Tehshik P Yoon

List of Publications by Year
in descending order

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102 papers	19,675 citations	28190 55 h-index	24179 110 g-index
168 all docs	168 docs citations	168 times ranked	12106 citing authors

#	Article	IF	Citations
1	Visible light photocatalysis as a greener approach to photochemical synthesis. Nature Chemistry, 2010, 2, 527-532.	6.6	2,244
2	Dual Catalysis Strategies in Photochemical Synthesis. Chemical Reviews, 2016, 116, 10035-10074.	23.0	2,059
3	Solar Synthesis: Prospects in Visible Light Photocatalysis. Science, 2014, 343, 1239176.	6.0	2,043
4	Privileged Chiral Catalysts. Science, 2003, 299, 1691-1693.	6.0	1,262
5	Efficient Visible Light Photocatalysis of [2+2] Enone Cycloadditions. Journal of the American Chemical Society, 2008, 130, 12886-12887.	6.6	946
6	Characterizing chain processes in visible light photoredox catalysis. Chemical Science, 2015, 6, 5426-5434.	3.7	791
7	A Dual-Catalysis Approach to Enantioselective [2 + 2] Photocycloadditions Using Visible Light. Science, 2014, 344, 392-396.	6.0	495
8	Crossed Intermolecular [2+2] Cycloadditions of Acyclic Enones via Visible Light Photocatalysis. Journal of the American Chemical Society, 2009, 131, 14604-14605.	6.6	412
9	[2+2] Cycloadditions by Oxidative Visible Light Photocatalysis. Journal of the American Chemical Society, 2010, 132, 8572-8574.	6.6	380
10	Radical Cation Dielsâ€“Alder Cycloadditions by Visible Light Photocatalysis. Journal of the American Chemical Society, 2011, 133, 19350-19353.	6.6	341
11	Visible Light Photocatalysis of [2+2] Styrene Cycloadditions by Energy Transfer. Angewandte Chemie - International Edition, 2012, 51, 10329-10332.	7.2	337
12	Enantioselective photochemistry through Lewis acidâ€“catalyzed triplet energy transfer. Science, 2016, 354, 1391-1395.	6.0	311
13	Highly Enantioselective Thiourea-Catalyzed Nitro-Mannich Reactions. Angewandte Chemie - International Edition, 2005, 44, 466-468.	7.2	293
14	[3+2] Cycloadditions of Aryl Cyclopropyl Ketones by Visible Light Photocatalysis. Journal of the American Chemical Society, 2011, 133, 1162-1164.	6.6	286
15	Photochemical Stereocontrol Using Tandem Photoredoxâ€“Chiral Lewis Acid Catalysis. Accounts of Chemical Research, 2016, 49, 2307-2315.	7.6	271
16	Enantioselective Conjugate Additions of Î±-Amino Radicals via Cooperative Photoredox and Lewis Acid Catalysis. Journal of the American Chemical Society, 2015, 137, 2452-2455.	6.6	259
17	Visible Light Photocatalysis: The Development of Photocatalytic Radical Ion Cycloadditions. ACS Catalysis, 2013, 3, 895-902.	5.5	258
18	Transition Metal Photoredox Catalysis of Radical Thiol-Ene Reactions. Journal of Organic Chemistry, 2013, 78, 2046-2050.	1.7	217

