

Tonglei Li

List of Publications by Year in descending order

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97
papers

2,702
citations

185998

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48
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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. <i>Acta Pharmacologica Sinica</i> , 2017, 38, 782-797.	2.8	196
2	Biodistribution and bioimaging studies of hybrid paclitaxel nanocrystals: Lessons learned of the EPR effect and image-guided drug delivery. <i>Journal of Controlled Release</i> , 2013, 172, 12-21.	4.8	168
3	Preparation and antitumor study of camptothecin nanocrystals. <i>International Journal of Pharmaceutics</i> , 2011, 415, 293-300.	2.6	124
4	Developing nanocrystals for cancer treatment. <i>Nanomedicine</i> , 2015, 10, 2537-2552.	1.7	104
5	Predicting Lattice Energy of Organic Crystals by Density Functional Theory with Empirically Corrected Dispersion Energy. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 149-156.	2.3	94
6	Development and evaluation of transferrin-stabilized paclitaxel nanocrystal formulation. <i>Journal of Controlled Release</i> , 2014, 176, 76-85.	4.8	94
7	Biocatalytic Synthesis of Vanillin. <i>Applied and Environmental Microbiology</i> , 2000, 66, 684-687.	1.4	87
8	Hybrid drug nanocrystals. <i>Advanced Drug Delivery Reviews</i> , 2019, 143, 115-133.	6.6	79
9	Solid-State Spectroscopic Investigation of Molecular Interactions between Clofazimine and Hypromellose Phthalate in Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2016, 13, 3964-3975.	2.3	69
10	Purification, characterization, and properties of an aryl aldehyde oxidoreductase from <i>Nocardia</i> sp. strain NRRL 5646. <i>Journal of Bacteriology</i> , 1997, 179, 3482-3487.	1.0	68
11	Hybrid Nanocrystals: Achieving Concurrent Therapeutic and Bioimaging Functionalities toward Solid Tumors. <i>Molecular Pharmaceutics</i> , 2011, 8, 1985-1991.	2.3	68
12	Nanoparticle-Mediated Cytoplasmic Delivery of Messenger RNA Vaccines: Challenges and Future Perspectives. <i>Pharmaceutical Research</i> , 2021, 38, 473-478.	1.7	63
13	Polymorph Formation and Nucleation Mechanism of Tolfenamic Acid in Solution: An Investigation of Pre-nucleation Solute Association. <i>Pharmaceutical Research</i> , 2012, 29, 460-470.	1.7	62
14	Epithelia transmembrane transport of orally administered ultrafine drug particles evidenced by environment sensitive fluorophores in cellular and animal studies. <i>Journal of Controlled Release</i> , 2018, 270, 65-75.	4.8	59
15	Preparation and evaluation of carboxymethyl chitosan-rhein polymeric micelles with synergistic antitumor effect for oral delivery of paclitaxel. <i>Carbohydrate Polymers</i> , 2019, 206, 121-131.	5.1	52
16	Polymorphism and Phase Behaviors of 2-(Phenylamino)nicotinic Acid. <i>Crystal Growth and Design</i> , 2008, 8, 4006-4013.	1.4	49
17	In Vivo Investigation of Hybrid Paclitaxel Nanocrystals with Dual Fluorescent Probes for Cancer Theranostics. <i>Pharmaceutical Research</i> , 2014, 31, 1450-1459.	1.7	49
18	Biodistribution and Non-linear Gene Expression of mRNA LNPs Affected by Delivery Route and Particle Size. <i>Pharmaceutical Research</i> , 2022, 39, 105-114.	1.7	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. <i>Pharmaceutical Research</i> , 2006, 23, 2326-2332.	1.7	42
20	Development of carrier-free nanocrystals of poorly water-soluble drugs by exploring metastable zone of nucleation. <i>Acta Pharmaceutica Sinica B</i> , 2019, 9, 118-127.	5.7	42
21	Cellular Uptake Mechanism of Paclitaxel Nanocrystals Determined by Confocal Imaging and Kinetic Measurement. <i>AAPS Journal</i> , 2015, 17, 1126-1134.	2.2	41
22	Impact of surfactant treatment of paclitaxel nanocrystals on biodistribution and tumor accumulation in tumor-bearing mice. <i>Journal of Controlled Release</i> , 2016, 237, 168-176.	4.8	40
23	Persistent Self-Association of Solute Molecules in Solution. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10118-10124.	1.2	38
24	Exploring intracellular fate of drug nanocrystals with crystal-integrated and environment-sensitive fluorophores. <i>Journal of Controlled Release</i> , 2017, 267, 214-222.	4.8	36
25	Controlled Formation of the Acid~Pyridine Heterosynthon over the Acid~Acid Homosynthon in 2-Anilinic Nicotinic Acids. <i>Crystal Growth and Design</i> , 2009, 9, 4993-4997.	1.4	34
26	Fractal analysis of pharmaceutical particles by atomic force microscopy. <i>Pharmaceutical Research</i> , 1998, 15, 1222-1232.	1.7	30
27	Polymorphism of an Organic System Effected by the Directionality of Hydrogen-Bonding Chains. <i>Crystal Growth and Design</i> , 2008, 8, 3137-3140.	1.4	29
28	Pharmacokinetics and Treatment Efficacy of Camptothecin Nanocrystals on Lung Metastasis. <i>Molecular Pharmaceutics</i> , 2014, 11, 226-233.	2.3	29
29	Higher-Order Self-Assembly of Benzoic Acid in Solution. <i>Crystal Growth and Design</i> , 2017, 17, 5049-5053.	1.4	27
30	Glycine's pH-Dependent Polymorphism: A Perspective from Self-Association in Solution. <i>Crystal Growth and Design</i> , 2017, 17, 5028-5033.	1.4	26
31	Enforcing Molecule's π -Conjugation and Consequent Formation of the Acid~Acid Homosynthon over the Acid~Pyridine Heterosynthon in 2-Anilinic Nicotinic Acids. <i>Crystal Growth and Design</i> , 2010, 10, 2465-2469.	1.4	25
32	Electronic origin of pyridinyl N as a better hydrogen-bonding acceptor than carbonyl O. <i>CrystEngComm</i> , 2011, 13, 6356.	1.3	25
33	Interplay between molecular conformation and intermolecular interactions in conformational polymorphism: A molecular perspective from electronic calculations of tolfenamic acid. <i>International Journal of Pharmaceutics</i> , 2011, 418, 179-186.	2.6	25
34	Phase Transition from Two $Z=1$ Forms to a $Z=2$ Form of a Concomitant Conformational Polymorphic System. <i>Crystal Growth and Design</i> , 2011, 11, 414-421.	1.4	25
35	Dissolution Study on Aspirin and \pm -Glycine Crystals. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11219-11227.	1.2	24
36	Two Major Pre-Nucleation Species that are Conformationally Distinct and in Equilibrium of Self-Association. <i>Crystal Growth and Design</i> , 2013, 13, 3303-3307.	1.4	24

