

Inorganic Chemistry

including bioinorganic chemistry

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Ni2-N2'-N2	56.8(9)	F5-F4-F6	62.7(5)
Ni2-N2'-C6	102.4(10)	P-F5-F3	45.7(4)
Ni2-N2'-C20	104.4(11)	P-F5-F4	46.8(4)
N2-N2'-C6	62.8(11)	F3-F5-F4	60.6(4)
N2-N2'-C20	151.5(15)	P-F6-F1	45.7(4)
C6-N2'-C20	145.7(14)	P-F6-F2	46.0(4)
Ni2-N4'-N4	79.2(10)	P-F6-F4	45.2(4)
Ni2-N4'-N9	77.0(10)	F1-F6-F2	59.8(5)
Ni2-N4'-C10	110.4(9)	F1-F6-F4	90.9(5)
Ni2-N4'-C26	119.0(10)	F2-F6-F4	61.9(4)
N4-N4'-N9	143.9(15)	N12-C33-C34	177.0(17)
N4-N4'-C10	48.3(9)	N13-C35-C36	174.8(16)

Figure S1. Crystal structure of $[\text{Ni}_5(\text{tpda})_4(\text{CN})_2]$, (2). Atoms are shown as 20% thermal vibrational ellipsoids.

Figure S2. Crystal structure of $[\text{Ni}_5(\text{tpda})_4(\text{N}_3)_2]$, (3). Atoms are shown as 20% thermal vibrational ellipsoids.

Figure S3. Crystal structure of $[\text{Ni}_5(\text{tpda})_4(\text{CH}_3\text{CN})_2]^{2+}$, (5). Atoms are shown as 30% thermal vibrational ellipsoids.

Figure S4. Molecular orbital diagram of Five Linear Ni_5 system for $[\text{Ni}_5(\text{III})_4(\text{NCS})_2]$.

Figure S5. Magnetic data for $[\text{Ni}_5(\mu_5\text{-tpda})_4(\text{N}_3)_2]$, (3). Solid line represents the result of theoretical simulation. $\circ$ is the observed χ_M and $\square$ the observed μ_{eff} .

Figure S6. Magnetic data for $[\text{Ni}_5(\mu_5\text{-tpda})_4(\text{NCS})_2]$, (4). Solid line represents the result of theoretical simulation. $\circ$ is the observed χ_M and $\square$ the observed μ_{eff} .

Figure S7. Magnetic data for $[\text{Ni}_5(\mu_5\text{-tpda})_4(\text{CH}_3\text{CN})_2]^{2+}$, (5). Solid line represents the result of theoretical simulation. $\circ$ is the observed χ_M and $\square$ the observed μ_{eff} .

