

# Francois Mathey

## List of Publications by Year in descending order

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106  
papers

3,192  
citations

218677

26  
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175258

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111  
all docs

111  
docs citations

111  
times ranked

1561  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cycloadditions of 1-iminylphosphirane complexes with allenes. Chinese Chemical Letters, 2021, 32, 449-452.	9.0	4
2	Synthesis of phosphanaphthalenes and nido-carborane fused six-membered phosphacycles. Chinese Chemical Letters, 2021, 32, 194-197.	9.0	9
3	Nonbenzenoid aromaticity of 1-phosphafulvenes: synthesis of phosphacymantrenes. Dalton Transactions, 2021, 50, 476-479.	3.3	4
4	Mn <sub>2</sub> (CO) <sub>10</sub> -Catalyzed Intramolecular Dimerization of Diphosphirane Complexes. Organometallics, 2021, 40, 306-309.	2.3	3
5	Design of 1-Phosphanorbornene Derivatives as Chiral Organocatalysts for Enantioselective (4 + 2) Annulation Reactions of 1 <sup>3</sup> -Benzyl Allenates. Organic Letters, 2021, 23, 3337-3342.	4.6	20
6	Divergent intramolecular reactions between phosphines and alkynes. Chinese Chemical Letters, 2020, 31, 329-332.	9.0	14
7	New Access to Six-Membered Phosphacycle Annulated Polyaromatic Ring System. European Journal of Organic Chemistry, 2020, 2020, 697-701.	2.4	14
8	The chemistry of phosphirane-substituted phosphinidene complexes. Chemical Communications, 2020, 56, 9707-9710.	4.1	9
9	1,1-Addition of 1,2-Bridged Biphospholes with Alkynes. Organic Letters, 2020, 22, 6972-6976.	4.6	4
10	Enantioselective synthesis of indanone spiro-isochromanone derivatives via a dinuclear zinc-catalyzed Michael/transesterification tandem reaction. Organic and Biomolecular Chemistry, 2020, 18, 3917-3926.	2.8	13
11	Concise Synthesis of Phospholene and Its P-Stereogenic Derivatives. Journal of Organic Chemistry, 2020, 85, 14772-14778.	3.2	5
12	Copper(I)/Ganphos catalysis: enantioselective synthesis of diverse spirooxindoles using iminoesters and alkyl substituted methyleneindolinones. Organic and Biomolecular Chemistry, 2020, 18, 3740-3746.	2.8	20
13	Transition-Metal-Like Reversible Cycloadditions of [t-BuSP(W)(CO) <sub>5</sub> ] with Alkenes and Alkynes. Chemistry - A European Journal, 2019, 25, 15036-15039.	3.3	9
14	Iodocarbocyclization to Access Six- and Seven-Membered Phosphacycles from Phosphoryl-Linked Alkynes. European Journal of Organic Chemistry, 2019, 2019, 6369-6376.	2.4	15
15	Access to Chiral 2,5-Pyrrolidinyl Dispirooxindoles via Dinuclear Zinc-Catalyzed Asymmetric Cascade Reactions. Journal of Organic Chemistry, 2019, 84, 7762-7775.	3.2	34
16	Zwitterionic nido-Carborane-Fused Phospholes. Organic Letters, 2019, 21, 2273-2276.	4.6	22
17	P-Stereogenic Phosphines Directed Copper(I)-Catalyzed Enantioselective 1,3-Dipolar Cycloadditions. Organic Letters, 2019, 21, 2782-2785.	4.6	53
18	Phosphindole fused pyrrolo[3,2-b]pyrroles: a new single-molecule junction for charge transport. Dalton Transactions, 2019, 48, 6347-6352.	3.3	16

