

# Jukka Rantanen

## List of Publications by Year in descending order

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514  
papers

24,019  
citations

6250

80  
h-index

18633

119  
g-index

525  
all docs

525  
docs citations

525  
times ranked

15792  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging trends in the stabilization of amorphous drugs. <i>International Journal of Pharmaceutics</i> , 2013, 453, 65-79.	2.6	360
2	Recent advances in co-amorphous drug formulations. <i>Advanced Drug Delivery Reviews</i> , 2016, 100, 116-125.	6.6	350
3	Terahertz pulsed spectroscopy and imaging in the pharmaceutical setting - a review. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 59, 209-223.	1.2	330
4	Using Terahertz Pulsed Spectroscopy to Quantify Pharmaceutical Polymorphism and Crystallinity. <i>Journal of Pharmaceutical Sciences</i> , 2005, 94, 837-846.	1.6	326
5	The Future of Pharmaceutical Manufacturing Sciences. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 3612-3638.	1.6	303
6	Coamorphous Drug Systems: Enhanced Physical Stability and Dissolution Rate of Indomethacin and Naproxen. <i>Molecular Pharmaceutics</i> , 2011, 8, 1919-1928.	2.3	302
7	New perspectives on lipid and surfactant based drug delivery systems for oral delivery of poorly soluble drugs. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 62, 1622-1636.	1.2	246
8	Amino acids as co-amorphous stabilizers for poorly water soluble drugs – Part 1: Preparation, stability and dissolution enhancement. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 873-881.	2.0	246
9	Solid form screening – A review. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 71, 23-37.	2.0	237
10	Enhanced dissolution rate and synchronized release of drugs in binary systems through formulation: Amorphous naproxen–cimetidine mixtures prepared by mechanical activation. <i>Journal of Controlled Release</i> , 2009, 136, 45-53.	4.8	236
11	An overview of recent studies on the analysis of pharmaceutical polymorphs. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 55, 618-644.	1.4	233
12	Raman spectroscopy in pharmaceutical product design. <i>Advanced Drug Delivery Reviews</i> , 2015, 89, 3-20.	6.6	221
13	Using terahertz pulsed spectroscopy to study crystallinity of pharmaceutical materials. <i>Chemical Physics Letters</i> , 2004, 390, 20-24.	1.2	217
14	Characterization of glass solutions of poorly water-soluble drugs produced by melt extrusion with hydrophilic amorphous polymers. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 53, 303-315.	1.2	205
15	Co-amorphous simvastatin and glipizide combinations show improved physical stability without evidence of intermolecular interactions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 81, 159-169.	2.0	197
16	Raman spectroscopy for quantitative analysis of pharmaceutical solids. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 59, 179-192.	1.2	196
17	High loading efficiency and sustained release of siRNA encapsulated in PLGA nanoparticles: Quality by design optimization and characterization. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 77, 26-35.	2.0	191
18	Analysis of Coating Structures and Interfaces in Solid Oral Dosage Forms by Three Dimensional Terahertz Pulsed Imaging. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 330-340.	1.6	179