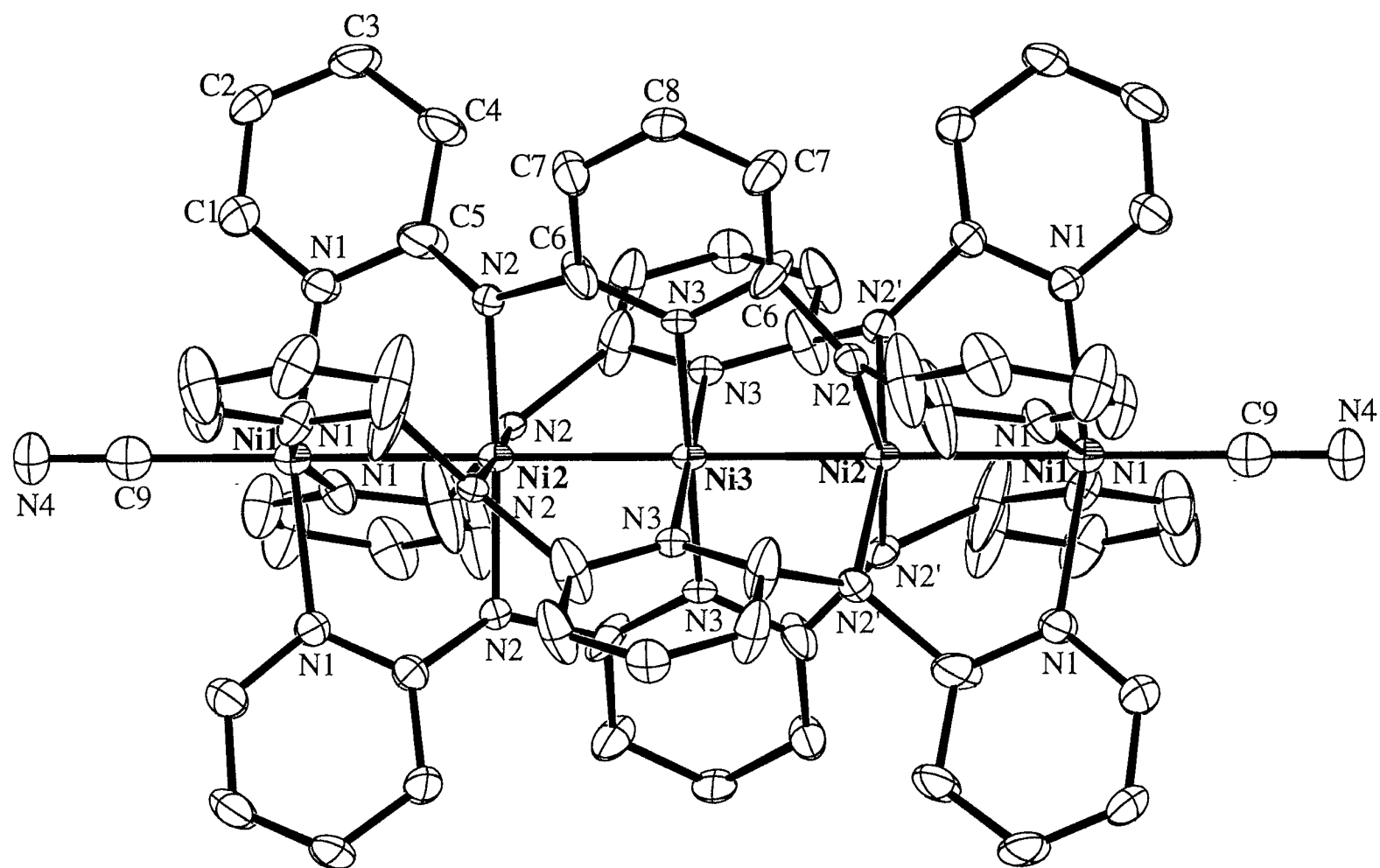


Figure S1

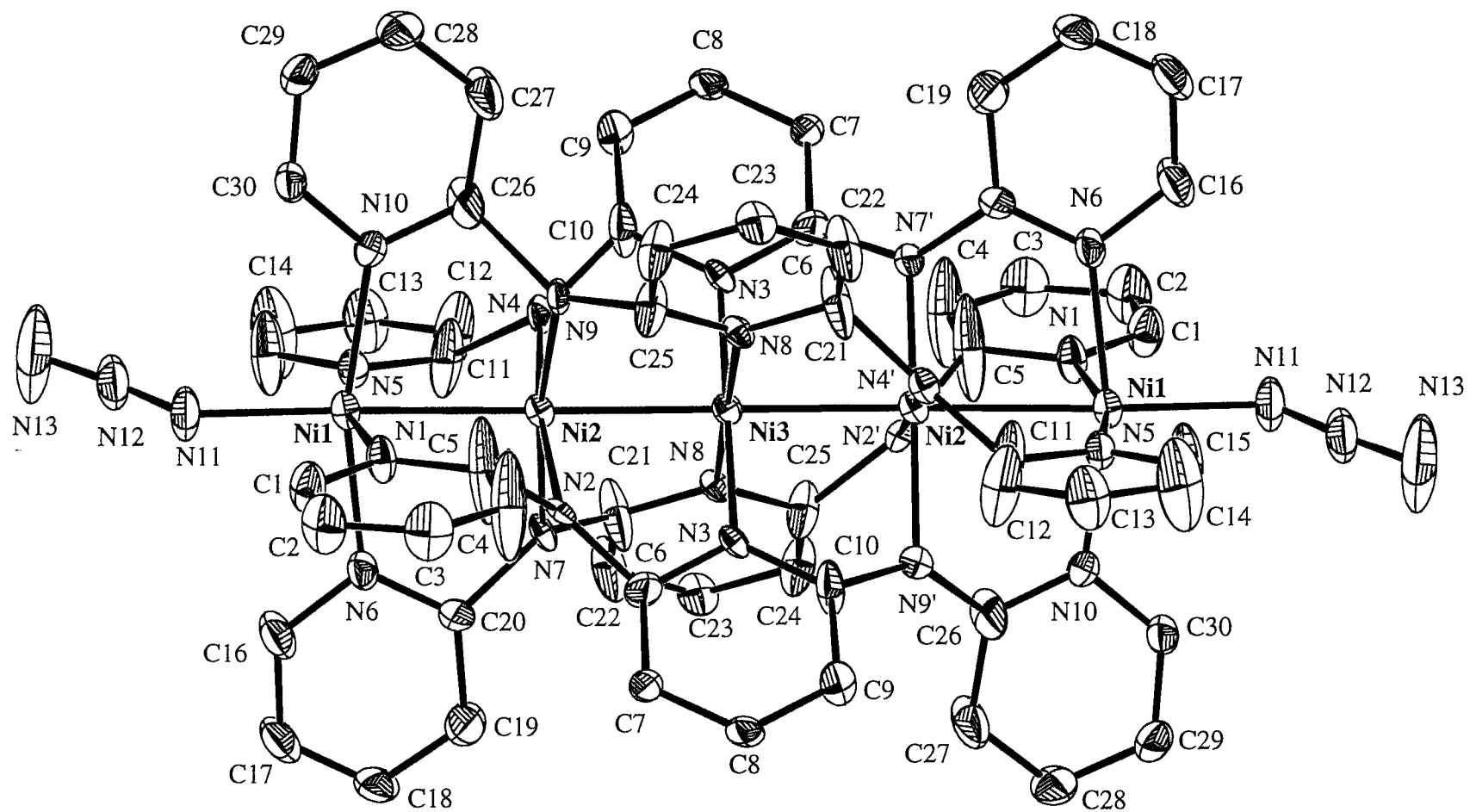


