Yoshihiro Matano

List of Publications by Year
in descending order

81	2,840	136950 32	182427 51
papers	citations	h-index	g-index

85	85	85	1490
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design and synthesis of phosphole-based Ï€ systems for novel organic materials. Organic and Biomolecular Chemistry, 2009, 7, 1258.	2.8	279
2	Phosphole-Containing Calixpyrroles, Calixphyrins, and Porphyrins: Synthesis and Coordination Chemistry. Accounts of Chemical Research, 2009, 42, 1193-1204.	15.6	118
3	Fusion of Phosphole and 1,1â€²â€²Biacenaphthene: Phosphorus(V)â€Containing Extended Ïâ€Systems with High Electron Affinity and Electron Mobility. Angewandte Chemie - International Edition, 2011, 50, 8016-8020.	13.8	115
4	Synthesis of Aza-, Oxa-, and Thiaporphyrins and Related Compounds. Chemical Reviews, 2017, 117, 3138-3191.	47.7	105
5	Syntheses, Structures, and Coordination Chemistry of Phosphole-Containing Hybrid Calixphyrins:Â Promising Macrocyclic P,N2,X-Mixed Donor Ligands for Designing Reactive Transition-Metal Complexes. Journal of the American Chemical Society, 2008, 130, 990-1002.	13.7	85
6	Regioselective Î²-Metalation of meso-Phosphanylporphyrins. Structure and Optical Properties of Porphyrin Dimers Linked by Peripherally Fused Phosphametallacycles. Journal of the American Chemical Society, 2008, 130, 4588-4589.	13.7	76
7	Comparative Study on the Structural, Optical, and Electrochemical Properties of Bithiopheneâ€Fused Benzo[c]phospholes. Chemistry - A European Journal, 2008, 14, 8102-8115.	3.3	75
8	Phosphorus-Containing Hybrid Calixphyrins:Â Promising Mixed-Donor Ligands for Visible and Efficient Palladium Catalysts. Journal of the American Chemical Society, 2006, 128, 11760-11761.	13.7	71
9	Synthesis, Structures, and Properties ofmeso-Phosphorylporphyrins: Self-Organization through Pâ€“Oxoâ€“Zinc Coordination. Chemistry - A European Journal, 2007, 13, 891-901.	3.3	71
10	Redoxâ€Switchable 20Ïâ€, 19Ïâ€, and 18Ïâ€Electron 5,10,15,20â€Tetraarylâ€5,15â€diazaporphyrinoid Nickel(II) Complexes. Angewandte Chemie - International Edition, 2016, 55, 2235-2238.	13.8	70
11	Redox-Coupled Complexation of 23-Phospha-21-thiaporphyrin with Group 10 Metals: A Convenient Access to Stable Core-Modified Isophlorinâ^Metal Complexes. Journal of the American Chemical Society, 2008, 130, 16446-16447.	13.7	63
12	Free Base and Metal Complexes of 5,15-Diaza-10,20-dimesitylporphyrins: Synthesis, Structures, Optical and Electrochemical Properties, and Aromaticities. Inorganic Chemistry, 2012, 51, 12879-12890.	4.0	63
13	Nickel(II) and Copper(II) Complexes of Î²â€Unsubstituted 5,15â€Diazaporphyrins and Pyridazineâ€Fused Diazacorrinoids: Metalâ€“Template Syntheses and Peripheral Functionalizations. Chemistry - A European Journal, 2012, 18, 6208-6216.	3.3	63
14	Acenaphtho[1,â€‰2â€c]phosphole Pâ€Oxide: A Phospholeâ€“Naphthalene Ïâ€Conjugated System with High Electron Mobility. Chemistry - A European Journal, 2009, 15, 10000-10004.	3.3	62
15	Synthesis of a Phosphorus-Containing Hybrid Porphyrin. Organic Letters, 2006, 8, 5713-5716.	4.6	60