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19	Visibleâ€Light Sensitization of Vinyl Azides by Transitionâ€Metal Photocatalysis. Angewandte Chemie - International Edition, 2014, 53, 793-797.	7.2	201
20	Accessing the Synthetic Chemistry of Radical Ions. European Journal of Organic Chemistry, 2012, 2012, 3359-3372.	1.2	189
21	Redox Mediators in Visible Light Photocatalysis: Photocatalytic Radical Thiolâ€“Ene Additions. Journal of Organic Chemistry, 2014, 79, 1427-1436.	1.7	189
22	Chiral Photocatalyst Structures in Asymmetric Photochemical Synthesis. Chemical Reviews, 2022, 122, 1654-1716.	23.0	179
23	Enantioselective Photocatalytic [3 + 2] Cycloadditions of Aryl Cyclopropyl Ketones. Journal of the American Chemical Society, 2016, 138, 4722-4725.	6.6	178
24	BrÃ¸nsted Acid Cocatalysts in Photocatalytic Radical Addition of Î±-Amino Câ€“H Bonds across Michael Acceptors. Journal of Organic Chemistry, 2013, 78, 4107-4114.	1.7	173
25	Crossed intermolecular [2 + 2] cycloaddition of styrenes by visible light photocatalysis. Chemical Science, 2012, 3, 2807.	3.7	169
26	Photocatalytic reductive cyclizations of enones: Divergent reactivity of photogenerated radical and radical anion intermediates. Chemical Science, 2011, 2, 2115.	3.7	167
27	Copper(II)-Catalyzed Aminohydroxylation of Olefins. Journal of the American Chemical Society, 2007, 129, 1866-1867.	6.6	164
28	Iron-Catalyzed Aminohydroxylation of Olefins. Journal of the American Chemical Society, 2010, 132, 4570-4571.	6.6	163
29	Iron Catalyzed Asymmetric Oxyamination of Olefins. Journal of the American Chemical Society, 2012, 134, 12370-12373.	6.6	161
30	Enantioselective Excited-State Photoreactions Controlled by a Chiral Hydrogen-Bonding Iridium Sensitizer. Journal of the American Chemical Society, 2017, 139, 17186-17192.	6.6	153
31	[2+2] Cycloaddition of 1,3â€Dienes by Visible Light Photocatalysis. Angewandte Chemie - International Edition, 2014, 53, 8991-8994.	7.2	146
32	Activation of N-Sulfonyl Oxaziridines Using Copper(II) Catalysts: Aminohydroxylations of Styrenes and 1,3-Dienes. Journal of the American Chemical Society, 2008, 130, 6610-6615.	6.6	138
33	Advances in the Chemistry of Oxaziridines. Chemical Reviews, 2014, 114, 8016-8036.	23.0	133
34	Enantioselective [2+2] Cycloadditions of Cinnamate Esters: Generalizing Lewis Acid Catalysis of Triplet Energy Transfer. Journal of the American Chemical Society, 2019, 141, 9543-9547.	6.6	129
35	Enantioselective Crossed Photocycloadditions of Styrenic Olefins by Lewis Acid Catalyzed Triplet Sensitization. Angewandte Chemie - International Edition, 2017, 56, 11891-11895.	7.2	124
36	Photocatalytic [2 + 2] Cycloadditions of Enones with Cleavable Redox Auxiliaries. Organic Letters, 2012, 14, 1110-1113.	2.4	115

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37	Oxaziridineâ€Mediated Oxyamination of Indoles: An Approach to 3â€Aminoindoles and Enantiomerically Enriched 3â€Aminopyrroloindolines. Angewandte Chemie - International Edition, 2010, 49, 9153-9157.	7.2	114
38	Visible light photocatalysis of radical anion hetero-Dielsâ€“Alder cycloadditions. Tetrahedron, 2011, 67, 4442-4448.	1.0	114
39	Enantioselective Intermolecular Excited-State Photoreactions Using a Chiral Ir Triplet Sensitizer: Separating Association from Energy Transfer in Asymmetric Photocatalysis. Journal of the American Chemical Society, 2019, 141, 13625-13634.	6.6	111
40	Photocatalytic Synthesis of Dihydrobenzofurans by Oxidative [3+2] Cycloaddition of Phenols. Angewandte Chemie - International Edition, 2014, 53, 11056-11059.	7.2	107
41	Spinâ€Selective Generation of Triplet Nitrenes: Olefin Aziridination through Visibleâ€Light Photosensitization of Azidoformates. Angewandte Chemie - International Edition, 2016, 55, 2239-2242.	7.2	106
42	Decarboxylative cross-nucleophile coupling via ligand-to-metal charge transfer photoexcitation of Cu(ii) carboxylates. Nature Chemistry, 2022, 14, 94-99.	6.6	101
43	Hydroxycarboxylic Acid-Derived Organosulfates: Synthesis, Stability, and Quantification in Ambient Aerosol. Environmental Science & Technology, 2011, 45, 6468-6474.	4.6	100
44	Enantioselective Claisen Rearrangements:Â Development of a First Generation Asymmetric Acyl-Claisen Reaction. Journal of the American Chemical Society, 2001, 123, 2911-2912.	6.6	98
45	Endoperoxide Synthesis by Photocatalytic Aerobic [2 + 2 + 2] Cycloadditions. Organic Letters, 2012, 14, 1640-1643.	2.4	98
46	Siteâ€Selective Alkoxylation of Benzylic Câˆ’H Bonds by Photoredox Catalysis. Angewandte Chemie - International Edition, 2020, 59, 197-202.	7.2	97
47	Titanium dioxide visible light photocatalysis: surface association enables photocatalysis with visible light irradiation. Chemical Communications, 2017, 53, 4335-4338.	2.2	88
48	Discovery and Elucidation of Counteranion Dependence in Photoredox Catalysis. Journal of the American Chemical Society, 2019, 141, 6385-6391.	6.6	88
49	Oxaziridine-mediated enantioselective aminohydroxylation of styrenes catalyzed by copper(II) bis(oxazoline) complexes. Tetrahedron, 2009, 65, 5118-5124.	1.0	87
50	Photolysis, OH reactivity and ozone reactivity of a proxy for isoprene-derived hydroperoxyenals (HPALDs). Physical Chemistry Chemical Physics, 2012, 14, 7276.	1.3	86
51	Development of a New Lewis Acid-Catalyzed Claisen Rearrangement. Journal of the American Chemical Society, 1999, 121, 9726-9727.	6.6	85
52	Anionic Halocuprate(II) Complexes as Catalysts for the Oxaziridine-Mediated Aminohydroxylation of Olefins. Journal of Organic Chemistry, 2009, 74, 5545-5552.	1.7	80
53	Oxidase reactions in photoredox catalysis. Chemical Society Reviews, 2021, 50, 2954-2967.	18.7	80
54	Cycloadditions of N-Sulfonyl Nitrones Generated by Lewis Acid Catalyzed Rearrangement of Oxaziridines. Journal of the American Chemical Society, 2008, 130, 2920-2921.	6.6	61

