Tsuyoshi Taniguchi

List of Publications by Year
in descending order

96 papers	3,152 citations	117625 34 h-index	175258 52 g-index
133 all docs	133 docs citations	133 times ranked	2431 citing authors

#	Article	IF	Citations
1	Ironâ€Catalyzed Oxidative Addition of Alkoxycarbonyl Radicals to Alkenes with Carbazates and Air. Angewandte Chemie - International Edition, 2010, 49, 10154-10157.	13.8	177
2	Iron-catalyzed sulfonyl radical formations from sulfonylhydrazides and oxidative addition to alkenes. Organic and Biomolecular Chemistry, 2011, 9, 3151.	2.8	158
3	A Mild Oxidative Aryl Radical Addition into Alkenes by Aerobic Oxidation of Arylhydrazines. Chemistry - A European Journal, 2011, 17, 4307-4312.	3.3	105
4	Oxidative Nitration of Alkenes with tertâ€Butyl Nitrite and Oxygen. Advanced Synthesis and Catalysis, 2011, 353, 2643-2647.	4.3	97
5	Iron-Catalyzed Redox Radical Cyclizations of 1,6-Dienes and Enynes. Organic Letters, 2010, 12, 112-115.	4.6	95
6	Iron-Mediated Radical Halo-Nitration of Alkenes. Journal of Organic Chemistry, 2010, 75, 8126-8132.	3.2	85
7	Recyclable Mitsunobu Reagents: Catalytic Mitsunobu Reactions with an Iron Catalyst and Atmospheric Oxygen. Angewandte Chemie - International Edition, 2013, 52, 4613-4617.	13.8	85
8	Triptycene-Based Ladder Polymers with One-Handed Helical Geometry. Journal of the American Chemical Society, 2019, 141, 4696-4703.	13.7	84
9	Radical transâ€Hydroboration of Alkynes with Nâ€Heterocyclic Carbene Boranes. Angewandte Chemie - International Edition, 2018, 57, 9485-9490.	13.8	82
10	Direct Synthesis of 1,4â€Diols from Alkenes by Ironâ€Catalyzed Aerobic Hydration and Cï£¿H Hydroxylation. Angewandte Chemie - International Edition, 2014, 53, 2730-2734.	13.8	80
11	Advances in chemistry of N-heterocyclic carbene boryl radicals. Chemical Society Reviews, 2021, 50, 8995-9021.	38.1	75
12	Borylative Radical Cyclizations of Benzo[3,4]cyclodecâ€3â€eneâ€1,5â€diynes and Nâ€Heterocyclic Carbeneâ€Boranes. Chemistry - A European Journal, 2017, 23, 5404-5409.	3.3	72
13	Advances and mechanistic insight on the catalytic Mitsunobu reaction using recyclable azo reagents. Chemical Science, 2016, 7, 5148-5159.	7.4	71
14	Boryl Radical Addition to Multiple Bonds in Organic Synthesis. European Journal of Organic Chemistry, 2019, 2019, 6308-6319.	2.4	70
15	Iron-Mediated Radical Nitro-Cyclization Reaction of 1,6-Dienes. Organic Letters, 2010, 12, 124-126.	4.6	68
16	Total Synthesis of (Â±)-Stemonamide and (Â±)-Isostemonamide Using a Radical Cascade. Organic Letters, 2008, 10, 197-199.	4.6	64
17	Spin Filtering Along Chiral Polymers. Angewandte Chemie - International Edition, 2020, 59, 14671-14676.	13.8	64
18	Multifunctionalization of alkenes via aerobic oxynitration and sp3 Câ€“H oxidation. Chemical Communications, 2013, 49, 2198.	4.1	62

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19	Highly selective and straightforward recovery of gold and platinum from acidic waste effluents using cellulose-based bio-adsorbent. Journal of Hazardous Materials, 2021, 410, 124569.	12.4	54
20	A Short Synthesis of Lennoxamine Using a Radical Cascade. Organic Letters, 2005, 7, 4389-4390.	4.6	51