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37	Nucleation of Conformational Polymorphs: A Computational Study of Tolfenamic Acid by Explicit Solvation. <i>Crystal Growth and Design</i> , 2014, 14, 2709-2713.	1.4	24
38	Tautomeric Polymorphism of 4-Hydroxynicotinic Acid. <i>Crystal Growth and Design</i> , 2016, 16, 2573-2580.	1.4	23
39	Unraveling the in vivo fate and cellular pharmacokinetics of drug nanocarriers. <i>Advanced Drug Delivery Reviews</i> , 2019, 143, 1-2.	6.6	23
40	Paclitaxel Drug Delivery Systems: Focus on Nanocrystalsâ€™ Surface Modifications. <i>Polymers</i> , 2022, 14, 658.	2.0	23
41	Integrating <i>In Vitro</i> , Modeling, and <i>In Vivo</i> Approaches to Investigate Warfarin Bioequivalence. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2017, 6, 523-531.	1.3	22
42	Comparative stereochemical analysis of glucose-binding proteins for rational design of glucose-specific agents. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998, 9, 327-344.	1.9	21
43	Kinetic Difference between Concomitant Polymorphism and Solvent-Mediated Phase Transformation: A Case of Tolfenamic Acid. <i>Crystal Growth and Design</i> , 2020, 20, 1779-1788.	1.4	21
44	Crystal Packing and Chemical Reactivity of Two Polymorphs of Flufenamic Acid with Ammonia. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 381, 121-131.	0.4	19
45	From Competition to Commensuration by Two Major Hydrogen-Bonding Motifs. <i>Crystal Growth and Design</i> , 2014, 14, 27-31.	1.4	19
46	Solid-state identity of 2-hydroxynicotinic acid and its polymorphism. <i>CrystEngComm</i> , 2015, 17, 5195-5205.	1.3	19
47	NMR Identification of an Acyl-adenylate Intermediate in the Aryl-aldehyde Oxidoreductase Catalyzed Reaction. <i>Journal of Biological Chemistry</i> , 1998, 273, 34230-34233.	1.6	18
48	^{sp2} CHâ€Cl hydrogen bond in the conformational polymorphism of 4-chloro-phenylanthranilic acid. <i>CrystEngComm</i> , 2017, 19, 4345-4354.	1.3	18
49	Evaluation of intestinal permeation enhancement with carboxymethyl chitosan-rhein polymeric micelles for oral delivery of paclitaxel. <i>International Journal of Pharmaceutics</i> , 2020, 573, 118840.	2.6	18
50	Form selection of concomitant polymorphs: A case study informed by crystallization kinetics modeling. <i>AIChE Journal</i> , 2021, 67, e17129.	1.8	18
51	A statistical support for using spectroscopic methods to validate the content uniformity of solid dosage forms. <i>Journal of Pharmaceutical Sciences</i> , 2003, 92, 1526-1530.	1.6	17
52	Polymorphism and solid-to-solid phase transitions of a simple organic molecule, 3-chloroisonicotinic acid. <i>CrystEngComm</i> , 2015, 17, 2389-2397.	1.3	15
53	Strong Hydrogen Bond Leads to a Fifth Crystalline Form and Polymorphism of Clonixin. <i>ChemistrySelect</i> , 2017, 2, 4942-4950.	0.7	15
54	Intracellular uptake of nanocrystals: Probing with aggregation-induced emission of fluorescence and kinetic modeling. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 1021-1029.	5.7	15

