Hiroki Iida

List of Publications by Year
in descending order

64	4,738	109137 35	118652 62
papers	citations	h-index	g-index

80	80	80	3720
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent Development of Aerobic Oxidative Transformations by Flavin Catalysis. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2022, 80, 27-35.	0.0	0
2	Lowâ€Voltageâ€Driven Electrochemical Aerobic Oxygenation with Flavin Catalysis: Chemoselective Synthesis of Sulfoxides from Sulfides. Advanced Synthesis and Catalysis, 2022, 364, 2443-2448.	2.1	6
3	Metal-Free Atom-Economical Synthesis of Tetra-Substituted Imidazoles via Flavin-Iodine Catalyzed Aerobic Cross-Dehydrogenative Coupling of Amidines and Chalcones. Journal of Organic Chemistry, 2022, 87, 10372-10376.	1.7	15
4	Aerobic Oxidative Câ€“H Azolation of Indoles and One-Pot Synthesis of Azolyl Thioindoles by Flavinâ€“Iodine-Coupled Organocatalysis. Organic Letters, 2021, 23, 2084-2088.	2.4	23
5	Green Aerobic Oxidation of Thiols to Disulfides by Flavinâ€“Iodine Coupled Organocatalysis. Synlett, 2021, 32, 1227-1230.	1.0	10
6	Encapsulation of Aromatic Guests in the Bisporphyrin Cavity of a Double-Stranded Spiroborate Helicate: Thermodynamic and Kinetic Studies and the Encapsulation Mechanism. Journal of Organic Chemistry, 2021, 86, 10501-10516.	1.7	5
7	Nonâ€Covalently Immobilized Chiral Imidazolidinone on Sulfatedâ€Chitin: Reusable Heterogeneous Organocatalysts for Asymmetric Dielsâ€Alder Reaction. Advanced Synthesis and Catalysis, 2020, 362, 255-260.	2.1	4
8	Multicomponent Synthesis of Imidazo[1,2-a]pyridines: Aerobic Oxidative Formation of Câ€“N and Câ€“S Bonds by Flavinâ€“Iodine-Coupled Organocatalysis. Organic Letters, 2020, 22, 8002-8006.	2.4	34
9	Phototropin-Inspired Chemoselective Synthesis of Unsymmetrical Disulfides: Aerobic Oxidative Heterocoupling of Thiols Using Flavin Photocatalysis. Organic Letters, 2020, 22, 9244-9248.	2.4	27
10	Aerobic Oxidative Sulfenylation of Pyrazolones and Pyrazoles Catalyzed by Metal-Free Flavinâ€“Iodine Catalysis. Journal of Organic Chemistry, 2019, 84, 14980-14986.	1.7	34
11	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. Chemical Communications, 2019, 55, 12084-12087.	2.2	10
12	The helixâ€inversion mechanism in doubleâ€stranded helical oligomers bridged by rotary cyclic boronate esters. Journal of Computational Chemistry, 2019, 40, 2036-2042.	1.5	0
13	Flavinium and Alkaliâ€Metal Assembly on Sulfated Chitin: Aâ€‰Heterogeneous Supramolecular Catalyst for H₂O₂â€Mediated Oxidation. ChemSusChem, 2019, 12, 1640-1645.	3.6	10
14	Water-mediated deracemization of a bisporphyrin helicate assisted by diastereoselective encapsulation of chiral guests. Nature Communications, 2019, 10, 1457.	5.8	23
15	Flavinâ€“iodine coupled organocatalysis for the aerobic oxidative direct sulfenylation of indoles with thiols under mild conditions. Green Chemistry, 2018, 20, 984-988.	4.6	57
16	Spiroborate-Based Double-Stranded Helicates: Meso-to-Racemo Isomerization and Ion-Triggered Springlike Motion of the Racemo-Helicate. Journal of the American Chemical Society, 2018, 140, 17027-17039.	6.6	36
17	Tandem Flavin-Iodine-Catalyzed Aerobic Oxidative Sulfenylation of Imidazo[1,2-a]Pyridines with Thiols. Journal of Organic Chemistry, 2018, 83, 12291-12296.	1.7	62
18	Comparison of riboflavin-derived flavinium salts applied to catalytic H₂O₂oxidations. Organic and Biomolecular Chemistry, 2018, 16, 3999-4007.	1.5	34