Figure S2

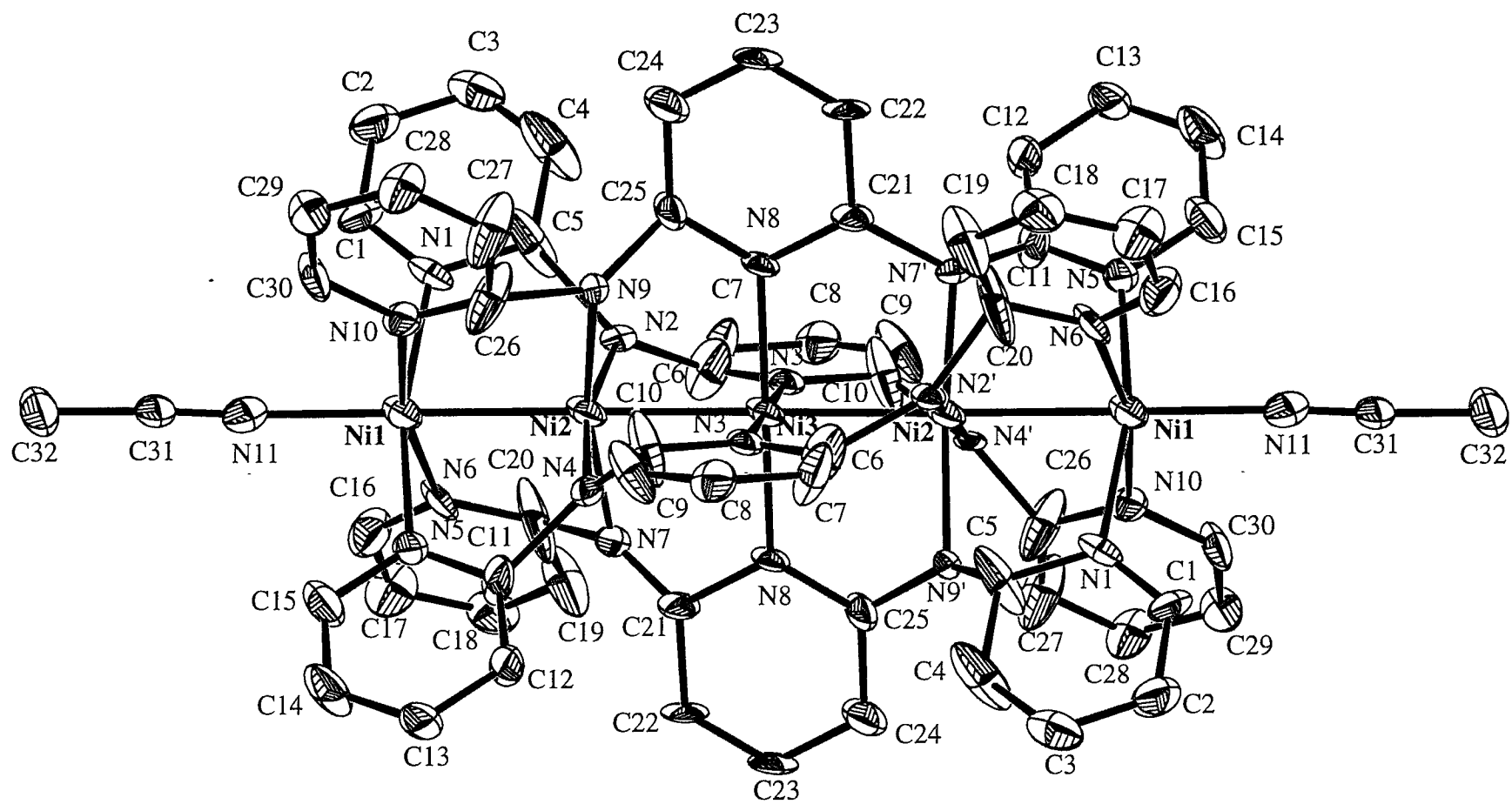


Figure S3

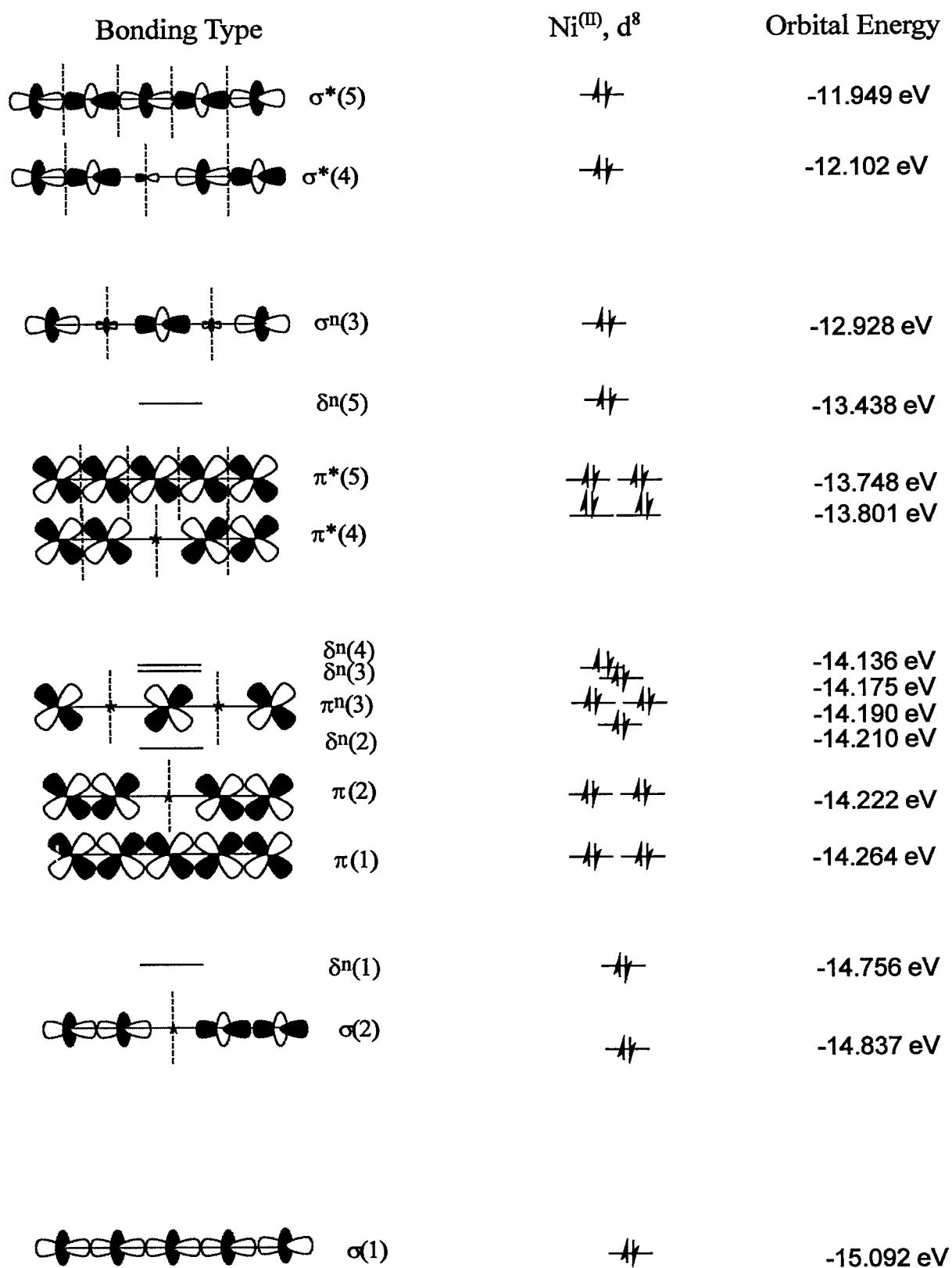


Figure S4: Molecular Orbital Diagram of Five Linear Ni₅ system for [Ni₅(tpda)₄(NCS)₂] Complexes

