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GREEN CHEMISTRY AND ALTERNATIVES TECHNIQUES: HIKING AROUND GLYCEROL

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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 regards, glycerol has the potential to be both an excellent renewable solvent in modern chemical processes and a versatile building block in biorefineries. In this conference, several green chemistry approaches that target advanced synthesis and processes using glycerol will be presented. Few approaches will be described: (i) green synthesis of quinoline and phenanthroline derivatives in sole water using microwave irradiation and high temperature/pressure in batch and in continuous flow; (ii) production of oligomer of glycerol for polymerization in batch and in continuous flow. Conception, synthesis and physico-chemical properties will be detailed.

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