

Ming-Yu Ngai

List of Publications by Year in descending order

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papers

3,508
citations

136885

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62
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docs citations

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times ranked

2311
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#	ARTICLE	IF	CITATIONS
1	Enantioselective Iridium-Catalyzed Carbonyl Allylation from the Alcohol or Aldehyde Oxidation Level via Transfer Hydrogenative Coupling of Allyl Acetate: Departure from Chirally Modified Allyl Metal Reagents in Carbonyl Addition. <i>Journal of the American Chemical Society</i> , 2008, 130, 14891-14899.	6.6	269
2	Enantiomerically Enriched Allylic Alcohols and Allylic Amines via C=C Bond-Forming Hydrogenation: Asymmetric Carbonyl and Imine Vinylation. <i>Accounts of Chemical Research</i> , 2007, 40, 1394-1401.	7.6	267
3	Enantioselective Iridium-Catalyzed Carbonyl Allylation from the Alcohol or Aldehyde Oxidation Level Using Allyl Acetate as an Allyl Metal Surrogate. <i>Journal of the American Chemical Society</i> , 2008, 130, 6340-6341.	6.6	225
4	β -Selective Reductive Coupling of Alkenylpyridines with Aldehydes and Imines via Synergistic Lewis Acid/Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 5003-5006.	6.6	194
5	Highly Enantioselective Direct Reductive Coupling of Conjugated Alkynes and α -Ketoesters via Rhodium-Catalyzed Asymmetric Hydrogenation. <i>Journal of the American Chemical Society</i> , 2006, 128, 718-719.	6.6	169
6	Pd-Catalyzed Aryl C-H Imidation with Arene as the Limiting Reagent. <i>Journal of the American Chemical Society</i> , 2013, 135, 13278-13281.	6.6	169
7	Hydrogen-Mediated C-C Bond Formation: A Broad New Concept in Catalytic C-C Coupling ¹ . <i>Journal of Organic Chemistry</i> , 2007, 72, 1063-1072.	1.7	167
8	Acyl Radical Chemistry via Visible-Light Photoredox Catalysis. <i>Synthesis</i> , 2019, 51, 303-333.	1.2	164
9	Trifluoromethoxylation of Arenes: Synthesis of <i>ortho</i> -Trifluoromethoxylated Aniline Derivatives by OCF ₃ Migration. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14559-14563.	7.2	144
10	Enantioselective Iridium-Catalyzed Imine Vinylation: Optically Enriched Allylic Amines via Alkyne-Imine Reductive Coupling Mediated by Hydrogen. <i>Journal of the American Chemical Society</i> , 2007, 129, 12644-12645.	6.6	131
11	Recent developments in transition-metal photoredox-catalysed reactions of carbonyl derivatives. <i>Chemical Communications</i> , 2017, 53, 13093-13112.	2.2	116
12	Synthesis of Tri- and Difluoromethoxylated Compounds by Visible-Light Photoredox Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11171-11181.	7.2	105
13	Ruthenium Catalyzed C-C Bond Formation via Transfer Hydrogenation: Branch-Selective Reductive Coupling of Allenes to Paraformaldehyde and Higher Aldehydes. <i>Organic Letters</i> , 2008, 10, 2705-2708.	2.4	98
14	Access to a new class of synthetic building blocks via trifluoromethoxylation of pyridines and pyrimidines. <i>Chemical Science</i> , 2016, 7, 424-429.	3.7	88
15	Catalytic C-H Trifluoromethoxylation of Arenes and Heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9645-9649.	7.2	88
16	Redox-Active Reagents for Photocatalytic Generation of the OCF ₃ Radical and (Hetero)Aryl C-H Trifluoromethoxylation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13795-13799.	7.2	85
17	Allylic Amines via Iridium-Catalyzed C-C Bond Forming Hydrogenation: Imine Vinylation in the Absence of Stoichiometric Byproducts or Metallic Reagents. <i>Journal of the American Chemical Society</i> , 2007, 129, 8432-8433.	6.6	84
18	Iridium-Catalyzed C-C Bond Forming Hydrogenation: Direct Regioselective Reductive Coupling of Alkyl-Substituted Alkynes to Activated Ketones. <i>Journal of the American Chemical Society</i> , 2007, 129, 280-281.	6.6	83

