

Hikaru Yanai

List of Publications by Year in descending order

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75
papers

1,402
citations

304743

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112
all docs

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docs citations

112
times ranked

1033
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#	ARTICLE	IF	CITATIONS
1	Synthetic Methods for Fluorinated Olefins. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 5939-5954.	2.4	156
2	Tetrakis(trifluoromethanesulfonyl)propane: highly effective Brønsted acid catalyst for vinylogous Mukaiyama–Michael reaction of α,β -enones with silyloxyfurans. <i>Chemical Communications</i> , 2008, , 2385.	4.1	55
3	Highly Effective Vinylogous Mukaiyama–Michael Reaction Catalyzed by Silyl Methide Species Generated from 1,1,3,3-Tetrakis(trifluoromethanesulfonyl)propane. <i>Journal of Organic Chemistry</i> , 2010, 75, 1259-1265.	3.2	55
4	Indium(III) triflate catalyzed tandem azidation/1,3-dipolar cycloaddition reaction of α,β -dialkoxyalkyne derivatives with trimethylsilyl azide. <i>Tetrahedron Letters</i> , 2005, 46, 8639-8643.	1.4	49
5	An Effective Method to Introduce Carbon Acid Functionality: 2,2-Bis(trifluoromethanesulfonyl)ethylation Reaction of Arenes. <i>Chemistry - A European Journal</i> , 2011, 17, 11747-11751.	3.3	49
6	A regioselective synthesis of poly-substituted aryl triflones through self-promoting three component reaction. <i>Chemical Communications</i> , 2011, 47, 7245.	4.1	45
7	1,4-Addition of silicon dienolates to α,β -unsaturated aldehydes catalyzed by in situ-generated silicon Lewis acid. <i>Chemical Communications</i> , 2010, 46, 8728.	4.1	41
8	Direct Alkylative Passerini Reaction of Aldehydes, Isocyanides, and Free Aliphatic Alcohols Catalyzed by Indium(III) Triflate. <i>Journal of Organic Chemistry</i> , 2009, 74, 3927-3929.	3.2	40
9	Copper mediated defluorinative allylic alkylation of difluorohomoallyl alcohol derivatives directed to an efficient synthetic method for (Z)-fluoroalkene dipeptide isosteres. <i>Journal of Fluorine Chemistry</i> , 2011, 132, 327-338.	1.7	39
10	Synthesis, Characterization, and Applications of Zwitterions Containing a Carbanion Moiety. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1560-1563.	13.8	39
11	Intramolecular Diels–Alder reaction of 1,7,9-decatrienoates catalyzed by indium(III) trifluoromethanesulfonate in aqueous media. <i>Tetrahedron</i> , 2005, 61, 7087-7093.	1.9	36
12	Convenient synthesis of fluorinated quinoline, 1,2-dihydroquinoline, and 1,2,3,4-tetrahydroquinoline derivatives. <i>Tetrahedron</i> , 2007, 63, 2153-2160.	1.9	35
13	Carbon Acid Induced Mukaiyama Aldol Type Reaction of Sterically Hindered Ketones. <i>Journal of Organic Chemistry</i> , 2010, 75, 5375-5378.	3.2	35
14	Copper-free defluorinative alkylation of allylic difluorides through Lewis acid-mediated C–F bond activation. <i>Tetrahedron Letters</i> , 2011, 52, 2997-3000.	1.4	34
15	2-(Pyridinium-1-yl)-1,1-bis(triflyl)ethanides: structural behaviour and availability as bis(triflyl)ethylating reagents. <i>Chemical Communications</i> , 2013, 49, 10091.	4.1	34
16	Remarkable rate acceleration of intramolecular Diels–Alder reaction in ionic liquids. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3657.	2.8	26
17	2-(Pyridinium-1-yl)-1,1-bis(perfluoroalkylsulfonyl)ethanide: A Practical Reagent for Synthesis of Strongly Acidic 1,1-Bis(perfluoroalkylsulfonyl)alkanes. <i>Chemistry - A European Journal</i> , 2017, 23, 8203-8211.	3.3	26
18	A Fluorinated Carbanionic Substituent for Improving Water Solubility and Lipophilicity of Fluorescent Dyes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5168-5172.	13.8	26