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19	Ag/P-Stereogenic Phosphine-Catalyzed Enantioselective 1,3-Dipolar Cycloadditions: A Method to Optically Active Pyrrolidines. <i>Organic Letters</i> , 2019, 21, 3210-3213.	4.6	35
20	An approach to 7-aza-1-phosphanorbornane complexes: strain promoted rearrangement of 1-iminylphosphirane complexes and cycloaddition with olefins. <i>Dalton Transactions</i> , 2019, 48, 5523-5526.	3.3	12
21	An Approach to Peri-Fused Heterocycles: A Metal-Mediated Cascade Carbonylative Cyclization/Dearomatic Diels-Alder Reaction. <i>Organic Letters</i> , 2019, 21, 9512-9515.	4.6	10
22	Cyclization of ortho-alkynylphenylphosphine P-ylides; dependence on ylide nucleophilicity. <i>Journal of Organometallic Chemistry</i> , 2019, 879, 158-161.	1.8	6
23	$\lambda^3$ -Pyrroloazaphosphinines with Relatively Stable P=C Double Bonds. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2863-2869.	2.4	4
24	Selective Synthesis of ( <i>Z</i> )-Diazadiphosphafulvalene from 2,2-bis-Azaphosphindole. <i>Organic Letters</i> , 2018, 20, 1027-1030.	4.6	10
25	Reactivity of $sp^2$ Nitrogen and Phosphorus in a Stable Imidazolophosphinine. <i>Organometallics</i> , 2018, 37, 464-468.	2.3	8
26	Regioselective Synthesis of 2- or 2,7-Functionalized Pyrenes via Migration. <i>Organic Letters</i> , 2018, 20, 7821-7824.	4.6	15
27	The coordination chemistry of phosphinidene sulfides. Synthesis and catalytic properties of $Pd_4$ and $Pt_4$ clusters. <i>Dalton Transactions</i> , 2018, 47, 13342-13344.	3.3	4
28	Synthesis of 1,3-Azaphospholes with Pyrrolo[1,2- <i>a</i> ]quinoline Skeleton and Their Optical Applications. <i>Organic Letters</i> , 2018, 20, 4103-4106.	4.6	24
29	A Very Simple Synthesis of Annelated $\lambda^3$ - and $\lambda^5$ -Phosphanaphthalenes. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2355-2362.	2.0	13
30	A Straightforward Synthesis of 1,2-Azaphosphindoles. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2504-2509.	2.0	7
31	Generation and Trapping of Terminal Phosphinidene Complex $[CF_3 P-W(CO)_5]$ . <i>ChemistrySelect</i> , 2017, 2, 9838-9841.	1.5	2
32	Front Cover: A Phosphorus Analogue of Acenaphthylene ( <i>Eur. J. Org. Chem.</i> 38/2017). <i>European Journal of Organic Chemistry</i> , 2017, 2017, 5708-5708.	2.4	0
33	Planar Polycyclic Oxaphosphoranes Incorporating a Benzophosphole Unit. <i>Organic Letters</i> , 2017, 19, 5814-5817.	4.6	18
34	Generation and Trapping of a 1-Phosphafulvene: An Illustration of the $P\equiv C/C\equiv C$ Analogy. <i>Organic Letters</i> , 2017, 19, 5004-5006.	4.6	7
35	The Chemistry of $\lambda^4$ -Acylphosphirane Complexes: A Phosphorus Analogue of the Cloke-Wilson Rearrangement. <i>Chemistry - A European Journal</i> , 2017, 23, 13006-13009.	3.3	14
36	A Phosphorus Analogue of Acenaphthylene. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 5724-5728.	2.4	6

