

Davin Tan

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

3,537
citations

218677

26
h-index

189892

50
g-index

66
all docs

66
docs citations

66
times ranked

3402
citing authors

#	ARTICLE	IF	CITATIONS
1	Main group mechanochemistry: from curiosity to established protocols. <i>Chemical Society Reviews</i> , 2019, 48, 2274-2292.	38.1	361
2	Towards medicinal mechanochemistry: evolution of milling from pharmaceutical solid form screening to the synthesis of active pharmaceutical ingredients (APIs). <i>Chemical Communications</i> , 2016, 52, 7760-7781.	4.1	303
3	An Air-Stable Copper Reagent for Nucleophilic Trifluoromethylthiolation of Aryl Halides. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1548-1552.	13.8	281
4	Mechanochemistry for Organic Chemists: An Update. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 18-33.	2.4	245
5	Twisted intramolecular charge transfer (TICT) and twists beyond TICT: from mechanisms to rational designs of bright and sensitive fluorophores. <i>Chemical Society Reviews</i> , 2021, 50, 12656-12678.	38.1	221
6	Stable Tetrabenzo-Chichibabin TM s Hydrocarbons: Tunable Ground State and Unusual Transition between Their Closed-Shell and Open-Shell Resonance Forms. <i>Journal of the American Chemical Society</i> , 2012, 134, 14513-14525.	13.7	218
7	Direct Asymmetric Vinylogous Aldol Reaction of Allyl Ketones with Isatins: Divergent Synthesis of 3-Hydroxy-2-oxindole Derivatives. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6666-6670.	13.8	158
8	Mechanochemical Ruthenium-Catalyzed Olefin Metathesis. <i>Journal of the American Chemical Society</i> , 2015, 137, 2476-2479.	13.7	134
9	Quantitative Design of Bright Fluorophores and AIEgens by the Accurate Prediction of Twisted Intramolecular Charge Transfer (TICT). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10160-10172.	13.8	131
10	Highly Enantio- and Diastereoselective Reactions of β -Substituted Butenolides Through Direct Vinylogous Conjugate Additions. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10069-10073.	13.8	124
11	Mechanosynthesis of pharmaceutically relevant sulfonyl-(thio)ureas. <i>Chemical Communications</i> , 2014, 50, 5248-5250.	4.1	114
12	Development of C-N Coupling Using Mechanochemistry: Catalytic Coupling of Arylsulfonamides and Carbodiimides. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9321-9324.	13.8	103
13	An enantioconvergent halogenophilic nucleophilic substitution (S_N2X) reaction. <i>Science</i> , 2019, 363, 400-404.	12.6	100
14	Completely Solvent-free Protocols to Access Phase-Pure, Metastable Metal Halide Perovskites and Functional Photodetectors from the Precursor Salts. <i>IScience</i> , 2019, 16, 312-325.	4.1	80
15	An Approach to Developing Cyanines with Simultaneous Intersystem Crossing Enhancement and Excited-State Lifetime Elongation for Photodynamic Antitumor Metastasis. <i>Journal of the American Chemical Society</i> , 2021, 143, 12345-12354.	13.7	80
16	A concise, efficient synthesis of sugar-based benzothiazoles through chemoselective intramolecular C-S coupling. <i>Chemical Science</i> , 2012, 3, 2388.	7.4	67
17	(Guanidine)copper Complex-Catalyzed Enantioselective Dynamic Kinetic Allylic Alkynylation under Biphasic Condition. <i>Journal of the American Chemical Society</i> , 2018, 140, 8448-8455.	13.7	54
18	Oxidative Mechanochemistry: Direct, Room-Temperature, Solvent-Free Conversion of Palladium and Gold Metals into Soluble Salts and Coordination Complexes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2667-2671.	13.8	52