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19	Photocatalytic Radical Arylation of Unactivated Alkenes: Pathway to β -Functionalized 1,4-, 1,6-, and 1,7-Diketones. <i>ACS Catalysis</i> , 2019, 9, 10358-10364.	5.5	66
20	Excited-State Palladium-Catalyzed 1,2-Spin-Center Shift Enables Selective C-2 Reduction, Deuteration, and Iodination of Carbohydrates. <i>Journal of the American Chemical Society</i> , 2021, 143, 1728-1734.	6.6	63
21	Recent Development of Catalytic Trifluoromethoxylation Reactions. <i>Tetrahedron</i> , 2018, 74, 7127-7135.	1.0	47
22	β -Selective Arylation of Activated Alkenes by Photoredox Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7318-7323.	7.2	47
23	Asymmetric Photocatalysis Enabled by Chiral Organocatalysts. <i>ChemCatChem</i> , 2022, 14, .	1.8	46
24	Ligand-accelerated Enantioselective Propargylation of Aldehydes via Allenylzinc Reagents. <i>Organic Letters</i> , 2011, 13, 1900-1903.	2.4	45
25	Selective C=O bond formation via a photocatalytic radical coupling strategy: access to perfluoroalkoxylated (OR _F) arenes and heteroarenes. <i>Chemical Science</i> , 2017, 8, 6066-6070.	3.7	44
26	Catalytic radical difluoromethoxylation of arenes and heteroarenes. <i>Chemical Science</i> , 2019, 10, 3217-3222.	3.7	43
27	Excited-State Palladium-Catalyzed Radical Migratory Mizoroki-Heck Reaction Enables C2-Alkenylation of Carbohydrates. <i>Journal of the American Chemical Society</i> , 2022, 144, 3353-3359.	6.6	41
28	Nickel-Catalyzed Radical Migratory Coupling Enables C-2 Arylation of Carbohydrates. <i>Journal of the American Chemical Society</i> , 2021, 143, 8590-8596.	6.6	36
29	Redox-Neutral TEMPO Catalysis: Direct Radical (Hetero)Aryl C-H and Trifluoromethoxylation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21475-21480.	7.2	35
30	Synthesis of Trifluoromethoxylated (Hetero)Arenes via OCF ₃ Migration. <i>Synlett</i> , 2016, 27, 313-319.	1.0	34
31	Mechanistic studies on intramolecular C-H trifluoromethoxylation of (hetero)arenes via OCF ₃ -migration. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 5599-5605.	1.5	33
32	Catalytic C-H Trifluoromethoxylation of Arenes and Heteroarenes. <i>Angewandte Chemie</i> , 2018, 130, 9793-9797.	1.6	33
33	A Highly Convergent Total Synthesis of Leustroducsin B. <i>Journal of the American Chemical Society</i> , 2015, 137, 11594-11597.	6.6	32
34	Redox-Active Reagents for Photocatalytic Generation of the OCF ₃ Radical and (Hetero)Aryl C-H Trifluoromethoxylation. <i>Angewandte Chemie</i> , 2018, 130, 13991-13995.	1.6	29
35	Excited-State Copper Catalysis for the Synthesis of Heterocycles. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202113841.	7.2	28
36	Synthesis of Tri- and Difluoromethoxylated Compounds by Visible-Light Photoredox Catalysis. <i>Angewandte Chemie</i> , 2019, 131, 11289-11299.	1.6	27

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37	Development of [¹⁸ F]Maleimide-Based Glycogen Synthase Kinase-3 ^{Î²} Ligands for Positron Emission Tomography Imaging. ACS Medicinal Chemistry Letters, 2017, 8, 287-292.	1.3	22
38	C2-ketonylation of carbohydrates <i>via</i> excited-state palladium-catalyzed 1,2-spin-center shift. Chemical Science, 2022, 13, 6276-6282.	3.7	20
39	Redox-Neutral TEMPO Catalysis: Direct Radical (Hetero)Aryl C-H and Trifluoromethoxylation. Angewandte Chemie, 2020, 132, 21659-21664.	1.6	19
40	¹² C-Selective Aroylation of Activated Alkenes by Photoredox Catalysis. Angewandte Chemie, 2019, 131, 7396-7401.	1.6	7
41	Transition-metal-free C-H amidation and chlorination: synthesis of 2-mono-substituted imidazopyridin-2-ones from 2-pyridyl-hydroxylamine intermediates. Chemical Communications, 2018, 54, 6935-6938.	2.2	3
42	Iridium-Catalyzed Enantioselective Alkyne-Imine Reductive Coupling. Synfacts, 2008, 2008, 0159-0159.	0.0	2
43	Excited-State Copper Catalysis for the Synthesis of Heterocycles. Angewandte Chemie, 2022, 134, .	1.6	1
44	Enantioselective Iridium-Catalyzed Carbonyl Allylations with Allyl Acetate. Synfacts, 2008, 2008, 0957-0957.	0.0	0
45	Protocol for the Synthesis of <i>ortho</i> -trifluoromethoxylated Aniline Derivatives. Journal of Visualized Experiments, 2016, , e53789.	0.2	0