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37	The chemistry of parent phosphirane in the coordination sphere of tungsten. Dalton Transactions, 2016, 45, 8284-8290.	3.3	15
38	Blocking Intramolecular Cycloadditions between C≡C Triple Bonds and Electrophilic Phosphinidene Complexes: Generation of Intermediates Able To React with Arenes. Organometallics, 2016, 35, 3440-3443.	2.3	15
39	Phosphorus and silicon-bridged stilbenes: synthesis and optoelectronic properties. Dalton Transactions, 2016, 45, 18308-18312.	3.3	20
40	The Reaction of Terminal Phosphinidene Complexes [RP-W(CO) <sub>5</sub> ] with Vinylboronic Acids: Cycloaddition vs. P-C Bond Formation. European Journal of Inorganic Chemistry, 2016, 2016, 616-619.	2.0	3
41	Insertion of phosphinidene complexes into the P-H bond of secondary phosphine oxides: a new version of the phospho-Wittig synthesis of P=C double bonds. Dalton Transactions, 2016, 45, 891-893.	3.3	10
42	Activation of A-H bonds (A = B, C, N, O, Si) by using monovalent phosphorus complexes [RP <sup>+</sup> M]. Dalton Transactions, 2016, 45, 1804-1809.	3.3	32
43	Isomerization of Secondary Phosphirane into Terminal Phosphinidene Complexes: An Analogy between Monovalent Phosphorus and Transition Metals. Angewandte Chemie - International Edition, 2015, 54, 12891-12893.	13.8	20
44	The Chemistry of <i>ortho</i> -(Diarylphosphino)aryl Isocyanides. Organometallics, 2015, 34, 5697-5702.	2.3	20
45	6-Methoxy-5-phosphaphenanthrene: a molecule with an unreactive P=C double bond. Dalton Transactions, 2015, 44, 3717-3719.	3.3	10
46	Reaction of Phospholes with Aldimines: A One-Step Synthesis of Chelating, Alpha-C2-Bridged Biphospholes. Organic Letters, 2015, 17, 3518-3520.	4.6	15
47	Versatile Synthesis of Phospholides from Open-Chain Precursors. Application to Annelated Pyrrole and Silole Phosphole Rings. Organic Letters, 2015, 17, 1732-1734.	4.6	58
48	Intramolecular, Pd/Cu-Co-catalyzed P-C Bond Cleavage and Addition onto an Alkyne: A Route to Benzophospholes. Organic Letters, 2015, 17, 5722-5724.	4.6	54
49	Synthesis of Annelated Phospholes through Intramolecular C-H Activation by Monovalent Phosphorus. Angewandte Chemie - International Edition, 2015, 54, 1583-1586.	13.8	35
50	The Unexpected Reactions of Boron Trihalides with 7-Phosphanorbornadiene Complexes. European Journal of Inorganic Chemistry, 2014, 2014, 6254-6260.	2.0	4
51	Activation of a 1-Chlorophosphirane Complex by Aluminum Trichloride: Generation and Trapping of [Fc-P-W(CO) <sub>5</sub> ] (Fc = Ferrocenyl). European Journal of Inorganic Chemistry, 2014, 2014, 4726-4729.	2.0	5
52	The Evolution of Terminal Allylphosphinidene Pentacarbonyltungsten Complex. Phosphorus, Sulfur and Silicon and the Related Elements, 2014, 189, 908-913.	1.6	1
53	1,2-Dihydrophosphete: A Platform for the Molecular Engineering of Electroluminescent Phosphorus Materials for Light-Emitting Devices. Chemistry - A European Journal, 2014, 20, 9784-9793.	3.3	20
54	A Contribution to the Direct Observation of Transient Phosphanylidene Complexes [RP=W(CO) <sub>5</sub> ] (R: Me, Ph): A Revisited Approach to Their Electronic Structure by UV-Photoelectron Spectroscopy. European Journal of Inorganic Chemistry, 2014, 2014, 1694-1705.	2.0	4

