

Scientific Production Prof. Dominique Armspach Professor at the University of Strasbourg

● **Peer-reviewed articles in international journals**

- [1] *Oxidation of the triterpenic hopane squeleton by peracids*
P. Bissere, D. Armspach, S. Neunlist, M. Rohmer*, *Tetrahedron Lett.* **1990**, 45, 6523-6526.
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- [5] *Carboranyl cluster-functionalised ligands for metallocupramolecular chemistry*
D. Armspach, E. C. Constable*, C. E. Housecroft*, M. Neuburger, M. Zehnder, *Supram. Chem.* **1996**, 7, 97-100.
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D. Armspach, E. C. Constable*, F. Diederich*, C. E. Housecroft, J.-F. Nierengarten, *Chem. Commun.* **1996**, 2009-2010.
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- [10] *Bucky ligands: synthesis, ruthenium(II) complexes, and electrochemical properties*
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- [11] *The tris(4-tert-butylphenyl)methyl group: a bulky substituent for effective regioselective difunctionalisation of cyclomaltohexaose*
D. Armspach, D. Matt*, *Carbohydr. Res.* **1998**, 310, 129-133.
- [12] *Metal-capped α -cyclodextrins: the crowning of the oligosaccharide torus with precious metals*
D. Armspach*, D. Matt*, *Chem. Commun.* **1999**, 1073-1074.
- [13] *The first Ru(II) bipyridyl-capped cyclodextrin. Evidence of electron-transfer through the cavity*
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- [15] *Dicobalt cluster functionalized 2,2':6',2''-terpyridines ligands and their ruthenium(II) complexes*
E. C. Constable*, C. E. Housecroft*, L. A. Johnston, D. Armspach, M. Neuburger, M. Zehnder, *Polyhedron* **2001**, 20, 483-492.
- [16] *Metal-capped α -cyclodextrins: squaring the circle*
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- [17] *Cyclodextrin cavities as probes for ligand-exchange processes*
E. Engeldinger, D. Armspach*, D. Matt*, *Angew. Chem. Int. Ed.* **2001**, 40, 2526-2529.
- [18] *A cyclodextrin diphosphane as a first and second coordination sphere cavitand: Evidence for weak C—H...Cl—M hydrogen bonds within metal-capped cavities*
E. Engeldinger, D. Armspach*, D. Matt*, P. G. Jones, R. Welter, *Angew. Chem. Int. Ed.* **2002**, 41, 2593-2596.
- [19] *Synthesis of large chelate rings with diphosphites built on a cyclodextrin scaffold. Unexpected formation of 1,2-phenylene-capped α -cyclodextrins*
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- [20] *Selective tetrafunctionalisation of α -cyclodextrin using the supertrityl protecting group - Synthesis of the first C_2 -symmetric tetraphosphane based on a cavitand (α -TEPHOS)*
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- [22] *Cyclodextrin phosphanes as first and second coordination sphere cavitands*
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- [25] *Conical cavitands as second coordination spheres and protecting environments. Towards metal-centred, intra-cavity reactions*
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L. Poorters, D. Armspach*, D. Matt*, L. Toupet, *Dalton Trans.* **2007**, 3195-3202.
- [32] *Synthesis of chiral, monodentate aminophosphine and phosphoramidite ligands derived from amino acid esters. Application in the Rh-catalysed asymmetric olefin hydrogenation*
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J.-C. Hierso*, D. Armspach*, D. Matt*, C. R. Chim. **2009**, 12, 1002-1013.
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R. Gramage-Doria, D. Rodriguez-Lucena, D. Armspach*, C. Egloff, M. Jouffroy, D. Matt*, L. Toupet, *Chem. Eur. J.* **2011**, 17, 3911-3921.
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- [51] *Phosphane-phosphite chelators built on a α -cyclodextrin scaffold: Application in Rh-catalysed asymmetric hydrogenation and hydroformylation.*
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- [69] *A more sustainable two-step synthesis of alkylated β-cyclodextrin via acetylation and GaBr₃-catalyzed reduction*
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- [70] *Manipulating stereo-communication in binaphthol-bridged α- and β-cyclodextrins to develop β-selective chiroptical pH switching and anion sensing in water*
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- [72] *TRANSDIP : un trans-chélateur authentique*
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● Book chapters

- [73] *Carborane-functionalized ligands for metallocsupramolecular chemistry*
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- **Patents**

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