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55	Multiphysics Modeling and Simulation of Subcutaneous Injection and Absorption of Biotherapeutics: Sensitivity Analysis. <i>Pharmaceutical Research</i> , 2021, 38, 1011-1030.	1.7	15
56	Multiphysics Modeling and Simulation of Subcutaneous Injection and Absorption of Biotherapeutics: Model Development. <i>Pharmaceutical Research</i> , 2021, 38, 607-624.	1.7	14
57	Effects of Coating Materials and Processing Conditions on Flow Enhancement of Cohesive Acetaminophen Powders by High-Shear Processing With Pharmaceutical Lubricants. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3022-3032.	1.6	13
58	Multiscale pharmacokinetic modeling of systemic exposure of subcutaneously injected biotherapeutics. <i>Journal of Controlled Release</i> , 2021, 337, 407-416.	4.8	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. <i>PDA Journal of Pharmaceutical Science and Technology</i> , 2019, 73, 260-275.	0.3	12
60	Intermolecular interactions in organic crystals: gaining insight from electronic structure analysis by density functional theory. <i>CrystEngComm</i> , 2014, 16, 7162-7171.	1.3	10
61	Impact of Supramolecular Aggregation on the Crystallization Kinetics of Organic Compounds from the Supercooled Liquid State. <i>Molecular Pharmaceutics</i> , 2017, 14, 2126-2137.	2.3	10
62	How Specific Interactions between Acetaminophen and Its Additive 4-Methylacetanilide Affect Growth Morphology: Elucidation Using Etching Patterns. <i>Crystal Growth and Design</i> , 2002, 2, 185-189.	1.4	9
63	Editorial of Special Issue "The Biological Fate of Drug Nanocarriers". <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 850-851.	5.7	9
64	Synthon Polymorphism and π - π Stacking in <i>N</i> -Phenyl-2-hydroxynicotinanilides. <i>Crystal Growth and Design</i> , 2021, 21, 6155-6165.	1.4	9
65	Substituent Electronegativity and Isostructurality in the Polymorphism of Clonixin Analogues. <i>Crystal Growth and Design</i> , 2018, 18, 7006-7014.	1.4	8
66	Preparation and characterization of multimodal hybrid organic and inorganic nanocrystals of camptothecin and gold. <i>Acta Pharmaceutica Sinica B</i> , 2019, 9, 128-134.	5.7	8
67	6-Oxo-1,6-dihydropyridine-3-carboxylic acid. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o2784-o2784.	0.2	7
68	Formulation and Manufacturing of Solid Dosage Forms. <i>Pharmaceutical Research</i> , 2019, 36, 16.	1.7	7
69	Understanding the Formation of Etching Patterns Using a Refined Monte Carlo Simulation Model. <i>Crystal Growth and Design</i> , 2002, 2, 177-184.	1.4	6
70	Exploring Molecular Speciation and Crystallization Mechanism of Amorphous 2-Phenylamino Nicotinic Acid. <i>Pharmaceutical Research</i> , 2018, 35, 51.	1.7	6
71	Gaining Thermodynamic Insight From Distinct Glass Formation Kinetics of Structurally Similar Organic Compounds. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 192-202.	1.6	6
72	Effect of Substituent Size and Isomerization on the Polymorphism of 2-(Naphthalenylamino)-benzoic Acids. <i>Crystal Growth and Design</i> , 2019, 19, 3694-3703.	1.4	6