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55	Revisiting the Chemistry of Phosphinidene Sulfides. <i>Organometallics</i> , 2014, 33, 5614-5617.	2.3	13
56	Annelation of Phosphole-Substituted Fischer Carbene Complexes by Alkynes. <i>Organometallics</i> , 2013, 32, 7482-7486.	2.3	5
57	Benzofuran-fused Phosphole: Synthesis, Electronic, and Electroluminescence Properties. <i>Organic Letters</i> , 2013, 15, 330-333.	4.6	94
58	Intermolecular spin-spin coupling constants between $^{31}\text{P}$ atoms. <i>Comptes Rendus Chimie</i> , 2013, 16, 937-944.	0.5	11
59	The Original Coordination Chemistry of 2-Phosphaphenol with Copper(I) and Gold(I) Halides. <i>Organometallics</i> , 2013, 32, 3562-3565.	2.3	35
60	Simple Access to Tungsten-Stabilized Disubstituted Diphosphines. <i>Organometallics</i> , 2013, 32, 5615-5618.	2.3	8
61	An Unconventional Synthesis of Dibromophosphines. <i>Synlett</i> , 2013, 24, 2006-2008.	1.8	1
62	Recent Advances of [1,5]-Sigmatropic Shift of Phospholes. <i>Chinese Journal of Organic Chemistry</i> , 2013, 33, 36.	1.3	4
63	Generation and Reactivity of Methylphosphaketene in the Coordination Sphere of Tungsten. <i>Organometallics</i> , 2012, 31, 4786-4790.	2.3	11
64	A New Type of Phosphaferrocene-Pyrrole-Phosphaferrocene P-N-P Pincer Ligand. <i>Organometallics</i> , 2012, 31, 2486-2488.	2.3	21
65	2,2'-Biphospholes: Building Blocks for Tuning the HOMO-LUMO Gap of Systems Using Covalent Bonding and Metal Coordination. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 214-217.	13.8	51
66	Intramolecular [4+2] versus [2+2] cycloadditions in P-X-P-linked biphospholes (X = O, S). <i>New Journal of Chemistry</i> , 2011, 35, 2001.	2.8	7
67	Investigating the Phospholycarbene to Phosphinine Conversion. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1540-1543.	2.0	6
68	A Phospha-Wittig Route to 5-Phosphaphenanthrene. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 4585-4589.	2.0	9
69	The Conversion of Furans into Phosphinines. <i>Chemistry - A European Journal</i> , 2011, 17, 10745-10751.	3.3	38
70	Dimethyl Acetylenedicarboxylate and Phospholes: A Variety of Reaction Pathways. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 5498-5502.	2.4	10
71	A New Versatile Route for the Conversion of Phospholes into Phosphinines. <i>Chemistry - A European Journal</i> , 2010, 16, 10659-10661.	3.3	17
72	Synthesis and Chemistry of 2-Phosphafurans. <i>Organometallics</i> , 2010, 29, 5757-5758.	2.3	10

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73	Synthesis of 2,5-Difunctional Phosphaferrocenes. <i>Organometallics</i> , 2010, 29, 1053-1056.	2.3	12
74	7-Phosphanorbornenium Borohydrides: A Powerful Route to Functional Secondary Phosphine-Borane Complexes. <i>Organometallics</i> , 2010, 29, 1873-1874.	2.3	5
75	The Abnormal Hydrolysis of 7-Phosphanorbornenium Salts: A Case of Phosphonium-Phosphenium Equivalence. <i>Journal of the American Chemical Society</i> , 2009, 131, 16008-16009.	13.7	10
76	Phosphole-N-phenylmaleimide [4+2] cycloadducts as synthetic equivalents of nucleophilic phosphinidenes. <i>Chemical Communications</i> , 2009, , 2589.	4.1	6
77	The unexpected chemistry of a bis(phospholyl)acetylene. <i>Heteroatom Chemistry</i> , 2008, 19, 537-541.	0.7	2
78	Dithienophosphinine. <i>Organometallics</i> , 2007, 26, 6497-6500.	2.3	16
79	Developing the chemistry of monovalent phosphorus. <i>Dalton Transactions</i> , 2007, , 1861.	3.3	167
80	Preliminary Investigation of the [3+2] Cycloaddition Reactions of 2-Alkylidenephosphiranes. <i>Organometallics</i> , 2007, 26, 3614-3616.	2.3	8
81	Synthesis and X-ray Crystal Structure of a P-Confused Carbaporphyrinoid. <i>Organometallics</i> , 2007, 26, 3617-3620.	2.3	17
82	Using the 1,2-dihydro-1,2-diphosphinine ring as a template for the synthesis of new bicyclic structures and new trans-chelating bis-phosphines. <i>Heteroatom Chemistry</i> , 2005, 16, 44-48.	0.7	10
83	Enantiopure phosphacymantrene-2-carboxaldehyde and some of its derivatives. <i>Heteroatom Chemistry</i> , 2005, 16, 458-460.	0.7	11
84	One-Pot Conversion of Phospholide Ions into Functional Phosphinines. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1082-1084.	13.8	18
85	2,3-Benzo-7-phosphanorbornadiene Complexes: Synthesis and Chemistry. <i>Organometallics</i> , 2005, 24, 1762-1765.	2.3	18
86	A Theoretical Study of the Formation of Phosphaacetylene by Thermolysis of Triallylphosphine. <i>Journal of Organic Chemistry</i> , 2004, 69, 5100-5103.	3.2	4
87	Combining phosphinidene units with malonate anion: Synthesis of highly functional phosphine complexes. <i>Heteroatom Chemistry</i> , 2004, 15, 258-262.	0.7	12
88	Transient 2H-Phospholes as Powerful Synthetic Intermediates in Organophosphorus Chemistry. <i>Accounts of Chemical Research</i> , 2004, 37, 954-960.	15.6	110
89	Phospha-Organic Chemistry: Panorama and Perspectives. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1578-1604.	13.8	575
90	1-Phosphanorbornadiene-imines and amines in enantioselective allylic C- and N-alkylation. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 3137-3140.	1.8	20

