Tom Leyssens

List of Publications by Year
in descending order

45	1,618	304743	289244
papers	citations	22 h-index	40 g-index

47	47	47	1937
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessment of Recent Process Analytical Technology (PAT) Trends: A Multiauthor Review. Organic Process Research and Development, 2015, 19, 3-62.	2.7	329
2	Innovative Chiral Resolution Using Enantiospecific Co-Crystallization in Solution. Crystal Growth and Design, 2012, 12, 3374-3378.	3.0	93
3	How Important Is Metalâ^'Ligand Back-Bonding toward YX3Ligands (Y = N, P, C, Si)? An NBO Analysis. Organometallics, 2007, 26, 2637-2645.	2.3	79
4	Advances in Pharmaceutical Co-crystal Screening: Effective Co-crystal Screening through Structural Resemblance. Crystal Growth and Design, 2012, 12, 475-484.	3.0	77
5	Mechanistic Insight into the (NHC)copper(I)-Catalyzed Hydrosilylation of Ketones. Organometallics, 2014, 33, 1953-1963.	2.3	70
6	Importance of Solvent Selection for Stoichiometrically Diverse Cocrystal Systems: Caffeine/Maleic Acid 1:1 and 2:1 Cocrystals. Crystal Growth and Design, 2012, 12, 1520-1530.	3.0	69
7	Cocrystal Formation between Chiral Compounds: How Cocrystals Differ from Salts. Crystal Growth and Design, 2014, 14, 3996-4004.	3.0	57
8	Negative Hyperconjugation in Phosphorus Stabilized Carbanions. Journal of Organic Chemistry, 2008, 73, 2725-2730.	3.2	51
9	Optimization of a Crystallization by Online FBRM Analysis of Needle-Shaped Crystals. Organic Process Research and Development, 2011, 15, 413-426.	2.7	51
10	Unprecedented Copper(I) Bifluoride Complexes: Synthesis, Characterization and Reactivity. Chemistry - A European Journal, 2012, 18, 793-798.	3.3	51
11	Polymorphic and Isomorphic Cocrystals of a N-Salicylidene-3-aminopyridine with Dicarboxylic Acids: Tuning of Solid-State Photo- and Thermochromism. Journal of Physical Chemistry C, 2016, 120, 10001-10008.	3.1	51
12	Origin of Enantioselective Hydrogenation of Ketones by RuH2(diphosphine)(diamine) Catalysts: A Theoretical Study. Organometallics, 2008, 27, 1514-1523.	2.3	50
13	On the influence of using a zwitterionic coformer for cocrystallization: structural focus on naproxenâ€“proline cocrystals. CrystEngComm, 2013, 15, 3341.	2.6	44
14	Opening Pandoraâ€™s Box: Chirality, Polymorphism, and Stoichiometric Diversity in Flurbiprofen/Proline Cocrystals. Crystal Growth and Design, 2018, 18, 954-961.	3.0	44
15	Capturing the Monomeric (L)CuH in NHCâ€Capped Cyclodextrin: Cavityâ€Controlled Chemoselective Hydrosilylation of Î±,Î²â€Unsaturated Ketones. Angewandte Chemie - International Edition, 2020, 59, 7591-7597.	13.8	44
16	Dual-Drug Chiral Resolution: Enantiospecific Cocrystallization of (S)-Ibuprofen Using Levetiracetam. Crystal Growth and Design, 2018, 18, 441-448.	3.0	42
17	Cocrystallizationâ€Induced Spontaneous Deracemization: A General Thermodynamic Approach to Deracemization. Angewandte Chemie - International Edition, 2020, 59, 11303-11306.	13.8	36
18	Insight into metalâ€“phosphorus bonding from analysis of the electronic structure of redox pairs of metalâ€“phosphine complexes. New Journal of Chemistry, 2005, 29, 1424.	2.8	32