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73	An investigation of the polymorphism of a potent nonsteroidal anti-inflammatory drug flunixin. <i>CrystEngComm</i> , 2020, 22, 448-457.	1.3	6
74	Crystal packing and crystallization tendency from the melt of 2-((2-ethylphenyl)amino)nicotinic acid. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2018, 233, 9-16.	0.4	5
75	Steric Effect Determines the Formation of Lactam Lactam Dimers or Amide NH (Lactam) Chain Motifs in <i>N</i> -Phenyl-2-hydroxynicotinanilides. <i>Crystal Growth and Design</i> , 2020, 20, 4346-4357.	1.4	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. <i>CrystEngComm</i> , 2022, 24, 681-690.	1.3	5
77	<i>N</i> -(3-Chloro-2-methylphenyl)-2-oxo-1,2-dihydropyridine-3-carboxamide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, o4278-o4279.	0.2	4
78	Reactivity of triacetone triperoxide and diacetone diperoxide: Insights from nuclear Fukui function. <i>Frontiers of Chemical Science and Engineering</i> , 2015, 9, 114-123.	2.3	4
79	Double substitution leads to a highly polymorphic system in 5-methyl-2-m-tolylamino-benzoic acid. <i>CrystEngComm</i> , 2021, 24, 95-106.	1.3	4
80	Kinetic Retraction at the Onset of Concomitant Crystallization and Implication on Polymorphic Formation. <i>Molecular Pharmaceutics</i> , 2022, 19, 2676-2680.	2.3	4
81	Probing Molecular Packing of Drug Substances in Nanometer Domains in Pharmaceutical Formulations Using ¹⁹ F Magic Angle Spinning NMR. <i>Journal of Physical Chemistry C</i> , 2022, 126, 12025-12037.	1.5	4
82	Structural Isomerization of 2-Anilinicnicotinic Acid Leads to a New Synthons in 6-Anilinicnicotinic Acids. <i>Crystal Growth and Design</i> , 2018, 18, 4849-4859.	1.4	3
83	Locality and strength of intermolecular interactions in organic crystals: using conceptual density functional theory (CDFT) to characterize a highly polymorphic system. <i>Theoretical Chemistry Accounts</i> , 2019, 138, 1.	0.5	3
84	A new solvate of clonixin and a comparison of the two clonixin solvates. <i>RSC Advances</i> , 2021, 11, 24836-24842.	1.7	3
85	pH-dependent oiling-out during the polymorph transformation of disodium guanosine 5'-monophosphate. <i>CrystEngComm</i> , 2022, 24, 1630-1637.	1.3	3
86	Understanding Formulation and Temperature Effects on Dermal Transport Kinetics by IVPT and Multiphysics Simulation. <i>Pharmaceutical Research</i> , 2022, 39, 893-905.	1.7	3
87	Preferential Oxycodone Loss of Physically Manipulated Abuse Deterrent Oxycodone HCl Extended Release Tablets Prepared for Nasal Insufflation Studies. <i>Pharmaceutical Research</i> , 2021, 38, 1263-1278.	1.7	2
88	Conformational flexibility and substitution pattern lead to polymorphism of 3-methyl-2-(phenylamino)benzoic acid. <i>CrystEngComm</i> , 0, , .	1.3	2
89	AFM and Fractal Analysis of Biomaterial Microtopography. <i>Microscopy and Microanalysis</i> , 1998, 4, 926-927.	0.2	1
90	Zwitterion formation and subsequent carboxylate pyridinium NH synthon generation through isomerization of 2-anilinicnicotinic acid. <i>CrystEngComm</i> , 2018, 20, 6126-6132.	1.3	1

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91	Solid-State Characterization of Three Polymorphs of an Orally Available Analog of Diethylenetriaminepentaacetic Acid. <i>AAPS PharmSciTech</i> , 2019, 20, 8.	1.5	1
92	Challenges Ahead. <i>Pharmaceutical Research</i> , 2021, 38, 1-1.	1.7	1
93	Production and Analysis of High Resolution Polymer Replicas of Fibrillar Collagen. <i>Microscopy and Microanalysis</i> , 1999, 5, 398-399.	0.2	0
94	Title is missing!. <i>Pharmaceutical Research</i> , 2000, 17, 1439-1442.	1.7	0
95	Peptidomimicry with C ₂ -Symmetric Oligourea Derivatives of 1,2-Diaminocyclohexane and 1,2-Diphenyl-1,2-diaminoethane: Chirality and Chain Length-Dependent Conformation. <i>ChemistrySelect</i> , 2018, 3, 11035-11041.	0.7	0
96	Big Shoes to Fill at A Challenging Time. <i>Pharmaceutical Research</i> , 2020, 37, 154.	1.7	0
97	Delivering anticancer drugs as carrier-free nanocrystals. , 2020, , 95-115.		0