

## Author's Accepted Manuscript

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PII: S0022-4596(18)30353-0  
DOI: <https://doi.org/10.1016/j.jssc.2018.08.024>  
Reference: YJSSC20342

To appear in: *Journal of Solid State Chemistry*

Received date: 24 May 2018  
Revised date: 16 August 2018  
Accepted date: 18 August 2018

Cite this article as: Waqas Ali Shah, Laila Noureen, Muhammad Arif Nadeem and Paul Kögerler, Encapsulation of Keggin-type manganese-polyoxomolybdates in MIL-100 (Fe) for efficient reduction of p-nitrophenol, *Journal of Solid State Chemistry*, <https://doi.org/10.1016/j.jssc.2018.08.024>

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**Encapsulation of Keggin-type manganese-polyoxomolybdates in MIL-100****(Fe) for efficient reduction of p-nitrophenol**

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**Abstract**

Confining polyoxometalates inside the cavities of metal-organic frameworks is a method to utilize these versatile molecular metal oxide clusters as quasi-heterogeneous catalysts and to thereby broaden their applications. In this study, manganese-polyoxomolybdate anions of the Keggin structure type,  $[P^V Mo^VI_{11} Mn^{II} (H_2O) O_{39}]^{5-}$  (**Mn-POM**), are encapsulated in an iron(III)-based metal-organic framework (MIL-100) to achieve 30 wt.-% loaded **Mn-POM/MIL-100** composite material (**1**). The composite compound **1** displays excellent catalytic activity for the selective reduction of p-nitrophenol into p-aminophenol (96 %) at 20

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