Tonglei Li

List of Publications by Year in Descending Order

97 papers	1,950 citations	24 h-index	41 g-index
116 ext. papers	2,345 ext. citations	5.1 avg, IF	5.36 L-index

#	Paper	IF	Citations
97	Biodistribution and Non-linear Gene Expression of mRNA LNPs Affected by Delivery Route and Particle Size.. *Pharmaceutical Research*, **2022**, 39, 105	4.5	4
96	Paclitaxel Drug Delivery Systems: Focus on Nanocrystals' Surface Modifications.. *Polymers*, **2022**, 14,	4.5	4
95	Interaction Locality in Molecular Crystals **2022**, 503-532		
94	Double substitution leads to a highly polymorphic system in 5-methyl-2-m-tolylamino-benzoic acid. *CrystEngComm*, **2021**, 24, 95-106	3.3	1
93	Nanoparticle-Mediated Cytoplasmic Delivery of Messenger RNA Vaccines: Challenges and Future Perspectives. *Pharmaceutical Research*, **2021**, 38, 473-478	4.5	29
92	Multiphysics Modeling and Simulation of Subcutaneous Injection and Absorption of Biotherapeutics: Model Development. *Pharmaceutical Research*, **2021**, 38, 607-624	4.5	4
91	Preferential Oxycodone Loss of Physically Manipulated Abuse Deterrent Oxycodone HCl Extended Release Tablets Prepared for Nasal Insufflation Studies. *Pharmaceutical Research*, **2021**, 38, 1263-1278	4.5	2
90	Multiphysics Modeling and Simulation of Subcutaneous Injection and Absorption of Biotherapeutics: Sensitivity Analysis. *Pharmaceutical Research*, **2021**, 38, 1011-1030	4.5	4
89	Intracellular uptake of nanocrystals: Probing with aggregation-induced emission of fluorescence and kinetic modeling. *Acta Pharmaceutica Sinica B*, **2021**, 11, 1021-1029	15.5	3
88	Form selection of concomitant polymorphs: A case study informed by crystallization kinetics modeling. *AICHE Journal*, **2021**, 67, e17129	3.6	5
87	A new solvate of clonixin and a comparison of the two clonixin solvates.. *RSC Advances*, **2021**, 11, 24836-24842	3.7	0
86	Multiscale pharmacokinetic modeling of systemic exposure of subcutaneously injected biotherapeutics. *Journal of Controlled Release*, **2021**, 337, 407-416	11.7	3
85	Steric Effect Determines the Formation of Lactam lactam Dimers or Amide C?O NH (Lactam) Chain Motifs in N-Phenyl-2-hydroxynicotinanilides. *Crystal Growth and Design*, **2020**, 20, 4346-4357	3.5	4
84	Kinetic Difference between Concomitant Polymorphism and Solvent-Mediated Phase Transformation: A Case of Tolfenamic Acid. *Crystal Growth and Design*, **2020**, 20, 1779-1788	3.5	12
83	Delivering anticancer drugs as carrier-free nanocrystals **2020**, 95-115		
82	Evaluation of intestinal permeation enhancement with carboxymethyl chitosan-rhein polymeric micelles for oral delivery of paclitaxel. *International Journal of Pharmaceutics*, **2020**, 573, 118840	6.5	5
81	An investigation of the polymorphism of a potent nonsteroidal anti-inflammatory drug flunixin. *CrystEngComm*, **2020**, 22, 448-457	3.3	4