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19	Descriptor \hat{P}^G Enables the Quantitative Design of Spontaneously Blinking Rhodamines for Live-Cell Super-Resolution Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20215-20223.	13.8	50
20	Highly Enantio- and Diastereoselective Allylic Alkylation of Morita-Baylis-Hillman Carbonates with Allyl Ketones. <i>Journal of Organic Chemistry</i> , 2013, 78, 5067-5072.	3.2	40
21	Quantitative Design of Bright Fluorophores and AIEgens by the Accurate Prediction of Twisted Intramolecular Charge Transfer (TICT). <i>Angewandte Chemie</i> , 2020, 132, 10246-10258.	2.0	36
22	A unified fluorescence quenching mechanism of tetrazine-based fluorogenic dyes: energy transfer to a dark state. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7012-7021.	5.9	28
23	Fluorinated azobenzenes with highly strained geometries for halogen bond-driven self-assembly in the solid state. <i>CrystEngComm</i> , 2015, 17, 73-80.	2.6	27
24	Direct Asymmetric Allylic Alkenylation of <i>N</i> -Itaconimides with Morita-Baylis-Hillman Carbonates. <i>Journal of Organic Chemistry</i> , 2012, 77, 6600-6607.	3.2	26
25	Enantioselective 1,2-Anionotropic Rearrangement of Acylsilane through a Bisguanidinium Silicate Ion Pair. <i>Journal of the American Chemical Society</i> , 2018, 140, 1952-1955.	13.7	26
26	Orthogonality in main group compounds: a direct one-step synthesis of air- and moisture-stable cyclophosphazanes by mechanochemistry. <i>Chemical Communications</i> , 2018, 54, 6800-6803.	4.1	23
27	Mechanosynthesis of Higher-Order Cocrystals: Tuning Order, Functionality and Size in Cocrystal Design**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17481-17490.	13.8	22
28	Molecular Recognition of Steroid Hormones in the Solid State: Stark Differences in Cocrystallization of \hat{P}^2 -Estradiol and Estrone. <i>Crystal Growth and Design</i> , 2015, 15, 1492-1501.	3.0	21
29	High-fidelity imaging of amyloid-beta deposits with an ultrasensitive fluorescent probe facilitates the early diagnosis and treatment of Alzheimer's Disease. <i>Theranostics</i> , 2022, 12, 2549-2559.	10.0	20
30	Carbodiimide insertion into sulfonimides: one-step route to azepine derivatives via a two-atom saccharin ring expansion. <i>Chemical Communications</i> , 2017, 53, 901-904.	4.1	19
31	Restriction of Twisted Intramolecular Charge Transfer Enables the Aggregation-Induced Emission of 1-(<i>N,N</i> -Dialkylamino)-naphthalene Derivatives. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8397-8403.	2.5	19
32	Descriptor \hat{P}^G Enables the Quantitative Design of Spontaneously Blinking Rhodamines for Live-Cell Super-Resolution Imaging. <i>Angewandte Chemie</i> , 2020, 132, 20390-20398.	2.0	18
33	Oxidative Mechanochemistry: Direct, Room-Temperature, Solvent-Free Conversion of Palladium and Gold Metals into Soluble Salts and Coordination Complexes. <i>Angewandte Chemie</i> , 2018, 130, 2697-2701.	2.0	17
34	Catalytic Room-Temperature $C\sim N$ Coupling of Amides and Isocyanates by Using Mechanochemistry. <i>ChemSusChem</i> , 2020, 13, 2966-2972.	6.8	17
35	A Descriptor for Accurate Predictions of Host Molecules Enabling Ultralong Room-Temperature Phosphorescence in Guest Emitters. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	17
36	<i>cis</i> -Cyclodiphosphazanes as highly stable and robust main group supramolecular building blocks. <i>CrystEngComm</i> , 2018, 20, 5998-6004.	2.6	10

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37	A route to hydroxylfluorenes: TsOH-mediated condensation reactions of 1,3-diketones with propargylic alcohols. <i>RSC Advances</i> , 2012, 2, 7594.	3.6	9
38	Synthesis of Unique Phosphazane Macrocycles via Steric Activation of C–N Bonds. <i>Inorganic Chemistry</i> , 2018, 57, 10993-11004.	4.0	9
39	Catalytic Diastereoselective Tandem Conjugate Addition–Elimination Reaction of Morita–Baylis–Hillman Adducts by C–C Bond Cleavage. <i>Chemistry - an Asian Journal</i> , 2012, 7, 771-777.	3.3	6
40	Mechanochemical nanoparticle functionalization for liquid crystal nanocomposites based on COOH-pyridine heterosynthons. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1789-1796.	5.5	6
41	Importance of thorough conformational analysis in modelling transition metal-mediated reactions: Case studies on pincer complexes containing phosphine groups. <i>Journal of Saudi Chemical Society</i> , 2019, 23, 1206-1218.	5.2	6
42	A Descriptor for Accurate Predictions of Host Molecules Enabling Ultralong Room-Temperature Phosphorescence in Guest Emitters. <i>Angewandte Chemie</i> , 0, , .	2.0	6
43	Thermal equilibria between conformers enable highly reliable single-fluorophore ratiometric thermometers. <i>Analyst</i> , 2021, 146, 4219-4225.	3.5	5
44	Real-Time Observation of “Soft-Magic-Size Clusters during Hydrolysis of the Model Metallodrug Bismuth Disalicylate. <i>Journal of the American Chemical Society</i> , 2021, 143, 16332-16336.	13.7	5
45	DFT mechanistic study of the selective terminal C–H activation of n-pentane with a tungsten allyl nitrosyl complex. <i>Journal of Saudi Chemical Society</i> , 2017, 21, 558-562.	5.2	3
46	Mechanosynthesis of Higher-Order Cocrystals: Tuning Order, Functionality and Size in Cocrystal Design**. <i>Angewandte Chemie</i> , 2021, 133, 17622-17631.	2.0	2
47	Cover Feature: Mechanochemistry for Organic Chemists: An Update (<i>Eur. J. Org. Chem.</i> 1/2018). <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2-2.	2.4	1
48	Innenr¼cktitelbild: Direct Asymmetric Vinylogous Aldol Reaction of Allyl Ketones with Isatins: Divergent Synthesis of 3-Hydroxy-2-Oxindole Derivatives (<i>Angew. Chem.</i> 26/2013). <i>Angewandte Chemie</i> , 2013, 125, 6919-6919.	2.0	0
49	Investigating the solid-state assembly of pharmaceutically-relevant N,N-dimethyl-O-thiocarbamates in the absence of labile hydrogen bonds. <i>CrystEngComm</i> , 2020, 22, 8290-8298.	2.6	0