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Waste biomass derived aqueous extracts as alternative green solvent media for organic transformations

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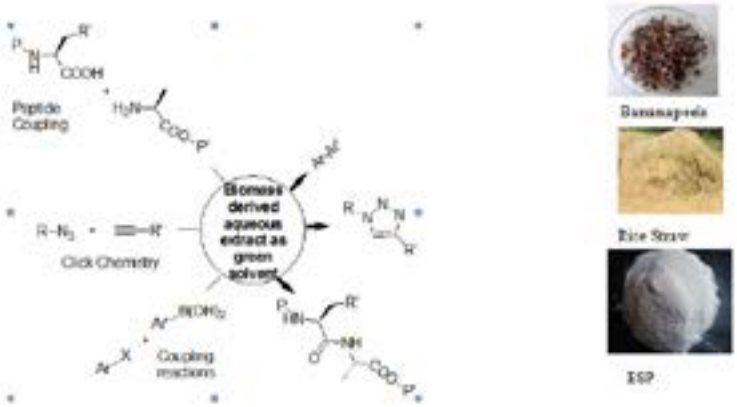
Conventionally most of the organic reactions are carried out in solution phase. The solution phase, that contains pure or mixed solvents, plays a pivotal role in determining the course of reactions and the amount of product formed. The conventional organic solvents used in organic reactions are known to be environment pollutants. In view of the environmental pollution caused by the use of these volatile organic solvents, there is a greater need to replace them by environmentally benign solvents. In this regard aqueous system, ionic liquids, super critical fluids, PEGs have emerged as important substitutes for several organic solvents. Herein, I am presenting how waste biomass derived aqueous extracts can be used as green alternative solvent media for various organic transformations such as Suzuki coupling, click reaction, peptide coupling, etc.



Biography

Diganta Sarma is currently working as an Associate Professor in Department of Chemistry in Dibrugarh University, India. He completed his PhD from National Chemical Laboratory, Pune in 2007. He has been a Postdoctoral Research Fellow (2007-2009) at Kyoto Pharmaceutical University, Japan. Worked as Postdoctoral Research Associate, The University of Kansas, USA (2009-12). His research interests include Green Chemistry- Organic transformations (like Suzuki coupling, azide-alkyne cycloadditions, Aza-Michael reactions etc.) in water and ionic liquids, Synthetic Peptide Chemistry/Medicinal Chemistry, Protease inhibitors- Design, synthesis and biological evaluations.

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