Leena J Peltonen

List of Publications by Year
in descending order

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69 papers	3,300 citations	147801 31 h-index	144013 57 g-index
73 all docs	73 docs citations	73 times ranked	4009 citing authors

#	Article	IF	Citations
1	Pharmaceutical nanocrystals by nanomilling: critical process parameters, particle fracturing and stabilization methods. Journal of Pharmacy and Pharmacology, 2010, 62, 1569-1579.	2.4	296
2	Drug release from nanoparticles embedded in four different nanofibrillar cellulose aerogels. European Journal of Pharmaceutical Sciences, 2013, 50, 69-77.	4.0	209
3	Nanosuspensions of poorly soluble drugs: Preparation and development by wet milling. International Journal of Pharmaceutics, 2011, 411, 215-222.	5.2	181
4	Stabilizing Agents for Drug Nanocrystals: Effect on Bioavailability. Pharmaceutics, 2016, 8, 16.	4.5	161
5	Electrospray Encapsulation of Hydrophilic and Hydrophobic Drugs in Poly(<scp>L</scp>â€lactic acid) Nanoparticles. Small, 2009, 5, 1791-1798.	10.0	134
6	Immobilization of protein-coated drug nanoparticles in nanofibrillar cellulose matricesâ€"Enhanced stability and release. Journal of Controlled Release, 2011, 156, 390-397.	9.9	128
7	Electrospraying, spray drying and related techniques for production and formulation of drug nanoparticles. Expert Opinion on Drug Delivery, 2010, 7, 705-719.	5.0	123
8	Multifunctional Hydrophobin: Toward Functional Coatings for Drug Nanoparticles. ACS Nano, 2010, 4, 1750-1758.	14.6	121
9	Indomethacin: New Polymorphs of an Old Drug. Molecular Pharmaceutics, 2013, 10, 4472-4480.	4.6	120
10	Dissolution Studies of Poorly Soluble Drug Nanosuspensions in Non-sink Conditions. AAPS PharmSciTech, 2013, 14, 748-756.	3.3	103
11	Drug nanocrystals â€“ Versatile option for formulation of poorly soluble materials. International Journal of Pharmaceutics, 2018, 537, 73-83.	5.2	103
12	Brinzolamide nanocrystal formulations for ophthalmic delivery: Reduction of elevated intraocular pressure in vivo. International Journal of Pharmaceutics, 2014, 467, 34-41.	5.2	99
13	In Situ Measurement of Solvent-Mediated Phase Transformations During Dissolution Testing. Journal of Pharmaceutical Sciences, 2006, 95, 2730-2737.	3.3	87
14	Genome-wide association study identifies 48 common genetic variants associated with handedness. Nature Human Behaviour, 2021, 5, 59-70.	12.0	79
15	Practical guidelines for the characterization and quality control of pure drug nanoparticles and nano-cocrystals in the pharmaceutical industry. Advanced Drug Delivery Reviews, 2018, 131, 101-115.	13.7	71
16	Nanocrystal-based per-oral itraconazole delivery: Superior in vitro dissolution enhancement versus SporanoxÂ® is not realized in in vivo drug absorption. Journal of Controlled Release, 2014, 180, 109-116.	9.9	63
17	The effect of cosolvents on the formulation of nanoparticles from low-molecular-weight poly(l)lactide. AAPS PharmSciTech, 2002, 3, E32.	3.3	62
18	Design Space and QbD Approach for Production of Drug Nanocrystals by Wet Media Milling Techniques. Pharmaceutics, 2018, 10, 104.	4.5	51

