Changquan Calvin Sun

List of Publications by Year in Descending Order

223 papers	7,983 citations	47 h-index	80 g-index
231 ext. papers	9,303 ext. citations	4.7 avg, IF	7.01 L-index

#	Paper	IF	Citations
223	Stress transmission coefficient is a reliable and robust parameter for quantifying powder plasticity. *Powder Technology*, **2022**, 398, 117066	5.2	0
222	Simultaneous improvement of physical stability, dissolution, bioavailability, and antithrombus efficacy of Aspirin and Ligustrazine through cocrystallization.. *International Journal of Pharmaceutics*, **2022**, 121541	6.5	2
221	Air entrapment during tablet compression - diagnosis, impact on tableting performance, and mitigation strategies.. *International Journal of Pharmaceutics*, **2022**, 121514	6.5	2
220	Mechanisms of Crystal Plasticization by Lattice Water.. *Pharmaceutical Research*, **2022**, 1	4.5	0
219	Nanomechanical testing in drug delivery: theory, applications, and emerging trends.. *Advanced Drug Delivery Reviews*, **2022**, 114167	18.5	
218	Profound effects of gastric secretion rate variations on the precipitation of erlotinib in duodenum - an in vitro investigation.. *International Journal of Pharmaceutics*, **2022**, 121722	6.5	0
217	Complexation with aromatic carboxylic acids expands the solid-state landscape of berberine.. *International Journal of Pharmaceutics*, **2022**, 617, 121587	6.5	0
216	Effect of deaeration on processability of poorly flowing powders by roller compaction.. *International Journal of Pharmaceutics*, **2022**, 621, 121803	6.5	
215	Effects of shear cell size on flowability of powders measured using a ring shear tester. *Powder Technology*, **2021**, 396, 555-555	5.2	2
214	Formulation strategies for mitigating dissolution reduction of p-aminobenzoic acid by sodium lauryl sulfate through diffusion layer modulation. *International Journal of Pharmaceutics*, **2021**, 611, 121310	6.5	0
213	Pharmaceutical Lauryl Sulfate Salts: Prevalence, Formation Rules, and Formulation Implications. *Molecular Pharmaceutics*, **2021**,	5.6	2
212	Efficient development of sorafenib tablets with improved oral bioavailability enabled by coprecipitated amorphous solid dispersion. *International Journal of Pharmaceutics*, **2021**, 610, 121216	6.5	0
211	Novel Salt-Cocrystals of Berberine Hydrochloride with Aliphatic Dicarboxylic Acids: Odd-Even Alternation in Physicochemical Properties. *Molecular Pharmaceutics*, **2021**, 18, 1758-1767	5.6	5
210	Direct compression tablet formulation of celecoxib enabled with a pharmaceutical solvate. *International Journal of Pharmaceutics*, **2021**, 596, 120239	6.5	2
209	Improving the Solubility, Dissolution, and Bioavailability of Metronidazole via Cocrystallization with Ethyl Gallate. *Pharmaceutics*, **2021**, 13,	6.4	3
208	Drug–Drug Cocrystallization Simultaneously Improves Pharmaceutical Properties of Genistein and Ligustrazine. *Crystal Growth and Design*, **2021**, 21, 3461-3468	3.5	1
207	Effects of compaction and storage conditions on stability of intravenous immunoglobulin - Implication on developing oral tablets of biologics. *International Journal of Pharmaceutics*, **2021**, 604, 120737	6.5	1

206	How Does the Dissimilarity of Screw Geometry Impact Twin-screw Melt Granulation?. *European Journal of Pharmaceutical Sciences*, **2021**, 157, 105645	5.1	3
205	Structural Insights into the Distinct Solid-State Properties and Interconversion of Celecoxib N-Methyl-2-pyrrolidone Solvates. *Crystal Growth and Design*, **2021**, 21, 277-286	3.5	3
204	Low-dose salinomycin inhibits breast cancer metastasis by repolarizing tumor hijacked macrophages toward the M1 phenotype. *European Journal of Pharmaceutical Sciences*, **2021**, 157, 105629	5.1	7