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19	Physical characterization and stability of amorphous indomethacin and ranitidine hydrochloride binary systems prepared by mechanical activation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 71, 47-54.	2.0	179
20	Analysis of solid-state transformations of pharmaceutical compounds using vibrational spectroscopy. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 61, 971-988.	1.2	179
21	Cell-penetrating peptides for drug delivery across membrane barriers. <i>Expert Opinion on Drug Delivery</i> , 2008, 5, 105-117.	2.4	177
22	Spray drying of siRNA-containing PLGA nanoparticles intended for inhalation. <i>Journal of Controlled Release</i> , 2010, 142, 138-145.	4.8	176
23	Structural investigations on nanoemulsions, solid lipid nanoparticles and nanostructured lipid carriers by cryo-field emission scanning electron microscopy and Raman spectroscopy. <i>International Journal of Pharmaceutics</i> , 2006, 314, 56-62.	2.6	170
24	The adjuvant mechanism of cationic dimethyldioctadecylammonium liposomes. <i>Immunology</i> , 2007, 121, 216-226.	2.0	167
25	Design of an inhalable dry powder formulation of DOTAP-modified PLGA nanoparticles loaded with siRNA. <i>Journal of Controlled Release</i> , 2012, 157, 141-148.	4.8	162
26	Anti-tuberculosis drug combination for controlled oral delivery using 3D printed compartmental dosage forms: From drug product design to in vivo testing. <i>Journal of Controlled Release</i> , 2017, 268, 40-48.	4.8	154
27	Amino acids as co-amorphous stabilizers for poorly water-soluble drugs – Part 2: Molecular interactions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 882-888.	2.0	153
28	Preparation of glass solutions of three poorly water soluble drugs by spray drying, melt extrusion and ball milling. <i>International Journal of Pharmaceutics</i> , 2007, 336, 22-34.	2.6	149
29	Rheology as a tool for evaluation of melt processability of innovative dosage forms. <i>International Journal of Pharmaceutics</i> , 2015, 494, 623-642.	2.6	147
30	Design space approach in the optimization of the spray-drying process. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 80, 226-234.	2.0	138
31	Intestinal mucosa permeability following oral insulin delivery using core shell corona nanoliposomes. <i>Biomaterials</i> , 2013, 34, 9678-9687.	5.7	137
32	Drug hydrate systems and dehydration processes studied by terahertz pulsed spectroscopy. <i>International Journal of Pharmaceutics</i> , 2007, 334, 78-84.	2.6	134
33	Use of In-Line Near-Infrared Spectroscopy in Combination with Chemometrics for Improved Understanding of Pharmaceutical Processes. <i>Analytical Chemistry</i> , 2005, 77, 556-563.	3.2	132
34	Precipitation of a Poorly Soluble Model Drug during In Vitro Lipolysis: Characterization and Dissolution of the Precipitate. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 4982-4991.	1.6	131
35	Three-Dimensional Printing of Drug-Eluting Implants: Preparation of an Antimicrobial Polylactide Feedstock Material. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 1099-1107.	1.6	131
36	Characterization of Temperature-Induced Phase Transitions in Five Polymorphic Forms of Sulfathiazole by Terahertz Pulsed Spectroscopy and Differential Scanning Calorimetry. <i>Journal of Pharmaceutical Sciences</i> , 2006, 95, 2486-2498.	1.6	126

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37	The Influence of Thermal and Mechanical Preparative Techniques on the Amorphous State of Four Poorly Soluble Compounds. <i>Journal of Pharmaceutical Sciences</i> , 2005, 94, 1998-2012.	1.6	124
38	Investigation of properties and recrystallisation behaviour of amorphous indomethacin samples prepared by different methods. <i>International Journal of Pharmaceutics</i> , 2011, 417, 94-100.	2.6	124
39	Correlating thermodynamic and kinetic parameters with amorphous stability. <i>European Journal of Pharmaceutical Sciences</i> , 2009, 37, 492-498.	1.9	123
40	Non-destructive quantification of pharmaceutical tablet coatings using terahertz pulsed imaging and optical coherence tomography. <i>Optics and Lasers in Engineering</i> , 2011, 49, 361-365.	2.0	120
41	Refining stability and dissolution rate of amorphous drug formulations. <i>Expert Opinion on Drug Delivery</i> , 2014, 11, 977-989.	2.4	119
42	Modifying release characteristics from 3D printed drug-eluting products. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 90, 47-52.	1.9	118
43	Subunit vaccines of the future: the need for safe, customized and optimized particulate delivery systems. <i>Therapeutic Delivery</i> , 2011, 2, 1057-1077.	1.2	116
44	Chitosan-Based Nano-Embedded Microparticles: Impact of Nanogel Composition on Physicochemical Properties. <i>Pharmaceutics</i> , 2017, 9, 1.	2.0	116
45	Implementation of a Process Analytical Technology System in a Freeze-Drying Process Using Raman Spectroscopy for In-Line Process Monitoring. <i>Analytical Chemistry</i> , 2007, 79, 7992-8003.	3.2	115
46	Quantifying ternary mixtures of different solid-state forms of indomethacin by Raman and near-infrared spectroscopy. <i>European Journal of Pharmaceutical Sciences</i> , 2007, 32, 182-192.	1.9	115
47	Stabilization of liposomes during drying. <i>Expert Opinion on Drug Delivery</i> , 2011, 8, 375-388.	2.4	114
48	Supersaturated Self-Nanoemulsifying Drug Delivery Systems (Super-SNEDDS) Enhance the Bioavailability of the Poorly Water-Soluble Drug Simvastatin in Dogs. <i>AAPS Journal</i> , 2013, 15, 219-227.	2.2	114
49	Comparative Study of Different Methods for the Prediction of Drug's Polymer Solubility. <i>Molecular Pharmaceutics</i> , 2015, 12, 3408-3419.	2.3	111
50	On-line monitoring of moisture content in an instrumented fluidized bed granulator with a multi-channel NIR moisture sensor. <i>Powder Technology</i> , 1998, 99, 163-170.	2.1	110
51	Solvent-Mediated Phase Transformation Kinetics of an Anhydrate/Hydrate System. <i>Crystal Growth and Design</i> , 2006, 6, 2053-2060.	1.4	106
52	Roadmap to 3D-Printed Oral Pharmaceutical Dosage Forms: Feedstock Filament Properties and Characterization for Fused Deposition Modeling. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 26-35.	1.6	106
53	Improving Co-Amorphous Drug Formulations by the Addition of the Highly Water Soluble Amino Acid, Proline. <i>Pharmaceutics</i> , 2014, 6, 416-435.	2.0	105
54	License to kill: Formulation requirements for optimal priming of CD8+ CTL responses with particulate vaccine delivery systems. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 45, 482-491.	1.9	103

