

Special Issue

Bioactive Oxadiazoles

Message from the Guest Editor

Oxadiazoles are electron-poor five-membered aromatic heterocycles containing one oxygen and two nitrogen atoms. The oxadiazoles present a wide application range from material science to explosives and bioactive compounds. In the latter field, there are many possibilities and oxadiazoles revealed to be active as antitumoral agents, neuroprotective compounds, antimicrobials, antivirals, antidiabetics, and so on.

Moreover, the oxadiazole skeleton is also present in some natural compounds, such as phidianidine and quisqualic acid, giving new inspiration to the synthesis of bio-inspired drugs. Another important issue is the use of oxadiazoles in medicinal chemistry as amide and ester isosters and as peptido-mimetics, offering a well-established tool for drug design. All these aspects have increased the interest in these heterocycles, increasing the impact of oxadiazoles in the field of bioactive compounds. This Special Issue on "Bioactive Oxadiazoles" is intended to offer a wide panorama of the potential applications of these compounds toward all diseases.

Guest Editor

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