Satoru Hiroto

List of Publications by Year
in descending order

76 papers	3,106 citations	147786 31 h-index	168376 53 g-index
91 all docs	91 docs citations	91 times ranked	3062 citing authors

#	Article	IF	Citations
1	Synthesis and Functionalization of Porphyrins through Organometallic Methodologies. Chemical Reviews, 2017, 117, 2910-3043.	47.7	360
2	Nitrogen-embedded buckybowl and its assembly with C60. Nature Communications, 2015, 6, 8215.	12.8	208
3	Synthesis and Biradicaloid Character of Doubly Linked Corrole Dimers. Journal of the American Chemical Society, 2006, 128, 12380-12381.	13.7	159
4	Intermolecular Oxidative Annulation of 2â€Aminoanthracenes to Diazaacenes and Aza[7]helicenes. Angewandte Chemie - International Edition, 2012, 51, 10333-10336.	13.8	143
5	Azabuckybowl-Based Molecular Tweezers as C₆₀ and C₇₀ Receptors. Journal of the American Chemical Society, 2018, 140, 6336-6342.	13.7	104
6	Iridium-Catalyzed Direct Tetraborylation of Perylene Bisimides. Organic Letters, 2011, 13, 2532-2535.	4.6	99
7	Synthesis of Doubly Î²-to-Î² 1,3-Butadiyne-Bridged Diporphyrins: Enforced Planar Structures and Large Two-Photon Absorption Cross Sections. Angewandte Chemie - International Edition, 2007, 46, 5125-5128.	13.8	95
8	Reversible Ïƒ-Bond Formation in Bowl-Shaped Ï€-Radical Cations: The Effects of Curved and Planar Structures. Journal of the American Chemical Society, 2018, 140, 4649-4655.	13.7	82
9	Synthesis of Corrole Derivatives through Regioselective Ir-Catalyzed Direct Borylation. Angewandte Chemie - International Edition, 2005, 44, 6763-6766.	13.8	80
10	Unusual Interchromophoric Interactions in Î²,Î²â€² Directly and Doubly Linked Corrole Dimers: Prohibited Electronic Communication and Abnormal Singlet Ground States. Journal of the American Chemical Society, 2009, 131, 6412-6420.	13.7	79
11	Synthesis of Highly Twisted and Fully Ï€-Conjugated Porphyrinic Oligomers. Journal of the American Chemical Society, 2015, 137, 142-145.	13.7	75
12	Synthesis of Diazo-Bridged BODIPY Dimer and Tetramer by Oxidative Coupling of Î²-Amino-Substituted BODIPYs. Organic Letters, 2014, 16, 3004-3007.	4.6	69
13	Regioselective Borylation of Porphyrins by Cï£¿H Bond Activation under Iridium Catalysis to Afford Useful Building Blocks for Porphyrin Assemblies. Chemistry - an Asian Journal, 2007, 2, 849-859.	3.3	68
14	2,5â€Thienyleneâ€Bridged Triangular and Linear Porphyrin Trimers. Angewandte Chemie - International Edition, 2008, 47, 6004-6007.	13.8	61
15	Oxidative Annulation of Î²â€Aminoporphyrins into Pyrazineâ€Fused Diporphyrins. Angewandte Chemie - International Edition, 2012, 51, 2894-2897.	13.8	59
16	Synthesis of Oxygen-Substituted Hexa-peri-hexabenzocoronenes through Ir-Catalyzed Direct Borylation. Organic Letters, 2012, 14, 2472-2475.	4.6	50
17	Isolation of a 1,4-diketone intermediate in oxidative dimerization of 2-hydroxyanthracene and its conversion to oxahelicene. Chemical Communications, 2015, 51, 4607-4610.	4.1	47
18	Shaping Antiaromatic Ï€â€Systems by Metalation: Synthesis of a Bowlâ€Shaped Antiaromatic Palladium Norcorrole. Angewandte Chemie - International Edition, 2017, 56, 11822-11825.	13.8	46

