

Supporting Information
To the paper in CrystEngComm, entitled:

**Topological Motifs in Dicyanamides of Transition
Metals**

Layachi Merabet,^a Anna V. Vologzhanina,^b Zouaoui Setifi,^{a,c} Lakhmissi
Kaboub,^a and Fatima Setifi*,^a

^a *Laboratoire de Chimie, Ingénierie Moléculaire et Nanostructures (LCIMN), Université Ferhat Abbas Sétif 1, Sétif 19000, Algeria*

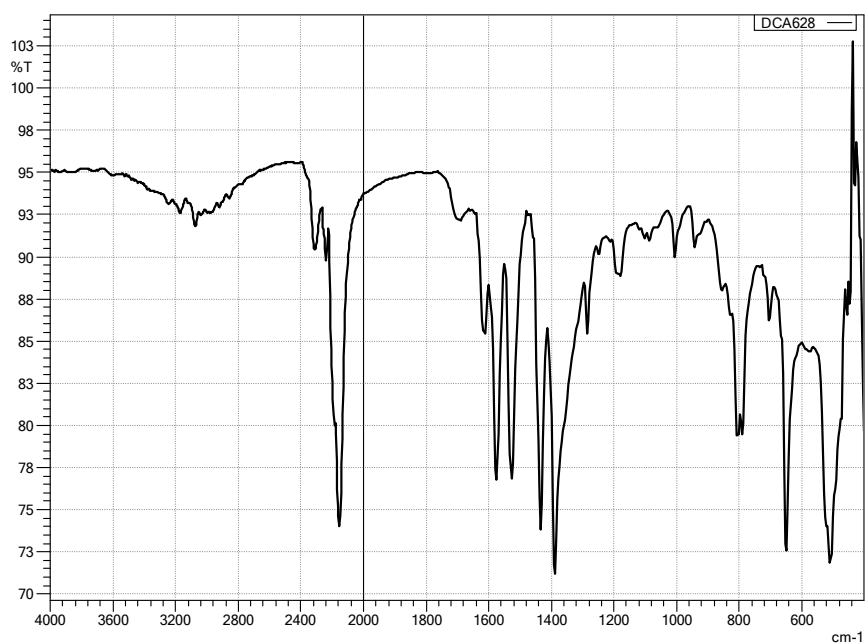
^b *A.N. Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Sciences, Vavilova st. 28, 119991 Moscow, Russian Federation.*

^c *Département de Technologie, Faculté de Technologie, Université 20 Août 1955-Skikda, Skikda 21000, Algeria*

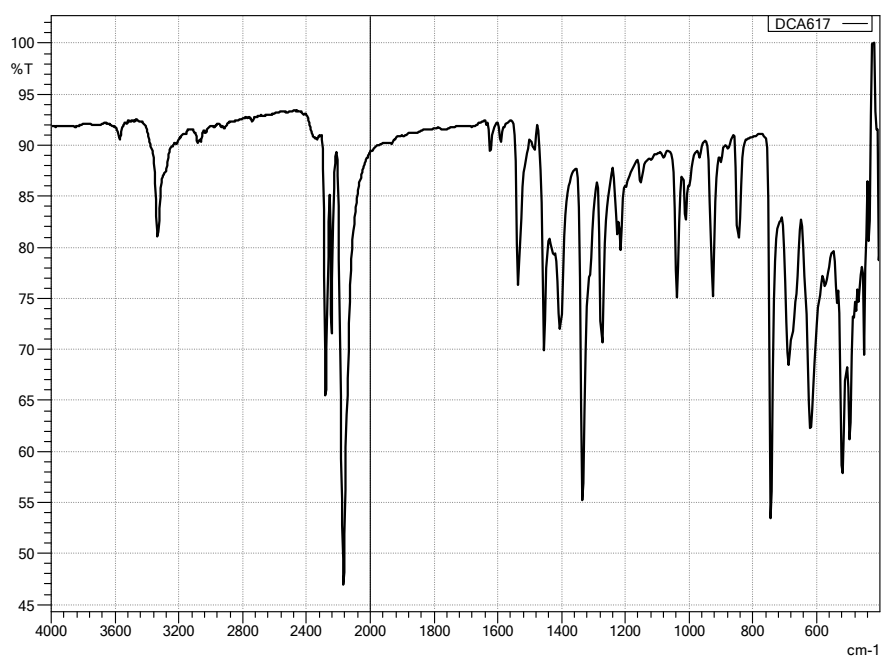
Table of contents

Figure S1. FT-IR data of compounds **1-5**.

