Tao Wang

List of Publications by Year
in descending order

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61	2,016	236612	253896
papers	citations	25	43
		h-index	g-index

77	77	77	1600
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis of Highly Substituted 3â€Formylfurans by a Gold(I)â€Catalyzed Oxidation/1,2â€Alkynyl Migration/Cyclization Cascade. Angewandte Chemie - International Edition, 2014, 53, 3715-3719.	7.2	151
2	Regioselectivity Switch: Gold(I)-Catalyzed Oxidative Rearrangement of Propargyl Alcohols to 1,3-Diketones. Journal of Organic Chemistry, 2012, 77, 7761-7767.	1.7	132
3	Goldâ€Catalyzed Synthesis of Glyoxals by Oxidation of Terminal Alkynes: Oneâ€Pot Synthesis of Quinoxalines. Chemistry - A European Journal, 2013, 19, 6576-6580.	1.7	124
4	1,2-Migrations onto Gold Carbene Centers. Chemical Reviews, 2021, 121, 8948-8978.	23.0	122
5	Story of an Age-Old Reagent: An Electrophilic Chlorination of Arenes and Heterocycles by 1-Chloro-1,2-benziodoxol-3-one. Organic Letters, 2016, 18, 1976-1979.	2.4	90
6	Synthesis of Fully Substituted 3â€Formylâ€4â€Iodofurans via a Gold(I)â€Catalyzed Oxidation/1,2â€Alkynyl Migration/Cyclization/Iodination Cascade. Advanced Synthesis and Catalysis, 2014, 356, 2337-2342.	2.1	86
7	Chemoselective Cï¿¿C Bond Cleavage of Epoxide Motifs: Gold(I)â€Catalyzed Diastereoselective [4+3] Cycloadditions of 1â€(1â€Alkynyl)oxiranyl Ketones and Nitrones. Chemistry - A European Journal, 2011, 17, 86-90.	1.7	80
8	Synthesis of 2-acylfurans from 3-(1-alkynyl)-2-alken-1-ones via the oxidation of goldâ€“carbene intermediates by H2O2. Dalton Transactions, 2010, 39, 4270.	1.6	72
9	Synthesis of 2,5-Dihydrofurans via a Gold(I)-Catalyzed Formal [4 + 1] Cycloaddition of Î±-Diazoesters and Propargyl Alcohols. Organic Letters, 2015, 17, 5124-5127.	2.4	65
10	Gold(I)â€Catalyzed Diastereoselective Hydroacylation of Terminal Alkynes with Glyoxals. Angewandte Chemie - International Edition, 2014, 53, 1148-1151.	7.2	60
11	Synthesis of Highly Substituted Nâ€(Furanâ€3â€ylmethylene)benzenesulfonamides by a Gold(I)â€Catalyzed Oxidation/1,2â€Alkynyl Migration/Cyclization Cascade. Chemistry - A European Journal, 2014, 20, 14868-14871.	1.7	60
12	Unexpected Câ€“C bond cleavage of epoxide motif: Rhodium(<scp>i</scp>)-catalyzed tandem heterocyclization/[4+1] cycloaddition of 1-(1-alkynyl)oxiranyl ketones. Chemical Communications, 2011, 47, 5578-5580.	2.2	51
13	Covalent Organic Frameworks in Catalytic Organic Synthesis. Advanced Synthesis and Catalysis, 2021, 363, 144-193.	2.1	49
14	Synthesis of Benzoaryl-5-yl(2-hydroxyphenyl)methanones via Photoinduced Rearrangement of (E)-3-Arylvinyl-4H-chromen-4-ones. Organic Letters, 2017, 19, 5984-5987.	2.4	44
15	Synthesis of Polycyclic Indole Skeletons by a Gold(I)â€Catalyzed Cascade Reaction. Chemistry - A European Journal, 2014, 20, 292-296.	1.7	40
16	Cascade Câ•O/Câ•C/Câ€“N Bond Formation: Metal-Free Reactions of 1,4-Diynes and 1-En-4-yn-3-ones with Isoquinoline and Quinoline N-Oxides. Organic Letters, 2017, 19, 4327-4330.	2.4	38
17	Goldâ€Catalyzed Transformations of Propargyl Alcohols and Propargyl Amines. Asian Journal of Organic Chemistry, 2018, 7, 1758-1783.	1.3	38
18	Bioactivity-Guided Synthesis Accelerates the Discovery of 3-(Iso)quinolinyl-4-chromenones as Potent Fungicide Candidates. Journal of Agricultural and Food Chemistry, 2021, 69, 491-500.	2.4	38

