Joseph Moran

List of Publications by Year
in descending order

59 papers	4,737 citations	126858 33 h-index	123376 61 g-index
95 all docs	95 docs citations	95 times ranked	4198 citing authors

#	Article	IF	Citations
1	Rapid and Mild Metal-Free Reduction of Epoxides to Primary Alcohols Mediated by HFIP. ACS Catalysis, 2022, 12, 3309-3316.	5.5	23
2	A Nonenzymatic Analog of Pyrimidine Nucleobase Biosynthesis. Angewandte Chemie - International Edition, 2022, 61, .	7.2	24
3	Hydroarylation of enamides enabled by HFIP <i>via</i> a hexafluoroisopropyl ether as iminium reservoir. Chemical Science, 2022, 13, 8436-8443.	3.7	16
4	Modifying Woodwardâ€"Hoffmann Stereoselectivity Under Vibrational Strong Coupling. Angewandte Chemie - International Edition, 2021, 60, 5712-5717.	7.2	48
5	Modifying Woodwardâ€"Hoffmann Stereoselectivity Under Vibrational Strong Coupling. Angewandte Chemie, 2021, 133, 5776-5781.	1.6	13
6	Desulfonative Suzukiâ€"Miyaura Coupling of Sulfonyl Fluorides. Angewandte Chemie, 2021, 133, 25511-25516.	1.6	4
7	Desulfonative Suzukiâ€"Miyaura Coupling of Sulfonyl Fluorides. Angewandte Chemie - International Edition, 2021, 60, 25307-25312.	7.2	13
8	Mechanistic Insight into Metal Ion-Catalyzed Transamination. Journal of the American Chemical Society, 2021, 143, 19099-19111.	6.6	34
9	Unlocking the Friedel-Crafts arylation of primary aliphatic alcohols and epoxides driven by hexafluoroisopropanol. CheM, 2021, 7, 3425-3441.	5.8	44
10	Ground state chemistry under vibrational strong coupling: dependence of thermodynamic parameters on the Rabi splitting energy. Nanophotonics, 2020, 9, 249-255.	2.9	71
11	Nonenzymatic Metabolic Reactions and Lifeâ€™s Origins. Chemical Reviews, 2020, 120, 7708-7744.	23.0	154
12	Peptide synthesis at the origin of life. Science, 2020, 370, 767-768.	6.0	14
13	Exploiting hexafluoroisopropanol (HFIP) in Lewis and BrÃ¸nsted acid-catalyzed reactions. Chemical Communications, 2020, 56, 11548-11564.	2.2	166
14	A Supramolecular Model for the Coâ€Catalytic Role of Nitro Compounds in BrÃ¸nsted Acid Catalyzed Reactions. Chemistry - A European Journal, 2020, 26, 10976-10980.	1.7	3
15	A hydrogen-dependent geochemical analogue of primordial carbon and energy metabolism. Nature Ecology and Evolution, 2020, 4, 534-542.	3.4	140
16	BrÃ¸nsted Acid and Hâ€Bond Activation in Boronic Acid Catalysis. Chemistry - A European Journal, 2020, 26, 9883-9888.	1.7	19
17	Suzukiâ€"Miyaura Coupling of (Hetero)Aryl Sulfones: Complementary Reactivity Enables Iterative Polyaryl Synthesis. Angewandte Chemie - International Edition, 2019, 58, 14959-14963.	7.2	67
18	Suzukiâ€"Miyaura Coupling of (Hetero)Aryl Sulfones: Complementary Reactivity Enables Iterative Polyaryl Synthesis. Angewandte Chemie, 2019, 131, 15101-15105.	1.6	14

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19	Synthesis and breakdown of universal metabolic precursors promoted by iron. Nature, 2019, 569, 104-107.	13.7	207
20	Recreating ancient metabolic pathways before enzymes. Bioorganic and Medicinal Chemistry, 2019, 27, 2292-2297.	1.4	24
21	Tilting a ground-state reactivity landscape by vibrational strong coupling. Science, 2019, 363, 615-619.	6.0	495
22	Synthesis of new Mn₁₉ analogues and their structural, electrochemical and catalytic properties. Dalton Transactions, 2019, 48, 4830-4836.	1.6	4
23	Catalytic Synthesis of Trifluoromethylated Allenes, Indenes, Chromenes, and Olefins from Propargylic Alcohols in HFIP. Journal of Organic Chemistry, 2019, 84, 15926-15947.	1.7	20
24	Native iron reduces CO2 to intermediates and end-products of the acetyl-CoA pathway. Nature Ecology and Evolution, 2018, 2, 1019-1024.	3.4	154
25	Nucleophilic Ring Opening of Donorâ€"Acceptor Cyclopropanes Catalyzed by a BrÃ¸nsted Acid in Hexafluoroisopropanol. Organic Letters, 2018, 20, 574-577.	2.4	129
26	Recent Advances in Nickel Catalysis Enabled by Stoichiometric Metallic Reducing Agents. Synthesis, 2018, 50, 499-513.	1.2	191
27	Ring-opening hydroarylation of monosubstituted cyclopropanes enabled by hexafluoroisopropanol. Chemical Science, 2018, 9, 6411-6416.	3.7	62
28	Catalytic Friedelâ€"Crafts Reactions of Highly Electronically Deactivated Benzylic Alcohols. Angewandte Chemie, 2017, 129, 3131-3135.	1.6	41
29	Catalytic Friedelâ€"Crafts Reactions of Highly Electronically Deactivated Benzylic Alcohols. Angewandte Chemie - International Edition, 2017, 56, 3085-3089.	7.2	152
30	Metals promote sequences of the reverse Krebs cycle. Nature Ecology and Evolution, 2017, 1, 1716-1721.	3.4	166
31	Catalytic B(C6F5)3H2O-promoted defluorinative functionalization of tertiary aliphatic fluorides. Journal of Fluorine Chemistry, 2017, 193, 45-51.	0.9	32
32	Autocatalytic Friedelâ€"Crafts Reactions of Tertiary Aliphatic Fluorides Initiated by B(C₆F₅)₃Â·H₂O. ACS Catalysis, 2016, 6, 3670-3673.	5.5	70
33	Harnessing Complex Mixtures for Catalyst Discovery. Synlett, 2016, 27, 2637-2643.	1.0	8
34	Enantioselective and Regiodivergent Functionalization of <i>Nâ€‹</i>Allylcarbamates by Mechanistically Divergent Multicatalysis. Chemistry - A European Journal, 2016, 22, 12274-12277.	1.7	25
35	Groundâ€State Chemical Reactivity under Vibrational Coupling to the Vacuum Electromagnetic Field. Angewandte Chemie - International Edition, 2016, 55, 11462-11466.	7.2	342
36	Groundâ€State Chemical Reactivity under Vibrational Coupling to the Vacuum Electromagnetic Field. Angewandte Chemie, 2016, 128, 11634-11638.	1.6	94

