

# Hiroki Iida

## List of Publications by Year in descending order

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64  
papers

4,738  
citations

109137

35  
h-index

118652

62  
g-index

80  
all docs

80  
docs citations

80  
times ranked

3720  
citing authors

#	ARTICLE	IF	CITATIONS
1	Helical Polymers: Synthesis, Structures, and Functions. <i>Chemical Reviews</i> , 2009, 109, 6102-6211.	23.0	1,481
2	Flavin Catalyzed Oxidations of Sulfides and Amines with Molecular Oxygen. <i>Journal of the American Chemical Society</i> , 2003, 125, 2868-2869.	6.6	196
3	An Aerobic, Organocatalytic, and Chemoselective Method for Baeyer-Villiger Oxidation. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1704-1706.	7.2	141
4	Remarkable Enhancement of the Enantioselectivity of an Organocatalyzed Asymmetric Henry Reaction Assisted by Helical Poly(phenylacetylene)s Bearing Cinchona Alkaloid Pendants via an Amide Linkage. <i>ACS Macro Letters</i> , 2012, 1, 261-265.	2.3	133
5	Chiral information harvesting in dendritic metallopeptides. <i>Nature Chemistry</i> , 2011, 3, 856-861.	6.6	116
6	Diastereo- and Enantioselective Hydrogenative Aldol Coupling of Vinyl Ketones: Design of Effective Monodentate TADDOL-Like Phosphonite Ligands. <i>Journal of the American Chemical Society</i> , 2008, 130, 2746-2747.	6.6	114
7	Flavin-Catalyzed Generation of Diimide: An Environmentally Friendly Method for the Aerobic Hydrogenation of Olefins. <i>Journal of the American Chemical Society</i> , 2005, 127, 14544-14545.	6.6	113
8	Mechanism of Helix Induction in Poly(4-carboxyphenyl isocyanide) with Chiral Amines and Memory of the Macromolecular Helicity and Its Helical Structures. <i>Journal of the American Chemical Society</i> , 2009, 131, 10719-10732.	6.6	104
9	Biomimetic flavin-catalysed reactions for organic synthesis. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 7599-7613.	1.5	103
10	Oxidative Esterification, Thioesterification, and Amidation of Aldehydes by a Two-Component Organocatalyst System Using a Chiral N-Heterocyclic Carbene and Redox-Active Riboflavin. <i>Chemistry - A European Journal</i> , 2011, 17, 8009-8013.	1.7	98
11	Synthesis and chiral recognition ability of helical polyacetylenes bearing helicene pendants. <i>Polymer Chemistry</i> , 2014, 5, 4909.	1.9	97
12	Main-Chain Optically Active Riboflavin Polymer for Asymmetric Catalysis and Its Vapochromic Behavior. <i>Journal of the American Chemical Society</i> , 2012, 134, 15103-15113.	6.6	91
13	Catalytic Reductive Coupling of Alkenes and Alkynes to Carbonyl Compounds and Imines Mediated by Hydrogen. , 2007, , 77-104.		89
14	Synthesis of functional poly(phenyl isocyanide)s with macromolecular helicity memory and their use as asymmetric organocatalysts. <i>Chirality</i> , 2009, 21, 44-50.	1.3	76
15	Coupled Flavin-Iodine Redox Organocatalysts: Aerobic Oxidative Transformation from <i>N</i> -Tosylhydrazones to 1,2,3-Thiadiazoles. <i>ACS Catalysis</i> , 2017, 7, 4986-4989.	5.5	72
16	Neutral Flavins: Green and Robust Organocatalysts for Aerobic Hydrogenation of Olefins. <i>Organic Letters</i> , 2010, 12, 32-35.	2.4	70
17	Flavin-Catalyzed Oxidation of Amines and Sulfides with Molecular Oxygen: Biomimetic Green Oxidation. <i>Chemistry - an Asian Journal</i> , 2006, 1, 136-147.	1.7	69
18	Synthesis and Visualization of a Core Cross-Linked Star Polymer Carrying Optically Active Rigid-Rod Helical Polyisocyanide Arms and Its Chiral Recognition Ability. <i>Macromolecules</i> , 2011, 44, 8687-8692.	2.2	69