203	Reversible facile single-crystal-to-single-crystal polymorphic transition accompanied by unit cell volume expansion and twinning. *CrystEngComm*, **2021**, 23, 2648-2653	3.3	1
202	Sweet Sulfamethazine Acesulfamate Crystals with Improved Compaction Property. *Crystal Growth and Design*, **2021**, 21, 1077-1085	3.5	2
201	Structural Origins of Elastic and 2D Plastic Flexibility of Molecular Crystals Investigated with Two Polymorphs of Conformationally Rigid Coumarin. *Chemistry of Materials*, **2021**, 33, 1053-1060	9.6	15
200	Modulation of the powder properties of lamotrigine by crystal forms. *International Journal of Pharmaceutics*, **2021**, 595, 120274	6.5	2
199	Nanomechanical mapping and strain rate sensitivity of microcrystalline cellulose. *Journal of Materials Research*, **2021**, 36, 2251-2265	2.5	6
198	Effect of Lipidic Excipients on the Particle Properties and Aerosol Performance of High Drug Load Spray Dried Particles for Inhalation. *Journal of Pharmaceutical Sciences*, **2021**,	3.9	1
197	Mean yield pressure from the in-die Heckel analysis is a reliable plasticity parameter. *International Journal of Pharmaceutics: X*, **2021**, 3, 100094	3.2	4
196	Recent Advances in Co-processed APIs and Proposals for Enabling Commercialization of These Transformative Technologies. *Molecular Pharmaceutics*, **2020**, 17, 2232-2244	5.6	14
195	Mitigating Punch Sticking Propensity of Celecoxib by Cocrystallization: An Integrated Computational and Experimental Approach. *Crystal Growth and Design*, **2020**, 20, 4217-4223	3.5	14
194	A microcrystalline cellulose based drug-composite formulation strategy for developing low dose drug tablets. *International Journal of Pharmaceutics*, **2020**, 585, 119517	6.5	1
193	Reduction of Punch-Sticking Propensity of Celecoxib by Spherical Crystallization via Polymer Assisted Quasi-Emulsion Solvent Diffusion. *Molecular Pharmaceutics*, **2020**, 17, 1387-1396	5.6	12
192	Molecular Origin of the Distinct Tabletability of Loratadine and Desloratadine: Role of the Bonding Area - Bonding Strength Interplay. *Pharmaceutical Research*, **2020**, 37, 133	4.5	2
191	Toward a Molecular Understanding of the Impact of Crystal Size and Shape on Punch Sticking. *Molecular Pharmaceutics*, **2020**, 17, 1148-1158	5.6	8
190	Reducing the Sublimation Tendency of Ligustrazine through Salt Formation. *Crystal Growth and Design*, **2020**, 20, 2057-2063	3.5	4
189	Simultaneous taste-masking and oral bioavailability enhancement of Ligustrazine by forming sweet salts. *International Journal of Pharmaceutics*, **2020**, 577, 119089	6.5	8

188	Extended Release of Highly Water Soluble Isoniazid Attained through Cocrystallization with Curcumin. *Crystal Growth and Design*, **2020**, 20, 1951-1960	3.5	19
187	Intermolecular interactions and disorder in six isostructural celecoxib solvates. *Acta Crystallographica Section C, Structural Chemistry*, **2020**, 76, 632-638	0.8	3
186	Conformation Directed Interaction Anisotropy Leading to Distinct Bending Behaviors of Two ROY Polymorphs. *Crystal Growth and Design*, **2020**, 20, 4764-4769	3.5	23
185	The landscape of mechanical properties of molecular crystals. *CrystEngComm*, **2020**, 22, 1149-1153	3.3	48
184	Interfacial bonding in formulated bilayer tablets. *European Journal of Pharmaceutics and Biopharmaceutics*, **2020**, 147, 69-75	5.7	3
183	A systematic evaluation of poloxamers as tablet lubricants. *International Journal of Pharmaceutics*, **2020**, 576, 118994	6.5	3
182	A material-saving and robust approach for obtaining accurate out-of-die powder compressibility. *Powder Technology*, **2020**, 361, 903-909	5.2	4
