

Tomohiro Higashino

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72 papers	2,377 citations	23 h-index	47 g-index
83 ext. papers	2,655 ext. citations	6.5 avg, IF	5.45 L-index

#	Paper	IF	Citations
72	Porphyrins as excellent dyes for dye-sensitized solar cells: recent developments and insights. <i>Dalton Transactions</i> , 2015 , 44, 448-63	4.3	472
71	tert-Butoxide-mediated arylation of benzene with aryl halides in the presence of a catalytic 1,10-phenanthroline derivative. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15537-9	16.4	419
70	Renaissance of Fused Porphyrins: Substituted Methylene-Bridged Thiophene-Fused Strategy for High-Performance Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9910-9919	16.4	125
69	Möbius antiaromatic bisphosphorus complexes of [30]hexaphyrins. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4950-4	16.4	105
68	Tropolone as a High-Performance Robust Anchoring Group for Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9052-6	16.4	91
67	Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 629-33	16.4	79
66	Photoconductivity in Metal-Organic Framework (MOF) Thin Films. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9590-9595	16.4	68
65	A new class of epitaxial porphyrin metal-organic framework thin films with extremely high photocarrier generation efficiency: promising materials for all-solid-state solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12739-12747	13	64
64	Effects of Bulky Substituents of Push-Pull Porphyrins on Photovoltaic Properties of Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15379-90	9.5	50
63	Möbius Antiaromatic Bisphosphorus Complexes of [30]Hexaphyrins. <i>Angewandte Chemie</i> , 2010 , 122, 5070-5074	3.6	50
62	Regioisomer effects of [70]fullerene mono-adduct acceptors in bulk heterojunction polymer solar cells. <i>Chemical Science</i> , 2017 , 8, 181-188	9.4	45
61	A Möbius antiaromatic complex as a kinetically controlled product in phosphorus insertion to a [32]heptaphyrin. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 13105-8	16.4	40
60	Diprotonated [28]hexaphyrins(1.1.1.1.1): triangular antiaromatic macrocycles. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3427-31	16.4	36
59	A single cis-2 regioisomer of ethylene-tethered indene dimer-fullerene adduct as an electron-acceptor in polymer solar cells. <i>Chemical Communications</i> , 2015 , 51, 8233-6	5.8	33
58	Phosphorus complexes of a triply-fused [24]pentaphyrin. <i>Chemical Science</i> , 2012 , 3, 103-107	9.4	33
57	Phosphorus complexes of the first expanded isophlorins. <i>Chemistry - A European Journal</i> , 2010 , 16, 55-9	4.8	33
56	Tropolone as a High-Performance Robust Anchoring Group for Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2015 , 127, 9180-9184	3.6	31

55	Synthesis and Isolation of cis-2 Regiospecific Ethylene-Tethered Indene Dimer-[70]Fullerene Adduct for Polymer Solar Cell Applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16676-85	9.5	30
54	A Hydroxamic Acid Anchoring Group for Durable Dye-Sensitized Solar Cells Incorporating a Cobalt Redox Shuttle. <i>ChemSusChem</i> , 2017 , 10, 3347-3351	8.3	29
53	Effect of Ligand Structures of Copper Redox Shuttles on Photovoltaic Performance of Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2020 , 59, 452-459	5.1	27
52	Singly N-fused M π bius aromatic [28]hexaphyrins(1.1.1.1.1.1). <i>Journal of Organic Chemistry</i> , 2010 , 75, 7958-7961	4.1	26
51	Covalently linked 5,15-diazaporphyrin dimers: promising scaffolds for a highly conjugated azaporphyrin system. <i>Chemistry - A European Journal</i> , 2014 , 20, 3342-9	4.8	25
50	Combined Experimental and Theoretical Investigations on Optical Activities of M π bius Aromatic and M π bius Antiaromatic Hexaphyrin Phosphorus Complexes. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 4241-8	2.8	24
49	Peripheral arylation of subporphyrazines. <i>Chemistry - A European Journal</i> , 2013 , 19, 10353-9	4.8	23
48	2,3,17,18-Tetraethylsulfanyl [30]hexaphyrin(1.1.1.1.1.1) as the first aromatic isophlorin-type free-base. <i>Chemical Science</i> , 2013 , 4, 1087	9.4	22
47	Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer. <i>Angewandte Chemie</i> , 2016 , 128, 639-643	3.6	21
46	A M π bius Antiaromatic Complex as a Kinetically Controlled Product in Phosphorus Insertion to a [32]Heptaphyrin. <i>Angewandte Chemie</i> , 2012 , 124, 13282-13285	3.6	20
45	Photovoltaic Properties and Long-Term Durability of Porphyrin-Sensitized Solar Cells with Silicon-Based Anchoring Groups. <i>ACS Omega</i> , 2017 , 2, 6958-6967	3.9	19
44	2,3,17,18-Tetrahalohexaphyrins and the first phlorin-type hexaphyrins. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 1994-2002	4.5	19
43	A M π bius aromatic [28]hexaphyrin bearing a diethylamine group: a rigid but smooth conjugation circuit. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5456-9	16.4	18
42	Diprotonated [28]Hexaphyrins(1.1.1.1.1.1): Triangular Antiaromatic Macrocycles. <i>Angewandte Chemie</i> , 2014 , 126, 3495-3499	3.6	18
41	Fusing Porphyrins and Phospholes: Synthesis and Analysis of a Phosphorus-Containing Porphyrin. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12311-5	16.4	18
40	Effects of Immersion Solvent on Photovoltaic and Photophysical Properties of Porphyrin-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18689-96	9.5	14
39	Conformation dynamics of non-, singly- and doubly-N-fused [28]hexaphyrins revealed by photophysical studies. <i>Chemical Communications</i> , 2011 , 47, 3960-2	5.8	14
38	Hexaphyrin as a Potential Theranostic Dye for Photothermal Therapy and F Magnetic Resonance Imaging. <i>ChemBioChem</i> , 2017 , 18, 951-959	3.8	13

