Kyriakos Kachrimanis

List of Publications by Year
in descending order

72	2,549	159585 30	206112 48
papers	citations	h-index	g-index

73	73	73	3096
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural and Energetic Aspects of Entacapone-Theophylline-Water Cocrystal. Solids, 2022, 3, 66-92.	2.4	3
2	mRNA Therapeutic Modalities Design, Formulation and Manufacturing under Pharma 4.0 Principles. Biomedicines, 2022, 10, 50.	3.2	30
3	Sildenafil 4.0â€"Integrated Synthetic Chemistry, Formulation and Analytical Strategies Effecting Immense Therapeutic and Societal Impact in the Fourth Industrial Era. Pharmaceuticals, 2021, 14, 365.	3.8	11
4	Development of a Nanocrystal Formulation of a Low Melting Point API Following a Quality by Design Approach. Processes, 2021, 9, 954.	2.8	7
5	Pharma 4.0 Continuous mRNA Drug Products Manufacturing. Pharmaceutics, 2021, 13, 1371.	4.5	17
6	Co-Spray Drying of Paracetamol and Propyphenazone with Polymeric Binders for Enabling Compaction and Stability Improvement in a Combination Tablet. Pharmaceutics, 2021, 13, 1259.	4.5	2
7	Polyelectrolyte Matrices in the Modulation of Intermolecular Electrostatic Interactions for Amorphous Solid Dispersions: A Comprehensive Review. Pharmaceutics, 2021, 13, 1467.	4.5	2
8	Potential application of low molecular weight excipients for amorphization and dissolution enhancement of carvedilol. International Journal of Pharmaceutics, 2021, 608, 121033.	5.2	11
9	Development of agomelatine nanocomposite formulations by wet media milling. European Journal of Pharmaceutical Sciences, 2021, 166, 105979.	4.0	5
10	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, 1771.	4.5	3
11	Overcoming the Solubility Barrier of Ibuprofen by the Rational Process Design of a Nanocrystal Formulation. Pharmaceutics, 2020, 12, 969.	4.5	11
12	Spray Drying for the Preparation of Nanoparticle-Based Drug Formulations as Dry Powders for Inhalation. Processes, 2020, 8, 788.	2.8	67
13	Partially hydrolyzed polyvinyl alcohol for fusion-based pharmaceutical formulation processes: Evaluation of suitable plasticizers. International Journal of Pharmaceutics, 2020, 578, 119121.	5.2	9
14	Crystallization tendency of APIs possessing different thermal and glass related properties in amorphous solid dispersions. International Journal of Pharmaceutics, 2020, 579, 119149.	5.2	22
15	Insight into the Formation of Glimepiride Nanocrystals by Wet Media Milling. Pharmaceutics, 2020, 12, 53.	4.5	16
16	Analytical and Computational Methods for the Estimation of Drug-Polymer Solubility and Miscibility in Solid Dispersions Development. Pharmaceutics, 2019, 11, 372.	4.5	42
17	Rivaroxaban polymeric amorphous solid dispersions: Moisture-induced thermodynamic phase behavior and intermolecular interactions. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 145, 98-112.	4.3	24
18	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.	4.3	7

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19	Molecular modelling and simulation of fusion-based amorphous drug dispersions in polymer/plasticizer blends. European Journal of Pharmaceutical Sciences, 2019, 130, 260-268.	4.0	21
20	Statistical moments in modelling of swelling, erosion and drug release of hydrophilic matrix-tablets. International Journal of Pharmaceutics, 2018, 540, 1-10.	5.2	16
21	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
22	Pharmaceutical nanocrystals: production by wet milling and applications. Drug Discovery Today, 2018, 23, 534-547.	6.4	213
23	Molecular simulations for amorphous drug formulation: Polymeric matrix properties relevant to hot-melt extrusion. European Journal of Pharmaceutical Sciences, 2018, 119, 259-267.	4.0	35
24	A study of water uptake by selected superdisintegrants from the sub-molecular to the particulate level. Pharmaceutical Development and Technology, 2018, 23, 476-487.	2.4	7
25	Development of a Novel Amorphous Agomelatine Formulation With Improved Storage Stability and Enhanced Bioavailability. Journal of Pharmaceutical Sciences, 2018, 107, 257-266.	3.3	5
26	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.	2.0	7
27	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.	5.2	23
28	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
29	Pharmaceutical Cocrystals: New Solid Phase Modification Approaches for the Formulation of APIs. Pharmaceutics, 2018, 10, 18.	4.5	141
30	Preparation of pharmaceutical cocrystal formulations via melt mixing technique: A thermodynamic perspective. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 131, 130-140.	4.3	7
31	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.	2.8	39
32	Production of aprepitant nanocrystals by wet media milling and subsequent solidification. International Journal of Pharmaceutics, 2017, 533, 324-334.	5.2	45
33	Preparation of respirable nanoparticle agglomerates of the low melting and ductile drug ibuprofen: Impact of formulation parameters. Powder Technology, 2017, 308, 123-134.	4.2	24
34	Crystallization kinetics of orthorhombic paracetamol from supercooled melts studied by non-isothermal DSC. Drug Development and Industrial Pharmacy, 2017, 43, 257-263.	2.0	6
35	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.	5.2	24
36	Dissolution rate enhancement and physicochemical characterization of carbamazepine-poloxamer solid dispersions. Pharmaceutical Development and Technology, 2016, 21, 268-276.	2.4	40

