

# Kyriakos Kachrimanis

## List of Publications by Year in descending order

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72  
papers

2,549  
citations

159585

30  
h-index

206112

48  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3096  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmaceutical nanocrystals: production by wet milling and applications. Drug Discovery Today, 2018, 23, 534-547.	6.4	213
2	Preparation of carbamazepineâ€™SoluplusÂ® solid dispersions by hot-melt extrusion, and prediction of drugâ€™polymer miscibility by thermodynamic model fitting. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 84, 228-237.	4.3	159
3	Pharmaceutical Cocrystals: New Solid Phase Modification Approaches for the Formulation of APIs. Pharmaceutics, 2018, 10, 18.	4.5	141
4	Co-Amorphous Solid Dispersions for Solubility and Absorption Improvement of Drugs: Composition, Preparation, Characterization and Formulations for Oral Delivery. Pharmaceutics, 2018, 10, 98.	4.5	129
5	Quantitative analysis of paracetamol polymorphs in powder mixtures by FT-Raman spectroscopy and PLS regression. Journal of Pharmaceutical and Biomedical Analysis, 2007, 43, 407-412.	2.8	93
6	Drug release from tableted wet granulations comprising cellulosic (HPMC or HPC) and hydrophobic component. European Journal of Pharmaceutics and Biopharmaceutics, 2005, 59, 73-83.	4.3	85
7	Solubility enhancement of desloratadine by solid dispersion in poloxamers. International Journal of Pharmaceutics, 2012, 436, 161-170.	5.2	85
8	Controlled release of 5-fluorouracil from microporous zeolites. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 197-205.	3.3	69
9	Spray Drying for the Preparation of Nanoparticle-Based Drug Formulations as Dry Powders for Inhalation. Processes, 2020, 8, 788.	2.8	67
10	Solid dispersions in the development of a nimodipine floating tablet formulation and optimization by artificial neural networks and genetic programming. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 77, 122-131.	4.3	64
11	Optimization of formulation and process parameters for the production of carvedilol nanosuspension by wet media milling. International Journal of Pharmaceutics, 2018, 540, 150-161.	5.2	62
12	Dynamic moisture sorption and desorption of standard and silicified microcrystalline cellulose. European Journal of Pharmaceutics and Biopharmaceutics, 2006, 64, 307-315.	4.3	58
13	Artificial neural networks (ANNs) and modeling of powder flow. International Journal of Pharmaceutics, 2003, 250, 13-23.	5.2	49
14	Influence of hydrophilic polymers on the complexation of carbamazepine with hydroxypropyl-Î²-cyclodextrin. European Journal of Pharmaceutical Sciences, 2015, 78, 273-285.	4.0	47
15	Spherical Crystal Agglomeration of Ibuprofen by the Solventâ€™Change Technique in Presence of Methacrylic Polymers. , 2000, 89, 250-259.		46
16	Improvement of Aripiprazole Solubility by Complexation with (2-Hydroxy)propyl-Î²-cyclodextrin Using Spray Drying Technique. AAPS PharmSciTech, 2012, 13, 623-631.	3.3	46
17	Production of aprepitant nanocrystals by wet media milling and subsequent solidification. International Journal of Pharmaceutics, 2017, 533, 324-334.	5.2	45
18	Artificial neural networks in the optimization of a nimodipine controlled release tablet formulation. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 74, 316-323.	4.3	43