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19	Supramolecular assemblies of a nitrogen-embedded buckybowl dimer with C₆₀. Chemical Science, 2018, 9, 819-824.	7.4	46
20	Functionalization of a Simple Dithienylethene via Palladium-Catalyzed Regioselective Direct Arylation. Organic Letters, 2011, 13, 6394-6397.	4.6	45
21	Synthesis of a figure-eight azahelicene dimer with high emission and CPL properties. Organic Chemistry Frontiers, 2017, 4, 664-667.	4.5	45
22	Nearâ€IR Absorbing Nickel(II) Porphyrinoids Prepared by Regioselective Insertion of Silylenes into Antiaromatic Nickel(II) Norcorrole. Angewandte Chemie - International Edition, 2014, 53, 1506-1509.	13.8	44
23	meso-Alkyl-Substitutedmeso-mesoLinked Diporphyrins andmeso-Alkyl-Substitutedmeso-meso,Î²-Î²,Î²-Î²Triply Linked Diporphyrins. Journal of Organic Chemistry, 2005, 70, 4054-4058.	3.2	43
24	Oxidation of 2-amino-substituted BODIPYs providing pyrazine-fused BODIPY trimers. Chemical Communications, 2014, 50, 2715-2717.	4.1	43
25	Regioselective Nucleophilic Functionalization of Antiaromatic Nickel(II) Norcorroles. Angewandte Chemie - International Edition, 2015, 54, 8454-8457.	13.8	43
26	NIR mechanochromic behaviours of a tetracyanoethylene-bridged hexa-peri-hexabenzocoronene dimer and trimer through dissociation of Câ€“C bonds. Journal of Materials Chemistry C, 2017, 5, 5310-5315.	5.5	43
27	Synthetic protocol for diarylethenes through Suzukiâ€“Miyaura coupling. Chemical Communications, 2011, 47, 7149.	4.1	41
28	Porphyrin Synthesis in Water Provides New Expanded Porphyrins with Direct Bipyrrole Linkages:Â Isolation and Characterization of Two Heptaphyrins. Journal of the American Chemical Society, 2006, 128, 6568-6569.	13.7	36
29	Functionalization of Hexaâ€periâ€hexabenzocoronenes: Investigation of the Substituent Effects on a Superbenzene. Chemistry - an Asian Journal, 2013, 8, 178-190.	3.3	34
30	Conformational Changes of meso-Aryl Substituted Expanded Porphyrins upon Protonation: Effects on Photophysical Properties and Aromaticity. Journal of Physical Chemistry B, 2009, 113, 5794-5802.	2.6	33
31	Energy and Electron Transfer from Fluorescent Mesostructured Organosilica Framework to Guest Dyes. Langmuir, 2012, 28, 3987-3994.	3.5	30
32	Synthesis and oxidation of cyclic tetraindole. Chemical Science, 2012, 3, 524-527.	7.4	30
33	Ni(II) 10-Phosphacorrole: A Porphyrin Analogue Containing Phosphorus at the Meso Position. Journal of the American Chemical Society, 2019, 141, 4800-4805.	13.7	24
34	Innovative Synthesis and Functions of Curved Ï€-Conjugated Molecules. Bulletin of the Chemical Society of Japan, 2018, 91, 829-838.	3.2	22
35	Synthesis of Directly and Doubly Linked Dioxoisobacteriochlorin Dimers. Journal of the American Chemical Society, 2008, 130, 16172-16173.	13.7	21
36	Ï€â€Extended Dihydrophenazines with Threeâ€State NIR Electrochromism Involving Large Conformational Changes. Chemistry - an Asian Journal, 2017, 12, 2311-2317.	3.3	21

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37	Synthesis of Highly Distorted Ï€â€Extended [2.2]Metacyclophanes by Intermolecular Double Oxidative Coupling. Angewandte Chemie - International Edition, 2013, 52, 5740-5743.	13.8	19
38	Synthesis of Ï€â€Functional Molecules through Oxidation of Aromatic Amines. Chemistry - an Asian Journal, 2019, 14, 2514-2523.	3.3	19
39	Carbolithiation of meso-aryl-substituted 5,15-diazaporphyrin selectively provides 3-alkylated diazachlorins. Chemical Communications, 2013, 49, 5064.	4.1	18
40	Synthesis of Free-Base 10-Azacorroles. Organic Letters, 2016, 18, 2978-2981.	4.6	18
41	The synthesis of Ni^{II} and Al^{III} 10-azacorroles through coordination-induced cyclisation involving 1,2-migration. Chemical Communications, 2016, 52, 3540-3543.	4.1	18
42	10â€Silacorroles Exhibiting Nearâ€Infrared Absorption and Emission. Chemistry - A European Journal, 2017, 23, 7866-7870.	3.3	18
43	Amplified Heavy-Atom Free Phosphorescence from meta-Dimethoxy Difluoroboron Î²-Diketonate Charge-Transfer Materials. Journal of Physical Chemistry C, 2019, 123, 20488-20496.	3.1	18
44	Assembled structures of dipyrrins and their oligomers bridged by dioxy-boron moieties. Dalton Transactions, 2013, 42, 15885.	3.3	17
45	Zwitterionic Corroles: Regioselective Nucleophilic Pyridination of a Doubly Linked Biscorrole. Angewandte Chemie - International Edition, 2009, 48, 2388-2390.	13.8	16
46	Synthesis of Pyridine-Fused Perylene Imides with an Amidine Moiety for Hydrogen Bonding. Organic Letters, 2013, 15, 3110-3113.	4.6	16
47	Shaping Antiaromatic Ï€â€Systems by Metalation: Synthesis of a Bowlâ€Shaped Antiaromatic Palladium Norcorrole. Angewandte Chemie, 2017, 129, 11984-11987.	2.0	16
48	Adsorption characteristic of selfâ€assembled corrole dimers on HOPG. Surface and Interface Analysis, 2009, 41, 225-230.	1.8	15
49	Porphyrin Derivatives with Carbon-Metal Bonds. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2009, 67, 688-700.	0.1	15
50	Excess Polarizability Reveals Exciton Localization/Delocalization Controlled by Linking Positions on Porphyrin Rings in Butadiyne-Bridged Porphyrin Dimers. Journal of Physical Chemistry A, 2010, 114, 3384-3390.	2.5	14
51	Acid-Mediated Migration of Bromide in an Antiaromatic Porphyrinoid: Preparation of Two Regioisomeric Ni(II) Bromonorcorroles. Journal of Organic Chemistry, 2017, 82, 10425-10432.	3.2	14
52	Syntheses and Properties of Antiaromatic Porphyrinoids. , 2016, , 233-302.		12
53	Control of Conformation and Chirality of Nonplanar Ï€â€Conjugated Diporphyrins Using Substituents and Axial Ligands. Chemistry - an Asian Journal, 2016, 11, 936-942.	3.3	12
54	Heteroatoms in Bowl-shaped Polycyclic Aromatic Hydrocarbons: Synthesis and Structures. Chemistry Letters, 2021, 50, 1146-1155.	1.3	12