181	Expedited Investigation of Powder Caking Aided by Rapid 3D Prototyping of Testing Devices. *Journal of Pharmaceutical Sciences*, **2020**, 109, 769-774	3.9	0
180	Molecular Interpretation of Mechanical Behavior in Four Basic Crystal Packing of Isoniazid with Homologous Cocrystal Formers. *Crystal Growth and Design*, **2020**, 20, 832-844	3.5	8
179	The role of the screw profile on granular structure and mixing efficiency of a high-dose hydrophobic drug formulation during twin screw wet granulation. *International Journal of Pharmaceutics*, **2020**, 575, 118958	6.5	9
178	Microstructures and pharmaceutical properties of ferulic acid agglomerates prepared by different spherical crystallization methods. *International Journal of Pharmaceutics*, **2020**, 574, 118914	6.5	14
177	Molecular Interpretation of the Compaction Performance and Mechanical Properties of Caffeine Cocrystals: A Polymorphic Study. *Molecular Pharmaceutics*, **2020**, 17, 21-31	5.6	8
176	Tabletability Flip - Role of Bonding Area and Bonding Strength Interplay. *Journal of Pharmaceutical Sciences*, **2020**, 109, 3569-3573	3.9	6
175	Profound tabletability deterioration of microcrystalline cellulose by magnesium stearate. *International Journal of Pharmaceutics*, **2020**, 590, 119927	6.5	2
174	Development of piroxicam mini-tablets enabled by spherical cocrystallization. *International Journal of Pharmaceutics*, **2020**, 590, 119953	6.5	7
173	The efficient development of a sildenafil orally disintegrating tablet using a material sparing and expedited approach. *International Journal of Pharmaceutics*, **2020**, 589, 119816	6.5	5
172	Discovery, Characterization, and Pharmaceutical Applications of Two Loratadine–Oxalic Acid Cocrystals. *Crystals*, **2020**, 10, 996	2.3	0
171	Material-Sparing and Expedited Development of a Tablet Formulation of Carbamazepine Glutaric Acid Cocrystal- a QbD Approach. *Pharmaceutical Research*, **2020**, 37, 153	4.5	4

170	Novel Quasi-Emulsion Solvent Diffusion-Based Spherical Cocrystallization Strategy for Simultaneously Improving the Manufacturability and Dissolution of Indomethacin. *Crystal Growth and Design*, **2020**, 20, 6752-6762	3.5	9
169	Effect of Hydroxypropyl Cellulose Level on Twin-Screw Melt Granulation of Acetaminophen. *AAPS PharmSciTech*, **2020**, 21, 240	3.9	5
168	Crystallographic and Energetic Insights into Reduced Dissolution and Physical Stability of a Drug-Surfactant Salt: The Case of Norfloxacin Lauryl Sulfate. *Molecular Pharmaceutics*, **2020**, 17, 579-587	5.6	2
167	Fast Determination of Phase Stability of Hydrates Using Intrinsic Dissolution Rate Measurements. *Crystal Growth and Design*, **2019**, 19, 5471-5476	3.5	7
166	Proportionality between powder cohesion and unconfined yield strength from shear cell testing. *Heliyon*, **2019**, 5, e01171	3.6	4
165	Developing Biologics Tablets: The Effects of Compression on the Structure and Stability of Bovine Serum Albumin and Lysozyme. *Molecular Pharmaceutics*, **2019**, 16, 1119-1131	5.6	9
164	Polymer Nanocoating of Amorphous Drugs for Improving Stability, Dissolution, Powder Flow, and Tabletability: The Case of Chitosan-Coated Indomethacin. *Molecular Pharmaceutics*, **2019**, 16, 1305-1311	5.6	24
163	Relationship between hydrate stability and accuracy of true density measured by helium pycnometry. *International Journal of Pharmaceutics*, **2019**, 567, 118444	6.5	8
162	Tableting performance of various mannitol and lactose grades assessed by compaction simulation and chemometrical analysis. *International Journal of Pharmaceutics*, **2019**, 566, 24-31	6.5	22