21	Reductive Addition of the Benzenethiyl Radical to Alkynes by Amine-Mediated Single Electron Transfer Reaction to Diphenyl Disulfide. Organic Letters, 2009, 11, 3298-3301.	4.6	51
22	Silica Gel Promotes Reductions of Aldehydes and Ketones by N-Heterocyclic Carbene Boranes. Organic Letters, 2012, 14, 4540-4543.	4.6	51
23	The â€œFully Catalytic Systemâ€•in Mitsunobu Reaction Has Not Been Realized Yet. Organic Letters, 2016, 18, 4036-4039.	4.6	51
24	7-endo Selective Aryl Radical Cyclization onto Enamides Leading to 3-Benzazepines:â€‰ Concise Construction of a Cephalotaxine Skeleton. Journal of Organic Chemistry, 2005, 70, 1922-1925.	3.2	48
25	Synthesis of Î²-hydroxyphosphonates by iron-catalyzed oxidative addition of phosphonyl radicals to alkenes. Tetrahedron Letters, 2011, 52, 4768-4770.	1.4	47
26	Helical springs as a color indicator for determining chirality and enantiomeric excess. Science Advances, 2021, 7, .	10.3	44
27	Synthesis of the Core of Actinophyllic Acid Using a Transannular Acyl Radical Cyclization. Organic Letters, 2012, 14, 1656-1658.	4.6	43
28	Hydroboration of Arynes with Nâ€Heterocyclic Carbene Boranes. Angewandte Chemie - International Edition, 2014, 53, 13150-13154.	13.8	42
29	Total synthesis of (Â±)-stemonamide, (Â±)-isostemonamide, (Â±)-stemonamine, and (Â±)-isostemonamine using a radical cascade. Tetrahedron, 2008, 64, 8773-8779.	1.9	39
30	Short Synthesis of (â^')-Cephalotaxine Using a Radical Cascade. Organic Letters, 2008, 10, 4129-4131.	4.6	39
31	Iodine-Mediated Î±-Acetoxylation of 2,3-Disubstituted Indoles. Organic Letters, 2012, 14, 6088-6091.	4.6	37
32	Esters as Radical Acceptors: Î²â€NHCâ€Borylalkenyl Radicals Induce Lactonization by Câ^'C Bond Formation/Cleavage on Esters. Angewandte Chemie - International Edition, 2019, 58, 6357-6361.	13.8	37
33	Catalytic Aerobic Oxidation of Arylhydrazides with Iron Phthalocyanine. Advanced Synthesis and Catalysis, 2015, 357, 3346-3352.	4.3	36
34	Selective recovery of silver and palladium from acidic waste solutions using dithiocarbamate-functionalized cellulose. Chemical Engineering Journal, 2021, 407, 127225.	12.7	36
35	Esterification via Iron-Catalyzed Activation of Triphenylphosphine with Air. ACS Catalysis, 2011, 1, 1469-1474.	11.2	35
36	Recent Advances in Reactions of Heteroatom-Centered Radicals. Synthesis, 2017, 49, 3511-3534.	2.3	33

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37	Facile and Versatile Synthesis of Endâ€Functionalized Poly(phenylacetylene)s: A Multicomponent Catalytic System for Wellâ€Controlled Living Polymerization of Phenylacetylenes. Angewandte Chemie - International Edition, 2020, 59, 8670-8680.	13.8	33
38	Synthesis of (â˜)-trachelanthamidine using a single electron transfer reaction in 1,4-dimethylpiperazine. Tetrahedron, 2008, 64, 7771-7773.	1.9	31
39	Hydroboration of Arynes Formed by Hexadehydro-Dielsâ€“Alder Cyclizations with N-Heterocyclic Carbene Boranes. Organic Letters, 2015, 17, 3450-3453.	4.6	29
40	Identification of enzymes responsible for dantrolene metabolism in the human liver: A clue to uncover the cause of liver injury. Biochemical Pharmacology, 2018, 151, 69-78.	4.4	29
41	Radical transâ€Hydroboration of Alkynes with Nâ€Heterocyclic Carbene Boranes. Angewandte Chemie, 2018, 130, 9629-9634.	2.0	26