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55	Silylethynyl Substituents as Porphyrin Protecting Groups for Solubilization and Selectivity Control. Organic Letters, 2014, 16, 1818-1821.	4.6	11
56	X-Shaped Cyclobutane-Linked Tetraporphyrins through a Thermal [2+2] Cycloaddition of Etheno-Fused Diporphyrins. Journal of the American Chemical Society, 2018, 140, 8392-8395.	13.7	10
57	First self-assembly study of large Ï€-conjugated corrole dimers on solid substrates. Applied Surface Science, 2009, 255, 5885-5890.	6.1	9
58	Synthesis, reactivity and property of 5,15-dithiaporphyrin copper(II) complex. Journal of Porphyrins and Phthalocyanines, 2014, 18, 675-678.	0.8	9
59	Porphyrin Analogues That Consist of Indole, Benzofuran, and Benzothiophene Subunits. Asian Journal of Organic Chemistry, 2013, 2, 312-319.	2.7	8
60	Synthesis of bright red-emissive dicyanoetheno-bridged hexa-peri-hexabenzocoronene dimers. Organic and Biomolecular Chemistry, 2017, 15, 1426-1434.	2.8	6
61	Synthesis of Dihydropyrazine-fused Porphyrin Dimers. Chemistry Letters, 2019, 48, 371-373.	1.3	6
62	Indolylindolinone: Easily Accessible, Tunable, and Wide-range Absorbing Dyes. Chemistry Letters, 2015, 44, 1703-1705.	1.3	5
63	Facile Synthesis of Nitrogen-containing Polycyclic Aromatic Hydrocarbons from Perylene Bisimides. Chemistry Letters, 2014, 43, 1309-1311.	1.3	4
64	Regioselective Desilylation of a Ï€-Extended Aza[5]helicene. Chemistry Letters, 2019, 48, 1069-1072.	1.3	4
65	Ï€â€Conjugated Compounds for Molecular Materials. Chemistry - an Asian Journal, 2019, 14, 1600-1601.	3.3	4
66	Helical Pitch Dependent Optical Properties of Ï€-Extended Aza[5]helicene Radical Cations. Bulletin of the Chemical Society of Japan, 2020, 93, 1334-1338.	3.2	4
67	Synthesis of Curved Hexa-peri-hexabenzocoronenes. Chemistry Letters, 2014, 43, 1637-1639.	1.3	3
68	Regioselective Double Cyclization of 5,15-Bis(trimethylsilylethynyl)porphyrin to Produce Di(oxoethano)porphyrin. Chemistry Letters, 2014, 43, 1444-1446.	1.3	2
69	Macrocyclic dipyrrin dimer bridged by ethylene and dioxyphenylene linkers. Journal of Porphyrins and Phthalocyanines, 2015, 19, 135-139.	0.8	2
70	Fully-substituted 1,3-Butadienes as Ï€-Conjugated Linkers between Pyrenes. Chemistry Letters, 2016, 45, 403-405.	1.3	2
71	Substituent Effect on Oxidative Dimerization of Porphyrins. ECS Meeting Abstracts, 2020, MA2020-01, 907-907.	0.0	1
72	Intermolecular Asymmetric Dearomatization of Phenols. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2014, 72, 181-182.	0.1	0

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73	Frontispiece: 10â€Silacorroles Exhibiting Nearâ€Infrared Absorption and Emission. Chemistry - A European Journal, 2017, 23, .	3.3	0
74	Development of synthetic protocols for porphyrins and their analogs based on distorted structures â€" a SPP/JPP Young Investigator Award paper. Journal of Porphyrins and Phthalocyanines, 2020, 24, 1258-1271.	0.8	0
75	Synthesis of Heteroatom-Containing Curved Ï€-Conjugated Molecules. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2018, 76, 37-44.	0.1	0
76	Electrochemistry of Three-Dimensional Porphyrin Arrays and Related Compounds. ECS Meeting Abstracts, 2019, , .	0.0	0