Tonglei Li

List of Publications by Year
in descending order

97 papers	2,702 citations	186254 28 h-index	206102 48 g-index
116 all docs	116 docs citations	116 times ranked	2979 citing authors

#	Article	IF	Citations
1	Pulmonary delivery of nanoparticle chemotherapy for the treatment of lung cancers: challenges and opportunities. Acta Pharmacologica Sinica, 2017, 38, 782-797.	6.1	196
2	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.	9.9	168
3	Preparation and antitumor study of camptothecin nanocrystals. International Journal of Pharmaceutics, 2011, 415, 293-300.	5.2	124
4	Developing nanocrystals for cancer treatment. Nanomedicine, 2015, 10, 2537-2552.	3.3	104
5	Predicting Lattice Energy of Organic Crystals by Density Functional Theory with Empirically Corrected Dispersion Energy. Journal of Chemical Theory and Computation, 2006, 2, 149-156.	5.3	94
6	Development and evaluation of transferrin-stabilized paclitaxel nanocrystal formulation. Journal of Controlled Release, 2014, 176, 76-85.	9.9	94
7	Biocatalytic Synthesis of Vanillin. Applied and Environmental Microbiology, 2000, 66, 684-687.	3.1	87
8	Hybrid drug nanocrystals. Advanced Drug Delivery Reviews, 2019, 143, 115-133.	13.7	79
9	Solid-State Spectroscopic Investigation of Molecular Interactions between Clofazimine and Hypromellose Phthalate in Amorphous Solid Dispersions. Molecular Pharmaceutics, 2016, 13, 3964-3975.	4.6	69
10	Purification, characterization, and properties of an aryl aldehyde oxidoreductase from Nocardia sp. strain NRRL 5646. Journal of Bacteriology, 1997, 179, 3482-3487.	2.2	68
11	Hybrid Nanocrystals: Achieving Concurrent Therapeutic and Bioimaging Functionalities toward Solid Tumors. Molecular Pharmaceutics, 2011, 8, 1985-1991.	4.6	68
12	Nanoparticle-Mediated Cytoplasmic Delivery of MessengerÂRNA Vaccines: Challenges and Future Perspectives. Pharmaceutical Research, 2021, 38, 473-478.	3.5	63
13	Polymorph Formation and Nucleation Mechanism of Tolfenamic Acid in Solution: An Investigation of Pre-nucleation Solute Association. Pharmaceutical Research, 2012, 29, 460-470.	3.5	62
14	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.	9.9	59
15	Preparation and evaluation of carboxymethyl chitosan-rhein polymeric micelles with synergistic antitumor effect for oral delivery of paclitaxel. Carbohydrate Polymers, 2019, 206, 121-131.	10.2	52
16	Polymorphism and Phase Behaviors of 2-(Phenylamino)nicotinic Acid. Crystal Growth and Design, 2008, 8, 4006-4013.	3.0	49
17	In Vivo Investigation of Hybrid Paclitaxel Nanocrystals with Dual Fluorescent Probes for Cancer Theranostics. Pharmaceutical Research, 2014, 31, 1450-1459.	3.5	49
18	Biodistribution and Non-linear Gene Expression of mRNA LNPs Affected by Delivery Route and Particle Size. Pharmaceutical Research, 2022, 39, 105-114.	3.5	48