161	Crystal Growth of Celecoxib from Amorphous State: Polymorphism, Growth Mechanism, and Kinetics. *Crystal Growth and Design*, **2019**, 19, 3592-3600	3.5	21
160	Effects of Water on Powder Flowability of Diverse Powders Assessed by Complimentary Techniques. *Journal of Pharmaceutical Sciences*, **2019**, 108, 2613-2620	3.9	8
159	Expedited Tablet Formulation Development of a Highly Soluble Carbamazepine Cocrystal Enabled by Precipitation Inhibition in Diffusion Layer. *Pharmaceutical Research*, **2019**, 36, 90	4.5	10
158	Twistable Pharmaceutical Crystal Exhibiting Exceptional Plasticity and Tabletability. *Chemistry of Materials*, **2019**, 31, 3818-3822	9.6	51
157	Cocrystal Engineering of Itraconazole with Suberic Acid via Rotary Evaporation and Spray Drying. *Crystal Growth and Design*, **2019**, 19, 2736-2745	3.5	21
156	Computational Techniques for Predicting Mechanical Properties of Organic Crystals: A Systematic Evaluation. *Molecular Pharmaceutics*, **2019**, 16, 1732-1741	5.6	38
155	Reduced Punch Sticking Propensity of Acesulfame by Salt Formation: Role of Crystal Mechanical Property and Surface Chemistry. *Molecular Pharmaceutics*, **2019**, 16, 2700-2707	5.6	13
154	Cubosomes with surface cross-linked chitosan exhibit sustained release and bioavailability enhancement for vinpocetine.. *RSC Advances*, **2019**, 9, 6287-6298	3.7	15
153	Effect of screw profile and processing conditions on physical transformation and chemical degradation of gabapentin during twin-screw melt granulation. *European Journal of Pharmaceutical Sciences*, **2019**, 131, 243-253	5.1	17

152	Robust bulk preparation and characterization of sulfamethazine and saccharine salt and cocrystal polymorphs. *CrystEngComm*, **2019**, 21, 2089-2096	3.3	15
151	Minimum Interfacial Bonding Strength for Bilayer Tablets Determined Using a Survival Test. *Pharmaceutical Research*, **2019**, 36, 139	4.5	3
150	Insights into the effect of compaction pressure and material properties on interfacial bonding strength of bilayer tablets. *Powder Technology*, **2019**, 354, 867-876	5.2	5
149	Effect of particle size on interfacial bonding strength of bilayer tablets. *Powder Technology*, **2019**, 356, 97-101	5.2	4
148	Single-Crystal Plasticity Defies Bulk-Phase Mechanics in Isoniazid Cocrystals with Analogous Coformers. *Crystal Growth and Design*, **2019**, 19, 4465-4475	3.5	5
147	Structural Features of Sulfamethizole and Its Cocrystals: Beauty Within. *Crystal Growth and Design*, **2019**, 19, 7185-7192	3.5	9
146	Improving Powder Characteristics by Surface Modification Using Atomic Layer Deposition. *Organic Process Research and Development*, **2019**, 23, 2362-2368	3.9	8
145	Profoundly Improved Plasticity and Tabletability of Griseofulvin by in Situ Solvation and Desolvation during Spherical Crystallization. *Crystal Growth and Design*, **2019**, 19, 2350-2357	3.5	13
144	Spherical Cocrystallization: An Enabling Technology for the Development of High Dose Direct Compression Tablets of Poorly Soluble Drugs. *Crystal Growth and Design*, **2019**, 19, 2503-2510	3.5	12
143	Exceptionally Elastic Single-Component Pharmaceutical Crystals. *Chemistry of Materials*, **2019**, 31, 1794-1799	9.9	59
142	Direct Compression Tablet Containing 99% Active Ingredient-A Tale of Spherical Crystallization. *Journal of Pharmaceutical Sciences*, **2019**, 108, 1396-1400	3.9	28
141	Effects of thermal binders on chemical stabilities and tabletability of gabapentin granules prepared by twin-screw melt granulation. *International Journal of Pharmaceutics*, **2019**, 559, 37-47	6.5	16