80	Local Concentrating, Not Shear Stress, That May Lead to Possible Instability of Protein Molecules During Syringe Injection: A Fluid Dynamic Study with Two-Phase Flow Model. *PDA Journal of Pharmaceutical Science and Technology*, **2019**, 73, 260-275	0.6	8
79	Hybrid drug nanocrystals. *Advanced Drug Delivery Reviews*, **2019**, 143, 115-133	18.5	49
78	Effect of Substituent Size and Isomerization on the Polymorphism of 2-(Naphthalenylamino)-benzoic Acids. *Crystal Growth and Design*, **2019**, 19, 3694-3703	3.5	1
77	Development of carrier-free nanocrystals of poorly water-soluble drugs by exploring metastable zone of nucleation. *Acta Pharmaceutica Sinica B*, **2019**, 9, 118-127	15.5	27
76	Locality and strength of intermolecular interactions in organic crystals: using conceptual density functional theory (CDFT) to characterize a highly polymorphic system. *Theoretical Chemistry Accounts*, **2019**, 138, 1	1.9	2
75	Preparation and evaluation of carboxymethyl chitosan-rhein polymeric micelles with synergistic antitumor effect for oral delivery of paclitaxel. *Carbohydrate Polymers*, **2019**, 206, 121-131	10.3	40
74	Preparation and characterization of multimodal hybrid organic and inorganic nanocrystals of camptothecin and gold. *Acta Pharmaceutica Sinica B*, **2019**, 9, 128-134	15.5	4
73	Exploring Molecular Speciation and Crystallization Mechanism of Amorphous 2-Phenylamino Nicotinic Acid. *Pharmaceutical Research*, **2018**, 35, 51	4.5	4
72	Gaining Thermodynamic Insight From Distinct Glass Formation Kinetics of Structurally Similar Organic Compounds. *Journal of Pharmaceutical Sciences*, **2018**, 107, 192-202	3.9	5
71	Crystal packing and crystallization tendency from the melt of 2-((2-ethylphenyl)amino)nicotinic acid. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2018**, 233, 9-16	1	5
70	Structural Isomerization of 2-Anilinonicotinic Acid Leads to a New Synthon in 6-Anilinonicotinic Acids. *Crystal Growth and Design*, **2018**, 18, 4849-4859	3.5	3
69	Solid-State Characterization of Three Polymorphs of an Orally Available Analog of Diethylenetriaminepentaacetic Acid. *AAPS PharmSciTech*, **2018**, 20, 8	3.9	
68	Epithelia transmembrane transport of orally administered ultrafine drug particles evidenced by environment sensitive fluorophores in cellular and animal studies. *Journal of Controlled Release*, **2018**, 270, 65-75	11.7	36
67	Zwitterion formation and subsequent carboxylate⊟pyridinium NH synthon generation through isomerization of 2-anilinonicotinic acid. *CrystEngComm*, **2018**, 20, 6126-6132	3.3	0
66	Peptidomimicry with C2-Symmetric Oligourea Derivatives of 1,2-Diaminocyclohexane and 1,2-Diphenyl-1,2-diaminoethane: Chirality and Chain Length-Dependent Conformation. *ChemistrySelect*, **2018**, 3, 11035-11041	1.8	
65	Substituent Electronegativity and Isostructurality in the Polymorphism of Clonixin Analogues. *Crystal Growth and Design*, **2018**, 18, 7006-7014	3.5	6
64	Solid-state Characterization Techniques **2018**, 89-121		0
63	Intermolecular Interactions and Computational Modeling **2018**, 123-167		2

62	Chemical Stability and Reaction **2018**, 427-461		0
61	Crystalline Nanoparticles **2018**, 463-502		1
60	Polymorphism and Phase Transitions **2018**, 169-221		3
59	Measurement and Mathematical Relationships of Cocrystal Thermodynamic Properties **2018**, 223-271		1
58	Primary Processing of Organic Crystals **2018**, 297-359		
57	Secondary Processing of Organic Crystals **2018**, 361-426		
56	Nucleation **2018**, 47-88		2
55	Impact of Supramolecular Aggregation on the Crystallization Kinetics of Organic Compounds from the Supercooled Liquid State. *Molecular Pharmaceutics*, **2017**, 14, 2126-2137	5.6	6
54	Pulmonary delivery of nanoparticle chemotherapy for the treatment of lung cancers: challenges and opportunities. *Acta Pharmacologica Sinica*, **2017**, 38, 782-797	8	117
53	Strong Hydrogen Bond Leads to a Fifth Crystalline Form and Polymorphism of Clonixin. *ChemistrySelect*, **2017**, 2, 4942-4950	1.8	11
52	Effects of Coating Materials and Processing Conditions on Flow Enhancement of Cohesive Acetaminophen Powders by High-Shear Processing With Pharmaceutical Lubricants. *Journal of Pharmaceutical Sciences*, **2017**, 106, 3022-3032	3.9	10
51	Integrating In Vitro, Modeling, and In Vivo Approaches to Investigate Warfarin Bioequivalence. *CPT: Pharmacometrics and Systems Pharmacology*, **2017**, 6, 523-531	4.5	12
50	Persistent Self-Association of Solute Molecules in Solution. *Journal of Physical Chemistry B*, **2017**, 121, 10118-10124	3.4	23
49	Exploring intracellular fate of drug nanocrystals with crystal-integrated and environment-sensitive fluorophores. *Journal of Controlled Release*, **2017**, 267, 214-222	11.7	27
48	Glycine□ pH-Dependent Polymorphism: A Perspective from Self-Association in Solution. *Crystal Growth and Design*, **2017**, 17, 5028-5033	3.5	20
47	Higher-Order Self-Assembly of Benzoic Acid in Solution. *Crystal Growth and Design*, **2017**, 17, 5049-5053	3.5	19
46	sp2CH?Cl hydrogen bond in the conformational polymorphism of 4-chloro-phenylanthranilic acid. *CrystEngComm*, **2017**, 19, 4345-4354	3.3	8
45	Impact of surfactant treatment of paclitaxel nanocrystals on biodistribution and tumor accumulation in tumor-bearing mice. *Journal of Controlled Release*, **2016**, 237, 168-76	11.7	34