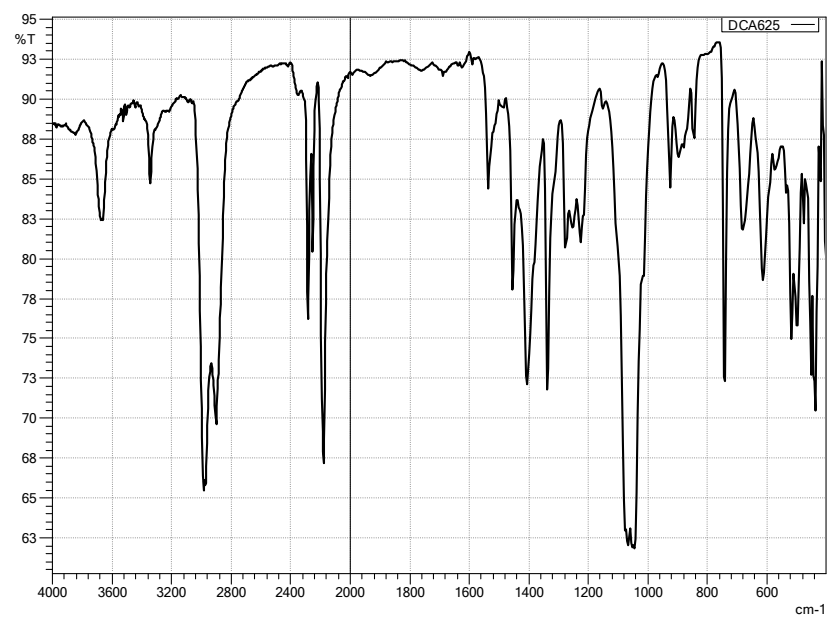
Figure S2. Asymmetric units of studied compounds in representation of atoms with thermal ellipsoids.