42	Syntheses of (Â±)-Serratine, (Â±)-Lycoposerramine T, and (Â±)-Lycopoclavamine B. Organic Letters, 2013, 15, 2140-2143.	4.6	24
43	Reductions of aldehydes and ketones with a readily available N-heterocyclic carbene borane and acetic acid. Beilstein Journal of Organic Chemistry, 2013, 9, 675-680.	2.2	23
44	Formal Total Synthesis of Haouamine A. Journal of Organic Chemistry, 2009, 74, 2624-2626.	3.2	22
45	Comparative evaluation of dithiocarbamate-modified cellulose and commercial resins for recovery of precious metals from aqueous matrices. Journal of Hazardous Materials, 2021, 418, 126308.	12.4	21
46	Synthesis of Alkaloids Using Radical Cyclizations. Heterocycles, 2013, 87, 527.	0.7	20
47	Redox Divergent Synthesis of Fawcettimineâ€Type Lycopodium Alkaloids. Chemistry - A European Journal, 2014, 20, 9613-9619.	3.3	19
48	Revisiting Polyfluoroarenes as Radical Acceptors: Radical Câ€“F Bond Borylation of Polyfluoroarenes with N-Heterocyclic Carbene Boranes and Synthesis of Borane-Containing Liquid Crystals. Organic Letters, 2020, 22, 2054-2059.	4.6	19
49	Synthesis of nitrogen-containing heterocycles using exo- and endo-selective radical cyclizations onto enamides. Tetrahedron, 2008, 64, 2634-2641.	1.9	18
50	The Thermal Rearrangement of an NHCâ€Ligated 3â€Benzoborepin to an NHCâ€Boranorcaradiene. Angewandte Chemie - International Edition, 2020, 59, 903-909.	13.8	18
51	Synthesis of Stereoregular Telechelic Poly(phenylacetylene)s: Facile Terminal Chain-End Functionalization of Poly(phenylacetylene)s by Terminative Coupling with Acrylates and Acrylamides in Rhodium-Catalyzed Living Polymerization of Phenylacetylenes. Journal of the American Chemical Society, 2021, 143, 3604-3612.	13.7	18
52	Radical trans-Hydroboration of Substituted 1,3-Diynes with an N-Heterocyclic Carbene Borane. Organic Letters, 2021, 23, 1071-1075.	4.6	18
53	Asymmetric Total Synthesis and Revised Structure of Cephalezomine H. Journal of Organic Chemistry, 2009, 74, 7592-7594.	3.2	17
54	Revisiting the Polymerization of Diphenylacetylenes with Tungsten(VI) Chloride and Tetraphenyltin: An Alternative Mechanism by a Metathesis Catalytic System. Angewandte Chemie - International Edition, 2020, 59, 14772-14780.	13.8	17

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55	N-Heterocyclic Carbene Boranes are Hydrogen Donors in Masamuneâ€“Bergman Reactions of Benzo[3,4]cyclodec-3-ene-1,5-diynes. Journal of Organic Chemistry, 2017, 82, 13034-13042.	3.2	16
56	Esters as Radical Acceptors: Î²â€NHCâ€Borylalkenyl Radicals Induce Lactonization by Câ^'C Bond Formation/Cleavage on Esters. Angewandte Chemie, 2019, 131, 6423-6427.	2.0	16
57	Understanding the Polymerization of Diphenylacetylenes with Tantalum(V) Chloride and Cocatalysts: Production of Cyclic Poly(diphenylacetylene)s by Low-Valent Tantalum Species Generated in Situ. Journal of the American Chemical Society, 2021, 143, 16136-16146.	13.7	16
58	Identification of stemonamide synthetic intermediates as a novel potent anticancer drug with an apoptosisâ€inducing ability. International Journal of Cancer, 2010, 127, 474-484.	5.1	15
59	Identification of a phenanthrene derivative as a potent anticancer drug with Pim kinase inhibitory activity. Cancer Science, 2012, 103, 107-115.	3.9	14