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55	Oxaziridine-Mediated Intramolecular Amination of sp³-Hybridized Câ^'H Bonds. Journal of the American Chemical Society, 2009, 131, 12560-12561.	6.6	60
56	Visible light photocatalysis of intramolecular radical cation Dielsâ€“Alder cycloadditions. Tetrahedron Letters, 2012, 53, 3073-3076.	0.7	56
57	Photocatalytic Oxyamination of Alkenes: Copper(II) Salts as Terminal Oxidants in Photoredox Catalysis. Organic Letters, 2018, 20, 7345-7350.	2.4	53
58	Photocatalytic Indole Dielsâ€“Alder Cycloadditions Mediated by Heterogeneous Platinum-Modified Titanium Dioxide. ACS Catalysis, 2017, 7, 6440-6444.	5.5	50
59	Divergent Photocatalytic Reactions of Î±-Ketoesters under Triplet Sensitization and Photoredox Conditions. Organic Letters, 2020, 22, 6520-6525.	2.4	48
60	[3+2] Photooxygenation of aryl cyclopropanes via visible light photocatalysis. Tetrahedron, 2014, 70, 4270-4278.	1.0	46
61	Enabling Chemical Synthesis with Visible Light. Accounts of Chemical Research, 2016, 49, 2059-2060.	7.6	45
62	BrÃ¸nsted acid catalysis of photosensitized cycloadditions. Chemical Science, 2020, 11, 856-861.	3.7	45
63	A Chiral Metal Photocatalyst Architecture for Highly Enantioselective Photoreactions. Angewandte Chemie - International Edition, 2016, 55, 2304-2306.	7.2	44
64	Radical Cation Cycloadditions Using Cleavable Redox Auxiliaries. Organic Letters, 2017, 19, 368-371.	2.4	44
65	Enantioselective Crossed Photocycloadditions of Styrenic Olefins by Lewis Acid Catalyzed Triplet Sensitization. Angewandte Chemie, 2017, 129, 12053-12057.	1.6	43
66	Carbonyl Imines from Oxaziridines: Generation and Cycloaddition of Nï£¿Oï£¾C Dipoles. Angewandte Chemie - International Edition, 2010, 49, 930-934.	7.2	42
67	Copper-Mediated Radicalâ€“Polar Crossover Enables Photocatalytic Oxidative Functionalization of Sterically Bulky Alkenes. Journal of the American Chemical Society, 2021, 143, 6065-6070.	6.6	37
68	Shape control in reactions with light. Nature, 2014, 515, 45-46.	13.7	33
69	Formation of (Z) dialkylboron enolates from enolsilanes: Stereoconvergent transmetallation and diastereoselective aldol reactions. Tetrahedron Letters, 1995, 36, 9245-9248.	0.7	32
70	Chiral BrÃ¸nsted acid-controlled intermolecular asymmetric [2â€‰+â€‰2] photocycloadditions. Nature Communications, 2021, 12, 5735.	5.8	32
71	Spinâ€Selective Generation of Triplet Nitrenes: Olefin Aziridination through Visibleâ€Light Photosensitization of Azidoformates. Angewandte Chemie, 2016, 128, 2279-2282.	1.6	30
72	Construction of Complex Cyclobutane Building Blocks by Photosensitized [2 + 2] Cycloaddition of Vinyl Boronate Esters. Organic Letters, 2021, 23, 3496-3501.	2.4	29