#	Article	IF	Citations
19	Structural insight into cocrystallization with zwitterionic co-formers: cocrystals of S-naproxen. CrystEngComm, 2014, 16, 8185.	2.6	31
20	NHCâ€“copper(I) bifluoride complexes: â€œAuto-activatingâ€•catalysts. Journal of Organometallic Chemistry, 2013, 730, 95-103.	1.8	28
21	Enabling Enantiopurity: Combining Racemization and Dual-Drug Co-crystal Resolution. Crystal Growth and Design, 2018, 18, 3654-3660.	3.0	26
22	Assessing Density Functional Theory Approaches for Predicting the Structure and Relative Energy of Salicylideneaniline Molecular Switches in the Solid State. Journal of Physical Chemistry C, 2017, 121, 6898-6908.	3.1	25
23	Chiral Resolution of Mandelic Acid through Preferential Cocrystallization with Nefiracetam. Crystal Growth and Design, 2020, 20, 7979-7988.	3.0	24
24	Solid-state chiral resolution mediated by stoichiometry: crystallizing etiracetam with ZnCl₂. Chemical Communications, 2018, 54, 10890-10892.	4.1	20
25	Predicting Ketoâ€“Enol Equilibrium from Combining UV/Visible Absorption Spectroscopy with Quantum Chemical Calculations of Vibronic Structures for Many Excited States. A Case Study on Salicylideneanilines. Journal of Physical Chemistry A, 2018, 122, 5370-5374.	2.5	19
26	Chiral Resolution of RS-Oxiracetam upon Cocrystallization with Pharmaceutically Acceptable Inorganic Salts. Crystal Growth and Design, 2020, 20, 2602-2607.	3.0	18
27	Simultaneous Chiral Resolution of Two Racemic Compounds by Preferential Cocrystallization**. Angewandte Chemie - International Edition, 2021, 60, 20264-20268.	13.8	18
28	Ionic Cocrystals of Etiracetam and Levetiracetam: The Importance of Chirality for Ionic Cocrystals. Crystal Growth and Design, 2019, 19, 2446-2454.	3.0	17
29	Improving Nefiracetam Dissolution and Solubility Behavior Using a Cocrystallization Approach. Pharmaceutics, 2020, 12, 653.	4.5	16
30	Enantioâ€; Regioâ€•and Chemoselective Copperâ€Catalyzed 1,2â€Hydroborylation of Acylsilanes. Chemistry - A European Journal, 2019, 25, 8705-8708.	3.3	15
31	Capturing the Monomeric (L)CuH in NHCâ€Capped Cyclodextrin: Cavityâ€Controlled Chemoselective Hydrosilylation of Î±,Î²â€Unsaturated Ketones. Angewandte Chemie, 2020, 132, 7661-7667.	2.0	13
32	Cocrystallizationâ€Induced Spontaneous Deracemization: A General Thermodynamic Approach to Deracemization. Angewandte Chemie, 2020, 132, 11399-11402.	2.0	10
33	Chiral Resolution via Cocrystallization with Inorganic Salts. Israel Journal of Chemistry, 2021, 61, 563-572.	2.3	10
34	Co-Crystallization-Induced Spontaneous Deracemization: An Optimization Study. Organic Process Research and Development, 2021, 25, 884-891.	2.7	9
35	Urea as a Cocrystal Formerâ€”Study of 3 Urea Based Pharmaceutical Cocrystals. Pharmaceutics, 2021, 13, 671.	4.5	9
36	The importance of screening solid-state phases of a racemic modification of a chiral drug: thermodynamic and structural characterization of solid-state phases of etiracetam. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2013, 69, 371-378.	1.1	8

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37	Combining API in a dual-drug ternary cocrystal approach. Chemical Communications, 2020, 56, 13229-13232.	4.1	8
38	Effects of Empirical Dispersion Energy on the Geometrical Parameters and Relative Energy of a Salicylideneaniline Molecular Switch in the Solid State. Crystals, 2018, 8, 125.	2.2	6
39	<scp>l</scp>-Proline, a resolution agent able to target both enantiomers of mandelic acid: an exciting case of stoichiometry controlled chiral resolution. Chemical Communications, 0, , .	4.1	5
40	Periodic DFT Study of the Effects of Coâ€Crystallization on a Nâ€Salicylideneaniline Molecular Switch. ChemPhysChem, 2019, 20, 2434-2442.	2.1	3
41	Identifying, Characterizing, and Understanding Nefiracetam in Its Solid State Forms: A Potential Antidementia Drug. Journal of Pharmaceutical Sciences, 2019, 108, 3616-3622.	3.3	3
42	Fungicide Precursor Racemization Kinetics for Deracemization in Complex Systems. European Journal of Organic Chemistry, 2021, 2021, 473-482.	2.4	3
43	Combining Racetams with a Sweetener through Complexation. Crystal Growth and Design, 2022, 22, 3016-3023.	3.0	2
44	Unraveling the Effects of Co-Crystallization on the UV/Vis Absorption Spectra of an N-Salicylideneaniline Derivative. A Computational RI-CC2 Investigation. Molecules, 2020, 25, 4512.	3.8	1
45	Simultaneous Chiral Resolution of Two Racemic Compounds by Preferential Cocrystallization**. Angewandte Chemie, 2021, 133, 20426-20430.	2.0	1