16	Photophysics and photoelectrochemical properties of nanohybrids consisting of fullerene-encapsulated single-walled carbon nanotubes and poly(3-hexylthiophene). Energy and Environmental Science, 2011, 4, 741-750.	30.8	60
17	Î±,Î±â€²â€²Diarylacenaphtho[1,2â€c]phosphole Pâ€Oxides: Divergent Synthesis and Application to Cathode Buffer Layers in Organic Photovoltaics. Chemistry - an Asian Journal, 2012, 7, 2305-2312.	3.3	53
18	Synthesis and Structureâ€“Property Relationships of 2,2â€²â€²Bis(benzo[b]phosphole) and 2,2â€²â€²Benzo[b]phospholeâ€“Benzo[b]heterole Hybrid Ï€ Systems. Chemistry - A European Journal, 2012, 18, 15972-15983.	3.3	52

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19	Monophosphaporphyrins:â€‰ Oxidative Ï€-Extension at the Peripherally Fused Carbocycle of the Phosphaporphyrin Ring. Organic Letters, 2008, 10, 553-556.	4.6	50
20	Effects of Carbonâ€“Metalâ€“Carbon Linkages on the Optical, Photophysical, and Electrochemical Properties of Phosphametallacycle-Linked Coplanar Porphyrin Dimers. Journal of the American Chemical Society, 2012, 134, 1825-1839.	13.7	50
21	A Convenient Method for the Synthesis of Î±â€²-Ethynylphospholes and Modulation of Their Ï€â€“Conjugated Systems. Angewandte Chemie - International Edition, 2009, 48, 4002-4005.	13.8	49
22	Synthesis of 2-Aryl-5-styrylphospholes:Â Promising Candidates for the Phosphole-Based NLO Chromophores. Journal of Organic Chemistry, 2007, 72, 6200-6205.	3.2	48
23	A Convenient Method for the Synthesis of 2,5-Difunctionalized Phospholes Bearing Ester Groups. Journal of Organic Chemistry, 2006, 71, 5792-5795.	3.2	47
24	Comparison of 2-Arylnaphtho[2,3-b]phospholes and 2-Arylbenzo[b]phospholes: Effects of 2-Aryl Groups and Fused Arene Moieties on Their Optical and Photophysical Properties. Journal of Organic Chemistry, 2015, 80, 5944-5950.	3.2	46
25	Synthesis and Reactions of Phosphaporphyrins: Reconstruction of Ï€-Skeleton Triggered by Oxygenation of a Core Phosphorus Atom. Journal of Organic Chemistry, 2010, 75, 375-389.	3.2	45
26	Synthesis and Charge-Carrier Transport Properties of Poly(phosphole P-alkanesulfonylimide)s. Organic Letters, 2013, 15, 932-935.	4.6	44
27	Oligothiophene Bearing 1-Hydroxy-1-oxodithieno[2,3-b:3â€²,2â€²-d]phosphole as a Novel Anchoring Group for Dye-sensitized Solar Cells. Chemistry Letters, 2010, 39, 448-450.	1.3	41
28	Phospholeâ€•and BenzodithiopheneâCBased Copolymers: Synthesis and Application in Organic Photovoltaics. European Journal of Inorganic Chemistry, 2014, 2014, 1620-1624.	2.0	40
29	Synthesis and Structure-Property Relationships of Phosphole-Based Ï€ Systems and Their Applications in Organic Solar Cells. Chemical Record, 2015, 15, 636-650.	5.8	38
30	Syntheses, Properties, and Catalytic Activities of Metal(II) Complexes and Free Bases of Redoxâ€Switchable 20Ï€, 19Ï€, and 18Ï€ 5,10,15,20â€Tetraarylâ€5,15â€diazaporphyrinoids. Chemistry - A European Journal, 2017, 23, 16364-16373.	5.3	38
31	Phosphole-Triazole Hybrids: A Facile Synthesis and Complexation with Pd(II) and Pt(II) Salts. Organic Letters, 2009, 11, 3338-3341.	4.6	35
32	Synthesis, structures, and aromaticity of phosphole-containing porphyrins and their metal complexes. Pure and Applied Chemistry, 2010, 82, 583-593.	1.9	35
