Kyriakos Kachrimanis

List of Publications by Year in Descending Order

71 papers	1,890 citations	28 h-index	41 g-index
73 ext. papers	2,187 ext. citations	5 avg, IF	5.2 L-index

#	Paper	IF	Citations
71	Structural and Energetic Aspects of Entacapone-Theophylline-Water Cocrystal. *Solids*, **2022**, 3, 66-92	0	0
70	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. *Pharmaceutics*, **2021**, 13,	6.4	1
69	Sildenafil 4.0-Integrated Synthetic Chemistry, Formulation and Analytical Strategies Effecting Immense Therapeutic and Societal Impact in the Fourth Industrial Era. *Pharmaceuticals*, **2021**, 14,	5.2	5
68	Development of a Nanocrystal Formulation of a Low Melting Point API Following a Quality by Design Approach. *Processes*, **2021**, 9, 954	2.9	4
67	Pharma 4.0 Continuous mRNA Drug Products Manufacturing. *Pharmaceutics*, **2021**, 13,	6.4	4
66	Potential application of low molecular weight excipients for amorphization and dissolution enhancement of carvedilol. *International Journal of Pharmaceutics*, **2021**, 608, 121033	6.5	1
65	Development of agomelatine nanocomposite formulations by wet media milling. *European Journal of Pharmaceutical Sciences*, **2021**, 166, 105979	5.1	1
64	mRNA Therapeutic Modalities Design, Formulation and Manufacturing under Pharma 4.0 Principles.. *Biomedicines*, **2021**, 10,	4.8	6
63	Spray Drying for the Preparation of Nanoparticle-Based Drug Formulations as Dry Powders for Inhalation. *Processes*, **2020**, 8, 788	2.9	21
62	Partially hydrolyzed polyvinyl alcohol for fusion-based pharmaceutical formulation processes: Evaluation of suitable plasticizers. *International Journal of Pharmaceutics*, **2020**, 578, 119121	6.5	8
61	Crystallization tendency of APIs possessing different thermal and glass related properties in amorphous solid dispersions. *International Journal of Pharmaceutics*, **2020**, 579, 119149	6.5	14
60	Insight into the Formation of Glimepiride Nanocrystals by Wet Media Milling. *Pharmaceutics*, **2020**, 12,	6.4	8
59	Overcoming the Solubility Barrier of Ibuprofen by the Rational Process Design of a Nanocrystal Formulation. *Pharmaceutics*, **2020**, 12,	6.4	7
58	Amorphous agomelatine stabilization in the presence of pyrogenic silica: Molecular mobility and intermolecular interaction studies. *European Journal of Pharmaceutics and Biopharmaceutics*, **2019**, 139, 291-300	5.7	5
57	Molecular modelling and simulation of fusion-based amorphous drug dispersions in polymer/plasticizer blends. *European Journal of Pharmaceutical Sciences*, **2019**, 130, 260-268	5.1	12
56	Analytical and Computational Methods for the Estimation of Drug-Polymer Solubility and Miscibility in Solid Dispersions Development. *Pharmaceutics*, **2019**, 11,	6.4	23
55	Rivaroxaban polymeric amorphous solid dispersions: Moisture-induced thermodynamic phase behavior and intermolecular interactions. *European Journal of Pharmaceutics and Biopharmaceutics*, **2019**, 145, 98-112	5.7	13