44	Tautomeric Polymorphism of 4-Hydroxynicotinic Acid. *Crystal Growth and Design*, **2016**, 16, 2573-2580	3.5	17
43	Solid-State Spectroscopic Investigation of Molecular Interactions between Clofazimine and Hypromellose Phthalate in Amorphous Solid Dispersions. *Molecular Pharmaceutics*, **2016**, 13, 3964-3975	5.6	54
42	Solid-state identity of 2-hydroxynicotinic acid and its polymorphism. *CrystEngComm*, **2015**, 17, 5195-5205	3.3	15
41	Cellular Uptake Mechanism of Paclitaxel Nanocrystals Determined by Confocal Imaging and Kinetic Measurement. *AAPS Journal*, **2015**, 17, 1126-34	3.7	33
40	Reactivity of triacetone triperoxide and diacetone diperoxide: Insights from nuclear Fukui function. *Frontiers of Chemical Science and Engineering*, **2015**, 9, 114-123	4.5	3
39	Developing nanocrystals for cancer treatment. *Nanomedicine*, **2015**, 10, 2537-52	5.6	77
38	Polymorphism and solid-to-solid phase transitions of a simple organic molecule, 3-chloroisonicotinic acid. *CrystEngComm*, **2015**, 17, 2389-2397	3.3	13
37	From Competition to Commensuration by Two Major Hydrogen-Bonding Motifs. *Crystal Growth and Design*, **2014**, 14, 27-31	3.5	18
36	Pharmacokinetics and treatment efficacy of camptothecin nanocrystals on lung metastasis. *Molecular Pharmaceutics*, **2014**, 11, 226-33	5.6	24
35	Intermolecular interactions in organic crystals: gaining insight from electronic structure analysis by density functional theory. *CrystEngComm*, **2014**, 16, 7162-7171	3.3	10
34	Development and evaluation of transferrin-stabilized paclitaxel nanocrystal formulation. *Journal of Controlled Release*, **2014**, 176, 76-85	11.7	76
33	Nucleation of Conformational Polymorphs: A Computational Study of Tolfenamic Acid by Explicit Solvation. *Crystal Growth and Design*, **2014**, 14, 2709-2713	3.5	16
32	In vivo investigation of hybrid Paclitaxel nanocrystals with dual fluorescent probes for cancer theranostics. *Pharmaceutical Research*, **2014**, 31, 1450-9	4.5	40
31	Two Major Pre-Nucleation Species that are Conformationally Distinct and in Equilibrium of Self-Association. *Crystal Growth and Design*, **2013**, 13, 3303-3307	3.5	19
30	Biodistribution and bioimaging studies of hybrid paclitaxel nanocrystals: lessons learned of the EPR effect and image-guided drug delivery. *Journal of Controlled Release*, **2013**, 172, 12-21	11.7	134
29	Polymorph formation and nucleation mechanism of tolfenamic acid in solution: an investigation of pre-nucleation solute association. *Pharmaceutical Research*, **2012**, 29, 460-70	4.5	50
28	Hybrid nanocrystals: achieving concurrent therapeutic and bioimaging functionalities toward solid tumors. *Molecular Pharmaceutics*, **2011**, 8, 1985-91	5.6	59
27	Interplay between molecular conformation and intermolecular interactions in conformational polymorphism: a molecular perspective from electronic calculations of tolfenamic acid. *International Journal of Pharmaceutics*, **2011**, 418, 179-86	6.5	22