140	A platform direct compression formulation for low dose sustained-release tablets enabled by a dual particle engineering approach. *Powder Technology*, **2019**, 342, 856-863	5.2	5
139	Improving solid-state properties of berberine chloride through forming a salt cocrystal with citric acid. *International Journal of Pharmaceutics*, **2019**, 554, 14-20	6.5	32
138	Mechanism for the Reduced Dissolution of Ritonavir Tablets by Sodium Lauryl Sulfate. *Journal of Pharmaceutical Sciences*, **2019**, 108, 516-524	3.9	16
137	Structures and Properties of Granules Prepared By High Shear Wet Granulation **2019**, 119-147		1
136	The relationship among tensile strength, Young's modulus, and indentation hardness of pharmaceutical compacts. *Powder Technology*, **2018**, 331, 1-6	5.2	32
135	A mesoporous silica based platform to enable tablet formulations of low dose drugs by direct compression. *International Journal of Pharmaceutics*, **2018**, 539, 184-189	6.5	10

134	Systematic evaluation of common lubricants for optimal use in tablet formulation. *European Journal of Pharmaceutical Sciences*, **2018**, 117, 118-127	5.1	24
133	Identifying Slip Planes in Organic Polymorphs by Combined Energy Framework Calculations and Topology Analysis. *Crystal Growth and Design*, **2018**, 18, 1909-1916	3.5	48
132	Reduced interface spin polarization by antiferromagnetically coupled Mn segregated to the Co2MnSi/GaAs (001) interface. *Physical Review B*, **2018**, 97,	3.3	6
131	Crystal and Particle Engineering Strategies for Improving Powder Compression and Flow Properties to Enable Continuous Tablet Manufacturing by Direct Compression. *Journal of Pharmaceutical Sciences*, **2018**, 107, 968-974	3.9	47
130	Comparative analyses of flow and compaction properties of diverse mannitol and lactose grades. *International Journal of Pharmaceutics*, **2018**, 546, 39-49	6.5	33
129	Modulating Sticking Propensity of Pharmaceuticals Through Excipient Selection in a Direct Compression Tablet Formulation. *Pharmaceutical Research*, **2018**, 35, 113	4.5	16
128	Relating the tableting behavior of piroxicam polytypes to their crystal structures using energy-vector models. *International Journal of Pharmaceutics*, **2018**, 543, 46-51	6.5	7
127	Preparation, Characterization, and Formulation Development of Drug-Drug Protic Ionic Liquids of Diphenhydramine with Ibuprofen and Naproxen. *Molecular Pharmaceutics*, **2018**, 15, 4190-4201	5.6	26
126	Lack of dependence of mechanical properties of baicalein cocrystals on those of the constituent components. *CrystEngComm*, **2018**, 20, 5486-5489	3.3	8
125	Ribbon density and milling parameters that determine fines fraction in a dry granulation. *Powder Technology*, **2018**, 338, 162-167	5.2	13
124	Cocrystallization of Curcumin with Benzenediols and Benzenetriols via Rapid Solvent Removal. *Crystal Growth and Design*, **2018**, 18, 5534-5546	3.5	23
123	Subsurface nucleation of supercooled acetaminophen. *CrystEngComm*, **2018**, 20, 6867-6870	3.3	2
122	A systematic evaluation of dual functionality of sodium lauryl sulfate as a tablet lubricant and wetting enhancer. *International Journal of Pharmaceutics*, **2018**, 552, 139-147	6.5	14
121	Anion Exchange Reaction for Preparing Acesulfame Solid Forms. *Crystal Growth and Design*, **2018**, 18, 4215-4219	3.5	13
120	Microstructure of Tablet-Pharmaceutical Significance, Assessment, and Engineering. *Pharmaceutical Research*, **2017**, 34, 918-928	4.5	47
119	Self-templating accelerates precipitation of carbamazepine dihydrate during the dissolution of a soluble carbamazepine cocrystal. *CrystEngComm*, **2017**, 19, 1156-1159	3.3	14