54	Statistical moments in modelling of swelling, erosion and drug release of hydrophilic matrix-tablets. *International Journal of Pharmaceutics*, **2018**, 540, 1-10	6.5	12
53	Optimization of formulation and process parameters for the production of carvedilol nanosuspension by wet media milling. *International Journal of Pharmaceutics*, **2018**, 540, 150-161	6.5	42
52	Pharmaceutical nanocrystals: production by wet milling and applications. *Drug Discovery Today*, **2018**, 23, 534-547	8.8	131
51	Molecular simulations for amorphous drug formulation: Polymeric matrix properties relevant to hot-melt extrusion. *European Journal of Pharmaceutical Sciences*, **2018**, 119, 259-267	5.1	28
50	A study of water uptake by selected superdisintegrants from the sub-molecular to the particulate level. *Pharmaceutical Development and Technology*, **2018**, 23, 476-487	3.4	6
49	Development of a Novel Amorphous Agomelatine Formulation With Improved Storage Stability and Enhanced Bioavailability. *Journal of Pharmaceutical Sciences*, **2018**, 107, 257-266	3.9	4
48	Mechanical properties and drug release of venlafaxine HCl solid mini matrices prepared by hot-melt extrusion and hot or ambient compression. *Drug Development and Industrial Pharmacy*, **2018**, 44, 338-348	3.6	5
47	Co-Amorphous Solid Dispersions for Solubility and Absorption Improvement of Drugs: Composition, Preparation, Characterization and Formulations for Oral Delivery. *Pharmaceutics*, **2018**, 10,	6.4	72
46	Pharmaceutical Cocrystals: New Solid Phase Modification Approaches for the Formulation of APIs. *Pharmaceutics*, **2018**, 10,	6.4	90
45	Preparation of pharmaceutical cocrystal formulations via melt mixing technique: A thermodynamic perspective. *European Journal of Pharmaceutics and Biopharmaceutics*, **2018**, 131, 130-140	5.7	5
44	Artificial neural networks (ANNs) and partial least squares (PLS) regression in the quantitative analysis of cocrystal formulations by Raman and ATR-FTIR spectroscopy. *Journal of Pharmaceutical and Biomedical Analysis*, **2018**, 158, 214-224	3.5	28
43	Comparison of multi-linear regression, particle swarm optimization artificial neural networks and genetic programming in the development of mini-tablets. *International Journal of Pharmaceutics*, **2018**, 551, 166-176	6.5	18
42	Production of aprepitant nanocrystals by wet media milling and subsequent solidification. *International Journal of Pharmaceutics*, **2017**, 533, 324-334	6.5	38
41	Preparation of respirable nanoparticle agglomerates of the low melting and ductile drug ibuprofen: Impact of formulation parameters. *Powder Technology*, **2017**, 308, 123-134	5.2	20
40	Crystallization kinetics of orthorhombic paracetamol from supercooled melts studied by non-isothermal DSC. *Drug Development and Industrial Pharmacy*, **2017**, 43, 257-263	3.6	3
39	Preparation of theophylline inhalable microcomposite particles by wet milling and spray drying: The influence of mannitol as a co-milling agent. *International Journal of Pharmaceutics*, **2016**, 514, 200-211	6.5	17
38	Dissolution rate enhancement and physicochemical characterization of carbamazepine-poloxamer solid dispersions. *Pharmaceutical Development and Technology*, **2016**, 21, 268-76	3.4	30
37	Influence of hydrophilic polymers on the complexation of carbamazepine with hydroxypropyl-β-cyclodextrin. *European Journal of Pharmaceutical Sciences*, **2015**, 78, 273-85	5.1	39

36	Polymers as Formulation Excipients for Hot-Melt Extrusion Processing of Pharmaceuticals **2015**, 121-149		1
35	Controlled release of 5-fluorouracil from microporous zeolites. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 197-205	6	62
34	A study of jet-milling and spray-drying process for the physicochemical and aerodynamic dispersion properties of amiloride HCl. *Powder Technology*, **2014**, 262, 170-176	5.2	15
33	The influence of spiral jet-milling on the physicochemical properties of carbamazepine form III crystals: Quality by design approach. *Chemical Engineering Research and Design*, **2014**, 92, 500-508	5.5	12
32	Physicochemical characterization of nimodipine-polyethylene glycol solid dispersion systems. *Drug Development and Industrial Pharmacy*, **2014**, 40, 886-95	3.6	7
31	Effect of composition in the development of carbamazepine hot-melt extruded solid dispersions by application of mixture experimental design. *Journal of Pharmacy and Pharmacology*, **2014**, 66, 232-43	4.8	21
30	Preparation of carbamazepine-Soluplus solid dispersions by hot-melt extrusion, and prediction of drug-polymer miscibility by thermodynamic model fitting. *European Journal of Pharmaceutics and Biopharmaceutics*, **2013**, 84, 228-37	5.7	140
29	Compatibility study between trandolapril and natural excipients used in solid dosage forms. *Journal of Thermal Analysis and Calorimetry*, **2013**, 111, 2109-2115	4.1	25
28	Spray coating as a powerful technique in preparation of solid dispersions with enhanced desloratadine dissolution rate. *Drug Development and Industrial Pharmacy*, **2013**, 39, 1020-7	3.6	9
27	Physicochemical characterization and decomposition kinetics of trandolapril. *Thermochimica Acta*, **2012**, 539, 92-99	2.9	5
26	Improvement of aripiprazole solubility by complexation with (2-hydroxy)propyl-□cyclodextrin using spray drying technique. *AAPS PharmSciTech*, **2012**, 13, 623-31	3.9	41
25	Solubility enhancement of desloratadine by solid dispersion in poloxamers. *International Journal of Pharmaceutics*, **2012**, 436, 161-70	6.5	67
24	Dehydration kinetics and crystal water dynamics of carbamazepine dihydrate. *Pharmaceutical Research*, **2012**, 29, 1143-57	4.5	20
23	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, 122-31	5.7	58
22	Optimization of extended-release hydrophilic matrix tablets by support vector regression. *Drug Development and Industrial Pharmacy*, **2011**, 37, 80-7	3.6	2
21	Symbolic regression via genetic programming in the optimization of a controlled release pharmaceutical formulation. *Chemometrics and Intelligent Laboratory Systems*, **2011**, 107, 75-82	3.8	32
20	Artificial neural networks in the optimization of a nimodipine controlled release tablet formulation. *European Journal of Pharmaceutics and Biopharmaceutics*, **2010**, 74, 316-23	5.7	39
19	Simultaneous quantitative analysis of mebendazole polymorphs A-C in powder mixtures by DRIFTS spectroscopy and ANN modeling. *Journal of Pharmaceutical and Biomedical Analysis*, **2010**, 51, 512-20	3.5	28