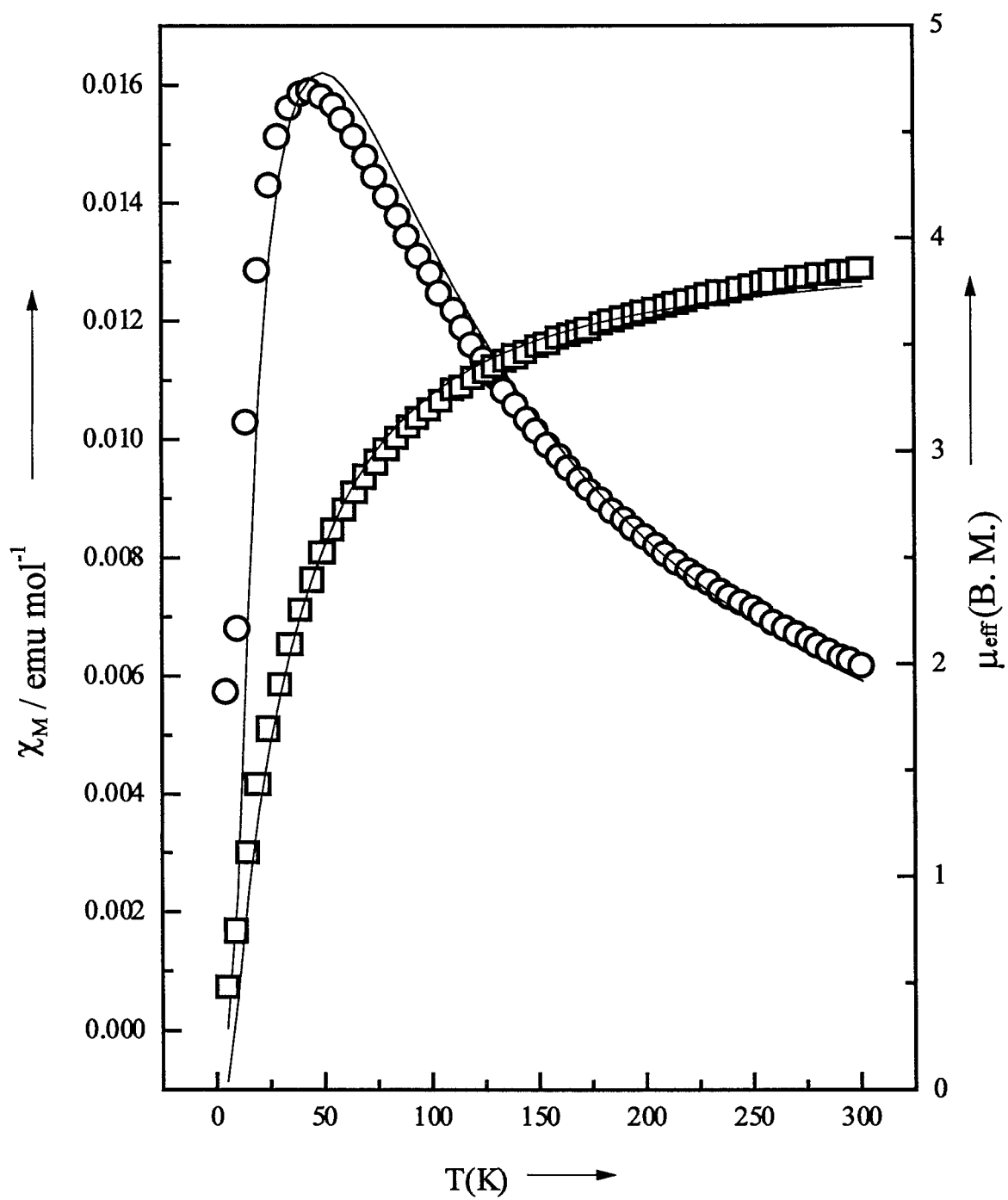


Figure S5