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19	Tensile strength and disintegration of tableted silicified microcrystalline cellulose: Influences of interparticle bonding. <i>Journal of Pharmaceutical Sciences</i> , 2003, 92, 1489-1501.	3.3	42
20	Symbolic regression via genetic programming in the optimization of a controlled release pharmaceutical formulation. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2011, 107, 75-82.	3.5	42
21	Analytical and Computational Methods for the Estimation of Drug-Polymer Solubility and Miscibility in Solid Dispersions Development. <i>Pharmaceutics</i> , 2019, 11, 372.	4.5	42
22	Dissolution rate enhancement and physicochemical characterization of carbamazepine-poloxamer solid dispersions. <i>Pharmaceutical Development and Technology</i> , 2016, 21, 268-276.	2.4	40
23	Artificial neural networks (ANNs) and partial least squares (PLS) regression in the quantitative analysis of cocrystal formulations by Raman and ATR-FTIR spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 158, 214-224.	2.8	39
24	Crystallisation conditions and physicochemical properties of ibuprofen Eudragit® S100 spherical crystal agglomerates prepared by the solvent-change technique. <i>International Journal of Pharmaceutics</i> , 1998, 173, 61-74.	5.2	38
25	Flow rate of some pharmaceutical diluents through die-orifices relevant to mini-tableting. <i>International Journal of Pharmaceutics</i> , 2005, 303, 72-80.	5.2	37
26	Simultaneous quantitative analysis of mebendazole polymorphs A-C in powder mixtures by DRIFTS spectroscopy and ANN modeling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 51, 512-520.	2.8	37
27	Effects of Moisture and Residual Solvent on the Phase Stability of Orthorhombic Paracetamol. <i>Pharmaceutical Research</i> , 2008, 25, 1440-1449.	3.5	36
28	Molecular simulations for amorphous drug formulation: Polymeric matrix properties relevant to hot-melt extrusion. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 119, 259-267.	4.0	35
29	Simultaneous Quantification of Carbamazepine Crystal Forms in Ternary Mixtures (I, III, and IV) by Diffuse Reflectance FTIR Spectroscopy (DRIFTS) and Multivariate Calibration. <i>Journal of Pharmaceutical Sciences</i> , 2006, 95, 2419-2431.	3.3	33
30	Combined Effects of Wetting, Drying, and Microcrystalline Cellulose Type on the Mechanical Strength and Disintegration of Pellets. <i>Journal of Pharmaceutical Sciences</i> , 2009, 98, 676-689.	3.3	33
31	Effects of harvesting and cooling on crystallization and transformation of orthorhombic paracetamol in ethanolic solution. <i>European Journal of Pharmaceutical Sciences</i> , 2002, 17, 13-21.	4.0	31
32	mRNA Therapeutic Modalities Design, Formulation and Manufacturing under Pharma 4.0 Principles. <i>Biomedicines</i> , 2022, 10, 50.	3.2	30
33	Relations between crystallisation conditions and micromeritic properties of ibuprofen. <i>International Journal of Pharmaceutics</i> , 2000, 201, 79-88.	5.2	29
34	Dehydration Kinetics and Crystal Water Dynamics of Carbamazepine Dihydrate. <i>Pharmaceutical Research</i> , 2012, 29, 1143-1157.	3.5	26
35	Compatibility study betweentrandolapril and natural excipients used in solid dosage forms. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 2109-2115.	3.6	26
36	Effect of composition in the development of carbamazepine hot-melt extruded solid dispersions by application of mixture experimental design. <i>Journal of Pharmacy and Pharmacology</i> , 2014, 66, 232-243.	2.4	24

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37	Preparation of theophylline inhalable microcomposite particles by wet milling and spray drying: The influence of mannitol as a co-milling agent. <i>International Journal of Pharmaceutics</i> , 2016, 514, 200-211.	5.2	24
38	Preparation of respirable nanoparticle agglomerates of the low melting and ductile drug ibuprofen: Impact of formulation parameters. <i>Powder Technology</i> , 2017, 308, 123-134.	4.2	24
39	Rivaroxaban polymeric amorphous solid dispersions: Moisture-induced thermodynamic phase behavior and intermolecular interactions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 145, 98-112.	4.3	24
40	Comparison of multi-linear regression, particle swarm optimization artificial neural networks and genetic programming in the development of mini-tablets. <i>International Journal of Pharmaceutics</i> , 2018, 551, 166-176.	5.2	23
41	Crystallization tendency of APIs possessing different thermal and glass related properties in amorphous solid dispersions. <i>International Journal of Pharmaceutics</i> , 2020, 579, 119149.	5.2	22
42	Molecular modelling and simulation of fusion-based amorphous drug dispersions in polymer/plasticizer blends. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 130, 260-268.	4.0	21
43	“Apparent” Young’s elastic modulus and radial recovery for some tableted pharmaceutical excipients. <i>European Journal of Pharmaceutical Sciences</i> , 2004, 21, 197-207.	4.0	19
44	Quantitative analysis of less soluble form IV in commercial carbamazepine (form III) by diffuse reflectance fourier transform spectroscopy (DRIFTS) and lazy learning algorithm. <i>Analytica Chimica Acta</i> , 2005, 550, 191-198.	5.4	19
45	Compact size and mechanical strength of pharmaceutical diluents. <i>European Journal of Pharmaceutical Sciences</i> , 2005, 24, 169-177.	4.0	19
46	A study of jet-milling and spray-drying process for the physicochemical and aerodynamic dispersion properties of amiloride HCl. <i>Powder Technology</i> , 2014, 262, 170-176.	4.2	17
47	Pharma 4.0 Continuous mRNA Drug Products Manufacturing. <i>Pharmaceutics</i> , 2021, 13, 1371.	4.5	17
48	Statistical moments in modelling of swelling, erosion and drug release of hydrophilic matrix-tablets. <i>International Journal of Pharmaceutics</i> , 2018, 540, 1-10.	5.2	16
49	Insight into the Formation of Glimepiride Nanocrystals by Wet Media Milling. <i>Pharmaceutics</i> , 2020, 12, 53.	4.5	16
50	The influence of spiral jet-milling on the physicochemical properties of carbamazepine form III crystals: Quality by design approach. <i>Chemical Engineering Research and Design</i> , 2014, 92, 500-508.	5.6	13
51	Spray coating as a powerful technique in preparation of solid dispersions with enhanced desloratadine dissolution rate. <i>Drug Development and Industrial Pharmacy</i> , 2013, 39, 1020-1027.	2.0	12
52	Crystallization of Paracetamol from Ethanol-water Solutions in the Presence of Polymers. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 51, 1219-1227.	2.4	11
53	Overcoming the Solubility Barrier of Ibuprofen by the Rational Process Design of a Nanocrystal Formulation. <i>Pharmaceutics</i> , 2020, 12, 969.	4.5	11
54	Sildenafil 4.0” Integrated Synthetic Chemistry, Formulation and Analytical Strategies Effecting Immense Therapeutic and Societal Impact in the Fourth Industrial Era. <i>Pharmaceutics</i> , 2021, 14, 365.	3.8	11