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55	Ciprofloxacin-loaded sodium alginate/poly (lactic-co-glycolic acid) electrospun fibrous mats for wound healing. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 123, 42-49.	2.0	103
56	Crystallization of glycine with ultrasound. <i>International Journal of Pharmaceutics</i> , 2006, 320, 23-29.	2.6	102
57	In-line moisture measurement during granulation with a four-wavelength near infrared sensor: an evaluation of particle size and binder effects. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2000, 50, 271-276.	2.0	101
58	Screening for differences in the amorphous state of indomethacin using multivariate visualization. <i>European Journal of Pharmaceutical Sciences</i> , 2007, 30, 113-123.	1.9	101
59	Hydrate formation during wet granulation studied by spectroscopic methods and multivariate analysis. <i>Pharmaceutical Research</i> , 2002, 19, 1285-1291.	1.7	99
60	Role of Water in the Physical Stability of Solid Dosage Formulations. <i>Journal of Pharmaceutical Sciences</i> , 2005, 94, 2147-2165.	1.6	99
61	Predicting Crystallization of Amorphous Drugs with Terahertz Spectroscopy. <i>Molecular Pharmaceutics</i> , 2015, 12, 3062-3068.	2.3	97
62	A theoretical and spectroscopic study of co-amorphous naproxen and indomethacin. <i>International Journal of Pharmaceutics</i> , 2013, 453, 80-87.	2.6	95
63	Preparation and characterization of spray-dried co-amorphous drug-amino acid salts. <i>Journal of Pharmacy and Pharmacology</i> , 2016, 68, 615-624.	1.2	95
64	Novel Identification of Pseudopolymorphic Changes of Theophylline During Wet Granulation Using Near Infrared Spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2001, 90, 389-396.	1.6	94
65	Quantitative analysis of polymorphic mixtures of ranitidine hydrochloride by Raman spectroscopy and principal components analysis. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2002, 54, 337-341.	2.0	94
66	Supersaturating drug delivery systems: The potential of co-amorphous drug formulations. <i>International Journal of Pharmaceutics</i> , 2017, 532, 1-12.	2.6	93
67	Glass-Transition Temperature of the $\beta$ -Relaxation as the Major Predictive Parameter for Recrystallization of Neat Amorphous Drugs. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2803-2808.	1.2	93
68	Perspectives in the use of spectroscopy to characterise pharmaceutical solids. <i>International Journal of Pharmaceutics</i> , 2008, 364, 159-169.	2.6	90
69	Characterisation of pore structures of pharmaceutical tablets: A review. <i>International Journal of Pharmaceutics</i> , 2018, 538, 188-214.	2.6	90
70	Unidirectional drug release from 3D printed mucoadhesive buccal films using FDM technology: In vitro and ex vivo evaluation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 144, 180-192.	2.0	90
71	QR encoded smart oral dosage forms by inkjet printing. <i>International Journal of Pharmaceutics</i> , 2018, 536, 138-145.	2.6	89
72	Amino Acids as Co-amorphous Excipients for Simvastatin and Glibenclamide: Physical Properties and Stability. <i>Molecular Pharmaceutics</i> , 2014, 11, 2381-2389.	2.3	88