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37	Liquid-Phase Exfoliation of Graphite into Single- and Few-Layer Graphene with Î±-Functionalized Alkanes. Journal of Physical Chemistry Letters, 2016, 7, 2714-2721.	2.1	73
38	Recent Advances in Direct Catalytic Dehydrative Substitution of Alcohols. Synthesis, 2016, 48, 935-959.	1.2	137
39	Ligand Control of <i>E</i>/<i>Z</i> Selectivity in Nickel-Catalyzed Transfer Hydrogenative Alkyne Semireduction. Journal of Organic Chemistry, 2015, 80, 6922-6929.	1.7	113
40	Nitro-Assisted BrÃ¸nsted Acid Catalysis: Application to a Challenging Catalytic Azidation. Journal of the American Chemical Society, 2015, 137, 9555-9558.	6.6	69
41	Identifying lead hits in catalyst discovery by screening and deconvoluting complex mixtures of catalyst components. Chemical Science, 2015, 6, 2501-2505.	3.7	38
42	Breaking the dichotomy of reactivity vs. chemoselectivity in catalytic S_N1 reactions of alcohols. Organic and Biomolecular Chemistry, 2014, 12, 5990-5994.	1.5	33
43	Formation of Câ€“C bonds via ruthenium-catalyzed transfer hydrogenation. Pure and Applied Chemistry, 2012, 84, 1729-1739.	0.9	112
44	Intramolecular cyclization and subsequent rearrangements of alkyne-tethered N-heterocyclic carbenes. Tetrahedron Letters, 2012, 53, 5663-5666.	0.7	2
45	Polarity Inversion of Donorâ€“Acceptor Cyclopropanes: Disubstituted Î´-Lactones via Enantioselective Iridium Catalysis. Journal of the American Chemical Society, 2011, 133, 18618-18621.	6.6	90
46	A Catalytic Tethering Strategy: Simple Aldehydes Catalyze Intermolecular Alkene Hydroaminations. Journal of the American Chemical Society, 2011, 133, 20100-20103.	6.6	113
47	Strain-promoted 1,3-dipolar cycloadditions of diazo compounds with cyclooctynes. Canadian Journal of Chemistry, 2011, 89, 148-151.	0.6	25
48	Iridium-catalysed direct Câ€“C coupling of methanol and allenes. Nature Chemistry, 2011, 3, 287-290.	6.6	218
49	Diastereo- and Enantioselective Ruthenium-Catalyzed Hydrohydroxyalkylation of 2-Silyl-butadienes: Carbonyl <i>syn</i>-Crotylation from the Alcohol Oxidation Level. Journal of the American Chemical Society, 2011, 133, 10582-10586.	6.6	132
50	Nitrones as dipoles for rapid strain-promoted 1,3-dipolar cycloadditions with cyclooctynes. Chemical Communications, 2010, 46, 931-933.	2.2	107
51	Ketonitrones via Cope-Type Hydroamination of Allenes. Organic Letters, 2009, 11, 1895-1898.	2.4	44
52	Intermolecular Copeâ€Type Hydroamination of Alkenes and Alkynes. Angewandte Chemie - International Edition, 2008, 47, 1410-1413.	7.2	87
53	Intermolecular Cope-Type Hydroamination of Alkenes and Alkynes using Hydroxylamines. Journal of the American Chemical Society, 2008, 130, 17893-17906.	6.6	84
54	Intermolecular Cope-type hydroamination of alkynes using hydrazines. Chemical Communications, 2008, , 492-493.	2.2	28

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55	Intermolecular Hydroaminations via Strained (E)-Cycloalkenes. Journal of Organic Chemistry, 2008, 73, 1004-1007.	1.7	30
56	Strain-Release Electrophilic Activation viaE-Cycloalkenones. Organic Letters, 2007, 9, 3893-3896.	2.4	19
57	Photoinduced 1,4-Additions of Indoles to Enones. Journal of Organic Chemistry, 2006, 71, 676-679.	1.7	18
58	An investigation of catalyst/cocatalyst/support interactions in silica-supported olefin polymerization catalysts based on Cp*TiMe3*. Topics in Catalysis, 2005, 34, 109-120.	1.3	28
59	A Nonenzymatic Analog of Pyrimidine Nucleobase Biosynthesis. Angewandte Chemie, 0, , .	1.6	2