60	Î±-Fluorohydrazones as useful precursors in nucleophilic substitutions. Tetrahedron Letters, 2013, 54, 4102-4105.	1.4	14
61	Aerobic radical multifunctionalization of alkenes using tert-butyl nitrite and water. Beilstein Journal of Organic Chemistry, 2013, 9, 1713-1717.	2.2	14
62	Systematic Evaluation of 2-Arylazocarboxylates and 2-Arylazocarboxamides as Mitsunobu Reagents. Journal of Organic Chemistry, 2018, 83, 4712-4729.	3.2	13
63	Iron-mediated one-pot formal nitrocyclization onto unactivated alkenes. Organic and Biomolecular Chemistry, 2011, 9, 653-655.	2.8	12
64	Facile and Versatile Synthesis of Endâ€Functionalized Poly(phenylacetylene)s: A Multicomponent Catalytic System for Wellâ€Controlled Living Polymerization of Phenylacetylenes. Angewandte Chemie, 2020, 132, 8748-8758.	2.0	10
65	Rhodium(I) Complexes Bearing an Arylâ€Substituted 1,3,5â€Hexatriene Chain: Catalysts for Living Polymerization of Phenylacetylene and Potential Helical Chirality of 1,3,5â€Hexatrienes. Angewandte Chemie - International Edition, 2021, 60, 22201-22206.	13.8	10
66	Substituent Effects of Tetracoordinate Boron in Organic Synthesis. Chemistry - A European Journal, 2022, 28, .	3.3	10
67	Memory of chirality in rebound cyclizations of Î±-amide radicals. Canadian Journal of Chemistry, 2013, 91, 1-5.	1.1	9
68	Speciation analysis of inorganic selenium in wastewater using a highly selective cellulose-based adsorbent via liquid electrode plasma optical emission spectrometry. Journal of Hazardous Materials, 2022, 424, 127250.	12.4	9
69	Role of 1,4-dimethylpiperazine in radical cyclizations. Arkivoc, 2008, 2008, 7-16.	0.5	9
70	Water in Amine-Mediated Single Electron Transfer Reaction of N-Allylic Trichloroacetamides. Heterocycles, 2010, 80, 657.	0.7	8
71	The Thermal Rearrangement of an NHCâ€Ligated 3â€Benzoborepin to an NHCâ€Boranorcaradiene. Angewandte Chemie, 2020, 132, 913-919.	2.0	8
72	Spin Filtering Along Chiral Polymers. Angewandte Chemie, 2020, 132, 14779-14784.	2.0	8

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73	Wellâ€Controlled Living Polymerization of Phenylacetylenes in Water: Synthesis of Waterâ€Soluble Stereoregular Telechelic Poly(phenylacetylene)s. Angewandte Chemie - International Edition, 2022, 61, .	13.8	8
74	Novel synthesis of 3-aminopropionitriles by ring opening of 2-oxazolidinones with cyanide ion. Tetrahedron Letters, 2009, 50, 4857-4858.	1.4	7
75	Dithiocarbamate-modified cellulose-based sorbents with high storage stability for selective removal of arsenite and hazardous heavy metals. RSC Advances, 2020, 10, 30238-30244.	3.6	7
76	Cross-linked dithiocarbamate-modified cellulose with enhanced thermal stability and dispersibility as a sorbent for arsenite removal. Chemosphere, 2022, 307, 135671.	8.2	6
77	Strategy for the Use of Molecular Oxygen in Organic Synthesis. Synlett, 2021, 32, 573-581.	1.8	5
78	Rhodium(I) Complexes Bearing an Arylâ€Substituted 1,3,5â€Hexatriene Chain: Catalysts for Living Polymerization of Phenylacetylene and Potential Helical Chirality of 1,3,5â€Hexatrienes. Angewandte Chemie, 2021, 133, 22375-22380.	2.0	5
79	8-Endo-Selective Aryl Radical Cyclization Leading to 3-Benzazocines. Heterocycles, 2009, 77, 575.	0.7	5