18	Combined effects of wetting, drying, and microcrystalline cellulose type on the mechanical strength and disintegration of pellets. *Journal of Pharmaceutical Sciences*, **2009**, 98, 676-89	3.9	27
17	Effects of moisture and residual solvent on the phase stability of orthorhombic paracetamol. *Pharmaceutical Research*, **2008**, 25, 1440-9	4.5	33
16	Image analysis by pulse coupled neural networks (PCNN)--a novel approach in granule size characterization. *Journal of Pharmacy and Pharmacology*, **2007**, 59, 51-7	4.8	2
15	Quantitative analysis of paracetamol polymorphs in powder mixtures by FT-Raman spectroscopy and PLS regression. *Journal of Pharmaceutical and Biomedical Analysis*, **2007**, 43, 407-12	3.5	72
14	Simultaneous quantification of carbamazepine crystal forms in ternary mixtures (I, III, and IV) by diffuse reflectance FTIR spectroscopy (DRIFTS) and multivariate calibration. *Journal of Pharmaceutical Sciences*, **2006**, 95, 2419-31	3.9	32
13	Dynamic moisture sorption and desorption of standard and silicified microcrystalline cellulose. *European Journal of Pharmaceutics and Biopharmaceutics*, **2006**, 64, 307-15	5.7	52
12	Drug release from tableted wet granulations comprising cellulosic (HPMC or HPC) and hydrophobic component. *European Journal of Pharmaceutics and Biopharmaceutics*, **2005**, 59, 73-83	5.7	75
11	Flow rate of some pharmaceutical diluents through die-orifices relevant to mini-tableting. *International Journal of Pharmaceutics*, **2005**, 303, 72-80	6.5	29
10	Quantitative analysis of less soluble form IV in commercial carbamazepine (form III) by diffuse reflectance fourier transform spectroscopy (DRIFTS) and lazy learning algorithm. *Analytica Chimica Acta*, **2005**, 550, 191-198	6.6	17
9	Compact size and mechanical strength of pharmaceutical diluents. *European Journal of Pharmaceutical Sciences*, **2005**, 24, 169-77	5.1	17
8	"Apparent" Young\'s elastic modulus and radial recovery for some tableted pharmaceutical excipients. *European Journal of Pharmaceutical Sciences*, **2004**, 21, 197-207	5.1	18
7	Tensile strength and disintegration of tableted silicified microcrystalline cellulose: influences of interparticle bonding. *Journal of Pharmaceutical Sciences*, **2003**, 92, 1489-501	3.9	31
6	Artificial neural networks (ANNs) and modeling of powder flow. *International Journal of Pharmaceutics*, **2003**, 250, 13-23	6.5	39
5	Effects of harvesting and cooling on crystallization and transformation of orthorhombic paracetamol in ethanolic solution. *European Journal of Pharmaceutical Sciences*, **2002**, 17, 13-21	5.1	29
4	Spherical crystal agglomeration of ibuprofen by the solvent-change technique in presence of methacrylic polymers. *Journal of Pharmaceutical Sciences*, **2000**, 89, 250-9	3.9	39
3	Relations between crystallisation conditions and micromeritic properties of ibuprofen. *International Journal of Pharmaceutics*, **2000**, 201, 79-88	6.5	27
2	Crystallization of paracetamol from ethanol-water solutions in the presence of polymers. *Journal of Pharmacy and Pharmacology*, **1999**, 51, 1219-27	4.8	11
1	Crystallisation conditions and physicomechanical properties of ibuprofen□udragit□ S100 spherical crystal agglomerates prepared by the solvent-change technique. *International Journal of Pharmaceutics*, **1998**, 173, 61-74	6.5	35