Electronic Supplementary Material (ESI) for CrystEngComm.

Three-dimensional metal-organic frameworks (MOFs) containing substituted diimide ligands: Synthesis, structures and gas sorption studies

Luccile Mbonzhe,[a] Lufuno Mushango,[a] Nabanita Chatterjee,[b] Leigh Loots,[c] Clive L. Oliver,[b] and Eustina Batisai[a*]

[a]*Department of Chemistry, University of Venda, P Bag X5050, Thohoyandou 0950, South Africa*

[b]*Department of Chemistry, University of Cape Town, Rondebosch 7701, South Africa*

[c]*Department of Chemistry, Stellenbosch University, P Bag X1, Matieland 7602, South Africa.*

**Eustina.Batisai@univen.ac.za*

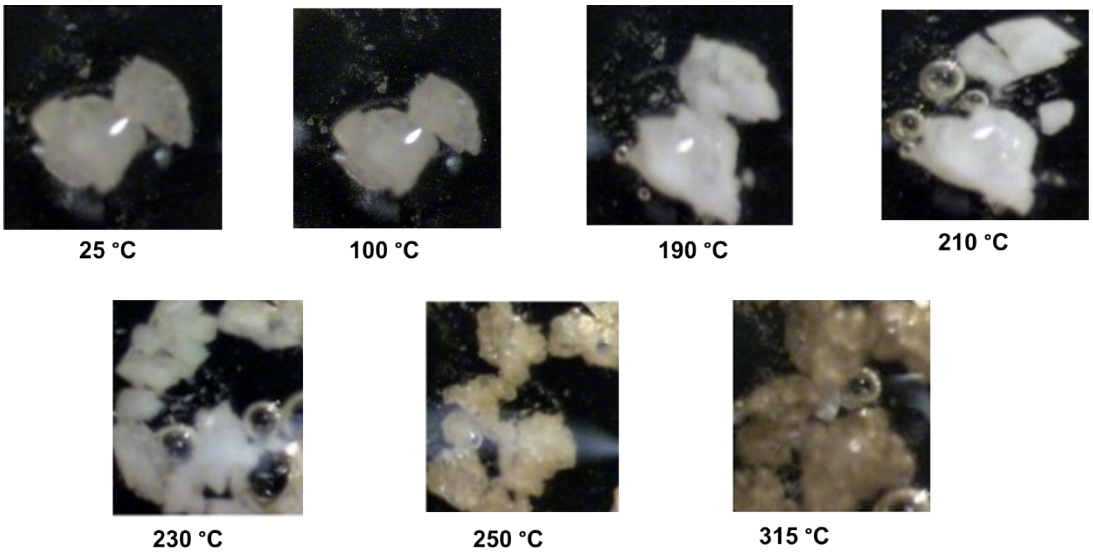

Figure S1 HSM micrographs of crystals of **1** captured at different temperatures: (a) 25 °C, (b) 190 °C, (c) 210 °C, (d) 230 °C, (e) 250 °C and (f) 315 °C.

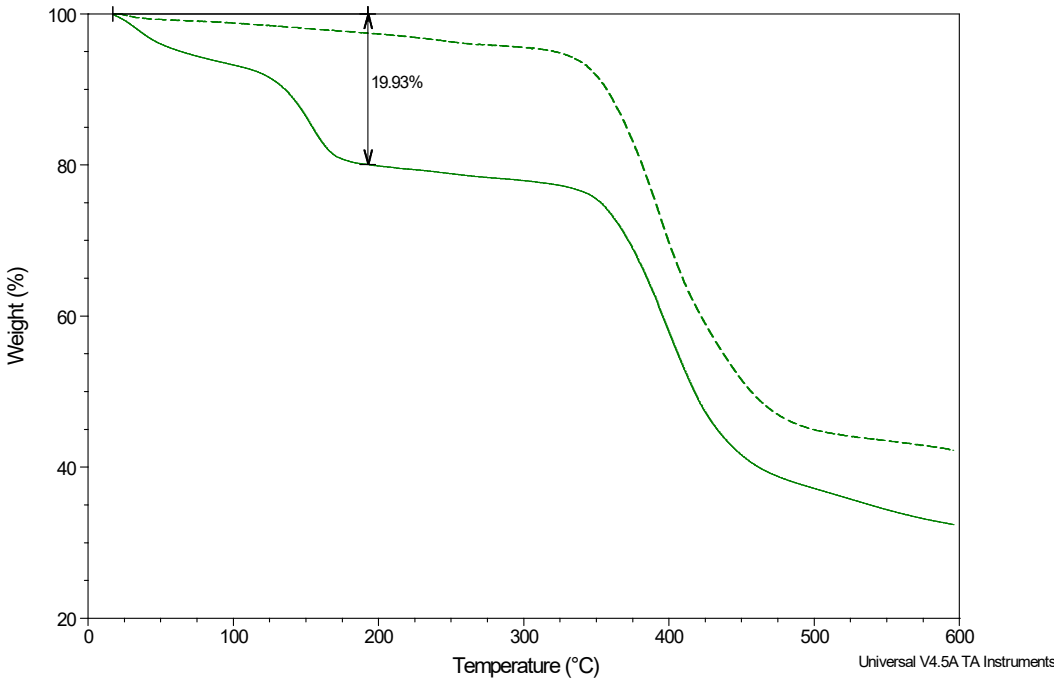

Figure S2 TGA thermograms of **1** (solid line) and **1-d** (dashed line).