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73	In Situ Measurement of Solvent-Mediated Phase Transformations During Dissolution Testing. <i>Journal of Pharmaceutical Sciences</i> , 2006, 95, 2730-2737.	1.6	87
74	Temperature dependent terahertz pulsed spectroscopy of carbamazepine. <i>Thermochimica Acta</i> , 2005, 436, 71-77.	1.2	85
75	Physicochemical Properties and Stability of Two Differently Prepared Amorphous Forms of Simvastatin. <i>Crystal Growth and Design</i> , 2008, 8, 128-135.	1.4	85
76	Understanding the solid-state forms of fenofibrate – A spectroscopic and computational study. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 71, 100-108.	2.0	85
77	A Step Toward Development of Printable Dosage Forms for Poorly Soluble Drugs. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 3694-3704.	1.6	85
78	The role of mucus as an invisible cloak to transepithelial drug delivery by nanoparticles. <i>Advanced Drug Delivery Reviews</i> , 2018, 124, 107-124.	6.6	85
79	Influence of Polymer Molecular Weight on Drug-polymer Solubility: A Comparison between Experimentally Determined Solubility in PVP and Prediction Derived from Solubility in Monomer. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 2905-2912.	1.6	84
80	Process analytical applications of Raman spectroscopy. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 59, 171-177.	1.2	83
81	Comparison of the effects of two drying methods on polymorphism of theophylline. <i>International Journal of Pharmaceutics</i> , 2004, 276, 129-141.	2.6	82
82	Factors affecting crystallization of hydrates. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 62, 1534-1546.	1.2	82
83	Physical stability and moisture sorption of aqueous chitosan-amylose starch films plasticized with polyols. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2004, 58, 69-76.	2.0	81
84	Applications of terahertz pulsed imaging to sustained-release tablet film coating quality assessment and dissolution performance. <i>Journal of Controlled Release</i> , 2008, 127, 79-87.	4.8	81
85	Status and future prospects of lipid-based particulate delivery systems as vaccine adjuvants and their combination with immunostimulators. <i>Expert Opinion on Drug Delivery</i> , 2009, 6, 657-672.	2.4	81
86	Solid-state properties and dissolution behaviour of tablets containing co-amorphous indomethacin-arginine. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 96, 44-52.	2.0	80
87	Trehalose preserves DDA/TDB liposomes and their adjuvant effect during freeze-drying. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 2120-2129.	1.4	79
88	Formation Kinetics and Stability of Carbamazepine-Nicotinamide Cocrystals Prepared by Mechanical Activation. <i>Crystal Growth and Design</i> , 2009, 9, 2377-2386.	1.4	79
89	Characterising Lipid Lipolysis and Its Implication in Lipid-Based Formulation Development. <i>AAPS Journal</i> , 2012, 14, 860-871.	2.2	79
90	Development of a screening method for co-amorphous formulations of drugs and amino acids. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 95, 28-35.	1.9	78

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91	Elucidating the molecular mechanism of PAMAM-siRNA dendriplex self-assembly: Effect of dendrimer charge density. <i>International Journal of Pharmaceutics</i> , 2011, 416, 410-418.	2.6	77
92	Co-former selection for co-amorphous drug-amino acid formulations. <i>International Journal of Pharmaceutics</i> , 2019, 557, 366-373.	2.6	76
93	Recent pharmaceutical applications of raman and terahertz spectroscopies. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 4598-4621.	1.6	75
94	Molecular Characterization of the Interaction between siRNA and PAMAM G7 Dendrimers by SAXS, ITC, and Molecular Dynamics Simulations. <i>Biomacromolecules</i> , 2010, 11, 3571-3577.	2.6	75
95	Design of PLGA-based depot delivery systems for biopharmaceuticals prepared by spray drying. <i>International Journal of Pharmaceutics</i> , 2016, 498, 82-95.	2.6	75
96	Transforming nanomedicine manufacturing toward Quality by Design and microfluidics. <i>Advanced Drug Delivery Reviews</i> , 2018, 128, 115-131.	6.6	75
97	Toward an Understanding of the Factors Influencing Anhydrate-to-Hydrate Transformation Kinetics in Aqueous Environments. <i>Crystal Growth and Design</i> , 2008, 8, 2684-2693.	1.4	72
98	Formation Mechanism of Coamorphous Drug-Amino Acid Mixtures. <i>Molecular Pharmaceutics</i> , 2015, 12, 2484-2492.	2.3	72
99	Co-Amorphous Drug Formulations in Numbers: Recent Advances in Co-Amorphous Drug Formulations with Focus on Co-Formability, Molar Ratio, Preparation Methods, Physical Stability, In Vitro and In Vivo Performance, and New Formulation Strategies. <i>Pharmaceutics</i> , 2021, 13, 389.	2.0	71
100	Influence of raw material properties upon critical quality attributes of continuously produced granules and tablets. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 87, 252-263.	2.0	70
101	Use of the Near-Infrared Reflectance Method for Measurement of Moisture Content During Granulation. <i>Pharmaceutical Development and Technology</i> , 2000, 5, 209-217.	1.1	69
102	Analysis of 3D Prints by X-ray Computed Microtomography and Terahertz Pulsed Imaging. <i>Pharmaceutical Research</i> , 2017, 34, 1037-1052.	1.7	69
103	Quantitative analysis of polymorphic mixtures of carbamazepine by Raman spectroscopy and principal components analysis. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 347-352.	1.2	68
104	Improved Understanding of Factors Contributing to Quantification of Anhydrate/Hydrate Powder Mixtures. <i>Applied Spectroscopy</i> , 2005, 59, 942-951.	1.2	68
105	A theoretical and spectroscopic study of $\beta$ -crystalline and amorphous indometacin. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 59, 261-269.	1.2	68
106	Insights into the Early Dissolution Events of Amlodipine Using UV Imaging and Raman Spectroscopy. <i>Molecular Pharmaceutics</i> , 2011, 8, 1372-1380.	2.3	68
107	Influence of solvent evaporation rate and formulation factors on solid dispersion physical stability. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 44, 610-620.	1.9	68
108	Excipient selection can significantly affect solid-state phase transformation in formulation during wet granulation. <i>AAPS PharmSciTech</i> , 2005, 6, E311-E322.	1.5	67