118	Powder properties and compaction parameters that influence punch sticking propensity of pharmaceuticals. *International Journal of Pharmaceutics*, **2017**, 521, 374-383	6.5	37
117	Dapagliflozin-citric acid cocrystal showing better solid state properties than dapagliflozin. *European Journal of Pharmaceutical Sciences*, **2017**, 104, 255-261	5.1	42

116	Superior Plasticity and Tabletability of Theophylline Monohydrate. *Molecular Pharmaceutics*, **2017**, 14, 2047-2055	5.6	53
115	Dependence of Punch Sticking on Compaction Pressure-Roles of Particle Deformability and Tablet Tensile Strength. *Journal of Pharmaceutical Sciences*, **2017**, 106, 2060-2067	3.9	22
114	Role of Surface Free Energy in Powder Behavior and Tablet Strength **2017**, 75-88		3
113	Ribbon thickness influences fine generation during dry granulation. *International Journal of Pharmaceutics*, **2017**, 529, 87-88	6.5	9
112	Gaining insight into tablet capping tendency from compaction simulation. *International Journal of Pharmaceutics*, **2017**, 524, 111-120	6.5	30
111	Tensile and shear methods for measuring strength of bilayer tablets. *International Journal of Pharmaceutics*, **2017**, 523, 121-126	6.5	13
110	Particle Engineering for Enabling a Formulation Platform Suitable for Manufacturing Low-Dose Tablets by Direct Compression. *Journal of Pharmaceutical Sciences*, **2017**, 106, 1772-1777	3.9	28
109	Lubrication with magnesium stearate increases tablet brittleness. *Powder Technology*, **2017**, 309, 126-132	5.2	26
108	Relationships among Crystal Structures, Mechanical Properties, and Tableting Performance Probed Using Four Salts of Diphenhydramine. *Crystal Growth and Design*, **2017**, 17, 6030-6040	3.5	42
107	Dependence of Friability on Tablet Mechanical Properties and a Predictive Approach for Binary Mixtures. *Pharmaceutical Research*, **2017**, 34, 2901-2909	4.5	23
106	Improving Dissolution Rate of Carbamazepine-Glutaric Acid Cocrystal Through Solubilization by Excess Coformer. *Pharmaceutical Research*, **2017**, 35, 4	4.5	30
105	Expedited development of a high dose orally disintegrating metformin tablet enabled by sweet salt formation with acesulfame. *International Journal of Pharmaceutics*, **2017**, 532, 435-443	6.5	28
104	The suitability of common compressibility equations for characterizing plasticity of diverse powders. *International Journal of Pharmaceutics*, **2017**, 532, 124-130	6.5	44
103	Expedited Development of Diphenhydramine Orally Disintegrating Tablet through Integrated Crystal and Particle Engineering. *Molecular Pharmaceutics*, **2017**, 14, 3399-3408	5.6	17
102	Tablets of multi-unit pellet system for controlled drug delivery. *Journal of Controlled Release*, **2017**, 262, 222-231	11.7	37
101	Mechanical Properties and Tableting Behavior of Amorphous Solid Dispersions. *Journal of Pharmaceutical Sciences*, **2017**, 106, 217-223	3.9	21
100	A top coating strategy with highly bonding polymers to enable direct tableting of multiple unit pellet system (MUPS). *Powder Technology*, **2017**, 305, 591-596	5.2	12
99	Preparation of slab-shaped lactose carrier particles for dry powder inhalers by air jet milling. *Asian Journal of Pharmaceutical Sciences*, **2017**, 12, 59-65	9	1

98	The phenomenon of tablet flashing Its impact on tableting data analysis and a method to eliminate it. *Powder Technology*, **2017**, 305, 117-124	5.2	23
97	Mechanism and Kinetics of Punch Sticking of Pharmaceuticals. *Journal of Pharmaceutical Sciences*, **2017**, 106, 151-158	3.9	41
96	Enhancing Bioavailability of Dihydromyricetin through Inhibiting Precipitation of Soluble Cocrystals by a Crystallization Inhibitor. *Crystal Growth and Design*, **2016**, 16, 5030-5039	3.5	56