80	Wellâ€Controlled Living Polymerization of Nâ€Propargylamides and Their Derivatives by Rhodium Catalysis. Angewandte Chemie - International Edition, 2022, 61, .	13.8	5
81	Revisiting the Polymerization of Diphenylacetylenes with Tungsten(VI) Chloride and Tetraphenyltin: An Alternative Mechanism by a Metathesis Catalytic System. Angewandte Chemie, 2020, 132, 14882-14890.	2.0	3
82	Concise Synthesis of the Tricyclic Skeleton of Cylindricines Using a Radical Cascade Involving 6-EndoSelective Cyclization. Synlett, 2005, 2005, 1179-1181.	1.8	2
83	A New Method for the Synthesis of 1,4-Diols: C(sp3)â€“H Hydroxylation Induced by Iron-Catalyzed Redox Hydration of Alkenes. Synlett, 2014, 25, 2531-2535.	1.8	2
84	Synthesis of Natural Products Using Radical Cascades. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2013, 71, 229-236.	0.1	1
85	Development of Mitsunobu Reagents Recyclable by Aerobic Oxidation and the Application to Catalytic Mitsunobu Reactions. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2019, 77, 584-595.	0.1	1
86	Synthesis of Pentaarylcyclobutenylrhodium(I) Complexes and Their Reactivity and Initiation Mechanism in Polymerization of Monosubstituted Acetylenes. Organometallics, 2022, 41, 472-479.	2.3	1
87	Wellâ€Controlled Living Polymerization of N â€Propargylamides and Their Derivatives by Rhodium Catalysis. Angewandte Chemie, 2022, 134, .	2.0	1
88	RÃ¼cktitelbild: Recyclable Mitsunobu Reagents: Catalytic Mitsunobu Reactions with an Iron Catalyst and Atmospheric Oxygen (Angew. Chem. 17/2013). Angewandte Chemie, 2013, 125, 4794-4794.	2.0	0
89	Frontispiece: Borylative Radical Cyclizations of Benzo[3,4]cyclodecâ€3â€eneâ€1,5â€diynes and Nâ€Heterocyclic Carbeneâ€Boranes. Chemistry - A European Journal, 2017, 23, .	3.3	0
90	Frontispiece: Revisiting the Polymerization of Diphenylacetylenes with Tungsten(VI) Chloride and Tetraphenyltin: An Alternative Mechanism by a Metathesis Catalytic System. Angewandte Chemie - International Edition, 2020, 59, .	13.8	0

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91	Frontispiz: Revisiting the Polymerization of Diphenylacetylenes with Tungsten(VI) Chloride and Tetraphenyltin: An Alternative Mechanism by a Metathesis Catalytic System. Angewandte Chemie, 2020, 132, .	2.0	0
92	Titelbild: Wellâ€Controlled Living Polymerization of Nâ€Propargylamides and Their Derivatives by Rhodium Catalysis (Angew. Chem. 17/2022). Angewandte Chemie, 2022, 134, .	2.0	0
93	Frontispiece: Substituent Effects of Tetracoordinate Boron in Organic Synthesis. Chemistry - A European Journal, 2022, 28, .	3.3	0
94	Wellâ€Controlled Living Polymerization of Phenylacetylenes in Water: Synthesis of Waterâ€Soluble Stereoregular Telechelic Poly(phenylacetylene)s. Angewandte Chemie, 2022, 134, .	2.0	0
95	Frontispiece: Wellâ€Controlled Living Polymerization of Phenylacetylenes in Water: Synthesis of Waterâ€Soluble Stereoregular Telechelic Poly(phenylacetylene)s. Angewandte Chemie - International Edition, 2022, 61, .	13.8	0
96	Frontispiz: Wellâ€Controlled Living Polymerization of Phenylacetylenes in Water: Synthesis of Waterâ€Soluble Stereoregular Telechelic Poly(phenylacetylene)s. Angewandte Chemie, 2022, 134, .	2.0	0