EuroSciCon

EuroSciCon Conference on

Chemistry 2018

February 19-20, 2018
Paris, France

C Len, J Org Inorg Chem 2018, Volume: 4
DOI: 10.21767/2472-1123-C1-001

CATALYSIS IN WATER – KEY TO A SUSTAINABLE FUTURE

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The design of environmentally friendly methodologies has been the driving force of scientists in recent years. In particular the use of biomass-derived materials, green solvents and alternatives techniques has been investigated. In this presentation, several green chemistry approaches that target advanced synthesis and processes will be presented. These approaches include C-C bond formation such as Suzuki-Miyaura, Heck and Tsuji-Trost cross coupling reactions in water via conventional catalysis or micellar catalysis using microwave irradiation and high temperature/pressure; ultrasound irradiation in batch and in continuous flow. Conception, synthesis and physico-chemical properties will be detailed.

Biography

C Len received his PhD in 1995 from the Université de Picardie Jules Verne followed by a Postdoctoral Fellowship at the University of Hull, England. In 1997, he became Assistant Professor at UPJV and was promoted to full Professor in 2004 at the Université de Poitiers, France and in 2010 at the Université de Technologie Compiègne, France. He has published almost 150 original publications, five chapters and eight patents. Among recent awards and recognition, he was promoted Honorary Professor of the University of Hull, England in 2012-2018. He is a Fellow of Indian Society of Chemists and Biologists, Fellow of the Association of Carbohydrate Chemists and Technologist of India and Fellow of the Royal Society of Chemistry. In 2017, he has been honored with Glycerine Innovation Award sponsored by the American Cleaning Institute and the National Biodiesel Board. His current research explores organic chemistry and catalysis applied to biomass.

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