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37	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
38	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, 232-243.	2.4	24
39	Controlled release of 5-fluorouracil from microporous zeolites. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 197-205.	3.3	69
40	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.	4.2	17
41	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.	5.6	13
42	Physicochemical characterization of nimodipineâ€“polyethylene glycol solid dispersion systems. Drug Development and Industrial Pharmacy, 2014, 40, 886-895.	2.0	10
43	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
44	Compatibility study between trandolapril and natural excipients used in solid dosage forms. Journal of Thermal Analysis and Calorimetry, 2013, 111, 2109-2115.	3.6	26
45	Spray coating as a powerful technique in preparation of solid dispersions with enhanced desloratadine dissolution rate. Drug Development and Industrial Pharmacy, 2013, 39, 1020-1027.	2.0	12
46	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
47	Solubility enhancement of desloratadine by solid dispersion in poloxamers. International Journal of Pharmaceutics, 2012, 436, 161-170.	5.2	85
48	Dehydration Kinetics and Crystal Water Dynamics of Carbamazepine Dihydrate. Pharmaceutical Research, 2012, 29, 1143-1157.	3.5	26
49	Physicochemical characterization and decomposition kinetics of trandolapril. Thermochimica Acta, 2012, 539, 92-99.	2.7	5
50	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
51	Optimization of extended-release hydrophilic matrix tablets by support vector regression. Drug Development and Industrial Pharmacy, 2011, 37, 80-87.	2.0	7
52	Symbolic regression via genetic programming in the optimization of a controlled release pharmaceutical formulation. Chemometrics and Intelligent Laboratory Systems, 2011, 107, 75-82.	3.5	42
53	Crystallization of Paracetamol from Ethanol-water Solutions in the Presence of Polymers. Journal of Pharmacy and Pharmacology, 2010, 51, 1219-1227.	2.4	11
54	Image analysis by pulse coupled neural networks (PCNN)â€”a novel approach in granule size characterization. Journal of Pharmacy and Pharmacology, 2010, 59, 51-57.	2.4	3

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55	Simultaneous quantitative analysis of mebendazole polymorphs Aâ€“C in powder mixtures by DRIFTS spectroscopy and ANN modeling. Journal of Pharmaceutical and Biomedical Analysis, 2010, 51, 512-520.	2.8	37
56	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
57	Combined Effects of Wetting, Drying, and Microcrystalline Cellulose Type on the Mechanical Strength and Disintegration of Pellets. Journal of Pharmaceutical Sciences, 2009, 98, 676-689.	3.3	33
58	Effects of Moisture and Residual Solvent on the Phase Stability of Orthorhombic Paracetamol. Pharmaceutical Research, 2008, 25, 1440-1449.	3.5	36
59	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
60	Dynamic moisture sorption and desorption of standard and silicified microcrystalline cellulose. European Journal of Pharmaceutics and Biopharmaceutics, 2006, 64, 307-315.	4.3	58
61	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, 2419-2431.	3.3	33
62	Flow rate of some pharmaceutical diluents through die-orifices relevant to mini-tableting. International Journal of Pharmaceutics, 2005, 303, 72-80.	5.2	37
63	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.	5.4	19
64	Compact size and mechanical strength of pharmaceutical diluents. European Journal of Pharmaceutical Sciences, 2005, 24, 169-177.	4.0	19
65	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
66	â€œApparentâ€•Youngâ€™s elastic modulus and radial recovery for some tableted pharmaceutical excipients. European Journal of Pharmaceutical Sciences, 2004, 21, 197-207.	4.0	19
67	Tensile strength and disintegration of tableted silicified microcrystalline cellulose: Influences of interparticle bonding. Journal of Pharmaceutical Sciences, 2003, 92, 1489-1501.	3.3	42
68	Artificial neural networks (ANNs) and modeling of powder flow. International Journal of Pharmaceutics, 2003, 250, 13-23.	5.2	49
69	Effects of harvesting and cooling on crystallization and transformation of orthorhombic paracetamol in ethanolic solution. European Journal of Pharmaceutical Sciences, 2002, 17, 13-21.	4.0	31
70	Spherical Crystal Agglomeration of Ibuprofen by the Solventâ€€hange Technique in Presence of Methacrylic Polymers. , 2000, 89, 250-259.		46
71	Relations between crystallisation conditions and micromeritic properties of ibuprofen. International Journal of Pharmaceutics, 2000, 201, 79-88.	5.2	29
72	Crystallisation conditions and physicomechanical properties of ibuprofenâ€“EudragitÂ® S100 spherical crystal agglomerates prepared by the solvent-change technique. International Journal of Pharmaceutics, 1998, 173, 61-74.	5.2	38