i>Pharmaceuticals</i> , 2018, 11, 134.	3.8	11
21	All-atomistic molecular dynamics (AA-MD) studies and pharmacokinetic performance of PAMAM-dendrimer-furosemide delivery systems. <i>International Journal of Pharmaceutics</i> , 2018, 547, 545-555.	5.2	10
22	Application of Size Exclusion Chromatography in the Development and Characterization of Nanoparticulate Drug Delivery Systems. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2007, 30, 2489-2514.	1.0	7
23	Effects of the cosurfactant 1-butanol and feed composition on nanoparticle properties produced by microemulsion copolymerization of styrene and methyl methacrylate. <i>Journal of Applied Polymer Science</i> , 2008, 107, 3950-3962.	2.6	7
24	Structural Characterization, Physicochemical Properties, Suspension Stability, and Adsorption Properties of Four Solid Forms of Amitraz. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 7362-7369.	5.2	5
25	Coarse-Grained Molecular Dynamics (CG-MD) Simulation of the Encapsulation of Dexamethasone in PSS/PDDA Layer-by-Layer Assembled Polyelectrolyte Nanocapsules. <i>AAPS PharmSciTech</i> , 2020, 21, 292.	3.3	5
26	In Vitro Skin Delivery of Griseofulvin by Layer-by-Layer Nanocoated Emulsions Stabilized by Whey Protein and Polysaccharides. <i>Pharmaceutics</i> , 2022, 14, 554.	4.5	5
27	Development and Validation of an HPLC Method Involving Solid-Phase Extraction for the Analysis of Hydrophobic Drugs in the Presence of Polyamidoamine (PAMAM) Dendrimers. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2005, 28, 2325-2338.	1.0	3
28	Isothermal and Dynamic Microcalorimetry for Quantifying the Crystallization of an Amorphous Drug during Interactive Powder Mixing. <i>Particulate Science and Technology</i> , 2005, 23, 323-334.	2.1	2
29	The Relationship Between Surface Adsorption and the Hydrolysis of Amitraz in Anionic Surfactant Solutions. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2005, 40, 215-231.	1.5	1