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19	Empirically Augmented Density Functional Theory for Predicting Lattice Energies of Aspirin, Acetaminophen Polymorphs, and Ibuprofen Homochiral and Racemic Crystals. Pharmaceutical Research, 2006, 23, 2326-2332.	3.5	42
20	Development of carrier-free nanocrystals of poorly water-soluble drugs by exploring metastable zone of nucleation. Acta Pharmaceutica Sinica B, 2019, 9, 118-127.	12.0	42
21	Cellular Uptake Mechanism of Paclitaxel Nanocrystals Determined by Confocal Imaging and Kinetic Measurement. AAPS Journal, 2015, 17, 1126-1134.	4.4	41
22	Impact of surfactant treatment of paclitaxel nanocrystals on biodistribution and tumor accumulation in tumor-bearing mice. Journal of Controlled Release, 2016, 237, 168-176.	9.9	40
23	Persistent Self-Association of Solute Molecules in Solution. Journal of Physical Chemistry B, 2017, 121, 10118-10124.	2.6	38
24	Exploring intracellular fate of drug nanocrystals with crystal-integrated and environment-sensitive fluorophores. Journal of Controlled Release, 2017, 267, 214-222.	9.9	36
25	Controlled Formation of the Acidâ^'Pyridine Heterosynthon over the Acidâ^'Acid Homosynthon in 2-Anilinonicotinic Acids. Crystal Growth and Design, 2009, 9, 4993-4997.	3.0	34
26	Fractal analysis of pharmaceutical particles by atomic force microscopy. Pharmaceutical Research, 1998, 15, 1222-1232.	3.5	30
27	Polymorphism of an Organic System Effected by the Directionality of Hydrogen-Bonding Chains. Crystal Growth and Design, 2008, 8, 3137-3140.	3.0	29
28	Pharmacokinetics and Treatment Efficacy of Camptothecin Nanocrystals on Lung Metastasis. Molecular Pharmaceutics, 2014, 11, 226-233.	4.6	29
29	Higher-Order Self-Assembly of Benzoic Acid in Solution. Crystal Growth and Design, 2017, 17, 5049-5053.	3.0	27
30	Glycineâ€™s pH-Dependent Polymorphism: A Perspective from Self-Association in Solution. Crystal Growth and Design, 2017, 17, 5028-5033.	3.0	26
31	Enforcing Moleculeâ€™s Ï€-Conjugation and Consequent Formation of the Acidâ^'Acid Homosynthon over the Acidâ^'Pyridine Heterosynthon in 2-Anilinonicotinic Acids. Crystal Growth and Design, 2010, 10, 2465-2469.	3.0	25
32	Electronic origin of pyridinyl N as a better hydrogen-bonding acceptor than carbonyl O. CrystEngComm, 2011, 13, 6356.	2.6	25
33	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, 179-186.	5.2	25
34	Phase Transition from Two Zâ€² = 1 Forms to a Zâ€² = 2 Form of a Concomitant Conformational Polymorphic System. Crystal Growth and Design, 2011, 11, 414-421.	3.0	25
35	Dissolution Study on Aspirin and Î±-Glycine Crystals. Journal of Physical Chemistry B, 2004, 108, 11219-11227.	2.6	24
36	Two Major Pre-Nucleation Species that are Conformationally Distinct and in Equilibrium of Self-Association. Crystal Growth and Design, 2013, 13, 3303-3307.	3.0	24

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37	Nucleation of Conformational Polymorphs: A Computational Study of Tolfenamic Acid by Explicit Solvation. Crystal Growth and Design, 2014, 14, 2709-2713.	3.0	24
38	Tautomeric Polymorphism of 4-Hydroxynicotinic Acid. Crystal Growth and Design, 2016, 16, 2573-2580.	3.0	23
39	Unraveling the in vivo fate and cellular pharmacokinetics of drug nanocarriers. Advanced Drug Delivery Reviews, 2019, 143, 1-2.	13.7	23
40	Paclitaxel Drug Delivery Systems: Focus on Nanocrystalsâ€™ Surface Modifications. Polymers, 2022, 14, 658.	4.5	23
41	IntegratingIn Vitro, Modeling, andIn VivoApproaches to Investigate Warfarin Bioequivalence. CPT: Pharmacometrics and Systems Pharmacology, 2017, 6, 523-531.	2.5	22
42	Comparative stereochemical analysis of glucose-binding proteins for rational design of glucose-specific agents. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 327-344.	3.5	21
43	Kinetic Difference between Concomitant Polymorphism and Solvent-Mediated Phase Transformation: A Case of Tolfenamic Acid. Crystal Growth and Design, 2020, 20, 1779-1788.	3.0	21
44	Crystal Packing and Chemical Reactivity of Two Polymorphs of Flufenamic Acid with Ammonia. Molecular Crystals and Liquid Crystals, 2002, 381, 121-131.	0.9	19
45	From Competition to Commensuration by Two Major Hydrogen-Bonding Motifs. Crystal Growth and Design, 2014, 14, 27-31.	3.0	19
46	Solid-state identity of 2-hydroxynicotinic acid and its polymorphism. CrystEngComm, 2015, 17, 5195-5205.	2.6	19
47	NMR Identification of an Acyl-adenylate Intermediate in the Aryl-aldehyde Oxidoreductase Catalyzed Reaction. Journal of Biological Chemistry, 1998, 273, 34230-34233.	3.4	18
48	^{sp2}CHâ‹¯Cl hydrogen bond in the conformational polymorphism of 4-chloro-phenylanthranilic acid. CrystEngComm, 2017, 19, 4345-4354.	2.6	18
49	Evaluation of intestinal permeation enhancement with carboxymethyl chitosan-rhein polymeric micelles for oral delivery of paclitaxel. International Journal of Pharmaceutics, 2020, 573, 118840.	5.2	18
50	Form selection of concomitant polymorphs: A case study informed by crystallization kinetics modeling. AICHE Journal, 2021, 67, e17129.	3.6	18
51	A statistical support for using spectroscopic methods to validate the content uniformity of solid dosage forms. Journal of Pharmaceutical Sciences, 2003, 92, 1526-1530.	3.3	17
52	Polymorphism and solid-to-solid phase transitions of a simple organic molecule, 3-chloroisonicotinic acid. CrystEngComm, 2015, 17, 2389-2397.	2.6	15
53	Strong Hydrogen Bond Leads to a Fifth Crystalline Form and Polymorphism of Clonixin. ChemistrySelect, 2017, 2, 4942-4950.	1.5	15
54	Intracellular uptake of nanocrystals: Probing with aggregation-induced emission of fluorescence and kinetic modeling. Acta Pharmaceutica Sinica B, 2021, 11, 1021-1029.	12.0	15