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55	Potential application of low molecular weight excipients for amorphization and dissolution enhancement of carvedilol. <i>International Journal of Pharmaceutics</i> , 2021, 608, 121033.	5.2	11
56	Physicochemical characterization of nimodipine polyethylene glycol solid dispersion systems. <i>Drug Development and Industrial Pharmacy</i> , 2014, 40, 886-895.	2.0	10
57	Partially hydrolyzed polyvinyl alcohol for fusion-based pharmaceutical formulation processes: Evaluation of suitable plasticizers. <i>International Journal of Pharmaceutics</i> , 2020, 578, 119121.	5.2	9
58	Optimization of extended-release hydrophilic matrix tablets by support vector regression. <i>Drug Development and Industrial Pharmacy</i> , 2011, 37, 80-87.	2.0	7
59	A study of water uptake by selected superdisintegrants from the sub-molecular to the particulate level. <i>Pharmaceutical Development and Technology</i> , 2018, 23, 476-487.	2.4	7
60	Mechanical properties and drug release of venlafaxine HCl solid mini matrices prepared by hot-melt extrusion and hot or ambient compression. <i>Drug Development and Industrial Pharmacy</i> , 2018, 44, 338-348.	2.0	7
61	Preparation of pharmaceutical cocrystal formulations via melt mixing technique: A thermodynamic perspective. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 131, 130-140.	4.3	7
62	Amorphous agomelatine stabilization in the presence of pyrogenic silica: Molecular mobility and intermolecular interaction studies. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 139, 291-300.	4.3	7
63	Development of a Nanocrystal Formulation of a Low Melting Point API Following a Quality by Design Approach. <i>Processes</i> , 2021, 9, 954.	2.8	7
64	Crystallization kinetics of orthorhombic paracetamol from supercooled melts studied by non-isothermal DSC. <i>Drug Development and Industrial Pharmacy</i> , 2017, 43, 257-263.	2.0	6
65	Physicochemical characterization and decomposition kinetics of trandolapril. <i>Thermochimica Acta</i> , 2012, 539, 92-99.	2.7	5
66	Development of a Novel Amorphous Agomelatine Formulation With Improved Storage Stability and Enhanced Bioavailability. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 257-266.	3.3	5
67	Development of agomelatine nanocomposite formulations by wet media milling. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 166, 105979.	4.0	5
68	Image analysis by pulse coupled neural networks (PCNN) a novel approach in granule size characterization. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 59, 51-57.	2.4	3
69	Integrating Elastic Tensor and PC-SAFT Modeling with Systems-Based Pharma 4.0 Simulation, to Predict Process Operations and Product Specifications of Ternary Nanocrystalline Suspensions. <i>Pharmaceutics</i> , 2021, 13, 1771.	4.5	3
70	Structural and Energetic Aspects of Entacapone-Theophylline-Water Cocrystal. <i>Solids</i> , 2022, 3, 66-92.	2.4	3
71	Co-Spray Drying of Paracetamol and Propyphenazone with Polymeric Binders for Enabling Compaction and Stability Improvement in a Combination Tablet. <i>Pharmaceutics</i> , 2021, 13, 1259.	4.5	2
72	Polyelectrolyte Matrices in the Modulation of Intermolecular Electrostatic Interactions for Amorphous Solid Dispersions: A Comprehensive Review. <i>Pharmaceutics</i> , 2021, 13, 1467.	4.5	2