33	Bithiopheneâ€Fused Benzo[c]phospholes: Novel P,Sâ€Containing Hybrid Ï€â€Conjugated Systems with Small HOMOâ€“LUMO Energy Gaps. European Journal of Organic Chemistry, 2008, 2008, 255-259.	2.4	33
34	Synthesis of 2-Alkenyl- and 2-Alkynyl-benzo[b]phospholes by Using Palladium-Catalyzed Cross-Coupling Reactions. Organic Letters, 2013, 15, 4458-4461.	4.6	31
35	Triaryl(1-pyrenyl)bismuthonium Salts: Efficient Photoinitiators for Cationic Polymerization of Oxiranes and a Vinyl Ether. Organic Letters, 2008, 10, 2167-2170.	4.6	28
36	Redoxâ€Switchable 20Ï€â€, 19Ï€â€, and 18Ï€â€Electron 5,10,15,20â€Tetraarylâ€5,15â€diazaporphyrinoid Nickel(II) Complexes. Angewandte Chemie, 2016, 128, 2275-2278.	2.0	28

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37	Ring-Strain Effects in Base-Induced Sommelet-Hauser Rearrangement: Application to Successive Stereocontrolled Transformations. European Journal of Organic Chemistry, 2016, 2016, 3631-3641.	2.4	28
38	A New, Efficient Method for Direct Î±-Alkenylation of Î²-Dicarbonyl Compounds and Phenols Using Alkenyltriarylbismuthonium Salts. Journal of Organic Chemistry, 2004, 69, 5505-5508.	3.2	27
39	Covalently Linked 5,15â€Diazaporphyrin Dimers: Promising Scaffolds for a Highly Conjugated Azaporphyrin Ï€ System. Chemistry - A European Journal, 2014, 20, 3342-3349.	3.3	27
40	Synthesis of Dibenzophosphole Oxides from Dibenzothiophene Dioxides and Phenylphosphine by Two Successive S_NAr Reactions. Asian Journal of Organic Chemistry, 2017, 6, 257-261.	2.7	27
41	Synthesis and Aggregation Behavior of mesoâ€Sulfinylporphyrins: Evaluation of Sâ€Chirality Effects on the Selfâ€Organization to Sâ€“Oxoâ€Tethered Cofacial Porphyrin Dimers. Chemistry - an Asian Journal, 2007, 2, 1417-1429.	3.3	24
42	Synthesis of Thiophene-Containing Hybrid Calixphyrins of the 5,10-Porphodimethene Type. Journal of Organic Chemistry, 2008, 73, 5139-5142.	3.2	22
43	Divergent Synthesis of 2,5-Diarylphospholes Based on Cross-coupling Reactions: Substituent Effects on the Optical and Redox Properties of Benzeneâ€“Phospholeâ€“Benzene Ï€-Systems. Chemistry Letters, 2011, 40, 919-921.	1.3	22
44	Remarkable Substituent Effects on the Oxidizing Ability of Triarylbismuth Dichlorides in Alcohol Oxidation. Journal of Organic Chemistry, 2004, 69, 8676-8680.	3.2	21
45	N,S,Pâ€Hybrid Donorâ€“Ï€â€“Acceptor Organic Dyes for Dyeâ€Sensitized Solar Cell: Synthesis, Optical Properties, and Photovoltaic Performances. Heteroatom Chemistry, 2014, 25, 533-547.	0.7	21
46	Redox switchable 19Ï€ and 18Ï€ 5,10,20-triaryl-5,15-diazaporphyrinoidâ€“nickel(II) complexes. Journal of Porphyrins and Phthalocyanines, 2018, 22, 542-551.	0.8	21
47	Synthesis and photovoltaic properties of thiopheneâ€“imide-fused thiophene alternating copolymers with different alkyl side chains. Journal of Materials Chemistry, 2011, 21, 12454.	6.7	19
48	Optical, Electrochemical, and Magnetic Properties of Pyrroleâ€•and Thiopheneâ€Bridged 5,15â€Diazaporphyrin Dimers. Chemistry - A European Journal, 2015, 21, 2003-2010.	3.3	18