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19	Efficient intramolecular Diels–Alder reactions of ester-tethered 1,7,9-decatrienoates catalyzed by bis-aluminated trifluoromethanesulfonamide. <i>Tetrahedron</i> , 2004, 60, 12239-12247.	1.9	25
20	Organic acid induced olefination reaction of lactones. <i>Chemical Communications</i> , 2012, 48, 8967.	4.1	25
21	Synthesis of superacidic carbon acid and its derivatives. <i>Journal of Fluorine Chemistry</i> , 2015, 174, 108-119.	1.7	25
22	Bis-aluminated triflic amide promoted Diels–Alder reactions of $\hat{1}\pm, \hat{1}^2$ -unsaturated lactones. <i>Tetrahedron Letters</i> , 2004, 45, 9439-9442.	1.4	23
23	Reductive alkylation of bis(triflyl)methane through self-promoting formation of easily isolable 1,1-bis(triflyl)alkenes. <i>Tetrahedron Letters</i> , 2013, 54, 2160-2163.	1.4	22
24	Development of effective Lewis acids for the catalytic Diels–Alder reaction of $\hat{1}\pm, \hat{1}^2$ -unsaturated lactones with cyclopentadiene. <i>Tetrahedron Letters</i> , 2007, 48, 2993-2997.	1.4	21
25	Dimethylaluminum methide complex $\text{Tf}_2\text{CHAlMe}_2$: an effective catalyst for Diels–Alder reaction of $\hat{1}\pm, \hat{1}^2$ -unsaturated lactone derivatives with cyclopentadiene. <i>Tetrahedron</i> , 2007, 63, 12149-12159.	1.9	20
26	Four component reaction of aldehydes, isocyanides, Me_3SiN_3 , and aliphatic alcohols catalyzed by indium triflate. <i>Tetrahedron Letters</i> , 2012, 53, 3161-3164.	1.4	20
27	An efficient synthesis of triazolo-carbohydrate mimetics and their conformational analysis. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 2679.	2.8	19
28	Chemical Bonding in Polarised Push–Pull Ethylenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8839-8844.	13.8	18
29	Sequential Mukaiyama–Michael reaction induced by carbon acids. <i>Chemical Communications</i> , 2016, 52, 3280-3283.	4.1	17
30	Organic Acid Catalysts in Reactions of Lactones with Silicon Enolates. <i>Asian Journal of Organic Chemistry</i> , 2013, 2, 989-996.	2.7	16
31	Intramolecular Diels–Alder reaction of $\hat{1}\pm$ -fluoroacrylate derivatives promoted by novel bidentate aluminum Lewis acid. <i>Journal of Fluorine Chemistry</i> , 2005, 126, 709-714.	1.7	13
32	A Rapid Entry to Diverse $\hat{1}^3$ -Oxalidenetetrone Derivatives through Regioselective $\hat{1}^3$ -Bromination of Tetrone Acid Derived $\hat{1}^3$ -Lactones and Metal–Catalyzed Postfunctionalization. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 6259-6269.	2.4	13
33	Green and Catalytic Methods for $\hat{1}^3$ -Lactone Synthesis. , 2015, , 257-289.		13
34	Synthesis and Characterization of Stable Phosphorus Carbobetaines. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1956-1961.	3.3	13
35	Intramolecular [3+2] cycloaddition reaction of $\hat{1}\pm, \hat{1}^2$ -enoate derivatives having allylsilane parts: 1,1- $\hat{1}^2$ -biphenyl-2,2- $\hat{1}^2$ -di(triflyl)amide (BIPAM)+2Me ₂ AlCl as a novel Lewis acid. <i>Tetrahedron Letters</i> , 2006, 47, 4181-4185.	1.4	12
36	Development of efficient Lewis acid catalysts for intramolecular cycloaddition reactions of ester-tethered substrates. <i>Chemical Record</i> , 2007, 7, 167-179.	5.8	12