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19	Enantioseparation on poly(phenyl isocyanide)s with macromolecular helicity memory as chiral stationary phases for HPLC. <i>Chemical Science</i> , 2012, 3, 863-867.	3.7	69
20	Separation of enantiomers on diastereomeric right- and left-handed helical poly(phenyl isocyanide)s bearing l-alanine pendants immobilized on silica gel by HPLC. <i>Polymer Chemistry</i> , 2011, 2, 91-98.	1.9	67
21	Aerobic Reduction of Olefins by In Situ Generation of Diimide with Synthetic Flavin Catalysts. <i>Chemistry - A European Journal</i> , 2011, 17, 5908-5920.	1.7	67
22	Guest-Induced Unidirectional Dual Rotary and Twisting Motions of a Spiroborate-Based Double-Stranded Helicate Containing a Bisporphyrin Unit. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6849-6853.	7.2	63
23	Tandem Flavin-Iodine-Catalyzed Aerobic Oxidative Sulfenylation of Imidazo[1,2-a]Pyridines with Thiols. <i>Journal of Organic Chemistry</i> , 2018, 83, 12291-12296.	1.7	62
24	Chirality- and sequence-selective successive self-sorting via specific homo- and complementary-duplex formations. <i>Nature Communications</i> , 2015, 6, 7236.	5.8	61
25	Allosteric Regulation of Unidirectional Spring-like Motion of Double-Stranded Helicates. <i>Journal of the American Chemical Society</i> , 2016, 138, 4852-4859.	6.6	59
26	Flavin-catalyzed aerobic oxidation of sulfides and thiols with formic acid/triethylamine. <i>Chemical Communications</i> , 2014, 50, 10295-10298.	2.2	57
27	Flavin-iodine coupled organocatalysis for the aerobic oxidative direct sulfenylation of indoles with thiols under mild conditions. <i>Green Chemistry</i> , 2018, 20, 984-988.	4.6	57
28	Separation of C <sub>70</sub> over C <sub>60</sub> and Selective Extraction and Resolution of Higher Fullerenes by Syndiotactic Helical Poly(methyl methacrylate). <i>Journal of the American Chemical Society</i> , 2010, 132, 12191-12193.	6.6	54
29	Synthesis of helical poly(phenylacetylene)s bearing cinchona alkaloid pendants and their application to asymmetric organocatalysis. <i>Journal of Polymer Science Part A</i> , 2011, 49, 5192-5198.	2.5	49
30	Electrical Switching Behavior of a [60]Fullerene-Based Molecular Wire Encapsulated in a Syndiotactic Poly(methyl methacrylate) Helical Cavity. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1049-1053.	7.2	49
31	Synthesis and bifunctional asymmetric organocatalysis of helical poly(phenylacetylene)s bearing cinchona alkaloid pendants via a sulfonamide linkage. <i>Journal of Polymer Science Part A</i> , 2013, 51, 2869-2879.	2.5	43
32	Enantioseparation on Helical Poly(phenylacetylene)s Bearing Cinchona Alkaloid Pendants as Chiral Stationary Phases for HPLC. <i>Chemistry Letters</i> , 2012, 41, 809-811.	0.7	41
33	Riboflavin-Based Fluorogenic Sensor for Chemo- and Enantioselective Detection of Amine Vapors. <i>Chemistry - A European Journal</i> , 2014, 20, 4257-4262.	1.7	37
34	Helical Poly(phenylacetylene) Bearing Chiral and Achiral Imidazolidinone-Based Pendants that Catalyze Asymmetric Reactions due to Catalytically Active Achiral Pendants Assisted by Macromolecular Helicity. <i>Macromolecular Rapid Communications</i> , 2015, 36, 2047-2054.	2.0	37
35	Spiroborate-Based Double-Stranded Helicates: <i>meso</i> -to- <i>Racemo</i> Isomerization and Ion-Triggered Springlike Motion of the <i>Racemo</i> -Helicate. <i>Journal of the American Chemical Society</i> , 2018, 140, 17027-17039.	6.6	36
36	Comparison of riboflavin-derived flavinium salts applied to catalytic H <sub>2</sub> O <sub>2</sub> oxidations. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 3999-4007.	1.5	34

