Dominique Matt

List of Publications by Year
in descending order

94 papers	3,577 citations	117625 34 h-index	149698 56 g-index
98 all docs	98 docs citations	98 times ranked	2431 citing authors

#	Article	IF	Citations
1	Calixarene and resorcinarene ligands in transition metal chemistry. Coordination Chemistry Reviews, 1997, 165, 93-161.	18.8	303
2	Capped Cyclodextrins. Chemical Reviews, 2003, 103, 4147-4174.	47.7	239
3	Structureâ€“reactivity relationships in SHOP-type complexes: tunable catalysts for the oligomerisation and polymerisation of ethylene. Dalton Transactions, 2007, , 515-528.	3.3	210
4	Complexes of functional phosphines. 4. Coordination properties of (diphenylphosphino)acetonitrile, ethyl (diphenylphosphino)acetate and corresponding carbanions. Characterization of a new facile reversible carbon dioxide insertion into palladium(II) complexes. Journal of the American Chemical Society, 1981, 103, 5115-5125.	13.7	138
5	Metallated cavitands (calixarenes, resorcinarenes, cyclodextrins) with internal coordination sites. Coordination Chemistry Reviews, 2013, 257, 776-816.	18.8	126
6	Diphosphines based on an inherently chiral calix[4]arene scaffold: synthesis and use in enantioselective catalysis. Dalton Transactions RSC, 2001, , 2508-2517.	2.3	106
7	Playing with podands based on cone-shaped cavities. How can a cavity influence the properties of an appended metal centre?. Chemical Communications, 2005, , 5603.	4.1	78
8	Regioselectivity with Hemispherical Chelators: Increasing the Catalytic Efficiency of Complexes of Diphosphanes with Large Bite Angles. Angewandte Chemie - International Edition, 2006, 45, 5810-5814.	13.8	78
9	Confining Phosphanes Derived from Cyclodextrins for Efficient Regioâ€• and Enantioselective Hydroformylation. Angewandte Chemie - International Edition, 2014, 53, 3937-3940.	13.8	74
10	Highly Regioselective Hydroformylation with Hemispherical Chelators. Chemistry - A European Journal, 2008, 14, 7144-7155.	3.3	71
11	Complexes of functional phosphines. 5. Rhodium(III) and ruthenium(II) complexes of ethyl (diphenylphosphino)acetate. Synthesis, dynamic behavior, and crystal structure. Reversible carbon monoxide coordination on a ruthenium(II) complex. Inorganic Chemistry, 1983, 22, 2043-2047.	4.0	66
12	Cavityâ€Shaped Ligands: Calix[4]areneâ€Based Monophosphanes for Fast Suzukiâ€“Miyaura Crossâ€Coupling. Chemistry - A European Journal, 2010, 16, 9237-9247.	3.3	65
13	Ethylene Oligomerisation and Polymerisation with Nickel Phosphanylenolates Bearing Electron-Withdrawing Substituents: Structureâ€“Reactivity Relationships. Chemistry - A European Journal, 2006, 12, 5210-5219.	3.3	62
14	Calix[4]arene daisychains. Chemical Society Reviews, 2009, 38, 2117.	38.1	61
15	Cyclodextrin Cavities as Probes for Ligand-Exchange Processes. Angewandte Chemie - International Edition, 2001, 40, 2526-2529.	13.8	59
16	Multifunctional phosphane and phosphane oxide ligands derived from p-tert-butylcalix[4]arene. Synthesis of a large diphosphane with C2 symmetry and behaving as a cis or trans binding ligand. Journal of Organometallic Chemistry, 1994, 475, 297-305.	1.8	53
17	Cyclodextrin Phosphanes as First and Second Coordination Sphere Cavitands. Chemistry - A European Journal, 2003, 9, 3091-3105.	3.3	52
18	Synthesis and Properties of TRANSDIP, a Rigid Chelator Built upon a Cyclodextrin Cavity: Is TRANSDIP an Authentic transâ€Spanning Ligand?. Chemistry - A European Journal, 2007, 13, 9448-9461.	3.3	52