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19	Doubleâ€Stranded Helical Oligomers Covalently Bridged by Rotary Cyclic Boronate Esters. Chemistry - an Asian Journal, 2017, 12, 927-935.	1.7	15
20	Coupled Flavin-Iodine Redox Organocatalysts: Aerobic Oxidative Transformation from N-Tosylhydrazones to 1,2,3-Thiadiazoles. ACS Catalysis, 2017, 7, 4986-4989.	5.5	72
21	Anion effect of 5-ethylisoalloxazinium salts on flavin-catalyzed oxidations with H2O2. Tetrahedron Letters, 2016, 57, 4488-4491.	0.7	9
22	Allosteric Regulation of Unidirectional Spring-like Motion of Double-Stranded Helicates. Journal of the American Chemical Society, 2016, 138, 4852-4859.	6.6	59
23	Enantioseparation on Riboflavin Derivatives Chemically Bonded to Silica Gel as Chiral Stationary Phases for HPLC. Chirality, 2015, 27, 507-517.	1.3	9
24	Homoâ€double helix formation of an optically active conjugated polymer bearing carboxy groups and amplification of the helicity upon complexation with achiral and chiral amines. Journal of Polymer Science Part A, 2015, 53, 990-999.	2.5	8
25	Helical Poly(phenylacetylene) Bearing Chiral and Achiral Imidazolidinoneâ€Based Pendants that Catalyze Asymmetric Reactions due to Catalytically Active Achiral Pendants Assisted by Macromolecular Helicity. Macromolecular Rapid Communications, 2015, 36, 2047-2054.	2.0	37
26	Biomimetic flavin-catalysed reactions for organic synthesis. Organic and Biomolecular Chemistry, 2015, 13, 7599-7613.	1.5	103
27	Chirality- and sequence-selective successive self-sorting via specific homo- and complementary-duplex formations. Nature Communications, 2015, 6, 7236.	5.8	61
28	Synthesis and chiral recognition ability of helical polyacetylenes bearing helicene pendants. Polymer Chemistry, 2014, 5, 4909.	1.9	97
29	Flavin-catalyzed aerobic oxidation of sulfides and thiols with formic acid/triethylamine. Chemical Communications, 2014, 50, 10295-10298.	2.2	57
30	Absolute Stereochemistry of a 4â€‰aâ€Hydroxyriboflavin Analogue of the Key Intermediate of the FADâ€Monooxygenase Cycle. Chemistry - A European Journal, 2014, 20, 4386-4395.	1.7	14
31	Riboflavinâ€Based Fluorogenic Sensor for Chemoâ€and Enantioselective Detection of Amine Vapors. Chemistry - A European Journal, 2014, 20, 4257-4262.	1.7	37
32	Photoswitchable organocatalysis in acylation of alcohol using dithienylethene-linked azoles. Tetrahedron, 2013, 69, 11064-11069.	1.0	15
33	Electrical Switching Behavior of a [60]Fullereneâ€Based Molecular Wire Encapsulated in a Syndiotactic Poly(methyl methacrylate) Helical Cavity. Angewandte Chemie - International Edition, 2013, 52, 1049-1053.	7.2	49
34	Guestâ€Induced Unidirectional Dual Rotary and Twisting Motions of a Spiroborateâ€Based Doubleâ€Stranded Helicate Containing a Bisporphyrin Unit. Angewandte Chemie - International Edition, 2013, 52, 6849-6853.	7.2	63
35	Synthesis and bifunctional asymmetric organocatalysis of helical poly(phenylacetylene)s bearing cinchona alkaloid pendants via a sulfonamide linkage. Journal of Polymer Science Part A, 2013, 51, 2869-2879.	2.5	43
36	Enantiomeric Differentiation by Synthetic Helical Polymers. Topics in Current Chemistry, 2013, 340, 41-72.	4.0	22

