

Choon-Hong Tan

List of Publications by Year in descending order

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66234

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98
times ranked

4686
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#	ARTICLE	IF	CITATIONS
1	Chiral Guanidine Catalyzed Enantioselective Reactions. <i>Chemistry - an Asian Journal</i> , 2009, 4, 488-507.	1.7	268
2	Graphene oxide and Rose Bengal: oxidative C-H functionalisation of tertiary amines using visible light. <i>Green Chemistry</i> , 2011, 13, 3341.	4.6	268
3	Enantioselective Synthesis of Chiral Allenolates by Guanidine-Catalyzed Isomerization of 3-Alkynoates. <i>Journal of the American Chemical Society</i> , 2009, 131, 7212-7213.	6.6	246
4	Dehydrogenative coupling reactions catalysed by Rose Bengal using visible light irradiation. <i>Green Chemistry</i> , 2011, 13, 2682.	4.6	239
5	Chiral Bicyclic Guanidine-Catalyzed Enantioselective Reactions of Anthrones. <i>Journal of the American Chemical Society</i> , 2006, 128, 13692-13693.	6.6	189
6	Enantioselective Protonation Catalyzed by a Chiral Bicyclic Guanidine Derivative. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5641-5645.	7.2	183
7	Mechanistic considerations of guanidine-catalyzed reactions. <i>Chemical Communications</i> , 2011, 47, 8210.	2.2	175
8	Structural Basis for the Inhibition Mechanism of Human Cystathionine β -Lyase, an Enzyme Responsible for the Production of H ₂ S. <i>Journal of Biological Chemistry</i> , 2009, 284, 3076-3085.	1.6	166
9	Pentamidium-Catalyzed Enantioselective α -Hydroxylation of Oxindoles Using Molecular Oxygen. <i>Organic Letters</i> , 2012, 14, 4762-4765.	2.4	151
10	Halogen-Bonding-Induced Hydrogen Transfer to C-N Bond with Hantzsch Ester. <i>Organic Letters</i> , 2014, 16, 3244-3247.	2.4	139
11	Synthesis of a Chiral Quaternary Carbon Center Bearing a Fluorine Atom: Enantio- and Diastereoselective Guanidine-Catalyzed Addition of Fluorocarbon Nucleophiles. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3627-3631.	7.2	138
12	Organic dye photocatalyzed α -oxyamination through irradiation with visible light. <i>Green Chemistry</i> , 2010, 12, 953.	4.6	138
13	Catalytic Enantioselective Alkylation of Sulfonate Anions to Chiral Heterocyclic Sulfoxides Using Halogenated Pentamidium Salts. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11849-11853.	7.2	138
14	Pentamidium-Catalyzed Enantioselective Phase-Transfer Conjugate Addition Reactions. <i>Journal of the American Chemical Society</i> , 2011, 133, 2828-2831.	6.6	135
15	Enantioselective Aerobic Oxidative C(sp ³)-H Olefination of Amines via Cooperative Photoredox and Asymmetric Catalysis. <i>ACS Catalysis</i> , 2016, 6, 3708-3712.	5.5	127
16	Highly Enantio- and Diastereoselective Reactions of β -Substituted Butenolides Through Direct Vinylogous Conjugate Additions. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10069-10073.	7.2	124
17	Phase-Transfer and Ion-Pairing Catalysis of Pentamidiums and Bisguanidiniums. <i>Accounts of Chemical Research</i> , 2017, 50, 842-856.	7.6	119
18	Chiral Guanidinium Salt Catalyzed Enantioselective Phospha-Mannich Reactions. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7387-7390.	7.2	114

