

Hiromichi Egami

List of Publications by Year in descending order

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75
papers

5,184
citations

109137

35
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85405

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105
all docs

105
docs citations

105
times ranked

3419
citing authors

#	ARTICLE	IF	CITATIONS
1	Trifluoromethylation of Alkenes with Concomitant Introduction of Additional Functional Groups. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8294-8308.	7.2	623
2	Iron-Catalyzed Asymmetric Aerobic Oxidation: Oxidative Coupling of 2-Naphthols. <i>Journal of the American Chemical Society</i> , 2009, 131, 6082-6083.	6.6	266
3	Alkene Trifluoromethylation Coupled with C-C Bond Formation: Construction of Trifluoromethylated Carbocycles and Heterocycles. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4000-4003.	7.2	265
4	Fe(salan)-Catalyzed Asymmetric Oxidation of Sulfides with Hydrogen Peroxide in Water. <i>Journal of the American Chemical Society</i> , 2007, 129, 8940-8941.	6.6	243
5	Enantioenriched Synthesis of <i>1</i> -Symmetric BINOLs: Iron-Catalyzed Cross-Coupling of 2-Naphthols and Some Mechanistic Insight. <i>Journal of the American Chemical Society</i> , 2010, 132, 13633-13635.	6.6	217
6	Synthesis of an Optically Active Al(salalen) Complex and Its Application to Catalytic Hydrophosphonylation of Aldehydes and Aldimines. <i>Journal of the American Chemical Society</i> , 2007, 129, 1978-1986.	6.6	215
7	Copper-Catalyzed Trifluoromethylation of Allylsilanes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4577-4580.	7.2	203
8	Trifluoromethylation Reactions for the Synthesis of β -Trifluoromethylamines. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7841-7844.	7.2	180
9	Oxytrifluoromethylation of multiple bonds using copper catalyst under mild conditions. <i>Tetrahedron Letters</i> , 2012, 53, 5503-5506.	0.7	172
10	Direct C2-trifluoromethylation of indole derivatives catalyzed by copper acetate. <i>Tetrahedron Letters</i> , 2010, 51, 5947-5949.	0.7	161
11	Iron-catalyzed trifluoromethylation with concomitant C-C bond formation via 1,2-migration of an aryl group. <i>Chemical Communications</i> , 2013, 49, 7346.	2.2	161
12	Aminotrifluoromethylation of Olefins via Cyclic Amine Formation: Mechanistic Study and Application to Synthesis of Trifluoromethylated Pyrrolidines. <i>Journal of the American Chemical Society</i> , 2015, 137, 4865-4873.	6.6	118
13	Oxidation Catalysis of Nb(salan) Complexes: Asymmetric Epoxidation of Allylic Alcohols Using Aqueous Hydrogen Peroxide as an Oxidant. <i>Journal of the American Chemical Society</i> , 2010, 132, 5886-5895.	6.6	114
14	Ruthenium(salen)-Catalyzed Aerobic Oxidative Desymmetrization of meso-Diols and Its Kinetics. <i>Journal of the American Chemical Society</i> , 2005, 127, 5396-5413.	6.6	112
15	Concise synthesis of oxindole derivatives bearing a 3-trifluoroethyl group: Copper-catalyzed trifluoromethylation of acryloanilides. <i>Journal of Fluorine Chemistry</i> , 2013, 152, 51-55.	0.9	110
16	Asymmetric Fluorolactonization with a Bifunctional Hydroxyl Carboxylate Catalyst. <i>Journal of the American Chemical Society</i> , 2015, 137, 10132-10135.	6.6	98
17	Regio- and chemoselective $\text{C}^{\text{sp}^3}\text{-H}$ arylation of benzylamines by single electron transfer/hydrogen atom transfer synergistic catalysis. <i>Chemical Science</i> , 2018, 9, 8453-8460.	3.7	91
18	Enantioselective Bromocyclization of Allylic Amides Catalyzed by BINAP Derivatives. <i>Organic Letters</i> , 2015, 17, 1244-1247.	2.4	74