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37	1,1-Bis(triflyl)alkadienes: Easy to Handle Building Blocks for Strongly Acidic Carbon Acids. <i>Asian Journal of Organic Chemistry</i> , 2014, 3, 556-563.	2.7	11
38	Synthesis of 1,2,3,4-tetrasubstituted naphthalenes through a cascade reaction triggered by silyl acetal activation. <i>Chemical Communications</i> , 2016, 52, 7974-7977.	4.1	11
39	An Efficient Isoprenylation of Xanthenes at the C1 Position by Utilizing Anion-Accelerated Aromatic Oxy-Cope Rearrangement. <i>Synlett</i> , 2016, 27, 848-853.	1.8	11
40	Design of Novel Hydrogen-Bonding Donor Organocatalysts and Their Application to Asymmetric Direct Aldol Reaction. <i>Synlett</i> , 2017, 28, 1363-1367.	1.8	11
41	Novel defluorinative alkylation of trifluoroacetaldehyde N,O-acetal derivatives and its application to multi-component reaction. <i>Chemical Communications</i> , 2009, , 1034-1036.	4.1	10
42	Trifluorosulfonylation Cascade in Allenols: Stereocontrolled Synthesis of Bis(triflyl)enones. <i>Chemistry - A European Journal</i> , 2020, 26, 8983-8989.	3.3	10
43	A catalyst-free bis(triflyl)ethylation/benzannulation reaction: rapid access to carbazole-based superacidic carbon acids from alkynols. <i>Chemical Communications</i> , 2020, 56, 1795-1798.	4.1	9
44	Trihaloacetaldehyde N,O-acetals: useful building blocks for dihalomethylene compounds. <i>Tetrahedron</i> , 2010, 66, 4530-4541.	1.9	8
45	Chemistry of Fluorinated Carbon Acids: Synthesis, Physicochemical Properties, and Catalysis. <i>Chemical and Pharmaceutical Bulletin</i> , 2015, 63, 649-662.	1.3	8
46	Transition metal-free controlled synthesis of bis[(trifluoromethyl)sulfonyl]ethyl-decorated heterocycles. <i>Organic Chemistry Frontiers</i> , 2018, 5, 3163-3169.	4.5	8
47	Diaminomethylenemalononitrile as a Chiral Single Hydrogen Bond Catalyst: Application to Enantioselective Conjugate Addition of α -Branched Aldehydes. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2272-2275.	3.3	8
48	Synthesis of Polycyclic Aromatic Hydrocarbons Decorated by Fluorinated Carbon Acids/Carbanions. <i>Chemistry - A European Journal</i> , 2021, 27, 16112-16116.	3.3	8
49	Synthesis of β -Oxo-1,1-bis(triflyl)alkanes and Their Acidities. <i>Molecules</i> , 2013, 18, 15531-15540.	3.8	7
50	Chemoselective Two-Directional Reaction of Bifunctionalized Substrates: Formal Ketal-Selective Mukaiyama Aldol Type Reaction. <i>Synlett</i> , 2015, 26, 2457-2461.	1.8	7
51	Synthesis of (Z)-fluoroallyl azides through aluminium-mediated defluorinative functionalization reactions. <i>Tetrahedron Letters</i> , 2015, 56, 925-929.	1.4	7
52	Chemical Bonding in Polarised Push-Pull Ethylenes. <i>Angewandte Chemie</i> , 2019, 131, 8931-8936.	2.0	7
53	A Fluorinated Carbanionic Substituent for Improving Water Solubility and Lipophilicity of Fluorescent Dyes. <i>Angewandte Chemie</i> , 2021, 133, 5228-5232.	2.0	7
54	Preparation of (Z)-1-fluoro-1-alkenyl carboxylates, carbonates and carbamates through chromium mediated transformation of dibromofluoromethylcarbinyl esters and the reactivity as double acyl group donors. <i>Journal of Fluorine Chemistry</i> , 2012, 133, 38-51.	1.7	6

