Brian Gold

List of Publications by Year
in descending order

20 papers	815 citations	566801 15 h-index	752256 20 g-index
21 all docs	21 docs citations	21 times ranked	894 citing authors

#	Article	IF	Citations
1	Moderating Strain without Sacrificing Reactivity: Design of Fast and Tunable Noncatalyzed Alkyneâ€“Azide Cycloadditions via Stereoelectronically Controlled Transition State Stabilization. Journal of the American Chemical Society, 2013, 135, 1558-1569.	6.6	120
2	Selective Transition State Stabilization via Hyperconjugative and Conjugative Assistance: Stereoelectronic Concept for Copper-Free Click Chemistry. Journal of Organic Chemistry, 2012, 77, 75-89.	1.7	107
3	â€œTwo Functional Groups in One Packageâ€: Using Both Alkyne Ï€-Bonds in Cascade Transformations. Journal of Organic Chemistry, 2013, 78, 7777-7784.	1.7	100
4	Design of Leaving Groups in Radical Cï£¿C Fragmentations: Throughâ€Bond 2câ€“3e Interactions in Selfâ€Terminating Radical Cascades. Chemistry - A European Journal, 2014, 20, 8664-8669.	1.7	64
5	1,3-Dipolar Cycloadditions of Diazo Compounds in the Presence of Azides. Organic Letters, 2016, 18, 1538-1541.	2.4	59
6	Fine-Tuning Strain and Electronic Activation of Strain-Promoted 1,3-Dipolar Cycloadditions with Endocyclic Sulfamates in SNO-OCTs. Journal of the American Chemical Society, 2017, 139, 8029-8037.	6.6	54
7	Sub-picomolar Inhibition of HIV-1 Protease with a Boronic Acid. Journal of the American Chemical Society, 2018, 140, 14015-14018.	6.6	45
8	Boronic acid with high oxidative stability and utility in biological contexts. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	41
9	Alkynyl Crown Ethers as a Scaffold for Hyperconjugative Assistance in Noncatalyzed Azideâ€“Alkyne Click Reactions: Ion Sensing through Enhanced Transition-State Stabilization. Journal of Organic Chemistry, 2014, 79, 6221-6232.	1.7	30
10	Strain control in nucleophilic cyclizations: reversal of <i>exo</i>â€selectivity in cyclizations of hydrazides of acetylenyl carboxylic acids by annealing to a pyrazole scaffold. Journal of Physical Organic Chemistry, 2012, 25, 998-1005.	0.9	25
11	Decreasing Distortion Energies without Strain: Diazo-Selective 1,3-Dipolar Cycloadditions. Journal of Organic Chemistry, 2016, 81, 5998-6006.	1.7	25
12	An nâ†’Ï€* Interaction in the Bound Substrate of Aspartic Proteases Replicates the Oxyanion Hole. ACS Catalysis, 2019, 9, 1464-1471.	5.5	24
13	1,3-Dipolar Cycloaddition with Diazo Groups: Noncovalent Interactions Overwhelm Strain. Organic Letters, 2016, 18, 4466-4469.	2.4	23
14	Electronic and Steric Optimization of Fluorogenic Probes for Biomolecular Imaging. Journal of Organic Chemistry, 2017, 82, 4297-4304.	1.7	20
15	Urea as an organic solvent and reagent for the addition/cyclization/fragmentation cascades leading to 2-R-7H-dibenzo[de,h]quinolin-7-one analogues of Aporphinoid alkaloids. RSC Advances, 2011, 1, 1745.	1.7	19
16	Molecular basis for catabolism of the abundant metabolite trans-4-hydroxy-L-proline by a microbial glycyl radical enzyme. ELife, 2020, 9, .	2.8	16
17	Rapid cycloaddition of a diazo group with an unstrained dipolarophile. Tetrahedron Letters, 2016, 57, 2347-2350.	0.7	15
18	Acceleration of 1,3-Dipolar Cycloadditions by Integration of Strain and Electronic Tuning. Journal of the American Chemical Society, 2021, 143, 9489-9497.	6.6	13

#	Article	IF	Citations
19	SuFExable <i>NH</i>-Pyrazoles via 1,3-Dipolar Cycloadditions of Diazo Compounds with Bromoethenylsulfonyl Fluoride. Journal of Organic Chemistry, 2022, 87, 3868-3873.	1.7	9
20	Unique, yet Typical Oxyanion Holes in Aspartic Proteases. ACS Catalysis, 2020, 10, 14201-14209.	5.5	6