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19	Nb(salen)-Catalyzed Asymmetric Epoxidation of Allylic Alcohols with Hydrogen Peroxide. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5171-5174.	7.2	62
20	Benzylic C-H trifluoromethylation of phenol derivatives. <i>Chemical Communications</i> , 2015, 51, 16675-16678.	2.2	61
21	Product Control in Alkene Trifluoromethylation: Hydrotrifluoromethylation, Vinylic Trifluoromethylation, and Iodotrifluoromethylation using Togni Reagent. <i>Chemistry - an Asian Journal</i> , 2015, 10, 2190-2199.	1.7	59
22	Aerobic oxidative kinetic resolution of racemic alcohols with bidentate ligand-binding Ru(salen) complex as catalyst. <i>Tetrahedron</i> , 2007, 63, 6383-6387.	1.0	57
23	Difunctionalization of Alkenes Using 1-Chloro-1,2-benziodoxol-3-(1 <i>H</i>)-one. <i>Journal of Organic Chemistry</i> , 2016, 81, 4020-4030.	1.7	55
24	Dianionic Phase-Transfer Catalyst for Asymmetric Fluoro-cyclization. <i>Journal of the American Chemical Society</i> , 2018, 140, 2785-2788.	6.6	55
25	What factors influence the catalytic activity of iron-salen complexes for aerobic oxidative coupling of 2-naphthols?. <i>Chemical Communications</i> , 2012, 48, 5823.	2.2	52
26	Benzylic C-H Trifluoromethylation via Photoenol. <i>Organic Letters</i> , 2017, 19, 4452-4455.	2.4	51
27	Highly Enantioselective Bromocyclization of Allylic Amides with a P/P=O Double-Site Lewis Base Catalyst. <i>Chemistry - A European Journal</i> , 2016, 22, 2127-2133.	1.7	45
28	Asymmetric Dearomative Fluorination of 2-Naphthols with a Dicarboxylate Phase-Transfer Catalyst. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14101-14105.	7.2	44
29	Oxy-trifluoromethylation of alkenes and its application to the synthesis of 1 ² -trifluoromethylstyrene derivatives. <i>Journal of Fluorine Chemistry</i> , 2014, 167, 172-178.	0.9	42
30	Dual-Role Catalysis by Thiobenzoic Acid in C-H Arylation under Photoirradiation. <i>ACS Catalysis</i> , 2021, 11, 82-87.	5.5	41
31	Development of a highly efficient single-mode microwave applicator with a resonant cavity and its application to continuous flow syntheses. <i>RSC Advances</i> , 2015, 5, 10204-10210.	1.7	39
32	Photofluorination of Aliphatic C-H Bonds Promoted by the Phthalimide Group. <i>Organic Letters</i> , 2018, 20, 1367-1370.	2.4	39
33	Dual Catalysis with Copper and Rhenium for Trifluoromethylation of Propargylic Alcohols: Efficient Synthesis of 1 ² -trifluoromethylated Enones. <i>Chemistry - A European Journal</i> , 2014, 20, 12061-12065.	1.7	37
34	Rapid Trifluoromethylation of Indole Derivatives. <i>Heterocycles</i> , 2012, 86, 979.	0.4	34
35	Simple Photo-Induced Trifluoromethylation of Aromatic Rings. <i>Synthesis</i> , 2018, 50, 2948-2953.	1.2	32
36	A reasonable explanation for the mechanism of photo-promoted chemoselective aerobic oxidation of alcohols using (ON)Ru(salen) complex as catalyst. <i>Tetrahedron Letters</i> , 2005, 46, 6049-6052.	0.7	29