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91	Hetero-Diels-Alder Reactions of 2H-Phospholes with Aldehydes. Journal of Organic Chemistry, 2003, 68, 2803-2806.	3.2	15
92	Enantiopure 1-phosphanorbornadiene-2-carboxaldehydes. Tetrahedron: Asymmetry, 2000, 11, 4601-4608.	1.8	18
93	Phosphanorbornadienephosphonates as a New Type of Water-Soluble Phosphines for Biphasic Catalysis. Journal of Organic Chemistry, 1996, 61, 3531-3533.	3.2	46
94	A New Approach to 1-Chlorophosphirenes. Synthesis, 1995, 1995, 941-943.	2.3	19
95	2,2'-Biphosphinines and 1,4-Diphosphadienes as 8-Electron Donors toward Manganese Carbonyl. Inorganic Chemistry, 1995, 34, 5070-5072.	4.0	29
96	Use of 2,2'-Biphosphinines for the Stabilization of Reduced Transition Metal Species: Electrochemical Reduction of Bis(2,2'-biphosphinine)nickel(0). Inorganic Chemistry, 1995, 34, 11-12.	4.0	39
97	Expanding the analogy between phosphorus-carbon and carbon-carbon double bonds. Accounts of Chemical Research, 1992, 25, 90-96.	15.6	115
98	Tetraphosphafulvalene. Angewandte Chemie, 1988, 100, 997-998.	2.0	9
99	Introducing new phosphorus substituents in terminal phosphinidene complexes. An illustration with [(ethoxycarbonyl)phosphinidene]-, (tert-butoxyphosphinidene)-, and (fluorenylphosphinidene)pentacarbonyltungsten complexes. Organometallics, 1988, 7, 1796-1801.	2.3	77
100	Carbonylation of a strained phosphorus-carbon bond. Conversion of phosphirene into 2-keto-1,2-dihydrophosphete complexes: an entry into the chemistry of the phosphorus analogs of unsaturated $\beta$ -lactams. Journal of the American Chemical Society, 1985, 107, 5001-5002.	13.7	65
101	The carbene-like behavior of terminal phosphinidene complexes toward olefins. A new access to the phosphirane ring. Organometallics, 1984, 3, 456-461.	2.3	141
102	Synthesis and X-ray crystal structure of 1,2,3-triphenylphosphirene. Journal of the Chemical Society Chemical Communications, 1984, , 45.	2.0	64
103	Thermal tetramerization of 1-phenyl-3,4-dimethylphosphole. An access to 2,2'-biphospholes and to 2,2'-diphosphafulvalene complexes. Journal of the American Chemical Society, 1982, 104, 2077-2079.	13.7	61
104	New method for building carbon-phosphorus heterocycles. Journal of Organic Chemistry, 1981, 46, 4386-4389.	3.2	26
105	Dicoordinated 2H-phospholes as transient intermediates in the reactions of trivalent phospholes at high temperature. One-step syntheses of 1-phosphanorbornadienes and phosphorins from phospholes. Journal of the American Chemical Society, 1981, 103, 4595-4597.	13.7	120
106	Phosphole [2 + 2] and [4 + 2] dimerizations around metal carbonyl moieties. Structure and chemistry of a new type of exo [4 + 2] dimers. Journal of the American Chemical Society, 1980, 102, 5809-5815.	13.7	66