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37	Aerobic Oxidative Sulfenylation of Pyrazolones and Pyrazoles Catalyzed by Metal-Free Flavin-Iodine Catalysis. <i>Journal of Organic Chemistry</i> , 2019, 84, 14980-14986.	1.7	34
38	Multicomponent Synthesis of Imidazo[1,2- <i>a</i> ]pyridines: Aerobic Oxidative Formation of C-N and C-S Bonds by Flavin-Iodine-Coupled Organocatalysis. <i>Organic Letters</i> , 2020, 22, 8002-8006.	2.4	34
39	Double-Stranded Supramolecular Assembly through Salt Bridge Formation between Rigid and Flexible Amidine and Carboxylic Acid Strands. <i>Journal of Organic Chemistry</i> , 2010, 75, 417-423.	1.7	33
40	Redox-triggered switching of helical chirality of poly(phenylacetylene)s bearing riboflavin pendants. <i>Polymer Chemistry</i> , 2010, 1, 841.	1.9	28
41	Phototropin-Inspired Chemoselective Synthesis of Unsymmetrical Disulfides: Aerobic Oxidative Heterocoupling of Thiols Using Flavin Photocatalysis. <i>Organic Letters</i> , 2020, 22, 9244-9248.	2.4	27
42	Polymerization of an optically active phenylacetylene derivative bearing an azide residue by click reaction and reaction with a rhodium catalyst. <i>Chemical Communications</i> , 2008, , 3019.	2.2	24
43	Water-mediated deracemization of a bisporphyrin helicate assisted by diastereoselective encapsulation of chiral guests. <i>Nature Communications</i> , 2019, 10, 1457.	5.8	23
44	Aerobic Oxidative C-H Azolation of Indoles and One-Pot Synthesis of Azolyl Thioindoles by Flavin-Iodine-Coupled Organocatalysis. <i>Organic Letters</i> , 2021, 23, 2084-2088.	2.4	23
45	Enantiomeric Differentiation by Synthetic Helical Polymers. <i>Topics in Current Chemistry</i> , 2013, 340, 41-72.	4.0	22
46	Helicity Induction and Memory of Syndiotactic Poly(methyl methacrylate) Assisted by Optically Active Additives and Solvents and Chiral Amplification of Helicity. <i>Chemistry Letters</i> , 2011, 40, 28-30.	0.7	18
47	Photoswitchable organocatalysis in acylation of alcohol using dithienylethene-linked azoles. <i>Tetrahedron</i> , 2013, 69, 11064-11069.	1.0	15
48	Double-Stranded Helical Oligomers Covalently Bridged by Rotary Cyclic Boronate Esters. <i>Chemistry - an Asian Journal</i> , 2017, 12, 927-935.	1.7	15
49	Metal-Free Atom-Economical Synthesis of Tetra-Substituted Imidazoles via Flavin-Iodine Catalyzed Aerobic Cross-Dehydrogenative Coupling of Amidines and Chalcones. <i>Journal of Organic Chemistry</i> , 2022, 87, 10372-10376.	1.7	15
50	Absolute Stereochemistry of a 4-Hydroxyriboflavin Analogue of the Key Intermediate of the FAD-Monooxygenase Cycle. <i>Chemistry - A European Journal</i> , 2014, 20, 4386-4395.	1.7	14
51	Fluorescent molecular spring that visualizes the extension and contraction motions of a double-stranded helicate bearing terminal pyrene units triggered by release and binding of alkali metal ions. <i>Chemical Communications</i> , 2019, 55, 12084-12087.	2.2	10
52	Flavinium and Alkali-Metal Assembly on Sulfated Chitin: A Heterogeneous Supramolecular Catalyst for H <sub>2</sub> O <sub>2</sub> -Mediated Oxidation. <i>ChemSusChem</i> , 2019, 12, 1640-1645.	3.6	10
53	Green Aerobic Oxidation of Thiols to Disulfides by Flavin-Iodine Coupled Organocatalysis. <i>Synlett</i> , 2021, 32, 1227-1230.	1.0	10
54	Enantioseparation on Riboflavin Derivatives Chemically Bonded to Silica Gel as Chiral Stationary Phases for HPLC. <i>Chirality</i> , 2015, 27, 507-517.	1.3	9

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55	Anion effect of 5-ethylisoalloxazinium salts on flavin-catalyzed oxidations with H <sub>2</sub> O <sub>2</sub> . <i>Tetrahedron Letters</i> , 2016, 57, 4488-4491.	0.7	9
56	Helix Formation of Poly(phenylacetylene)s Bearing Azide Groups through Click Polymer Reaction with Optically Active Acetylenes. <i>Polymer Journal</i> , 2009, 41, 108-109.	1.3	8
57	Homo- and double helix formation of an optically active conjugated polymer bearing carboxy groups and amplification of the helicity upon complexation with achiral and chiral amines. <i>Journal of Polymer Science Part A</i> , 2015, 53, 990-999.	2.5	8
58	Low-Voltage-Driven Electrochemical Aerobic Oxygenation with Flavin Catalysis: Chemoselective Synthesis of Sulfoxides from Sulfides. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 2443-2448.	2.1	6
59	Encapsulation of Aromatic Guests in the Bisporphyrin Cavity of a Double-Stranded Spiroborate Helicate: Thermodynamic and Kinetic Studies and the Encapsulation Mechanism. <i>Journal of Organic Chemistry</i> , 2021, 86, 10501-10516.	1.7	5
60	Nona-covalently Immobilized Chiral Imidazolidinone on Sulfated Chitin: Reusable Heterogeneous Organocatalysts for Asymmetric Diels-Alder Reaction. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 255-260.	2.1	4
61	Flavin-Catalyzed Oxidations of Sulfides and Amines with Molecular Oxygen.. <i>ChemInform</i> , 2003, 34, no.	0.1	0
62	An Aerobic, Organocatalytic, and Chemoselective Method for Baeyer-Villiger Oxidation.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
63	The helix-inversion mechanism in double-stranded helical oligomers bridged by rotary cyclic boronate esters. <i>Journal of Computational Chemistry</i> , 2019, 40, 2036-2042.	1.5	0
64	Recent Development of Aerobic Oxidative Transformations by Flavin Catalysis. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2022, 80, 27-35.	0.0	0