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19	The tris(4-tert-butylphenyl)methyl group: a bulky substituant for effective regioselective difunctionalisation of cyclomaltohexaose. Carbohydrate Research, 1998, 310, 129-133.	2.3	51
20	Diphosphines with Expandable Bite Angles: Highly Active Ethylene Dimerisation Catalysts Based on Upper Rim, Distally Diphosphinated Calix[4]arenes. Chemistry - A European Journal, 2004, 10, 5354-5360.	3.3	50
21	Calix[4]arene Ligands with Phosphorus-Containing Groups Tethered at the Upper Rim. Inorganic Chemistry, 1999, 38, 1585-1591.	4.0	49
22	Synthesis and catalytic relevance of P(III) and P(V)-functionalised calixarenes and resorcinarenes. Coordination Chemistry Reviews, 2014, 279, 58-95.	18.8	49
23	Nâ€Heterocyclic Carbenes Functioning as Monoligating Clamps. European Journal of Inorganic Chemistry, 2013, 2013, 2841-2848.	2.0	46
24	Diastereospecific synthesis of phosphinidene-capped cyclodextrins leading to â€œintervertedâ€•ligands. Chemical Communications, 2004, , 634-635.	4.1	44
25	The Use of Resorcinarene Cavitands in Metalâ€Based Catalysis. European Journal of Organic Chemistry, 2017, 2017, 6100-6113.	2.4	44
26	A Cyclodextrin Diphosphane as a First and Second Coordination Sphere Cavitand: Evidence for Weak Cï£¿Hâ‹…â‹…â‹…Clï£¿M Hydrogen Bonds within Metal-Capped Cavities. Angewandte Chemie - International Edition, 2002, 41, 2593-2596.	13.8	43
27	Selective Tetrafunctionalisation of Î±-Cyclodextrin using the Supertrityl Protecting Group â^' Synthesis of the First C2-Symmetric Tetraphosphane Based on a Cavitand (Î±-TEPHOS). European Journal of Organic Chemistry, 2003, 2003, 1377-1381.	2.4	43
28	High efficiency of cavity-based triaryl-phosphines in nickel-catalysed Kumadaâ€“Tamaoâ€“Corriu cross-coupling. Chemical Communications, 2011, 47, 6626.	4.1	43
29	A Metallocavitand Functioning as a Container for Anions: Formation of Noncovalent Linear Assemblies Mediated by a Cyclodextrin-Entrapped NO3â^'â€…Ion. Angewandte Chemie - International Edition, 2007, 46, 2663-2665.	13.8	41
30	Regioselective Double Capping of Cyclodextrin Scaffolds. Chemistry - A European Journal, 2011, 17, 3911-3921.	3.3	41
31	Calix[4]arenes with one and two N-linked imidazolium units as precursors of N-heterocyclic carbene complexes. Coordination chemistry and use in Suzukiâ€“Miyaura cross-coupling. Dalton Transactions, 2011, 40, 9889.	3.3	39
32	Capping calixarenes with metallodiphosphine fragments: towards intracavity reactions. Journal of the Chemical Society Dalton Transactions, 1997, , 2391-2402.	1.1	37
33	Micellar Effects in Olefin Hydroformylation Catalysed by Neutral, Calix[4]areneâ€Diphosphite Rhodium Complexes. Advanced Synthesis and Catalysis, 2009, 351, 1629-1636.	4.3	37
34	Synthesis of a resorcinarene-based tetraphosphine-cavitand and its use in Heck reactions. Organic and Biomolecular Chemistry, 2009, 7, 495-501.	2.8	35
35	Metal Confinement through Nâ€(9â€Alkyl)fluorenylâ€Substituted Nâ€Heterocyclic Carbenes and Its Consequences in Goldâ€Catalysed Reactions Involving Enynes. Chemistry - A European Journal, 2017, 23, 7809-7818.	3.3	35
36	Co-ordination chemistry of macrocyclic compounds with dangling phosphines. Unusual NMR shifts in metallo-calix[4]arenesâ€Šâ€. Journal of the Chemical Society Dalton Transactions, 1999, , 4139-4148.	1.1	33