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109	The Role of Configurational Entropy in Amorphous Systems. <i>Pharmaceutics</i> , 2010, 2, 224-244.	2.0	67
110	A novel method of producing a microcrystalline $\beta$ -sitosterol suspension in oil. <i>European Journal of Pharmaceutical Sciences</i> , 2002, 15, 261-269.	1.9	66
111	Mechanistic profiling of the siRNA delivery dynamics of lipid-polymer hybrid nanoparticles. <i>Journal of Controlled Release</i> , 2015, 201, 22-31.	4.8	66
112	On the role of salt formation and structural similarity of co-formers in co-amorphous drug delivery systems. <i>International Journal of Pharmaceutics</i> , 2018, 535, 86-94.	2.6	65
113	Influence of variation in molar ratio on co-amorphous drug-amino acid systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 107, 32-39.	2.0	64
114	Effects of Excipients on Hydrate Formation in Wet Masses Containing Theophylline. <i>Journal of Pharmaceutical Sciences</i> , 2003, 92, 516-528.	1.6	63
115	Prediction of aqueous solubility for a diverse set of organic compounds based on atom-type electrotopological state indices. <i>European Journal of Medicinal Chemistry</i> , 2000, 35, 1081-1088.	2.6	61
116	Monitoring tablet surface roughness during the film coating process. <i>AAPS PharmSciTech</i> , 2006, 7, E1-E6.	1.5	61
117	Hot Melt Extrusion and Spray Drying of Co-amorphous Indomethacin-Arginine With Polymers. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 302-312.	1.6	61
118	Application of a Salt Coformer in a Co-Amorphous Drug System Dramatically Enhances the Glass Transition Temperature: A Case Study of the Ternary System Carbamazepine, Citric Acid, and Arginine. <i>Molecular Pharmaceutics</i> , 2018, 15, 2036-2044.	2.3	61
119	Microcrystalline cellulose-water interaction—a novel approach using thermoporosimetry. <i>Pharmaceutical Research</i> , 2001, 18, 1562-1569.	1.7	60
120	Critical Solvent Properties Affecting the Particle Formation Process and Characteristics of Celecoxib-Loaded PLGA Microparticles via Spray-Drying. <i>Pharmaceutical Research</i> , 2013, 30, 1065-1076.	1.7	59
121	Budesonide nanocrystal-loaded hyaluronic acid microparticles for inhalation: In vitro and in vivo evaluation. <i>Carbohydrate Polymers</i> , 2018, 181, 1143-1152.	5.1	59
122	Polymorph Screening Using Near-Infrared Spectroscopy. <i>Analytical Chemistry</i> , 2003, 75, 5267-5273.	3.2	58
123	Influence of Polymorphic Form, Morphology, and Excipient Interactions on the Dissolution of Carbamazepine Compacts. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 584-594.	1.6	57
124	Performance comparison between crystalline and co-amorphous salts of indomethacin-lysine. <i>International Journal of Pharmaceutics</i> , 2017, 533, 138-144.	2.6	57
125	In-line moisture measurement during granulation with a four-wavelength near-infrared sensor: an evaluation of process-related variables and a development of non-linear calibration model. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2001, 56, 51-58.	1.8	56
126	Near-Infrared Spectroscopy for Cocrystal Screening. A Comparative Study with Raman Spectroscopy. <i>Analytical Chemistry</i> , 2008, 80, 7755-7764.	3.2	56