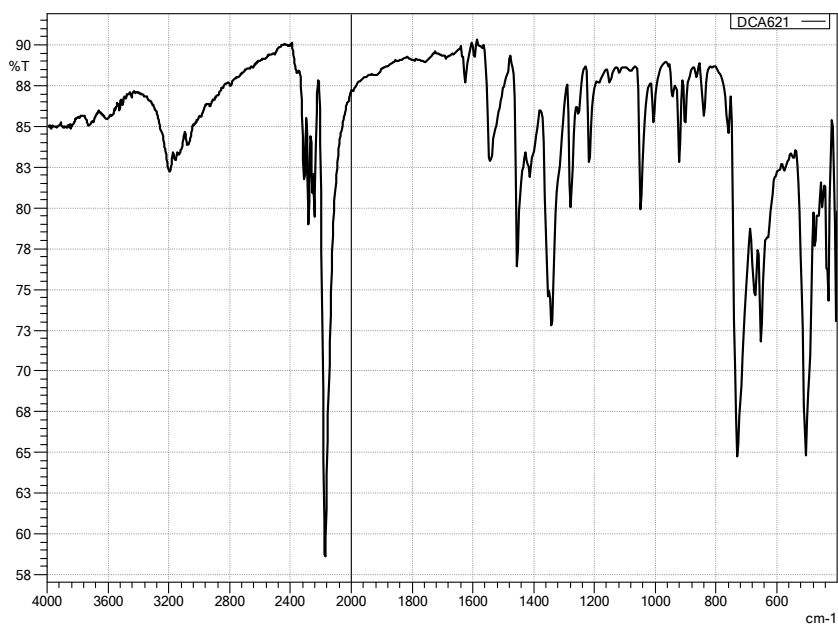
Compound 1



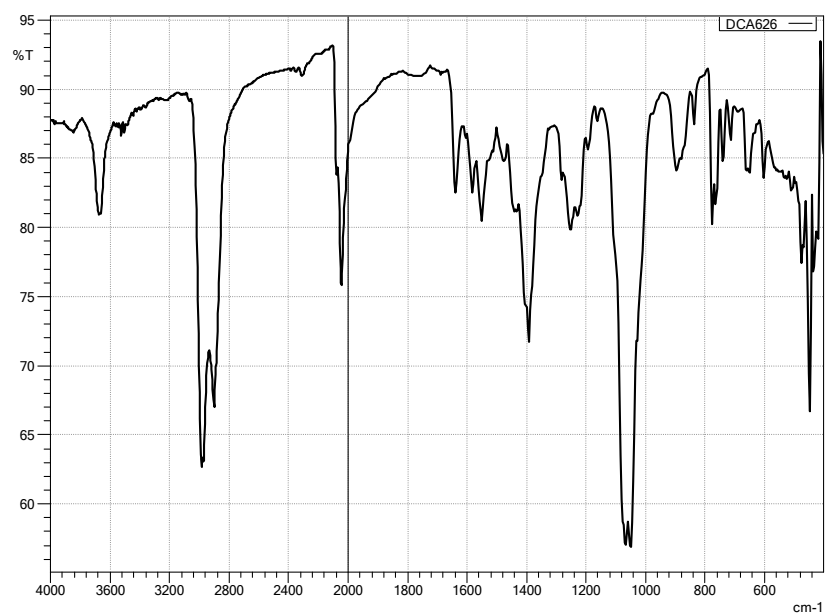
Compound 2



Compound 3

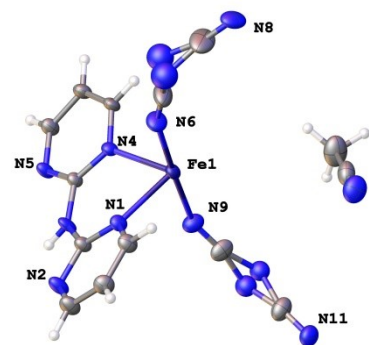


Compound 4

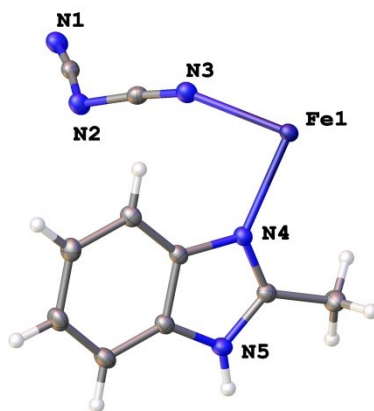


Compound 5

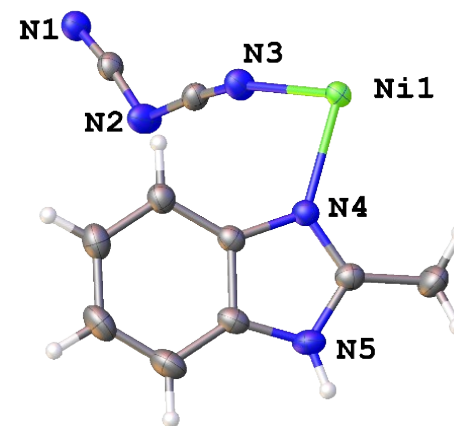
Figure S1. FT-IR data of compounds 1-5.



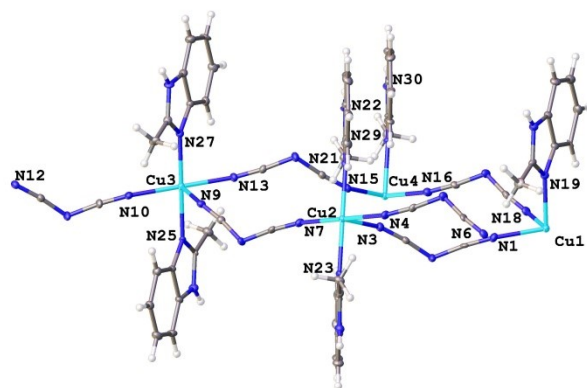
$\{[\text{FeBpa}(\text{dca})_2] \cdot 0.5\text{CH}_3\text{CN}\}$



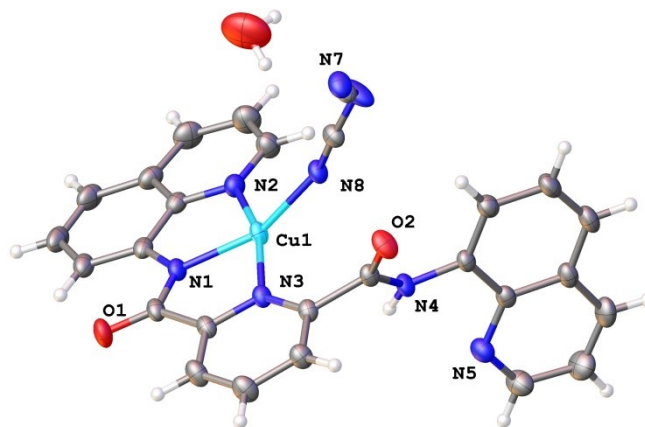
$[\text{Fe}(2\text{-MeBzIm})_2(\text{dca})_2]_n$



$[\text{Ni}(2\text{-MeBzIm})_2(\text{dca})_2]_n$



$[\text{Cu}(2\text{-MeBzIm})_2(\text{dca})_2]_n$



$\{[\text{CuL}(\text{dca})] \cdot 0.5\text{H}_2\text{O}\}_n$

Figure S2. Asymmetric units of studied compounds in representation of atoms with thermal ellipsoids.

