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AIMOFGIFT: Towards AI-Driven Metal Organic Framework Drug Delivery Systems Design

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Abstract. Metal Organic Framework (MOF) drug delivery systems are interesting for Gastrointestinal tract (GIT) inflammatory, parasitic, cancer, and other diseases therapy. Artificial Intelligence - Machine Learning (AI/ML) can be used for a more rational design of these systems. However, the low abundance of data difficult these studies. In this communication we presented preliminary results of the project AIMOFGIFT funded by the SPRI Group Elkratek program in this area. A new database of MOF-Drug systems was created from public sources. In addition, different AI/ML preliminary models were developed to predict new MOF-Drug systems.

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