- 37 Synthesis of pushpull porphyrin with two electron-donating and two electron-withdrawing groups and its application to dye-sensitized solar cell. *Journal of Porphyrins and Phthalocyanines*, **2015**, 19, 140-149 1.8 13
- 36 Remarkable Dependence of Exciplex Decay Rate on Through-Space Separation Distance between Porphyrin and Chemically Converted Graphene. *Journal of Physical Chemistry C*, **2016**, 120, 28337-28344 3.8 13
- 35 Cleaner synthesis and systematical characterization of sustainable poly(isosorbide-co-ethylene terephthalate) by environ-benign and highly active catalysts. *Journal of Cleaner Production*, **2019**, 206, 483-497 10.3 13
- 34 Photoleitfähigkeit in Dünfilmen Metall-organischer Gerüste. *Angewandte Chemie*, **2019**, 131, 9691-9696 3.6 12
- 33 Enhanced Donor-Acceptor Character of a Porphyrin Dye Incorporating Naphthobisthiadiazole for Efficient Near-Infrared Light Absorption. *European Journal of Organic Chemistry*, **2018**, 2018, 2537-2547 3.2 11
- 32 Thiophene-fused dithiaoctaphyrins: System switching between cross-conjugated and macrocyclic networks. *Chemical Communications*, **2017**, 53, 5091-5094 5.8 9
- 31 Phosphole-Thiophene Hybrid: A Dual Role of Dithieno[3,4- b:3'4' d]phosphole as Electron Acceptor and Electron Donor. *Journal of Organic Chemistry*, **2018**, 83, 3397-3402 4.2 9
- 30 Boron and Phosphorus Complexes of meso-Aryl Expanded Porphyrins. *Heterocycles*, **2013**, 87, 31 0.8 9
- 29 Heavy Metal Effects on the Photovoltaic Properties of Metalloporphyrins in Dye-Sensitized Solar Cells. *ACS Applied Energy Materials*, **2020**, 3, 12460-12467 6.1 9
- 28 -1 Isomers of tethered bismethano[70]fullerene as electron acceptors in organic photovoltaics.. *RSC Advances*, **2018**, 8, 18316-18326 3.7 9
- 27 Enantiomerically Separated [70]PCBM for Organic Photovoltaics. *Chemistry Letters*, **2017**, 46, 1001-1003 1.7 8
- 26 Simple Processing Additive-Driven 20% Efficiency for Inverted Planar Heterojunction Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 18431-18436 9.5 8
- 25 Calix[5]pyrrol for Fluoride Ion Sensing with Visible and Near Infrared Optical Responses. *Chemistry - an Asian Journal*, **2018**, 13, 2019 4.5 8
- 24 ABC-ABC-Type Directly meso-meso Linked Porphyrin Dimers. *Chemistry - A European Journal*, **2019**, 25, 538-547 4.8 8
- 23 Pluripotent Features of Doubly Thiophene-Fused Benzodiphospholes as Organic Functional Materials. *Chemistry - A European Journal*, **2019**, 25, 6425-6438 4.8 7
- 22 Hybrid [5]Radialenes with Bispyrroloheteroles: New Electron-Donating Units. *Chemistry - A European Journal*, **2015**, 21, 13375-81 4.8 7
- 21 A Möbius Aromatic [28]Hexaphyrin Bearing a Diethylamine Group: A Rigid but Smooth Conjugation Circuit. *Angewandte Chemie*, **2015**, 127, 5546-5549 3.6 7
- 20 Exploration on the Combination of Push-Pull Porphyrin Dyes and Copper(I/II) Redox Shuttles toward High-performance Dye-sensitized Solar Cells. *Chemistry Letters*, **2020**, 49, 936-939 1.7 7