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37	Synthesis and Molecular Structure of a Nickel(II) Complex Containing a Pyrazolone-Derived Phosphine Ligand: [Ni(.eta.5-C5Ph5){Ph2PC:C(O)N(Ph)N:C(Me)}]. Inorganic Chemistry, 1995, 34, 1288-1291.	4.0	32
38	Hexahomotrioxacalix[3]arene: a scaffold for a C3-symmetric phosphine ligand that traps a hydrido-rhodium fragment inside a molecular funnel. Chemical Communications, 1999, , 1911-1912.	4.1	32
39	A new approach to A,B-difunctionalisation of cyclodextrins using bulky 1,3-bis[bis(aryl)chloromethyl]benzenes as capping reagents. Organic and Biomolecular Chemistry, 2005, 3, 2588.	2.8	31
40	Resorcinareneâ€Functionalised Imidazolium Salts as Ligand Precursors for Palladiumâ€Catalysed Suzukiâ€“Miyaura Crossâ€Couplings. ChemCatChem, 2013, 5, 1116-1125.	3.7	31
41	Synthesis of large chelate rings with diphosphites built on a cyclodextrin scaffold. Unexpected formation of 1,2-phenylene-capped Î±-cyclodextrins. Comptes Rendus Chimie, 2002, 5, 359-372.	0.5	26
42	Cyclodextrin and phosphorus(<scp>iii</scp>): a versatile combination for coordination chemistry and catalysis. Dalton Transactions, 2015, 44, 12942-12969.	3.3	26
43	The Influence of Imidazolylidene Ligands with Bulky Resorcinarenyl Substituents on Catalysts for ÂSuzukiâ€“Miyaura Coupling. European Journal of Inorganic Chemistry, 2016, 2016, 1115-1120.	2.0	25
44	Benzimidazoliumâ€•and Benzimidazolilydeneâ€Capped Cyclodextrins: New Perspectives in Anion Encapsulation and Goldâ€Catalyzed Cycloisomerization of 1,6â€Enynes. Chemistry - A European Journal, 2018, 24, 17921-17926.	3.3	25
45	Calix[4]arene-diphosphite rhodium complexes in solvent-free hydroaminovinylation of olefins. Green Chemistry, 2010, 12, 1670.	9.0	24
46	Resorcin[4]arene-derived mono-, bis- and tetra-imidazolium salts as ligand precursors for Suzukiâ€“Miyaura cross-coupling. Organic and Biomolecular Chemistry, 2012, 10, 372-382.	2.8	24
47	Alkylfluorenyl substituted N-heterocyclic carbenes in copper(<scp>i</scp>) catalysed hydrosilylation of aldehydes and ketones. Dalton Transactions, 2015, 44, 13991-13998.	3.3	24
48	Regioselective Grafting of Two â€“CH₂P(X)Ph₂ Units (X = O, Lone Pair) onto a Resorcin[4]areneâ€Derived Cavitand. European Journal of Organic Chemistry, 2010, 2010, 1158-1168.	2.4	23
49	Directional properties of fluorenylidene moieties in unsymmetrically substituted N-heterocyclic carbenes. Unexpected CH activation of a methylfluorenyl group with palladium. Use in palladium catalysed Suzukiâ€“Miyaura cross coupling of aryl chlorides. Dalton Transactions, 2014, 43, 12251-12262.	3.3	23
50	N-Alkylfluorenyl-substituted N-heterocyclic carbenes as bimodal pincers. Dalton Transactions, 2015, 44, 9260-9268.	3.3	22
51	Cavitand Chemistry â€“ Towards Metallocapsular Catalysts. European Journal of Organic Chemistry, 2017, 2017, 313-323.	2.4	22
52	Phosphinocyclodextrins as confining units for catalytic metal centres. Applications to carbonâ€“carbon bond forming reactions. Beilstein Journal of Organic Chemistry, 2014, 10, 2388-2405.	2.2	21
53	A Cavityâ€Shaped Diphosphane Displaying â€œOschelatingâ€•Behavior. Angewandte Chemie - International Edition, 2011, 50, 1554-1559.	13.8	20
54	Subtle Steric Effects in Nickelâ€Catalysed Kumadaâ€“Tamaoâ€“Corriu Crossâ€Coupling Using Resorcinarenylâ€Imidazolium Salts. European Journal of Organic Chemistry, 2013, 2013, 4443-4449.	2.4	20