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19	Bicyclic guanidine-catalyzed enantioselective phospho-Michael reaction: synthesis of chiral β -aminophosphine oxides and β -aminophosphines. <i>Chemical Communications</i> , 2007, , 5058.	2.2	113
20	Chiral Bicyclic Guanidine as a Versatile Brønsted Base Catalyst for the Enantioselective Michael Reactions of Dithiomalonates and β -Keto Thioesters. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 2454-2458.	2.1	107
21	Organocatalytic Enantioselective Protonation for Photoreduction of Activated Ketones and Ketimines Induced by Visible Light. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13842-13846.	7.2	101
22	An enantioconvergent halogenophilic nucleophilic substitution (S_N2) reaction. <i>Science</i> , 2019, 363, 400-404.	6.0	100
23	Enantioselective Synthesis of β -Fluorinated β -Amino Acid Derivatives by an Asymmetric Mannich Reaction and Selective Deacylation/Decarboxylation Reactions. <i>Chemistry - A European Journal</i> , 2010, 16, 779-782.	1.7	94
24	Expanding the Utility of Brønsted Base Catalysis: Biomimetic Enantioselective Decarboxylative Reactions. <i>Chemistry - A European Journal</i> , 2011, 17, 8363-8370.	1.7	93
25	Hydrogen sulfide donors in research and drug development. <i>MedChemComm</i> , 2014, 5, 557-570.	3.5	84
26	Enantiodivergent and β -Selective Asymmetric Allylic Amination. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2382-2386.	7.2	83
27	Rate Acceleration of Triethylamine-Mediated Guanidine-Catalyzed Enantioselective Michael Reaction. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2345-2351.	2.1	79
28	Enantioselective Oxidation of Alkenes with Potassium Permanganate Catalyzed by Chiral Dicationic Bisguanidinium. <i>Journal of the American Chemical Society</i> , 2015, 137, 10677-10682.	6.6	79
29	Pentamidium- and Bisguanidinium-Catalyzed Enantioselective Alkylations Using Silylamide as Brønsted Probase. <i>Journal of the American Chemical Society</i> , 2016, 138, 9935-9940.	6.6	67
30	Catalytic Reductive Cross Coupling and Enantioselective Protonation of Olefins to Construct Remote Stereocenters for Azaarenes. <i>Journal of the American Chemical Society</i> , 2021, 143, 4024-4031.	6.6	65
31	Mechanistic Insights into Bicyclic Guanidine-Catalyzed Reactions from Microscopic and Macroscopic Perspectives. <i>Journal of Organic Chemistry</i> , 2015, 80, 5745-5752.	1.7	63
32	Brønsted Base-Catalyzed Tandem Isomerization-Michael Reactions of Alkynes: Synthesis of Oxacycles and Azacycles. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 3373-3379.	2.1	61
33	Bicyclic guanidine-catalyzed asymmetric Michael additions of 3-benzyl-substituted oxindoles to N-maleimides. <i>Chemical Communications</i> , 2012, 48, 5124.	2.2	61
34	Fluorinated Aromatic Ketones as Nucleophiles in the Asymmetric Organocatalytic Formation of $C-C$ and $C-N$ Bonds: A Facile Route to the Construction of Fluorinated Quaternary Stereogenic Centers. <i>Chemistry - A European Journal</i> , 2011, 17, 3571-3574.	1.7	58
35	(Guanidine)copper Complex-Catalyzed Enantioselective Dynamic Kinetic Allylic Alkynylation under Biphasic Condition. <i>Journal of the American Chemical Society</i> , 2018, 140, 8448-8455.	6.6	54
36	Chiral Bicyclic Guanidine-Catalyzed Enantioselective Sulfenylation of Oxindoles and Benzofuran-2(3H)-ones. <i>Journal of Organic Chemistry</i> , 2015, 80, 8933-8941.	1.7	52

