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Special Issue Reprint

Advances in the Synthesis of Heterocyclic Compounds and Their Applications

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This Special Issue, entitled “Advances in the Synthesis of Heterocyclic Compounds and Their Applications”, aims to expand our scientific knowledge about the current world by exploring the differences between at least two of their lively interfaces: human life and the environment.

From this perspective, our previous traditional strategies, “heteroring synthesis” and “substituent modification” (including their combination), require an update to their meaning in terms of two actual conceptual approaches, namely “covalent” vs. “non-covalent”, with reference to all types of heteromolecules, from the smallest to (supramolecular) 2(3)D nano-architectures (dendrimers, MOFs, COFs, etc.) without neglecting the still “exotic” molecular machines.

Subject to all evolutionary facets of heterocyclic chemistry, the perpetual developments reimagined within the current organic heterosynthesis (strategies, methodologies, reaction mechanisms, reagents, catalysts, chemical and instrumental auxiliaries) nevertheless obey two crucial common denominators, “selectivity” vs. “specificity” (these terms being, equally, preceded by typical prefixes, either chemo-, regio-, or stereo-), as mandatory criteriums.

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