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55	Resorcinarenyl-Phosphines in Suzuki-Miyaura Cross-Coupling Reactions of Aryl Chlorides. European Journal of Inorganic Chemistry, 2014, 2014, 1364-1372.	2.0	19
56	â€œHummingbirdâ€•Behaviour of Nâ€‹Heterocyclic Carbenes Stabilises Outâ€•ofâ€‹Plane Bonding of AuCl and CuCl Units. Chemistry - A European Journal, 2015, 21, 10997-11000.	3.3	19
57	Synthesis of Optically Active Polystyrene Catalyzed by Monophosphine Pd Complexes. Angewandte Chemie - International Edition, 2016, 55, 8367-8370.	13.8	19
58	Calix[4]arene-fused phospholes. Dalton Transactions, 2017, 46, 9833-9845.	3.3	19
59	Title is missing!. Angewandte Chemie, 2002, 114, 2705-2708.	2.0	18
60	Resorcin[4]areneâ€‹Derived Monoâ€•and Diphosphines in Suzuki Crossâ€‹Coupling. Advanced Synthesis and Catalysis, 2010, 352, 901-908.	4.3	18
61	Substrateâ€‹Selective Olefin Hydrogenation with a Cavitandâ€‹Based Bis(Nâ€‹anisyl iminophosphorane). European Journal of Organic Chemistry, 2017, 2017, 70-76.	2.4	17
62	Copperâ€‹Catalysed Allylic Substitution Using 2,8,14,20â€‹Tetrapentylresorcinarenylâ€‹Substituted Imidazolium Salts. European Journal of Organic Chemistry, 2015, 2015, 7310-7316.	2.4	16
63	Phosphines and other P(III)â€‹derivatives with Cavityâ€‹shaped Subunits: Valuable Ligands for Supramolecular Metal Catalysis, Metal Confinement and Subtle Steric Control. ChemCatChem, 2021, 13, 153-168.	3.7	15
64	Ditopic binding of cyclodextrin-included ligands in trigonal silver(I) complexes. Polyhedron, 2011, 30, 573-578.	2.2	14
65	A Metallocavitand Functioning as a Container for Anions: Formation of Noncovalent Linear Assemblies Mediated by a Cyclodextrin-Entrapped NO3â^’â€…Ion. Angewandte Chemie, 2007, 119, 2717-2719.	2.0	13
66	Influence des propriÃ©tÃ©s intrinsÃ¨ques de ligands calixarÃ©niques sur des rÃ©actions de transformation catalytique de l'Ã©thylÃ¨ne. Comptes Rendus Chimie, 2008, 11, 583-594.	0.5	13
67	Calix[4]areneâ€‹Phosphine Dimers: Precursors of Flexible Metalloâ€‹Capsules and Selfâ€‹Compacting Molecules. Chemistry - A European Journal, 2009, 15, 10446-10456.	3.3	13
68	Non-conventional coordination of cavity-confined metal centres. Dalton Transactions, 2012, 41, 8786.	3.3	13
69	Aza-capped cyclodextrins for intra-cavity metal complexation. Chemical Communications, 2017, 53, 11717-11720.	4.1	13
70	Cracking Cavitands: Metalâ€‹Directed Scission of Phosphinylâ€‹Substituted Resorcinarenes. Chemistry - A European Journal, 2015, 21, 6678-6681.	3.3	12
71	A Comparative Study of Confining Ligands Derived from Methylated Cyclodextrins in Goldâ€‹Catalyzed Cycloisomerization of 1,6â€‹Enynes. European Journal of Organic Chemistry, 2019, 2019, 4528-4537.	2.4	12
72	Efficient asymmetric hydrogenation of olefins with hydrazine-derived diphosphoramidites. Organic and Biomolecular Chemistry, 2007, 5, 3340.	2.8	11

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73	Palladium-catalysed Suzuki–Miyaura cross-coupling with imidazolylidene ligands substituted by crowded resorcinarenyl and calixarenyl units. Turkish Journal of Chemistry, 2015, 39, 1171-1179.	1.2	11
74	Arylcalixarenyl Phosphines in Palladiumâ€Catalyzed Suzukiâ€“Miyaura Crossâ€Coupling Reactions. European Journal of Organic Chemistry, 2016, 2016, 1867-1873.	2.4	11