95	Harvesting Potential Dissolution Advantages of Soluble Cocrystals by Depressing Precipitation Using the Common Coformer Effect. *Crystal Growth and Design*, **2016**, 16, 6719-6721	3.5	23
94	Resveratrol cocrystals with enhanced solubility and tabletability. *International Journal of Pharmaceutics*, **2016**, 509, 391-399	6.5	67
93	Analytical method development for powder characterization: Visualization of the critical drug loading affecting the processability of a formulation for direct compression. *Journal of Pharmaceutical and Biomedical Analysis*, **2016**, 128, 462-468	3.5	14
92	A critical Examination of the Phenomenon of Bonding Area - Bonding Strength Interplay in Powder Tableting. *Pharmaceutical Research*, **2016**, 33, 1126-32	4.5	84
91	Quantifying effects of moisture content on flow properties of microcrystalline cellulose using a ring shear tester. *Powder Technology*, **2016**, 289, 104-108	5.2	63
90	Sweet Berberine. *Crystal Growth and Design*, **2016**, 16, 933-939	3.5	54
89	The development of carbamazepine-succinic acid cocrystal tablet formulations with improved in vitro and in vivo performance. *Drug Development and Industrial Pharmacy*, **2016**, 42, 969-76	3.6	41
88	Macroindentation hardness measurement-Modernization and applications. *International Journal of Pharmaceutics*, **2016**, 506, 262-7	6.5	31
87	A classification system for tableting behaviors of binary powder mixtures. *Asian Journal of Pharmaceutical Sciences*, **2016**, 11, 486-491	9	16
86	Enabling the Tablet Product Development of 5-Fluorocytosine by Conjugate Acid Base Cocrystals. *Journal of Pharmaceutical Sciences*, **2016**, 105, 1960-1966	3.9	11
85	Process optimization of dry granulation based tableting line: Extracting physical material characteristics from granules, ribbons and tablets using near-IR (NIR) spectroscopic measurement. *Powder Technology*, **2016**, 300, 120-125	5.2	25
84	Mini review: Mechanisms to the loss of tabletability by dry granulation. *European Journal of Pharmaceutics and Biopharmaceutics*, **2016**, 106, 9-14	5.7	62
83	Solid-state characterization of optically pure (+)Dihydromyricetin extracted from Ampelopsis grossedentata leaves. *International Journal of Pharmaceutics*, **2016**, 511, 245-252	6.5	27
82	Designing micellar nanocarriers with improved drug loading and stability based on solubility parameter. *Molecular Pharmaceutics*, **2015**, 12, 816-25	5.6	41
81	Dependence of tablet brittleness on tensile strength and porosity. *International Journal of Pharmaceutics*, **2015**, 493, 208-13	6.5	24

80	From molecular salt to pseudo CAB cocrystal: Expanding solid-state landscape of carboxylic acids based on charge-assisted COOH?COO hydrogen bonds. *Journal of Molecular Structure*, **2015**, 1099, 516-522	3.4	36
79	Development of highly stabilized curcumin nanoparticles by flash nanoprecipitation and lyophilization. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 94, 436-49	5.7	47
78	Solvent and additive interactions as determinants in the nucleation pathway: general discussion. *Faraday Discussions*, **2015**, 179, 383-420	3.6	15
77	Nucleation in complex multi-component and multi-phase systems: general discussion. *Faraday Discussions*, **2015**, 179, 503-42	3.6	1
76	Near-infrared chemical imaging (NIR-CI) as a process monitoring solution for a production line of roll compaction and tableting. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 93, 293-302	5.7	39
75	A new tablet brittleness index. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 93, 260-6	5.7	36