19	Unsymmetrically Substituted Donor-Acceptor-Type 5,15-Diazaporphyrin Sensitizers: Synthesis, Optical and Photovoltaic Properties. <i>ChemPlusChem</i> , 2017 , 82, 695-704	2.8	6
18	Reversible System switching of thiophene-fused thiahexaphyrins by solvent and oxidation/reduction. <i>Chemical Science</i> , 2018 , 9, 7528-7539	9.4	6
17	Fusing Porphyrins and Phospholes: Synthesis and Analysis of a Phosphorus-Containing Porphyrin. <i>Angewandte Chemie</i> , 2016 , 128, 12499-12503	3.6	5
16	A PushPull Porphyrin Dimer with Multiple Electron-donating Groups for Dye-sensitized Solar Cells: Excellent Light-harvesting in Near-infrared Region. <i>Chemistry Letters</i> , 2016 , 45, 1126-1128	1.7	5
15	PushPull Bacteriochlorin: Panchromatic Sensitizer for Dye-sensitized Solar Cell. <i>Chemistry Letters</i> , 2015 , 44, 1395-1397	1.7	5
14	Effects of meso-diarylamino group of porphyrins on optical and electrochemical properties. <i>Journal of Porphyrins and Phthalocyanines</i> , 2020 , 24, 67-74	1.8	4
13	Structural Effects on the Incident Photon-to-Current Conversion Efficiency of Zn Porphyrin Dyes on the Low-Index Planes of TiO ₂ . <i>ACS Omega</i> , 2017 , 2, 128-135	3.9	3
12	Thiazolocatechol: Electron-Withdrawing Catechol Anchoring Group for Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2019 , 20, 2689-2695	3.2	3
11	Unique Role of Heterole-Fused Structures in Aromaticity and Physicochemical Properties of 7,8-Dehydropurpurins. <i>Chemistry - A European Journal</i> , 2020 , 26, 12043-12049	4.8	3
10	Synthesis of thiophene-fused porphyrin dimers as effective Extended helical chromophores. <i>Chemical Communications</i> , 2021 , 57, 9606-9609	5.8	3
9	Emergence of Copper(I/II) Complexes as Third-Generation Redox Shuttles for Dye-Sensitized Solar Cells. <i>ACS Energy Letters</i> , 1926-1938	20.1	3
8	Modulation of Frontier Molecular Orbitals on Dithieno[3,4-b:3',4'-d]phosphole Derivatives by Donor-Acceptor Interaction. <i>Chemistry Letters</i> , 2020 , 49, 272-275	1.7	2
7	Thiophene-Fused Naphthodiphospholes: Modulation of the Structural and Electronic Properties of Polycyclic Aromatics by Precise Fusion of Heteroles. <i>ChemPlusChem</i> , 2021 , 86, 130-136	2.8	2
6	Synthesis of Phosphole-bridged Porphyrin Dimers. <i>Chemistry Letters</i> , 2019 , 48, 257-259	1.7	1
5	Synthesis of Partially meso-Free 2,3-Di(arylethynyl)porphyrins. <i>Chemistry Letters</i> , 2017 , 46, 976-978	1.7	1
4	Facile synthesis of an ambient stable pyreno[4,5-]pyrrole monoanion and pyreno[4,5-:9,10-]dipyrrole dianion: from serendipity to design.. <i>Chemical Science</i> , 2022 , 13, 1594-1599	9.4	0
3	Truxenone Triimide: Two-Dimensional Molecular Arrangements of Triangular Molecules for Air Stable n-Type Semiconductors. <i>Advanced Electronic Materials</i> , 2101390	6.4	0
2	ABC-ABC-Type Directly meso-meso Linked Porphyrin Dimers. <i>Chemistry - A European Journal</i> , 2019 , 25, 389-389	4.8	

- 1 Donor-Acceptor Type Porphyrin-Fullerene Dyad with Acetylene Bridge for p-Type Dye-sensitized Solar Cell. *Chemistry Letters*, **2022**, 51, 260-263 1.7