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55	Concise Total Synthesis of Elliptoxanthone A by Utilizing Aromatic Oxy-Cope Rearrangement for Efficient C-Isoprenylation of Xanthone Skeleton. <i>Synlett</i> , 2016, 27, 2229-2232.	1.8	6
56	Synthesis and Catalysis of Strong Carbon Acids Containing Bis(triflyl)methyl Group. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2014, 72, 158-170.	0.1	6
57	Novel One-Pot Synthesis of Xanthenes via Sequential Fluoride Ion-Promoted Fries-Type Rearrangement and Nucleophilic Aromatic Substitution. <i>Synlett</i> , 2013, 24, 2575-2580.	1.8	5
58	Gas-phase acidity of 1,1-bis(trifluoromethanesulfonyl)propane derivatives and related compounds: experimental and theoretical studies. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 181-186.	1.9	5
59	Anion-Accelerated Aromatic Oxy-Cope Rearrangement in Geranylation/Nerylation of Xanthone: Stereochemical Insights and Synthesis of Fuscaxanthone F. <i>Synlett</i> , 2020, 31, 1378-1383.	1.8	5
60	p <i>tert</i> -butylphenyl; Determination of Strongly Acidic C-H Acids Bearing a (Perfluoroalkyl)sulfonyl Group in Acetonitrile by Means of Voltammetric Reduction of Quinone. <i>Electrochemistry</i> , 2021, 89, 121-124.	1.4	5
61	Regioselective Synthesis of 4-aryl-1,3-dihydroxy-2-naphthoates through 1,2-aryl-migrative Ring Rearrangement Reaction and their Photoluminescence Properties. <i>Chemistry - A European Journal</i> , 2021, 27, 11442-11449.	3.3	5
62	A rapid and convergent synthesis of 1,1-difluoro-2-hydroxyketones through regiospecific defluorinative alkylation reaction. <i>Tetrahedron Letters</i> , 2010, 51, 2625-2628.	1.4	4
63	Epimerization-suppressed organocatalytic synthesis of poly-L-lactide in supercritical carbon dioxide under plasticizing conditions. <i>Tetrahedron Letters</i> , 2019, 60, 150987.	1.4	3
64	SNAr Reaction/Claisen Rearrangement Approach to 2,4-Diisoprenylxanthenes: Total Synthesis of Garcinone A. <i>Synlett</i> , 2020, 31, 1511-1516.	1.8	3
65	Metal-Free C/C/N/C Bond Formation Cascade for the Synthesis of (Trifluoromethyl)sulfonylated Cyclopenta[<i>b</i>]indolines. <i>Organic Letters</i> , 2021, 23, 2921-2926.	4.6	3
66	ZnCl ₂ -mediated stereo- and chemoselective synthesis of vinylphosphonates. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 2500-2507.	2.8	3
67	Synthesis of Spirocyclic Cyclobutenes through Desulfinate Spirocyclisation of gem-Bis(triflyl)cyclobutenes. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	3
68	An Efficient Two-Step Protocol for the Isoprenylation of Xanthone at the C2 Position Starting from 1-Fluoroxanthone Derivative. <i>Synlett</i> , 2020, 31, 1423-1429.	1.8	2
69	Green and catalytic methods for 3-lactone synthesis. , 2021, , 537-615.		2
70	Chemistry of Carbanions Stabilised by (Trifluoromethyl) sulfonyl Group: Synthesis, Structure and Applications. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2022, 80, 186-197.	0.1	1
71	Efficient Intramolecular Diels-Alder Reactions of Ester-Tethered 1,7,9-Decatrienoates Catalyzed by Bis-Aluminated Trifluoromethanesulfonamide.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
72	Bis-Aluminated Triflic Amide Promoted Diels-Alder Reactions of α,β -Unsaturated Lactones.. <i>ChemInform</i> , 2005, 36, no.	0.0	0

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73	Intramolecular Diels-Alder Reaction of α -Fluoroacrylate Derivatives Promoted by Novel Bidentate Aluminum Lewis Acid.. ChemInform, 2005, 36, no.	0.0	0
74	Intramolecular Diels-Alder Reaction of 1,7,9-Decatrienoates Catalyzed by Indium(III) Trifluoromethanesulfonate in Aqueous Media.. ChemInform, 2005, 36, no.	0.0	0
75	A New Approach to Axially Chiral Biaryls via the Atrop-Diastereoselective Formation of Medium-Sized Lactone Bridge. Synlett, 2016, 27, 1949-1956.	1.8	0