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127	Nanoparticle-mediated delivery of the antimicrobial peptide plectasin against <i>Staphylococcus aureus</i> in infected epithelial cells. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 92, 65-73.	2.0	56
128	Organic acids as co-formers for co-amorphous systems – Influence of variation in molar ratio on the physicochemical properties of the co-amorphous systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 131, 25-32.	2.0	56
129	Quality by design thinking in the development of long-acting injectable PLGA/PLA-based microspheres for peptide and protein drug delivery. <i>International Journal of Pharmaceutics</i> , 2020, 585, 119441.	2.6	56
130	IR spectroscopy together with multivariate data analysis as a process analytical tool for in-line monitoring of crystallization process and solid-state analysis of crystalline product. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 38, 275-284.	1.4	55
131	Cellular uptake and membrane-destabilising properties of $\alpha$ -peptide/ $\beta$ -peptoid chimeras: lessons for the design of new cell-penetrating peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 2487-2495.	1.4	55
132	Improvement of dissolution rate of indomethacin by inkjet printing. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 75, 91-100.	1.9	55
133	Establishing quantitative in-line analysis of multiple solid-state transformations during dehydration. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 4983-4999.	1.6	54
134	Formation and physical stability of the amorphous phase of ranitidine hydrochloride polymorphs prepared by cryo-milling. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 68, 771-780.	2.0	54
135	Spatial confinement can lead to increased stability of amorphous indomethacin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 81, 418-425.	2.0	54
136	Effects of film coating thickness and drug layer uniformity on in vitro drug release from sustained-release coated pellets: A case study using terahertz pulsed imaging. <i>International Journal of Pharmaceutics</i> , 2009, 382, 151-159.	2.6	53
137	The influence of various excipients on the conversion kinetics of carbamazepine polymorphs in aqueous suspension. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 59, 193-201.	1.2	53
138	Investigation of the Formation Process of Two Piracetam Cocrystals during Grinding. <i>Pharmaceutics</i> , 2011, 3, 706-722.	2.0	53
139	Investigation of physical properties and stability of indomethacin-cimetidine and naproxen-cimetidine co-amorphous systems prepared by quench cooling, coprecipitation and ball milling. <i>Journal of Pharmacy and Pharmacology</i> , 2016, 68, 36-45.	1.2	53
140	Engineering of small interfering RNA-loaded lipidoid-poly( DL -lactic-co-glycolic acid) hybrid nanoparticles for highly efficient and safe gene silencing: A quality by design-based approach. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 120, 22-33.	2.0	53
141	Co-delivery of resveratrol and docetaxel via polymeric micelles to improve the treatment of drug-resistant tumors. <i>Asian Journal of Pharmaceutical Sciences</i> , 2019, 14, 78-85.	4.3	52
142	Fabrication of Mucoadhesive Buccal Films for Local Administration of Ketoprofen and Lidocaine Hydrochloride by Combining Fused Deposition Modeling and Inkjet Printing. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 2757-2766.	1.6	52
143	Qualitative in situ analysis of multiple solid-state forms using spectroscopy and partial least squares discriminant modeling. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 1802-1820.	1.6	51
144	Solvent Diversity in Polymorph Screening. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 2145-2159.	1.6	51

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145	Quantitative solid-state analysis of three solid forms of ranitidine hydrochloride in ternary mixtures using Raman spectroscopy and X-ray powder diffraction. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 49, 18-25.	1.4	51
146	Particle size dependence of polymorphism in spray-dried mannitol. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 44, 41-48.	1.9	51
147	Incorporation of the TLR4 Agonist Monophosphoryl Lipid A Into the Bilayer of DDA/TDB Liposomes: Physico-Chemical Characterization and Induction of CD8+ T-Cell Responses In Vivo. <i>Pharmaceutical Research</i> , 2011, 28, 553-562.	1.7	51
148	siRNA Delivery with Lipid-based Systems: Promises and Pitfalls. <i>Current Topics in Medicinal Chemistry</i> , 2012, 12, 97-107.	1.0	51
149	Recent advances and potential applications of modulated differential scanning calorimetry (mDSC) in drug development. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 87, 164-173.	1.9	51
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