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37	Enantioselective Sulfoxidation Catalyzed by a Bisguanidinium Diphosphatobisperoxotungstate Ion Pair. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7101-7105.	7.2	52
38	Development of highly-efficient ZIF-8@PDMS/PVDF nanofibrous composite membrane for phenol removal in aqueous-aqueous membrane extractive process. <i>Journal of Membrane Science</i> , 2018, 568, 121-133.	4.1	52
39	Bisguanidinium dinuclear oxodiperoxomolybdosulfate ion pair-catalyzed enantioselective sulfoxidation. <i>Nature Communications</i> , 2016, 7, 13455.	5.8	48
40	Metal-free pinnick-type oxidative amidation of aldehydes. <i>RSC Advances</i> , 2012, 2, 5536.	1.7	45
41	Enantioselective Synthesis of Quaternary Carbon Stereocenters: Addition of 3-Substituted Oxindoles to Vinyl Sulfone Catalyzed by Pentanidiums. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9390-9393.	7.2	44
42	Stereospecific and stereoconvergent nucleophilic substitution reactions at tertiary carbon centers. <i>CheM</i> , 2021, 7, 1451-1486.	5.8	42
43	Guanidine-catalyzed enantioselective desymmetrization of meso-aziridines. <i>Chemical Communications</i> , 2011, 47, 3897.	2.2	41
44	Bicyclic guanidinium-catalyzed enantioselective phase-transfer alkylation: direct access to pyrroloindolines and furoindolines. <i>Chemical Communications</i> , 2013, 49, 9854.	2.2	41
45	Hyperfast Water Transport through Biomimetic Nanochannels from Peptide-Attached (pR)-pillar[5]arene. <i>Small</i> , 2019, 15, e1804678.	5.2	41
46	Metal-catalysed reactions enabled by guanidine-type ligands. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 4689-4699.	1.5	40
47	Recent Advances in Enantioselective Brønsted Base Organocatalytic Reactions. <i>Synlett</i> , 2017, 28, 1272-1277.	1.0	39
48	Organocatalytic Asymmetric Mannich Reactions of 5-Hydroxyoxazolones: Highly Enantio- and Diastereoselective Synthesis of Chiral α -Alkylisoserine Derivatives. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 1505-1511.	2.1	37
49	Catalytic Asymmetric Conjugate Addition of Mercaptans to 2-Substituted 2-Trifluoromethyl Oxazolidinone Enoates: Access to Chiral Trifluoromethylated Tertiary Thioethers and Thiols. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 1292-1300.	2.1	37
50	Recent Advances in Chiral Guanidine-Catalyzed Enantioselective Reactions. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3803-3822.	1.7	37
51	Synthesis of chiral sulfinatate esters by asymmetric condensation. <i>Nature</i> , 2022, 604, 298-303.	13.7	37
52	Guanidine-Copper Complex Catalyzed Allylic Borylation for the Enantioconvergent Synthesis of Tertiary Cyclic Allylboronates. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2382-2386.	7.2	36
53	Bicyclic Guanidine-Catalyzed Direct Asymmetric Allylic Addition of <i>N</i> -Aryl Alkyldene-Succinimides. <i>Chemistry - A European Journal</i> , 2010, 16, 12534-12537.	1.7	35
54	Enantioselective Synthesis of Dialkylated β -Hydroxy Carboxylic Acids through Asymmetric Phase-Transfer Catalysis. <i>Journal of Organic Chemistry</i> , 2015, 80, 7770-7778.	1.7	34

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55	Preparation of Polydimethylsiloxane/Polyvinylidene Fluoride Composite Membranes for Phenol Removal in Extractive Membrane Bioreactor. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 3436-3445.	1.8	31
56	Enantioselective transition metal catalysis directed by chiral cations. <i>Chemical Science</i> , 2021, 12, 533-539.	3.7	29
57	Asymmetric Michael Addition of <i>N</i> -Oxazolones to Vinyl Sulfones: Stereoselective Synthesis of Monofluorinated Analogs of <i>tert</i> -Hydroxylated Methyl Substituted Carboxylic Acid Derivatives. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 3777-3783.	2.1	27
58	Halogen Bonding-Induced Conjugate Addition of Thiophenes to Enones and Enals. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2656-2661.	1.7	27
59	Catalytic Reactions of Chiral Guanidines and Guanidinium Salts. <i>Synlett</i> , 2010, 2010, 1589-1605.	1.0	26
60	Synthesis of Sulfur Substituted Stereogenic Amides and Ketones: Highly Enantioselective Sulfamide Michael Additions of 1,4-Dicarbonylbutanes. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2624-2630.	2.1	26
61	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.	6.6	26
62	Development of high performance nanofibrous composite membranes by optimizing polydimethylsiloxane architectures for phenol transport. <i>Journal of Membrane Science</i> , 2018, 549, 638-648.	4.1	26
63	Repurposing the anticancer drug cisplatin with the aim of developing novel <i>Pseudomonas aeruginosa</i> infection control agents. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 3059-3069.	1.3	25
64	Kinetic and Dynamic Kinetic Resolution of Racemic Tertiary Bromides by Pentanidium-Catalyzed Phase Transfer Azidation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9055-9058.	7.2	25
65	Asymmetric Brook Rearrangement. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 25-31.	1.3	24
66	Dendrimer hydrazides as multivalent transient inter-cellular linkers. <i>Biomaterials</i> , 2008, 29, 3693-3702.	5.7	23
67	Bicyclic Guanidine-Catalyzed Asymmetric Michael Addition of Substituted Oxindoles to Cyclopentenone. <i>Chemistry - an Asian Journal</i> , 2013, 8, 2960-2964.	1.7	20
68	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.	1.1	19
69	Bicyclic Guanidine Catalyzed Asymmetric Tandem Isomerization Intramolecular Diels-Alder Reaction: The First Catalytic Enantioselective Total Synthesis of (+)- α -Yohimbine. <i>Chemistry - an Asian Journal</i> , 2016, 11, 390-394.	1.7	17
70	A Descriptor for Accurate Predictions of Host Molecules Enabling Ultralong Room Temperature Phosphorescence in Guest Emitters. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	17
71	Cancer-targeted design of bioresponsive prodrug with enhanced cellular uptake to achieve precise cancer therapy. <i>Drug Delivery</i> , 2018, 25, 1350-1361.	2.5	15
72	Bisguanidinium-Catalyzed Epoxidation of Allylic and Homoallylic Amines under Phase Transfer Conditions. <i>ACS Catalysis</i> , 2020, 10, 2684-2691.	5.5	15