49	Effects of counter anions, P-substituents, and solvents on optical and photophysical properties of 2-phenylbenzo[b]phospholium salts. Dalton Transactions, 2017, 46, 9517-9527.	3.3	18
50	Pentavalent Organobismuth Reagents in Organic Synthesis: Alkylation, Alcohol Oxidation and Cationic Photopolymerization. Topics in Current Chemistry, 2011, 311, 19-44.	4.0	17
51	Slow Charge Recombination and Enhanced Photoelectrochemical Properties of Diazaporphyrin-Fullerene Linked Dyad. Journal of Physical Chemistry C, 2014, 118, 1808-1820.	3.1	17
52	Synthesis of Redoxâ€switchable 5,15â€Dialkylâ€10,20â€diarylâ€5,15â€diazaporphyrins and Diversification of their Nâ€Alkyl Groups. Asian Journal of Organic Chemistry, 2019, 8, 352-355.	2.7	17
53	Effects of boryl, phosphino, and phosphonio substituents on optical, electrochemical, and photophysical properties of 2,5-dithienylphospholes and 2-phenyl-5-thienylphospholes. Dalton Transactions, 2016, 45, 2190-2200.	3.3	15
54	Nitrogenâ€Bridged Metallodiazaporphyrin Dimers: Synergistic Effects of Nitrogen Bridges and mesoâ€Nitrogen Atoms on Structure and Properties. Chemistry - an Asian Journal, 2017, 12, 816-821.	3.3	15

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55	Direct and Regioselective Amination of Î²â€Unsubstituted 5,15â€Diazaporphyrins with Amines: A Convenient Route to Nearâ€Infraredâ€Responsive Diazaporphyrin Sensitizers. Angewandte Chemie - International Edition, 2018, 57, 3797-3800.	13.8	15
56	Synthesis and Photophysical Properties of Two Diazaporphyrinâ€“Porphyrin Hetero Dimers in Polar and Nonpolar Solutions. Journal of Physical Chemistry B, 2015, 119, 7328-7337.	2.6	13
57	Phospholeâ€“Thiophene Hybrid: A Dual Role of Dithieno[3,4-b:3â€²,4â€²-d]phosphole as Electron Acceptor and Electron Donor. Journal of Organic Chemistry, 2018, 83, 3397-3402.	3.2	12
58	Doubly Strapped Redox-Switchable 5,10,15,20-Tetraaryl-5,15-diazaporphyrinoids: Promising Platforms for the Evaluation of Paratropic and Diatropic Ring-Current Effects. Journal of Organic Chemistry, 2021, 86, 2283-2296.	3.2	12
59	Synthesis and Photovoltaic Properties of Phenylethynyl-substituted Diazaporphyrin. Chemistry Letters, 2013, 42, 725-726.	1.3	11
60	Comparison of electronic effects of Î²-aryl substituents on optical and electrochemical properties of 5,15-diazaporphyrin Ï€-systems. Journal of Porphyrins and Phthalocyanines, 2015, 19, 775-785.	0.8	11
61	Synthesis of 3,5-Disubstituted BODIPYs Bearing N-Containing Five-Membered Heteroaryl Groups via Nucleophilic Câ€“N Bond Formation. Journal of Organic Chemistry, 2018, 83, 5274-5281.	3.2	11
62	Î²-Functionalization of 5,15-Diazaporphyrins with Phosphorus, Oxygen, and Sulfur-Containing Substituents. Bulletin of the Chemical Society of Japan, 2018, 91, 1264-1266.	3.2	10
63	Zinc-Induced Fluorescence Enhancement of the 5,10-Porphodimethene-Type Thiophene-Containing Calixphyrins. Phosphorus, Sulfur and Silicon and the Related Elements, 2010, 185, 1098-1107.	1.6	9
64	Synthesis and properties of redoxâ€switchable zinc complexes of 10,15,20â€triarylâ€15â€azaâ€5â€oxaporphyrin. Heteroatom Chemistry, 2018, 29, .	0.7	9
