Model Abstract

Recent Approaches of Green Chemistry-A Review

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Manufacturing of active pharmaceutical ingredients using hazardous and toxic reaction are nowadays major concern as it affects health and safety of the workers as well as the environment. The replacement of toxic solvents used for the synthesis as well as using greener techniques is becoming attractive alternatives. The majority of solvents used for synthesis, purification, separation, analysis and extraction is toxic. One of the green chemistry approaches is to replace the toxic solvents used for different purposes with greener solvents. Atom economy is also important aspects to increase the yield of the final product with reduction in by products. Synthesis of chemical compounds using "green catalysts" also affects the efficiency of the product. Green catalysts used in the synthesis not only decrease reaction time, but it also increases yield of the final product as well as reduce use of solvents. Alternative synthetic strategies are employed to decrease the use of toxic solvents as well as to decrease the energy consumption during the synthesis. Microwave assisted organic synthesis is nowadays employed in place of conventional synthesis as it doesn't require the use of solvents and considered as greener process. Other techniques like biocatalysis, self-thermo-regulated systems, soluble polymers, etc. are considered as eco-friendly methodologies as these techniques do not require solvents or use of less solvent as compared to conventional methods.

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Commented [Ghate2]: Name of Author and coauthors. (Surname followed by name), affiliated address and email id. Font size: 14, Font: Times New Roman, Centered, Single spacing, Title Case. The name of presenting author should be underlined. Email ID in Italics

Commented [Ghate3]: Abstract: around 200 to 250 words, Font size: 12, Font: Times New Roman, justified, 1.5 line spacing.