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NEW METAL-MEDIATED DOMINO REACTIONS FOR THE SYNTHESIS OF ORIGINAL HETEROCYCLES

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At present, there is a real need for new chemical structures in different fields such as pharmaceuticals, agrochemicals or materials. However, if new scaffolds can be created to open new perspectives, it is important to keep in mind that these species have to be easily and modularly obtained in order to make them truly useful. Over the last 5 years, we have developed in our group different efficient syntheses of unprecedented heterocyclic compounds based on original domino sequences. These approaches offer an interesting level of modularity as well as the economy of steps that is now required when you consider that a more sustainable chemistry is inevitable in the future. During this talk I will present our most recent results in the synthesis of complex sulfur, nitrogen and silicon based polycyclic molecules.

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