65	Antimony and Bismuth in Organic Synthesis. , 2005, , 753-811.		8
66	Local stoichiometry in amorphous supramolecular composites analyzed by solid-state C13 nuclear magnetic resonance. Applied Physics Letters, 2011, 98, 113301.	3.3	8
67	Unsymmetrically Substituted Donorâ€“Ï€â€“Acceptorâ€Type 5,15â€Diazaporphyrin Sensitizers: Synthesis, Optical and Photovoltaic Properties. ChemPlusChem, 2017, 82, 695-704.	2.8	8
68	Regioselective functionalization at the 7-position of 1,2,3-triphenylbenzo[b]phosphole oxide via Pî€O-directed lithiation. Dalton Transactions, 2018, 47, 7123-7127.	3.3	7
69	Effects of the Peripheral Substituents, Central Metal, and Solvent on the Photochemical and Photophysical Properties of 5,15â€Diazaporphyrins. ChemPlusChem, 2019, 84, 740-745.	2.8	7
70	Synthesis and optical, magnetic, and electrochemical properties of 5,10,15,20-tetraaryl-5,15-diazaporphyrin â€” tertiary amine conjugates. Journal of Porphyrins and Phthalocyanines, 2020, 24, 286-297.	0.8	5
71	Excited-State Intramolecular Proton Transfer Reaction and Ground-State Hole Dynamics of 4â€²-N,N-Dialkylamino-3-hydroxyflavone in Ionic Liquids Studied by Transient Absorption Spectroscopy. Journal of Physical Chemistry B, 2021, 125, 5373-5386.	2.6	5
72	Synthesis, Optical Properties, and Electrochemical Behavior of 5,10,15,20â€Tetraarylâ€5,15â€diazaporphyrinâ€Amine Hybrids. ChemPlusChem, 2021, 86, 1476-1486.	2.8	5

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73	Ï€-Conjugated Molecules Containing Tetrathiafulvalene and Benzo[b]phosphole Oxide: Synthesis, Structure, and Electrochemical and Optical Properties. Chemistry Letters, 2021, 50, 1581-1585.	1.3	4
74	Copper(II) Complexes of 10,20-Diaryl-5,15-diazaporphyrin: Alternative Synthesis, Excited State Dynamics, and Substituent Effect on the 1O2-Generation Efficiency. Bulletin of the Chemical Society of Japan, 2022, 95, 427-432.	3.2	4
75	Synthesis of hydrophilic copper(II) complexes of 5,10,15,20-tetraaryl-5,15-diazaporphyrins substituted with carboxy or (2,3-dihydroxypropyl)carbamoyl groups. Journal of Porphyrins and Phthalocyanines, 2021, 25, 1004-1014.	0.8	3
76	Synthesis, Electrochemical Behavior, and Catalytic Activity of Cobalt Complexes of 5,10,15,20-Tetraaryl-5,15-diazaporphyrinoids. Organic Letters, 2022, 24, 3839-3843.	4.6	3
77	9â€(Diphenylphosphoryl)â€10â€(phenylethynyl)anthracene Derivatives: Synthesis and Implications for the Substituent and Solvent Effects on the Lightâ€Emitting Properties. ChemPhotoChem, 2022, 6, .	3.0	3
78	Direct and Regioselective Amination of Î²â€Unsubstituted 5,15â€Diazaporphyrins with Amines: A Convenient Route to Nearâ€Infraredâ€Responsive Diazaporphyrin Sensitizers. Angewandte Chemie, 2018, 130, 3859-3862.	2.0	2
79	Recent Advances in the Syntheses of Oxidized and Reduced Porphyrins. Handbook of Porphyrin Science, 2022, , 41-111.	0.8	1
80	Synthesis and Optical Properties of 1,2,5,10-Tetraphenylanthra[2,3-b]phosphole Derivatives. Journal of Organic Chemistry, 2022, 87, 10493-10500.	3.2	1
81	Inside Cover: Bisquinoxaline-Fused Porphyrins for Dye-Sensitized Solar Cells (ChemSusChem 6/2011). ChemSusChem, 2011, 4, 670-670.	6.8	0