

Special Issue

Transition Metal Catalyzed Cross-Coupling Reactions

Message from the Guest Editor

Transition metal-catalyzed cross-coupling reactions have proved to be powerful tools for carbon–carbon as well as carbon–heteroatom bond formation, and a number of these reactions are well established for the development of applications ranging from pharmaceuticals to materials. This Special Issue aims to cover promising research and novel trends in the broad field of cross-coupling reactions, employing a range of different catalysts. Catalysis may be homogeneous or heterogeneous, and the transformations may be in mono- or biphasic systems, using conventional conditions or non-conventional techniques. The catalysts may be supported or unsupported metal complexes with phosphane or phosphane-free ligands, as well as metal nanoparticles. Studies on asymmetric catalysis, catalyst recycling, coupling of non-activated substrates, mechanistic insights, and also applications for the synthesis of fine chemicals and intermediates used in the manufacture of drugs and materials are also of great interest. Submissions to this Special Issue are welcome in the form of original research papers (communications or full papers) or review articles.

Guest Editor

Dr. Ioannis D. Kostas

National Hellenic Research Foundation, Institute of Chemical Biology,
Vas. Contantinou 48, 11635 Athens, Greece

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

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