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19	Solvent-Mediated Solid Phase Transformations of cArbamazepine: Effects of Simulated Intestinal Fluid and Fasted State Simulated Intestinal Fluid. Journal of Pharmaceutical Sciences, 2009, 98, 985-996.	3.3	49
20	Development and in-vitro characterization of sorbitan monolaurate and poloxamer 184 based niosomes for oral delivery of diacerein. European Journal of Pharmaceutical Sciences, 2016, 95, 88-95.	4.0	46
21	Process optimization of ecological probe sonication technique for production of rifampicin loaded niosomes. Journal of Drug Delivery Science and Technology, 2019, 50, 27-33.	3.0	46
22	Improved entrapment efficiency of hydrophilic drug substance during nanoprecipitation of poly(l)lactide nanoparticles. AAPS PharmSciTech, 2004, 5, 115-120.	3.3	42
23	Intact Nanoparticulate Indomethacin in Fast-Dissolving Carrier Particles by Combined Wet Milling and Aerosol Flow Reactor Methods. Pharmaceutical Research, 2011, 28, 2403-2411.	3.5	41
24	Layer-by-layer polyelectrolyte coating of low molecular weight poly(lactic acid) nanoparticles. Colloids and Surfaces B: Biointerfaces, 2006, 49, 93-99.	5.0	40
25	Dissolution study of nanocrystal powders of a poorly soluble drug by UV imaging and channel flow methods. European Journal of Pharmaceutical Sciences, 2013, 50, 511-519.	4.0	38
26	Interaction Studies Between Indomethacin Nanocrystals and PEO/PPO Copolymer Stabilizers. Pharmaceutical Research, 2015, 32, 628-639.	3.5	38
27	Environmentally-compatible alkyd paints stabilized by wood hemicelluloses. Industrial Crops and Products, 2019, 133, 212-220.	5.2	37
28	The Effect of Temperature on Sorbitan Surfactant Monolayers. Journal of Colloid and Interface Science, 2001, 239, 134-138.	9.4	36
29	Improved entrapment efficiency of hydrophilic drug substance during nanoprecipitation of poly(l)lactide nanoparticles. AAPS PharmSciTech, 2004, 5, 115-120.	3.3	35
30	Physicochemical Characterization of Nano- and Microparticles. Current Nanoscience, 2008, 4, 101-107.	1.2	32
31	Understanding Critical Quality Attributes for Nanocrystals from Preparation to Delivery. Molecules, 2015, 20, 22286-22300.	3.8	32
32	Ultrasonic Processing Technique as a Green Preparation Approach for Diacerein-Loaded Niosomes. AAPS PharmSciTech, 2017, 18, 1554-1563.	3.3	32
33	Nanoparticles containing ketoprofen and acrylic polymers prepared by an aerosol flow reactor method. AAPS PharmSciTech, 2004, 5, 129-137.	3.3	31
34	The effect of surfactants on the dissolution behavior of amorphous formulations. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 103, 13-22.	4.3	31
35	Production, applications and inÂvivo fate of drug nanocrystals. Journal of Drug Delivery Science and Technology, 2016, 34, 21-31.	3.0	30
36	3D Printing of Drug Nanocrystals for Film Formulations. Molecules, 2021, 26, 3941.	3.8	29

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37	Degrees of order: A comparison of nanocrystal and amorphous solids for poorly soluble drugs. International Journal of Pharmaceutics, 2020, 586, 119492.	5.2	28
38	Centrifugal fractionation of softwood extracts improves the biorefinery workflow and yields functional emulsifiers. Green Chemistry, 2019, 21, 4691-4705.	9.0	27
39	Dissolution testing of acetylsalicylic acid by a channel flow methodâ€"correlation to USP basket and intrinsic dissolution methods. European Journal of Pharmaceutical Sciences, 2003, 19, 395-401.	4.0	26
40	Unravelling the Relationship between Degree of Disorder and the Dissolution Behavior of Milled Glibenclamide. Molecular Pharmaceutics, 2014, 11, 234-242.	4.6	25
41	Solid formulations by a nanocrystal approach: Critical process parameters regarding scale-ability of nanocrystals for tableting applications. International Journal of Pharmaceutics, 2015, 485, 77-86.	5.2	24
42	Understanding Dissolution and Crystallization with Imaging: A Surface Point of View. Molecular Pharmaceutics, 2018, 15, 5361-5373.	4.6	24
43	Formulation optimization and in vitro characterization of rifampicin and ceftriaxone dual drug loaded niosomes with high energy probe sonication technique. Journal of Drug Delivery Science and Technology, 2020, 58, 101763.	3.0	23
44	Coated particle assemblies for the concomitant pulmonary administration of budesonide and salbutamol sulphate. International Journal of Pharmaceutics, 2013, 441, 248-254.	5.2	22
45	Nanosuspensions of a poorly soluble investigational molecule ODM-106: Impact of milling bead diameter and stabilizer concentration. International Journal of Pharmaceutics, 2020, 587, 119636.	5.2	22
46	Differential scanning calorimetry predicts the critical quality attributes of amorphous glibenclamide. European Journal of Pharmaceutical Sciences, 2015, 80, 74-81.	4.0	20
47	Multimodal Nonlinear Optical Imaging for Sensitive Detection of Multiple Pharmaceutical Solid-State Forms and Surface Transformations. Analytical Chemistry, 2017, 89, 11460-11467.	6.5	20
48	Olive oil and clove oil-based nanoemulsion for topical delivery of terbinafine hydrochloride: inÂvitro and ex vivo evaluation. Drug Delivery, 2022, 29, 600-612.	5.7	20
49	Simultaneous measurement of liquid-phase and solid-phase transformation kinetics in rotating disc and channel flow cell dissolution devices. International Journal of Pharmaceutics, 2008, 363, 66-72.	5.2	18
50	Surface Stabilization and Dissolution Rate Improvement of Amorphous Compacts with Thin Polymer Coatings: Can We Have It All?. Molecular Pharmaceutics, 2020, 17, 1248-1260.	4.6	18
51	Multimodal non-linear optical imaging for the investigation of drug nano-/microcrystalâ€"cell interactions. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 96, 338-348.	4.3	16
52	Elucidation of Compression-Induced Surface Crystallization in Amorphous Tablets Using Sum Frequency Generation (SFG) Microscopy. Pharmaceutical Research, 2017, 34, 957-970.	3.5	15
53	Utilization of green formulation technique and efficacy estimation on cell line studies for dual anticancer drug therapy with niosomes. International Journal of Pharmaceutics, 2019, 572, 118764.	5.2	13
54	Submission of Rifaximin to Different Techniques: Characterization, Solubility Study, and Microbiological Evaluation. AAPS PharmSciTech, 2019, 20, 125.	3.3	13