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37	Sequestering and inhibiting a vascular endothelial growth factor in vivo by systemic administration of a synthetic polymer nanoparticle. <i>Journal of Controlled Release</i> , 2019, 295, 13-20.	4.8	29
38	Desymmetrization of Bisallylic Amides through Catalytic Enantioselective Bromocyclization with BINAP Monoxide. <i>Chemistry - A European Journal</i> , 2017, 23, 16758-16762.	1.7	28
39	Asymmetric Dearomatizing Fluoroamidation of Indole Derivatives with Dianionic Phase-Transfer Catalyst. <i>Organic Letters</i> , 2020, 22, 5656-5660.	2.4	28
40	Scalable Microwave-Assisted Johnsonâ€œClaisen Rearrangement with a Continuous Flow Microwave System. <i>Organic Process Research and Development</i> , 2018, 22, 1029-1033.	1.3	27
41	Aerobic oxidation of primary alcohols in the presence of activated secondary alcohols. <i>Tetrahedron Letters</i> , 2005, 46, 783-786.	0.7	26
42	Redox-neutral Câ€“H cyanation of tetrahydroisoquinolines under photoredox catalysis. <i>Tetrahedron Letters</i> , 2018, 59, 3258-3261.	0.7	26
43	<i>C</i>-Alkylation of <i>N</i>-alkylamides with styrenes in air and scale-up using a microwave flow reactor. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7568-7573.	1.5	24
44	Enantioselective 5-exo-Fluorocyclization of Ene-Oximes. <i>Molecules</i> , 2019, 24, 3464.	1.7	24
45	Asymmetric Fluorination of Cyclic Tetrasubstituted Alkenes with a Pendant Amide Groups under Dianionic Phase-Transfer Catalysis. <i>Chemical and Pharmaceutical Bulletin</i> , 2018, 66, 920-922.	0.6	20
46	Asymmetric Hetero Dielsâ€œAlder Reaction Catalyzed by Chromium Complexes of Heterogeneously Hybridized Salen/Salan Ligands. <i>Chemistry Letters</i> , 2008, 37, 632-633.	0.7	19
47	Enantioselective Epoxidation of Conjugated Z-Olefins with Newly Modified Mn(salen) Complex. <i>Chemistry Letters</i> , 2007, 36, 46-47.	0.7	17
48	Vanadium-catalyzed Asymmetric Transcyanation of Aliphatic Aldehydes with Acetone Cyanohydrin. <i>Chemistry Letters</i> , 2008, 37, 502-503.	0.7	17
49	Fluorofunctionalizations of Câ€“C Multiple Bonds and Câ€“H Bonds. <i>Chemical and Pharmaceutical Bulletin</i> , 2020, 68, 491-511.	0.6	17
50	Metal-catalyzed synthesis of heterocycles bearing a trifluoromethyl group. <i>Pure and Applied Chemistry</i> , 2014, 86, 1247-1256.	0.9	16
51	Concise synthesis of binaphthol-derived chiral dicarboxylic acids. <i>Tetrahedron</i> , 2015, 71, 6384-6388.	1.0	16
52	Design of Synthetic Polymer Nanoparticles Specifically Capturing Indole, a Small Toxic Molecule. <i>Biomacromolecules</i> , 2019, 20, 1644-1654.	2.6	16
53	¹⁸ F-Labeled dihydromethidine: positron emission tomography radiotracer for imaging of reactive oxygen species in intact brain. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 2387-2391.	1.5	16
54	Practical and Scalable Organic Reactions with Flow Microwave Apparatus. <i>Chemical Record</i> , 2019, 19, 157-171.	2.9	15