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19	Nitrones as Trapping Reagents of Î±,Î²â€Unsaturated Carbene Intermediates â€“ [1,2]Oxazino[5,4â€b]indoles by a Platinumâ€Catalyzed Intermolecular [3+3] Cycloaddition. Advanced Synthesis and Catalysis, 2013, 355, 1523-1528.	2.1	35
20	Oneâ€Pot Synthesis of 4â€Heteroarylâ€Substituted Pyrazoles: A Goldâ€Catalyzed Oxidation/1,2â€Heteroaryl Migration Cascade Constitutes the Key Step. Advanced Synthesis and Catalysis, 2016, 358, 1534-1539.	2.1	34
21	Transition-Metal-Free Photoinduced Intramolecular Annulation of 2,3-Di(hetero)arylchromen-4-one. Organic Letters, 2017, 19, 3552-3555.	2.4	33
22	Chemoselectivity Control: Gold(I)â€Catalyzed Synthesis of 6,7â€Dihydrobenzofuranâ€4(5H)â€ones and Benzofurans from 1â€(Alkynyl)â€7â€oxabicyclo[4.1.0]heptanâ€2â€ones. Chemistry - A European Journal, 2013, 19, 12512-12516.	1.7	32
23	Highly efficient electroluminescence from evaporation- and solution-processable orangeâ€“red thermally activated delayed fluorescence emitters. Journal of Materials Chemistry C, 2019, 7, 12321-12327.	2.7	31
24	Synthesis of Polycyclic Heteroaromatic Coumarins via Photoinduced Dehydrogenative Annulation of 4-Phenyl-3-heteroarylcoumarins. Journal of Organic Chemistry, 2018, 83, 13940-13948.	1.7	28
25	Synthesis of 4â€(Iso)Quinolinylâ€3(2H)â€furanones from (Iso)Quinoline Nâ€oxides and 1,4â€Diynâ€3â€ones: A Comparison of Copper Catalysis and Metalâ€free Reaction. Advanced Synthesis and Catalysis, 2019, 361, 696-701.	2.1	27
26	Oxidant and Transition-Metal-Free Photoinduced Direct Oxidative Annulation of 1-Aryl-2-(furan/thiophen-2-yl)butane-1,3-diones. Journal of Organic Chemistry, 2017, 82, 12097-12105.	1.7	25
27	Syntheses of Benzofuranoquinolines and Analogues via Photoinduced Acceptorless Dehydrogenative Annulation of o-Phenylfuranylpyridines. Organic Letters, 2019, 21, 9183-9187.	2.4	24
28	Ï€-Expanded Coumarins: One-Pot Photo Synthesis of 5H-Benzo[12,1]tetrapheno[7,6,5-cde]chromen-5-ones and Photophysical Properties. Journal of Organic Chemistry, 2020, 85, 3689-3698.	1.7	23
29	Synthesis of polybenzoquinazolines via an intramolecular dehydration of photocyclization. Tetrahedron, 2016, 72, 5037-5046.	1.0	22
30	Synthesis and photophysical properties of vertically Ï€-expanded coumarins. Dyes and Pigments, 2021, 186, 108956.	2.0	21
31	Gold(I)â€Catalyzed Dimerization of 3â€Diazooxindoles towards Isoindigos. European Journal of Organic Chemistry, 2018, 2018, 4475-4478.	1.2	20
32	Synthesis of Dibenzo[f,h][1,2,4]triazolo[3,4-b]quinazolines via a Two-Step Route with Water as the Only By-Product. Synthesis, 2015, 47, 3385-3391.	1.2	19
33	One-pot synthesis of 3-fluoroflavones via 1-(2-hydroxyphenyl)-3-phenylpropane-1,3-diones and selectfluor at room temperature. Organic and Biomolecular Chemistry, 2018, 16, 2479-2488.	1.5	17
34	Gold-Catalyzed Synthesis of 1-(Furan-3-yl)-1,2-diones. Journal of Organic Chemistry, 2017, 82, 11644-11654.	1.7	16
35	Catalyst- and Additive-Free Cascade Reaction of Isoquinoline N-Oxides with Alkynones: An Approach to Benzoazepino[2,1-a]isoquinoline Derivatives. Organic Letters, 2019, 21, 5630-5633.	2.4	16
36	Two-Step Synthesis of Ï€-Expanded Maleimides from 3,4-Diphenylfuran-2(5H)-ones. Journal of Organic Chemistry, 2019, 84, 12387-12398.	1.7	16

