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Investigation of Reasons for Metal-organic Framework 's Antibacterial Activities

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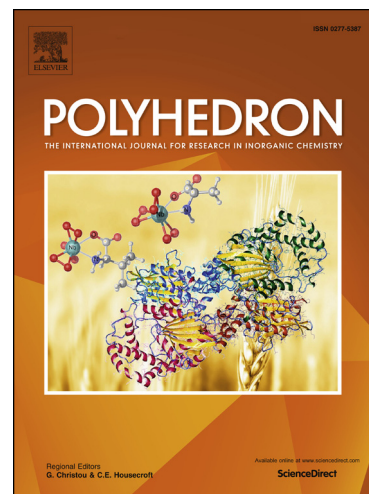
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Investigation of Reasons for Metal-organic Framework's Antibacterial Activities

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Abstract:

Today, metal–organic frameworks (MOFs) are being used in a variety of fields. One of the most interesting applications of MOFs is their use as antibacterial agents. There have been several reports investigating the antibacterial activities of MOFs. The most probable mechanism generating their antibacterial effect is the structural degradation of MOFs, along with the release of metal ions and the reaction of organisms with active metals on their surface. In this review, we investigate the association between the structure of MOFs and their antibacterial activity.

Keywords: MOF; antibacterial activity; mechanism.

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