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55	Multiphysics Modeling and Simulation of Subcutaneous Injection and Absorption of Biotherapeutics: Sensitivity Analysis. Pharmaceutical Research, 2021, 38, 1011-1030.	3.5	15
56	Multiphysics Modeling and Simulation of Subcutaneous Injection and Absorption of Biotherapeutics: Model Development. Pharmaceutical Research, 2021, 38, 607-624.	3.5	14
57	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.	3.3	13
58	Multiscale pharmacokinetic modeling of systemic exposure of subcutaneously injected biotherapeutics. Journal of Controlled Release, 2021, 337, 407-416.	9.9	13
59	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.	0.5	12
60	Intermolecular interactions in organic crystals: gaining insight from electronic structure analysis by density functional theory. CrystEngComm, 2014, 16, 7162-7171.	2.6	10
61	Impact of Supramolecular Aggregation on the Crystallization Kinetics of Organic Compounds from the Supercooled Liquid State. Molecular Pharmaceutics, 2017, 14, 2126-2137.	4.6	10
62	How Specific Interactions between Acetaminophen and Its Additive 4-Methylacetanilide Affect Growth Morphology:â€‰ Elucidation Using Etching Patterns. Crystal Growth and Design, 2002, 2, 185-189.	3.0	9
63	Editorial of Special Issue â€œThe Biological Fate of Drug Nanocarriersâ€• Acta Pharmaceutica Sinica B, 2021, 11, 850-851.	12.0	9
64	Synthon Polymorphism and Ï€â€“Ï€ Stacking inN-Phenyl-2-hydroxynicotinanilides. Crystal Growth and Design, 2021, 21, 6155-6165.	3.0	9
65	Substituent Electronegativity and Isostructurality in the Polymorphism of Clonixin Analogues. Crystal Growth and Design, 2018, 18, 7006-7014.	3.0	8
66	Preparation and characterization of multimodal hybrid organic and inorganic nanocrystals of camptothecin and gold. Acta Pharmaceutica Sinica B, 2019, 9, 128-134.	12.0	8
67	6-Oxo-1,6-dihydropyridine-3-carboxylic acid. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o2784-o2784.	0.2	7
68	Formulation and Manufacturing of Solid Dosage Forms. Pharmaceutical Research, 2019, 36, 16.	3.5	7
69	Understanding the Formation of Etching Patterns Using a Refined Monte Carlo Simulation Model. Crystal Growth and Design, 2002, 2, 177-184.	3.0	6
70	Exploring Molecular Speciation and Crystallization Mechanism of Amorphous 2-Phenylamino Nicotinic Acid. Pharmaceutical Research, 2018, 35, 51.	3.5	6
71	Gaining Thermodynamic Insight From Distinct Glass Formation Kinetics of Structurally Similar Organic Compounds. Journal of Pharmaceutical Sciences, 2018, 107, 192-202.	3.3	6
72	Effect of Substituent Size and Isomerization on the Polymorphism of 2-(Naphthalenylamino)-benzoic Acids. Crystal Growth and Design, 2019, 19, 3694-3703.	3.0	6