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55	Structure Dependence in Asymmetric Deprotonative Fluorination and Fluorocyclization Reactions of Allylamine Derivatives with Linked Binaphthyl Dicarboxylate Phase-Transfer Catalyst. <i>Journal of the American Chemical Society</i> , 2021, 143, 16599-16609.	6.6	14
56	Rigorous control of vesicle-forming lipid pKa by fluorine-conjugated bioisosteres for gene-silencing with siRNA. <i>Journal of Controlled Release</i> , 2019, 295, 87-92.	4.8	13
57	Enantioselective Allyl-, and Allenylboration of Aldehydes Catalyzed by Chiral Hydroxyl Carboxylic Acid. <i>Synlett</i> , 2017, 28, 976-980.	1.0	12
58	Catch and release of alkyne-tagged molecules in water by a polymer-supported cobalt complex. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 7667.	1.5	11
59	A "Catch and Release" Protocol for Alkyne-Tagged Molecules Based on a Resin-Bound Cobalt Complex for Peptide Enrichment in Aqueous Media. <i>Chemistry - A European Journal</i> , 2014, 20, 8116-8128.	1.7	11
60	Enantioselective Synthesis of Nelfinavir via Asymmetric Bromocyclization of Bisallylic Amide. <i>Journal of Organic Chemistry</i> , 2018, 83, 7290-7295.	1.7	11
61	Thiocyanation of Aromatic and Heteroaromatic Compounds with 1-Chloro-1,2-benziodoxol-3-(1 <i>H</i>)-one and (Trimethylsilyl)isothiocyanate. <i>Chemical and Pharmaceutical Bulletin</i> , 2019, 67, 1015-1018.	0.6	11
62	(E)-3-[4-(Pent-4-en-1-yloxy)phenyl]acrylic Acid. <i>MolBank</i> , 2018, 2018, M996.	0.2	9
63	±-Functionalization of Tetrahydroisoquinolines with Activated Alkyl Bromide under Photoredox Catalysis. <i>Heterocycles</i> , 2017, 95, 738.	0.4	9
64	Asymmetric Dearomative Fluorination of 2-Naphthols with a Dicarboxylate Phase-Transfer Catalyst. <i>Angewandte Chemie</i> , 2020, 132, 14205-14209.	1.6	8
65	Enhancement of target toxin neutralization effect in vivo by PEGylation of multifunctionalized lipid nanoparticles. <i>Biochemical and Biophysical Research Communications</i> , 2021, 555, 32-39.	1.0	8
66	Dearomative enantio- and diastereoselective difluorination of resorcinol derivatives. <i>Tetrahedron</i> , 2021, 96, 132355.	1.0	7
67	Optimization of Asymmetric Oxidation of Sulfides with the Fe(salan) Complex in Water and the Expanded Scope of its Application. <i>Synlett</i> , 2008, 2008, 1543-1546.	1.0	6
68	Mechanistic study on a unique SN2 ² -type reaction of allylic alcohols with organolithium reagent accelerated by a proximal trifluoromethyl group. <i>Journal of Fluorine Chemistry</i> , 2015, 179, 121-128.	0.9	6
69	Oxidative and Redox-Neutral Approaches to Symmetrical Diamines and Diols by Single Electron Transfer/Hydrogen Atom Transfer Synergistic Catalysis. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 7151-7155.	1.2	3
70	Design of synthetic polymer nanoparticles that inhibit glucose absorption from the intestine. <i>Biochemical and Biophysical Research Communications</i> , 2021, 561, 1-6.	1.0	1
71	High Efficiency Microwave Flow Chemistry Towards Synthesis of Functional Materials and Pharmaceutical Cores. , 0, , .		1
72	Aerobic Oxidation of Primary Alcohols in the Presence of Activated Secondary Alcohols.. <i>ChemInform</i> , 2005, 36, no.	0.1	0

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73	Ruthenium(salen)-Catalyzed Aerobic Oxidative Desymmetrization of meso-Diols and Its Kinetics.. ChemInform, 2005, 36, no.	0.1	0
74	SN2 Reaction on Vinylic Carbon. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2012, 70, 651-652.	0.0	0
75	Development of Anionic Phase-Transfer Catalysts for Asymmetric Fluorinations. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2022, 80, 632-644.	0.0	0