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73	A General Protocol for Radical Anion [3+2] Cycloaddition Enabled by Tandem Lewis Acid Photoredox Catalysis. Synthesis, 2018, 50, 539-547.	1.2	27
74	Cooperative Stereoinduction in Asymmetric Photocatalysis. Journal of the American Chemical Society, 2022, 144, 4206-4213.	6.6	24
75	Iron-catalyzed kinetic resolution of N-sulfonyl oxaziridines. Chemical Science, 2014, 5, 3524.	3.7	23
76	Opportunities in Photocatalytic Synthesis. Advanced Synthesis and Catalysis, 2014, 356, 2739-2739.	2.1	22
77	An improved procedure for the preparation of Ru(bpz)₃(PF₆)₂ via a high-yielding synthesis of 2,2â€™-bipyrazine. Beilstein Journal of Organic Chemistry, 2015, 11, 61-65.	1.3	22
78	Editorial for the Special Issue on Photocatalysis. Journal of Organic Chemistry, 2016, 81, 6895-6897.	1.7	21
79	LEDâ€NMR Monitoring of an Enantioselective Catalytic [2+2] Photocycloaddition. ChemPhotoChem, 2020, 4, 685-690.	1.5	21
80	Asymmetric catalysis of triplet-state photoreactions. Photochemistry, 2018, , 432-448.	0.2	20
81	N-Nosyl oxaziridines as terminal oxidants in copper(II)-catalyzed olefin oxyaminations. Tetrahedron Letters, 2010, 51, 5223-5225.	0.7	19
82	Organic Chemistry: A Call to Action for Diversity and Inclusion. Journal of Organic Chemistry, 2020, 85, 10287-10292.	1.7	18
83	A Redox Auxiliary Strategy for Pyrrolidine Synthesis via Photocatalytic [3+2] Cycloaddition. Asian Journal of Organic Chemistry, 2019, 8, 978-985.	1.3	16
84	Siteâ€Selective Alkoxylation of Benzylic Câˆ’H Bonds by Photoredox Catalysis. Angewandte Chemie, 2020, 132, 203-208.	1.6	15
85	Olefinâ€Supported Cationic Copper Catalysts for Photochemical Synthesis of Structurally Complex Cyclobutanes. Angewandte Chemie - International Edition, 2021, 60, 3989-3993.	7.2	14
86	Reductive Cyclizations of Nitroarenes to Hydroxamic Acids by Visible Light Photoredox Catalysis. Synthesis, 2013, 45, 2699-2705.	1.2	13
87	Tandem copper and photoredox catalysis in photocatalytic alkene difunctionalization reactions. Beilstein Journal of Organic Chemistry, 2019, 15, 351-356.	1.3	13
88	Enantioselective Synthesis of Î³-Oxycarbonyl Motifs by Conjugate Addition of Photogenerated Î±-Alkoxy Radicals. Organic Letters, 2021, 23, 5703-5708.	2.4	9
89	Organic Chemistry: A Call to Action for Diversity and Inclusion. Organic Letters, 2020, 22, 6223-6228.	2.4	8
90	Response to â€œCan Reaction Mechanisms Be Proven?â€. Journal of Chemical Education, 2009, 86, 556.	1.1	6

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91	Strategies in asymmetric catalysis. Beilstein Journal of Organic Chemistry, 2017, 13, 63-64.	1.3	5
92	Stereocontrolled Photochemical Synthesis. ChemPhotoChem, 2019, 3, 1201-1202.	1.5	5
93	Hoch enantioselektive Photoreaktionen durch Photokatalysatoren mit chiralen Metallzentren. Angewandte Chemie, 2016, 128, 2348-2350.	1.6	4
94	Excellence versus Diversity? Not an Either/Or Choice. ACS Catalysis, 2020, 10, 7310-7311.	5.5	4
95	Highly Enantioselective Thiourea-Catalyzed Nitro-Mannich Reactions. Angewandte Chemie - International Edition, 2005, 44, 7327-7327.	7.2	3
96	Organic Chemistry: A Call to Action for Diversity and Inclusion. Organometallics, 2020, 39, 2931-2936.	1.1	3
97	Olefinâ€Supported Cationic Copper Catalysts for Photochemical Synthesis of Structurally Complex Cyclobutanes. Angewandte Chemie, 2021, 133, 4035-4039.	1.6	2
98	Reply to Comment on â€œHydroxycarboxylic Acid-Derived Organosulfates: Synthesis, Stability and Quantification in Ambient Aerosolâ€. Environmental Science & Technology, 2011, 45, 9111-9111.	4.6	1
99	16 Photocatalytic Cycloadditions. , 2019, , .		1
100	Organic Chemistry: A Call to Action for Diversity and Inclusion. ACS Central Science, 2020, 6, 1241-1247.	5.3	1
101	Photons at Play: Photocatalysis in Sustainable Chemistry. A Joint Virtual Special Issue by ACS Catalysis and ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2021, 9, 13125-13127.	3.2	1
102	Highly Enantioselective Thiourea-Catalyzed Nitro-Mannich Reactions.. ChemInform, 2005, 36, no.	0.1	0