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73	An investigation of the polymorphism of a potent nonsteroidal anti-inflammatory drug flunixin. CrystEngComm, 2020, 22, 448-457.	2.6	6
74	Crystal packing and crystallization tendency from the melt of 2-((2-ethylphenyl)amino)nicotinic acid. Zeitschrift Fur Kristallographie - Crystalline Materials, 2018, 233, 9-16.	0.8	5
75	Steric Effect Determines the Formation of Lactamâ€“Lactam Dimers or Amide Câ•OÂ·Â·Â·NH (Lactam) Chain Motifs in N-Phenyl-2-hydroxynicotinanilides. Crystal Growth and Design, 2020, 20, 4346-4357.	3.0	5
76	Polymorphism and cocrystal salt formation of 2-((2,6-dichlorophenyl)amino)benzoic acid, harvest of a second form of 2-((2,6-dimethylphenyl)amino)benzoic acid, and isomorphism between the two systems. CrystEngComm, 2022, 24, 681-690.	2.6	5
77	N-(3-Chloro-2-methylphenyl)-2-oxo-1,2-dihydropyridine-3-carboxamide. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o4278-o4279.	0.2	4
78	Reactivity of triacetone triperoxide and diacetone diperoxide: Insights from nuclear Fukui function. Frontiers of Chemical Science and Engineering, 2015, 9, 114-123.	4.4	4
79	Double substitution leads to a highly polymorphic system in 5-methyl-2-m-tolylamino-benzoic acid. CrystEngComm, 2021, 24, 95-106.	2.6	4
80	Kinetic Retraction at the Onset of Concomitant Crystallization and Implication on Polymorphic Formation. Molecular Pharmaceutics, 2022, 19, 2676-2680.	4.6	4
81	Probing Molecular Packing of Drug Substances in Nanometer Domains in Pharmaceutical Formulations Using ¹⁹F Magic Angle Spinning NMR. Journal of Physical Chemistry C, 2022, 126, 12025-12037.	3.1	4
82	Structural Isomerization of 2-Anilinonicotinic Acid Leads to a New Synthon in 6-Anilinonicotinic Acids. Crystal Growth and Design, 2018, 18, 4849-4859.	3.0	3
83	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.	1.4	3
84	A new solvate of clonixin and a comparison of the two clonixin solvates. RSC Advances, 2021, 11, 24836-24842.	3.6	3
85	pH-dependent oiling-out during the polymorph transformation of disodium guanosine 5â€²-monophosphate. CrystEngComm, 2022, 24, 1630-1637.	2.6	3
86	Understanding Formulation and Temperature Effects on Dermal Transport Kinetics by IVPT and Multiphysics Simulation. Pharmaceutical Research, 2022, 39, 893-905.	3.5	3
87	Preferential Oxycodone Loss of Physically Manipulated Abuse Deterrent Oxycodone HCl Extended Release Tablets Prepared for Nasal Insufflation Studies. Pharmaceutical Research, 2021, 38, 1263-1278.	3.5	2
88	Conformational flexibility and substitution pattern lead to polymorphism of 3-methyl-2-(phenylamino)benzoic acid. CrystEngComm, 0, , .	2.6	2
89	AFM and Fractal Analysis of Biomaterial Microtopography. Microscopy and Microanalysis, 1998, 4, 926-927.	0.4	1
90	Zwitterion formation and subsequent carboxylateâ€“pyridinium NH synthon generation through isomerization of 2-anilinonicotinic acid. CrystEngComm, 2018, 20, 6126-6132.	2.6	1

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91	Solid-State Characterization of Three Polymorphs of an Orally Available Analog of Diethylenetriaminepentaacetic Acid. AAPS PharmSciTech, 2019, 20, 8.	3.3	1
92	Challenges Ahead. Pharmaceutical Research, 2021, 38, 1-1.	3.5	1
93	Production and Analysis of High Resolution Polymer Replicas of Fibrillar Collagen. Microscopy and Microanalysis, 1999, 5, 398-399.	0.4	0
94	Title is missing!. Pharmaceutical Research, 2000, 17, 1439-1442.	3.5	0
95	Peptidomimicry with C₂â€Symmetric Oligourea Derivatives of 1,2â€Diaminocyclohexane and 1,2â€Diphenylâ€1,2â€diaminoethane: Chirality and Chain Lengthâ€Dependent Conformation. ChemistrySelect, 2018, 3, 11035-11041.	1.5	0
96	Big Shoes to Fill at A Challenging Time. Pharmaceutical Research, 2020, 37, 154.	3.5	0
97	Delivering anticancer drugs as carrier-free nanocrystals. , 2020, , 95-115.		0