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73	Highly chemo-, enantio-, and diastereoselective [4 + 2] cycloaddition of 5 <i>H</i> -thiazol-4-ones with <i>N</i> -itaconimides. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 2293-2297.	1.3	12
74	The Development of Organocatalytic Asymmetric Reduction of Carbonyls and Imines Using Silicon Hydrides. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 3091-3112.	1.2	12
75	Enantioselective Addition-Alkylation of α,β -Unsaturated Carbonyls via Bisguanidinium Silicate Ion Pair Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 19065-19070.	6.6	11
76	Enantioselective Protonation Catalyzed by Chiral Brønsted Bases. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2013, 71, 1145-1151.	0.0	10
77	Guanidine-Copper Complex Catalyzed Allylic Borylation for the Enantioconvergent Synthesis of Tertiary Cyclic Allylboronates. <i>Angewandte Chemie</i> , 2019, 131, 2404-2408.	1.6	8
78	Kinetic and Dynamic Kinetic Resolution of Racemic Tertiary Bromides by Pentanidium-Catalyzed Phase-Transfer Azidation. <i>Angewandte Chemie</i> , 2020, 132, 9140-9143.	1.6	8
79	Monocationic Cinchoninium Catalyzed Asymmetric Oxohydroxylation of Enoates. <i>ACS Catalysis</i> , 2021, 11, 15141-15148.	5.5	8
80	Enantioselective Sulfoxidation Catalyzed by a Bisguanidinium Diphosphatobisperoxotungstate Ion Pair. <i>Angewandte Chemie</i> , 2016, 128, 7217-7221.	1.6	7
81	Pentanidium-Catalyzed Direct Assembly of Vicinal All-Carbon Quaternary Stereocenters through C(sp ³)-C(sp ³) Bond Formation. <i>Journal of Organic Chemistry</i> , 2021, 86, 10784-10791.	4.6	7
82	Molybdenum/Tungsten-Based Heteropoly Salts in Oxidations. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2753-2772.	1.7	6
83	A Descriptor for Accurate Predictions of Host Molecules Enabling Ultralong Room-Temperature Phosphorescence in Guest Emitters. <i>Angewandte Chemie</i> , 2021, 133, 1-10.	1.6	6
84	Advanced Synthesis Using Photocatalysis Involved Dual Catalytic System. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	5
85	<i>In silico</i> characterization and prediction of thiourea-like neutral bidentate halogen bond catalysts. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 7051-7060.	1.5	1
86	Dicyanopyrazine-derived Chromophore as An Efficient Photocatalyst for α -Amino C-H Bond Functionalization. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 2876-2879.	1.3	1
87	Direct S _N 2 or S _N 2X Mechanistic Study of Ion-Pair-Catalyzed Carbon(sp ³) ³ -Carbon(sp ³) Bond Formation. <i>Journal of Organic Chemistry</i> , 2022, 87, 4029-4039.	1.7	1
88	Cluster Preface: Asymmetric Brønsted Base Catalysis. <i>Synlett</i> , 2017, 28, 1270-1271.	1.0	0
89	Golden Jubilee of Singapore National Institute of Chemistry (1970-2020): Celebrating its Partnership with Wiley-VCH. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19728-19731.	7.2	0
90	Golden Jubilee of Singapore National Institute of Chemistry (1970-2020): Celebrating its Partnership with Wiley-VCH. <i>Angewandte Chemie</i> , 2020, 132, 19896-19899.	1.6	0