74	Dependence of ejection force on tableting speed A compaction simulation study. *Powder Technology*, **2015**, 279, 123-126	5.2	46
73	Validation and applications of an expedited tablet friability method. *International Journal of Pharmaceutics*, **2015**, 484, 146-55	6.5	61
72	Significant Expansion of the Solid State Landscape of Salicylic Acid Based on Charge-Assisted Hydrogen Bonding Interactions. *Crystal Growth and Design*, **2015**, 15, 24-28	3.5	24
71	Tabletability Modulation Through Surface Engineering. *Journal of Pharmaceutical Sciences*, **2015**, 104, 2645-8	3.9	25
70	Correlation Among Crystal Structure, Mechanical Behavior, and Tabletability in the Co-Crystals of Vanillin Isomers. *Crystal Growth and Design*, **2015**, 15, 1827-1832	3.5	90
69	Effect of heating rate and kinetic model selection on activation energy of nonisothermal crystallization of amorphous felodipine. *Journal of Pharmaceutical Sciences*, **2014**, 103, 3950-3957	3.9	6
68	Assessment of the relative performance of a confined impinging jets mixer and a multi-inlet vortex mixer for curcumin nanoparticle production. *European Journal of Pharmaceutics and Biopharmaceutics*, **2014**, 88, 462-71	5.7	36
67	Effect of Crystal Habit on Intrinsic Dissolution Behavior of Celecoxib Due to Differential Wettability. *Crystal Growth and Design*, **2014**, 14, 5283-5292	3.5	38
66	Design and Preparation of a 4:1 Lamivudine Oxalic Acid CAB Cocrystal for Improving the Lamivudine Purification Process. *Crystal Growth and Design*, **2014**, 14, 3990-3995	3.5	21
65	Kinetic Entrapment of a Hidden Curcumin Cocrystal with Phloroglucinol. *Crystal Growth and Design*, **2014**, 14, 5079-5089	3.5	54
64	Origin of Deteriorated Crystal Plasticity and Compaction Properties of a 1:1 Cocrystal between Piroxicam and Saccharin. *Crystal Growth and Design*, **2014**, 14, 3864-3874	3.5	63
63	Enabling tablet product development of 5-fluorocytosine through integrated crystal and particle engineering. *Journal of Pharmaceutical Sciences*, **2014**, 103, 1126-32	3.9	31

62	A formulation strategy for solving the overgranulation problem in high shear wet granulation. *Journal of Pharmaceutical Sciences*, **2014**, 103, 2434-40	3.9	20
61	Evolution of structure and properties of granules containing microcrystalline cellulose and polyvinylpyrrolidone during high-shear wet granulation. *Journal of Pharmaceutical Sciences*, **2014**, 103, 207-15	3.9	20
60	Improved solid-state stability of salts by cocrystallization between conjugate acid–base pairs. *CrystEngComm*, **2013**, 15, 5756	3.3	49
59	Synthon preference in O-protonated amide crystals – dominance of short strong hydrogen bonds. *CrystEngComm*, **2013**, 15, 8941	3.3	18
58	Improving manufacturability of an ibuprofen powder blend by surface coating with silica nanoparticles. *Powder Technology*, **2013**, 249, 290-296	5.2	41
57	Enabling direct compression of formulated Danshen powder by surface engineering. *Powder Technology*, **2013**, 241, 211-218	5.2	20
56	Protonation of Cytosine: Cytosinium vs Hemicytosinium Duplexes. *Crystal Growth and Design*, **2013**, 13, 429-432	3.5	31
55	Cocrystallization for successful drug delivery. *Expert Opinion on Drug Delivery*, **2013**, 10, 201-13	8	159
54	Impact of Crystal Habit on Biopharmaceutical Performance of Celecoxib. *Crystal Growth and Design*, **2013**, 13, 2824-2832	3.5	61
53	Design, synthesis, and characterization of new 5-fluorocytosine salts. *Molecular Pharmaceutics*, **2013**, 10, 2462-6	5.6	25
52	A pitfall in analyzing powder compactibility data using nonlinear regression. *Journal of Pharmaceutical Sciences*, **2013**, 102, 1135-6	3.9	6
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