26	Phase Transition from TwoZ? = 1 Forms to aZ? = 2 Form of a Concomitant Conformational Polymorphic System. *Crystal Growth and Design*, **2011**, 11, 414-421	3.5	19
25	Preparation and antitumor study of camptothecin nanocrystals. *International Journal of Pharmaceutics*, **2011**, 415, 293-300	6.5	110
24	Electronic origin of pyridinyl N as a better hydrogen-bonding acceptor than carbonyl O. *CrystEngComm*, **2011**, 13, 6356	3.3	21
23	Enforcing Molecule Conjugation and Consequent Formation of the Acid Acid Homosynthon over the Acid Pyridine Heterosynthon in 2-Anilinonicotinic Acids. *Crystal Growth and Design*, **2010**, 10, 2465-2469	3.5	24
22	Controlled Formation of the Acid Pyridine Heterosynthon over the Acid Acid Homosynthon in 2-Anilinonicotinic Acids. *Crystal Growth and Design*, **2009**, 9, 4993-4997	3.5	31
21	Polymorphism of an Organic System Effected by the Directionality of Hydrogen-Bonding Chains. *Crystal Growth and Design*, **2008**, 8, 3137-3140	3.5	28
20	Polymorphism and Phase Behaviors of 2-(Phenylamino)nicotinic Acid. *Crystal Growth and Design*, **2008**, 8, 4006-4013	3.5	44
19	6-Oxo-1,6-dihydropyridine-3-carboxylic acid. *Acta Crystallographica Section E: Structure Reports Online*, **2007**, 63, o2784-o2784		4
18	N-(3-Chloro-2-methylphenyl)-2-oxo-1,2-dihydropyridine-3-carboxamide. *Acta Crystallographica Section E: Structure Reports Online*, **2006**, 62, o4278-o4279		4
17	Predicting Lattice Energy of Organic Crystals by Density Functional Theory with Empirically Corrected Dispersion Energy. *Journal of Chemical Theory and Computation*, **2006**, 2, 149-56	6.4	87
16	Empirically augmented density functional theory for predicting lattice energies of aspirin, acetaminophen polymorphs, and ibuprofen homochiral and racemic crystals. *Pharmaceutical Research*, **2006**, 23, 2326-32	4.5	40
15	Dissolution Study on Aspirin and Glycine Crystals. *Journal of Physical Chemistry B*, **2004**, 108, 11219-11227	3.4	22
14	A statistical support for using spectroscopic methods to validate the content uniformity of solid dosage forms. *Journal of Pharmaceutical Sciences*, **2003**, 92, 1526-30	3.9	14
13	Understanding the Formation of Etching Patterns Using a Refined Monte Carlo Simulation Model. *Crystal Growth and Design*, **2002**, 2, 177-184	3.5	5
12	Crystal Packing and Chemical Reactivity of Two Polymorphs of Flufenamic Acid with Ammonia. *Molecular Crystals and Liquid Crystals*, **2002**, 381, 121-131	0.5	18
11	How Specific Interactions between Acetaminophen and Its Additive 4-Methylacetanilide Affect Growth Morphology: Elucidation Using Etching Patterns. *Crystal Growth and Design*, **2002**, 2, 185-189	3.5	7
10	Book Reviews. Particle-Lung Infections, Lung Biology in Health and Disease Series, Volume 143. Peter Gehr and Joachim Heyder, Eds. Marcel Dekker, Inc., 270 Madison Avenue, New York, NY 1006-0602, http://www.dekker.com, 2000. xxi, 802 pp., illustrations. $225.00. Design and Analysis of Bioavailability and Bioequivalence Studies, Second Edition Revised and Expanded. Shein-Chung Chow and Jen-Pei Liu, Eds. Marcel Dekker, Inc., 270 Madison Avenue, New York, NY 1006-0602, 1999. 584 pp., illustrations. $195.00. Su. *Pharmaceutical Research*, **2000**, 17, 1439-1442	4.5	
9	Biocatalytic synthesis of vanillin. *Applied and Environmental Microbiology*, **2000**, 66, 684-7	4.8	78

8	Production and Analysis of High Resolution Polymer Replicas of Fibrillar Collagen. *Microscopy and Microanalysis*, **1999**, 5, 398-399	0.5	
7	Fractal analysis of pharmaceutical particles by atomic force microscopy. *Pharmaceutical Research*, **1998**, 15, 1222-32	4.5	23
6	NMR identification of an acyl-adenylate intermediate in the aryl-aldehyde oxidoreductase catalyzed reaction. *Journal of Biological Chemistry*, **1998**, 273, 34230-3	5.4	13
5	Comparative stereochemical analysis of glucose-binding proteins for rational design of glucose-specific agents. *Journal of Biomaterials Science, Polymer Edition*, **1998**, 9, 327-44	3.5	19
4	AFM and Fractal Analysis of Biomaterial Microtopography. *Microscopy and Microanalysis*, **1998**, 4, 926-927	0.5	1
3	Purification, characterization, and properties of an aryl aldehyde oxidoreductase from Nocardia sp. strain NRRL 5646. *Journal of Bacteriology*, **1997**, 179, 3482-7	3.5	60
2	Synthon Polymorphism and π Stacking in N-Phenyl-2-hydroxynicotinanilides. *Crystal Growth and Design*,	3.5	3
1	Nanocrystals Production, Characterization, and Application for Cancer Therapy1		3