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(57) Abstract :

[058] The invention relates to the field of chemoselective click reactions for precise and efficient organic compound synthesis. This innovation encompasses methods, apparatuses, catalyst systems, computer-implemented automation, reagent compositions, kits, pharmaceutical compositions, materials production processes, environmentally friendly synthesis methods, and agrochemical formulations. These inventions collectively address the longstanding challenge of selectively modifying specific functional groups within complex organic compounds while leaving others untouched. By achieving this high degree of chemoselectivity, the invention enhances the precision, efficiency, and sustainability of chemical synthesis processes, with applications spanning pharmaceuticals, materials science, agriculture, and beyond. Additionally, the computer-implemented automation facilitates the rapid design and execution of chemoselective reactions, further advancing the field of organic chemistry.

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