

Martedì **28 Maggio 2024** alle ore **10:30** presso l'aula H

Il Prof. Claudio Pettinari

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School of Pharmacy

terrà il seminario dal titolo:

MOF: a significant tool for the health of the Earth and Humanity

In the late 1980s, Hoskins and Robson reported the synthesis of two porous coordination polymers: $[N(CH_3)_4][Cu^I Zn^{II}(CN)_4]$ and $CuI[4,4',4'',4''''\text{-tetracyanotetraphenylmethane}]BF_4 \cdot xC_6H_5NO_2$ by conventional methods. Their work was the basis for the development of MOFs (Metal-Organic Frameworks), a term introduced by Yaghi for a layered copper terephthalate that exhibited adsorption properties. Since then, much progress has been made, not only in the synthesis of MOFs and in the study of their applications but, above all, in the definition of their structures and properties. Today, over 27 companies are working on synthesizing MOFs on a pilot scale and commercializing them.

In this seminar, we will discuss about the development of pyrazole-based systems (MAF, Metal Azotate Frameworks) mainly developed at the University of Camerino, highlighting how the presence of different substituents can often produce unexpected properties. From the simple unsubstituted pyrazole to the bipyrazoles and pyrazolcarboxylate, through the study of their interaction with metals of the first transition series, the absorption properties will be described together with the luminescence and catalytic ones and above all the possible applications in the biomedical sector.

La presenza della S. V. sarà molto gradita

Prof.ssa Lidia Armelao

*Il Direttore del Dipartimento
Prof. Stefano Mammi*