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37	Enantioseparation on Helical Poly(phenylacetylene)s Bearing Cinchona Alkaloid Pendants as Chiral Stationary Phases for HPLC. Chemistry Letters, 2012, 41, 809-811.	0.7	41
38	Main-Chain Optically Active Riboflavin Polymer for Asymmetric Catalysis and Its Vapochromic Behavior. Journal of the American Chemical Society, 2012, 134, 15103-15113.	6.6	91
39	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. ACS Macro Letters, 2012, 1, 261-265.	2.3	133
40	Enantioseparation on poly(phenyl isocyanide)s with macromolecular helicity memory as chiral stationary phases for HPLC. Chemical Science, 2012, 3, 863-867.	3.7	69
41	Chiral information harvesting in dendritic metallopeptides. Nature Chemistry, 2011, 3, 856-861.	6.6	116
42	Separation of enantiomers on diastereomeric right- and left-handed helical poly(phenyl isocyanide)s bearing l-alanine pendants immobilized on silica gel by HPLC. Polymer Chemistry, 2011, 2, 91-98.	1.9	67
43	Synthesis and Visualization of a Core Cross-Linked Star Polymer Carrying Optically Active Rigid-Rod Helical Polyisocyanide Arms and Its Chiral Recognition Ability. Macromolecules, 2011, 44, 8687-8692.	2.2	69
44	Helicity Induction and Memory of Syndiotactic Poly(methyl methacrylate) Assisted by Optically Active Additives and Solvents and Chiral Amplification of Helicity. Chemistry Letters, 2011, 40, 28-30.	0.7	18
45	Synthesis of helical poly(phenylacetylene)s bearing cinchona alkaloid pendants and their application to asymmetric organocatalysis. Journal of Polymer Science Part A, 2011, 49, 5192-5198.	2.5	49
46	Aerobic Reduction of Olefins by In Situ Generation of Diimide with Synthetic Flavin Catalysts. Chemistry - A European Journal, 2011, 17, 5908-5920.	1.7	67
47	Oxidative Esterification, Thioesterification, and Amidation of Aldehydes by a Twoâ€Component Organocatalyst System Using a Chiral Nâ€Heterocyclic Carbene and Redoxâ€Active Riboflavin. Chemistry - A European Journal, 2011, 17, 8009-8013.	1.7	98
48	Double-Stranded Supramolecular Assembly through Salt Bridge Formation between Rigid and Flexible Amidine and Carboxylic Acid Strands. Journal of Organic Chemistry, 2010, 75, 417-423.	1.7	33
49	Redox-triggered switching of helical chirality of poly(phenylacetylene)s bearing riboflavin pendants. Polymer Chemistry, 2010, 1, 841.	1.9	28
50	Separation of C₇₀ over C₆₀ and Selective Extraction and Resolution of Higher Fullerenes by Syndiotactic Helical Poly(methyl methacrylate). Journal of the American Chemical Society, 2010, 132, 12191-12193.	6.6	54
51	Neutral Flavins: Green and Robust Organocatalysts for Aerobic Hydrogenation of Olefins. Organic Letters, 2010, 12, 32-35.	2.4	70
52	Synthesis of functional poly(phenyl isocyanide)s with macromolecular helicity memory and their use as asymmetric organocatalysts. Chirality, 2009, 21, 44-50.	1.3	76
53	Helix Formation of Poly(phenylacetylene)s Bearing Azide Groups through Click Polymer Reaction with Optically Active Acetylenes. Polymer Journal, 2009, 41, 108-109.	1.3	8
54	Mechanism of Helix Induction in Poly(4-carboxyphenyl isocyanide) with Chiral Amines and Memory of the Macromolecular Helicity and Its Helical Structures. Journal of the American Chemical Society, 2009, 131, 10719-10732.	6.6	104

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55	Helical Polymers: Synthesis, Structures, and Functions. Chemical Reviews, 2009, 109, 6102-6211.	23.0	1,481
56	Diastereo- and Enantioselective Hydrogenative Aldol Coupling of Vinyl Ketones:â€‰ Design of Effective Monodentate TADDOL-Like Phosphonite Ligands. Journal of the American Chemical Society, 2008, 130, 2746-2747.	6.6	114
57	Polymerization of an optically active phenylacetylene derivative bearing an azide residue by click reaction and reaction with a rhodium catalyst. Chemical Communications, 2008, , 3019.	2.2	24
58	Catalytic Reductive Coupling of Alkenes and Alkynes to Carbonyl Compounds and Imines Mediated by Hydrogen. , 2007, , 77-104.		89
59	Flavin-Catalyzed Oxidation of Amines and Sulfides with Molecular Oxygen: Biomimetic Green Oxidation. Chemistry - an Asian Journal, 2006, 1, 136-147.	1.7	69
60	Flavin-Catalyzed Generation of Diimide:Â An Environmentally Friendly Method for the Aerobic Hydrogenation of Olefins. Journal of the American Chemical Society, 2005, 127, 14544-14545.	6.6	113
61	An Aerobic, Organocatalytic, and Chemoselective Method for Baeyer-Villiger Oxidation. Angewandte Chemie - International Edition, 2005, 44, 1704-1706.	7.2	141
62	An Aerobic, Organocatalytic, and Chemoselective Method for Baeyerâ€”Villiger Oxidation.. ChemInform, 2005, 36, no.	0.1	0
63	Flavin-Catalyzed Oxidations of Sulfides and Amines with Molecular Oxygen.. ChemInform, 2003, 34, no.	0.1	0
64	Flavin Catalyzed Oxidations of Sulfides and Amines with Molecular Oxygen. Journal of the American Chemical Society, 2003, 125, 2868-2869.	6.6	196