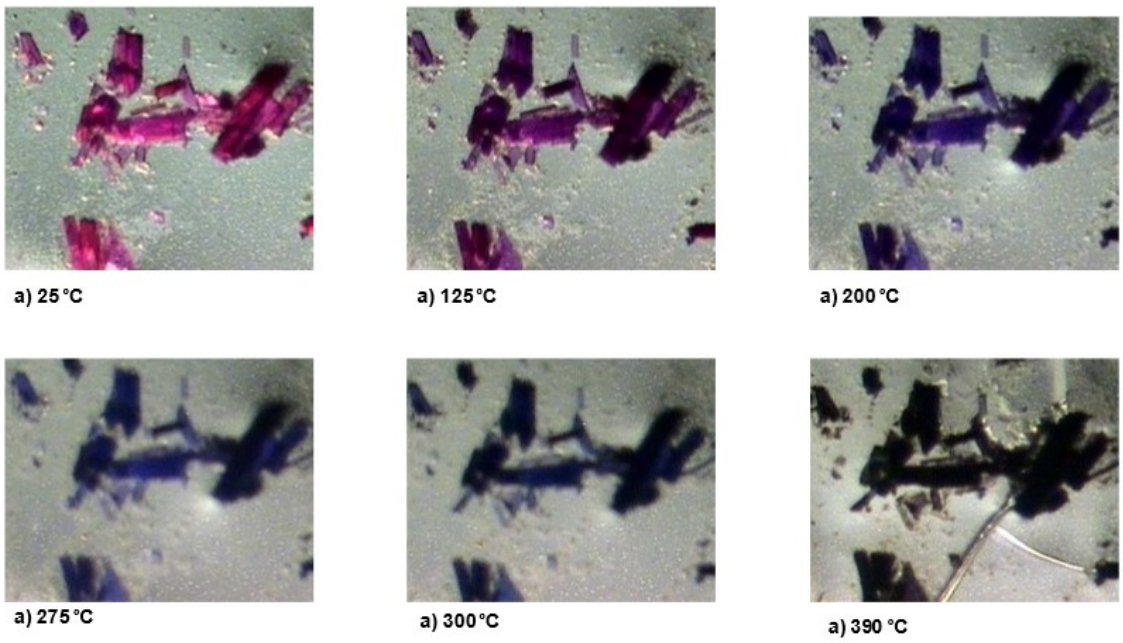

Figure S3 HSM micrographs of **2** taken as the crystals were heated from 25 °C to 400 °C at 10 °C min^{-1}.

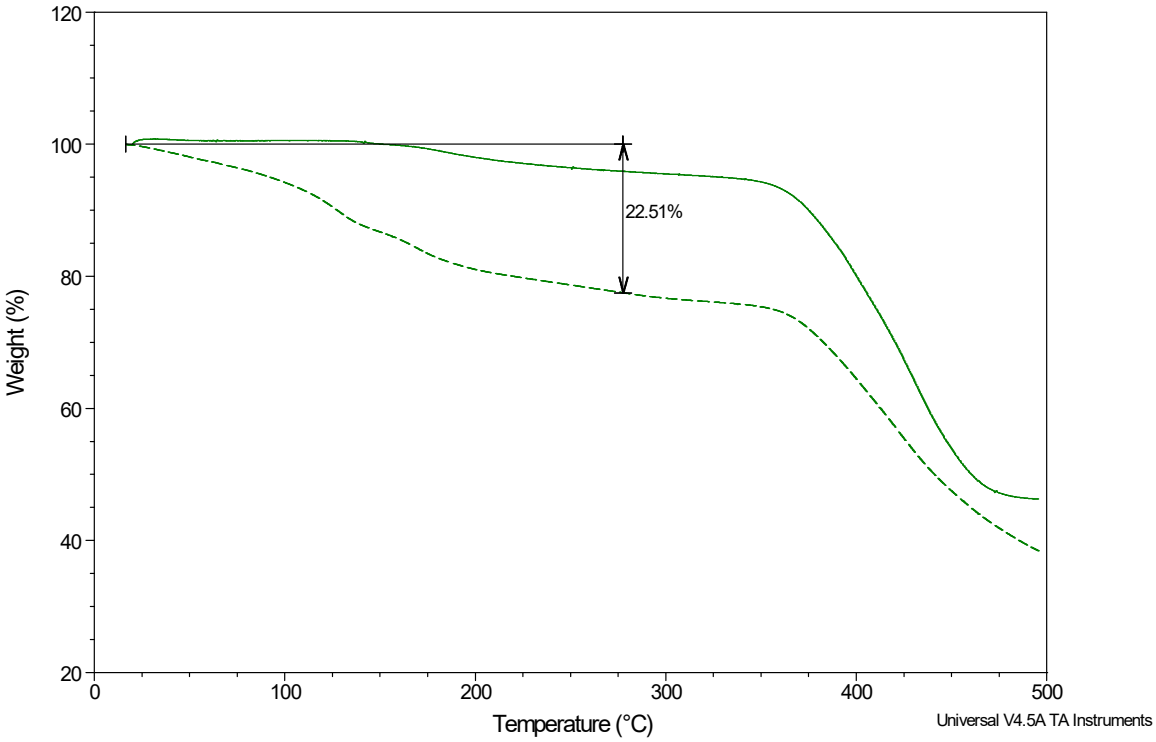

Figure S4 TGA thermogram of **3** (dashed line) and **3d** (solid line).