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55	High-Generation Amphiphilic Janus-Dendrimers as Stabilizing Agents for Drug Suspensions. Biomacromolecules, 2018, 19, 3983-3993.	5.4	11
56	Valorization of Native Soluble and Insoluble Oat Side Streams for Stable Suspensions and Emulsions. Food and Bioprocess Technology, 2021, 14, 751-764.	4.7	11
57	Production of Itraconazole Nanocrystal-Based Polymeric Film Formulations for Immediate Drug Release. Pharmaceutics, 2020, 12, 960.	4.5	10
58	Effect of texture on the intrinsic dissolution behaviour of acetylsalicylic acid and tolbutamide compacts. Journal of Applied Crystallography, 2007, 40, 857-864.	4.5	7
59	Principles of nanosized drug delivery systems. , 2020, , 3-25.		6
60	Combined Effect of the Preparation Method and Compression on the Physical Stability and Dissolution Behavior of Melt-Quenched Amorphous Celecoxib. Molecular Pharmaceutics, 2021, 18, 1408-1418.	4.6	6
61	Insights into Caco-2 cell culture structure using coherent anti-Stokes Raman scattering (CARS) microscopy. International Journal of Pharmaceutics, 2017, 523, 270-280.	5.2	5
62	Cellâ€Nanoparticle Interactions at (Sub)â€“Nanometer Resolution Analyzed by Electron Microscopy and Correlative Coherent Antiâ€Stokes Raman Scattering. Biotechnology Journal, 2019, 14, 1800413.	3.5	5
63	Aerosol-processed polymeric drug nanoparticles for sustained and triggered drug release. Journal of Controlled Release, 2010, 148, e52-e53.	9.9	2
64	Analytical tools for reliable in vitro and in vivo performance testing of drug nanocrystals. , 2018, , 441-477.		2
65	Nonresonant CARS Imaging of Porous and Solid Silicon Nanoparticles in Human Cells. ACS Biomaterials Science and Engineering, 2022, 8, 4185-4195.	5.2	2
66	Nanoparticle-based oral formulation can surprise you with inferior in vivo absorption in humans. European Journal of Pharmaceutics and Biopharmaceutics, 2022, 177, 91-99.	4.3	1
67	Editorial, Special Issue BBBB. European Journal of Pharmaceutical Sciences, 2016, 95, 1.	4.0	0
68	Short-Stability Study of Rifaximin-Based Samples. Journal of AOAC INTERNATIONAL, 2020, 103, 743-746.	1.5	0
69	Drug Nanocrystals. , 2013, , 277-297.		0