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37	Metal-Free Synthesis of 3-(Iso)quinolinyl 4-Chromenones and 3-(Iso)quinolinyl 4-Quinolones from (Iso)quinoline N-Oxides and Ynones. Organic Letters, 2019, 21, 9995-9998.	2.4	16
38	Annulation of 2,3-diphenyl-4H-chromen-4-ones via photo-induced hydrogen evolution. RSC Advances, 2017, 7, 44333-44339.	1.7	15
39	One-pot synthesis of 3-(furan-2-yl)-4H-chromen-4-ones from 1-(2-hydroxyphenyl)butane-1,3-diones and 2,5-dimethoxy-2,5-dihydrofuran catalyzed via K10 montmorillonite under solvent-free conditions. Green Chemistry, 2016, 18, 4092-4097.	4.6	14
40	1,8-Naphthalimide-based hybrids for efficient red thermally activated delayed fluorescence organic light-emitting diodes. Organic Electronics, 2021, 88, 106012.	1.4	14
41	Photo-induced tandem cyclization of 3-iodoflavones with electron rich five-membered heteroarenes. RSC Advances, 2017, 7, 43206-43211.	1.7	12
42	Synthesis of 3-heteroarylchromones via a photochemical reaction. Molecular Diversity, 2016, 20, 9-16.	2.1	11
43	Photoinduced Annulation of Nâ€Phenylbenzamides for the Synthesis of Phenanthridinâ€6(5H)â€Ones. Advanced Synthesis and Catalysis, 2022, 364, 1150-1155.	2.1	11
44	A Central-to-Axial Chirality Conversion Strategy for the Synthesis of Câ€“N Axially Chiral N-Arylpyrroles. Organic Letters, 2022, 24, 2842-2846.	2.4	11
45	Synthesis of 3â€Formylfurans via a Silver(I)â€Catalyzed Epoxide Ringâ€Opening/1,2â€Acyl Migration/Cyclization Cascade. Advanced Synthesis and Catalysis, 2016, 358, 3943-3948.	2.1	9
46	Stereoselective Synthesis of (E)-3-Alkylideneoxindoles via Gold(I)-Catalyzed Cross-Coupling of 3-Diazooxindoles with Diazoesters. Journal of Organic Chemistry, 2020, 85, 5863-5871.	1.7	9
47	Solution-processable orange-red thermally activated delayed fluorescence emitters with 3,6-disubstituted carbazole for highly efficient OLEDs with low efficiency roll-off. Journal of Materials Chemistry C, 2022, 10, 2034-2041.	2.7	9
48	One-pot synthesis of 3-(furan-2-yl)-4-hydroxy-2H-chromen-2-ones using K10 montmorillonite clay as heterogeneous catalyst. Tetrahedron, 2018, 74, 4712-4720.	1.0	7
49	Synthesis of 7-hydroxy-6H-naphtho[2,3-c]coumarin via a TsOH-mediated tandem reaction. Chemical Communications, 2020, 56, 10369-10372.	2.2	6
50	Ag(I)â€Catalyzed Synthesis of 2â€Aminoquinolines from 1â€Aminobutadiynes and Anilines. Advanced Synthesis and Catalysis, 0, , .	2.1	6
51	Gold(I)â€Catalyzed Synthesis of Sixâ€Membered P,Oâ€Heterocycles via Hydration/Intramolecular Cyclization Cascade Reaction. Advanced Synthesis and Catalysis, 2019, 361, 4227-4231.	2.1	5
52	Synthesis of Isatinâ€Hydrazones from 3â€Diazo Oxindoles and Sulfoxonium Ylides under Catalystâ€and Additiveâ€Free Conditions. European Journal of Organic Chemistry, 2021, 2021, 1592-1595.	1.2	5
53	Synthesis of Transâ€4a,12b/3,4â€Dihydrodibenzo[f,h]quinolinâ€2(1H)â€Ones and Dibenzo[f,h]quinolinâ€2(1H)â€Ones via Irradiation of 6â€Biphenylpyridineâ€2(1H)â€Ones. Advanced Synthesis and Catalysis, 2021, 363, 3554-3559.	2.1	5
54	Synthesis of<scp>2H</scp>â€benzo[g]furo/thieno/pyrrolo[2,3â€e]indazolesviaIntramolecular Dehydrogenation Photocyclization. Chinese Journal of Chemistry, 2021, 39, 2213-2219.	2.6	5

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55	Synthesis of (2-hydroxyphenyl)(fusedphenyl)methanones via the photo-induced rearrangement of 2â€²-arylisoflavones. Organic and Biomolecular Chemistry, 2019, 17, 851-858.	1.5	3
56	Synthesis of cis/trans-dihydrochromenones via a photoinduced rearrangement of 4-phenyl-3-aryl/cyclohexenylcoumarins. Organic and Biomolecular Chemistry, 2021, 19, 7176-7180.	1.5	2
57	Synthesis of Vâ€shaped Bisâ€coumarins through Aldol Reaction/Double Lactonization Cascade Reaction from Bis(2â€hydroxyphenyl)methanone and Meldrum's Acid. European Journal of Organic Chemistry, 2022, 2022, .	1.2	2
58	Synthesis of 6-phenylbenzo[h]quinolines via photoinduced dehydrogenative annulation of (E)-2-phenyl-3-styrylpyridines. Organic and Biomolecular Chemistry, 2021, 19, 8554-8558.	1.5	1
59	Synthesis of dibenzo[e,g]isoindol-1-ones via photoinduced intramolecular annulation of 3,4-diphenyl-1H-pyrrol-2(5H)-ones. Tetrahedron, 2021, 84, 131981.	1.0	1
60	An Oxidant- and Catalyst-Free Synthesis of Dibenzo[a,c]carbazoles via UV Light Irradiation of 2,3-Diphenyl-1H-indoles. Synthesis, 2022, 54, 1621-1632.	1.2	1
61	Synthesis of 2-amino-2-butene-1,4-diones via three-component reactions of dihydroxyketones, amines and sulfoxonium ylides. Tetrahedron Letters, 2022, , 153817.	0.7	0