## Materials List for Discovery and Synthesis Optimization of Isoreticular AI(III) Phosphonate-Based Metal-Organic Framework Compounds Using High-Throughput Methods

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ors	Citation
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## Materials

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Name	Company	Catalog Number	Comments
AICI <sub>3</sub> ·6H <sub>2</sub> O	Grüssing	N/A	99%
Filter block for filtration of max. 48 reaction mixtures	In-house made	N/A	Technical drawings in the supplementary files
Hydrochloric acid	Honeywell	258148	Conc. 37 %, p.a.
Multiclaves with 24 individual Teflon inserts	In-house made	N/A	Technical drawings in the supplementary files
N,N '-piperazine bis(methylenephosphonic acid	Prepared by coworkers	N/A	H4PMP, Prepared by coworkers with the method reported by Villemin et al.: D. Villemin, B. Moreau, A. Elbilali, MA. Didi, M.'h. Kaid, PA. Jaffrès, Phosphorus Sulfur Silicon Relat. Elem. 2010, 185, 2511.
Sample Plate for PXRD	In-house made	N/A	Technical drawings in the supplementary files
Sodium hydroxide	Grüssing	N/A	99%
Stoe Stadi P Combi	STOE	Stadi P Combi	Cu-K <sub><math>\alpha1</math></sub> radiation ( $\lambda$ = 1.5406 Å); transmission geometry; MYTHEN2 1K detector; opening angle 18°; curved monochromator; xy-table
Forced convection oven	Memmert	UFP400	