75	Regioselective Synthesis of Indene from 3â€Aryl Propargylic gemâ€Dipivalates Catalyzed by Nâ€Heterocyclic Carbene Gold(I) Complexes. Advanced Synthesis and Catalysis, 2018, 360, 2453-2459.	4.3	9
76	Cyclodextrin-based thiacavitands as building blocks for the construction of metallo-nanotubes. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 57, 243-250.	1.6	8
77	Resorcinareneâ€Based oâ€Biarylphosphines in Palladiumâ€Catalysed Suzukiâ€“Miyaura Crossâ€Coupling Reactions of Bulky Substrates. European Journal of Inorganic Chemistry, 2017, 2017, 685-693.	2.0	8
78	Binucleating behaviour of a proximally-diphosphinated calix[4]arene. Dalton Transactions, 2011, 40, 10063.	3.3	7
79	A Calixareneâ€Decorated Phosphole Oxide. European Journal of Organic Chemistry, 2016, 2016, 3103-3108.	2.4	7
80	Palladium complexes of N-heterocyclic carbenes displaying an unsymmetricalN-alkylfluorenyl/Nâ€²-aryl substitution pattern and their behaviour in Suzukiâ€“Miyaura cross coupling. Dalton Transactions, 2019, 48, 14516-14529.	3.3	7
81	Cavitand Chemistry: Nickel Half-Sandwich Complexes with Imidazolylidene Ligands Bearing One or Two Resorcinarenyl Substituents. European Journal of Inorganic Chemistry, 2018, 2018, 890-896.	2.0	6
82	Synthesis of Optically Active Polystyrene Catalyzed by Monophosphine Pd Complexes. Angewandte Chemie, 2016, 128, 8507-8510.	2.0	5
83	Complexes featuring N-heterocyclic carbenes with bowl-shaped wingtips. Comptes Rendus Chimie, 2019, 22, 299-309.	0.5	5
84	Pseudo-capsular behaviour of two trans-coordinated calixarenyl phosphines. Transition Metal Chemistry, 2013, 38, 821-825.	1.4	4
85	Crystal structure of trans-dichlorido[1,3-bis(9-methyl-9H-fluoren-9-yl) benzimidazol-2-ylidene](pyridine)palladium(II) â€“ a compound with anagostic CHâ€“Pd interactions, C₄₀H₃₁Cl₂N₃Pd. Zeitschrift Fur Kristallographie - New Crystal Structures, 2016, 231, 733-735.	0.3	3
86	Metallated Container Molecules: A Capsular Nickel Catalyst for Enhanced Butadiene Polymerisation. European Journal of Inorganic Chemistry, 2019, 2019, 4690-4694.	2.0	3
87	Synthesis of the First Resorcin[4]arene-Functionalized Triazolium Salts and Their Use in Suzukiâ€“Miyaura Cross-Coupling Reactions. Catalysts, 2019, 9, 388.	3.5	3
88	Crystal structure of trans-[1,3-bis(9-benzyl-9H-fluoren-9-yl) benzimidazol-2-ylidene] pyridine palladium(II) dichloride, C52H39Cl2N3Pd. Zeitschrift Fur Kristallographie - New Crystal Structures, 2014, 229, 169-171.	0.3	2
89	The calixarene cavity â€“ binding site or refuge?. Supramolecular Chemistry, 2014, 26, 480-487.	1.2	2
90	Cavitand Scission by Transitionâ€Metal Centres â€“ Cleaved Cavitand Chirality and Its Consequences. European Journal of Inorganic Chemistry, 2016, 2016, 497-502.	2.0	2

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91	Adaptive Behavior of a Ditopic Phosphine Ligand. European Journal of Inorganic Chemistry, 2019, 2019, 2996-3004.	2.0	2
92	Synthesis and structure of two crowded trans-[PdCl2L2] complexes based on a chiral, calix[4]arene-fused phosphole. Polyhedron, 2018, 139, 172-177.	2.2	1
93	Stereochemical Control of Tricoordinate Copper(I) Complexes Based on N-(9-Alkyl-9-fluorenyl)-Substituted Heterocyclic Carbenes. Synthesis, 2021, 53, 1785-1794.	2.3	1
94	Anagostic Interactions in Alkyl-Fluorenyl-Substituted Nâ€Heterocyclic Carbene Complexes of Palladium(II). Australian Journal of Chemistry, 2020, 73, 579.	0.9	0