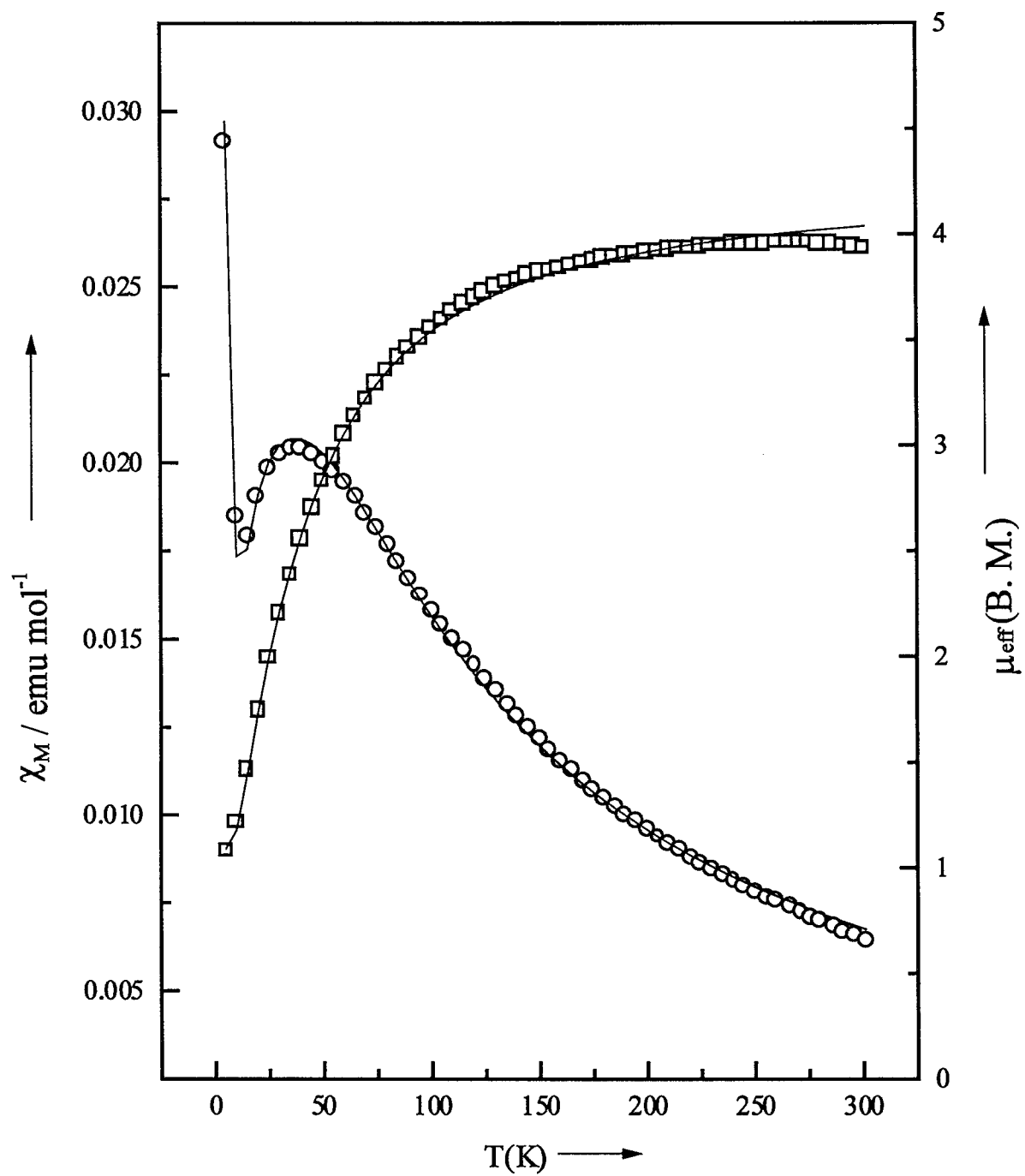


Figure S6

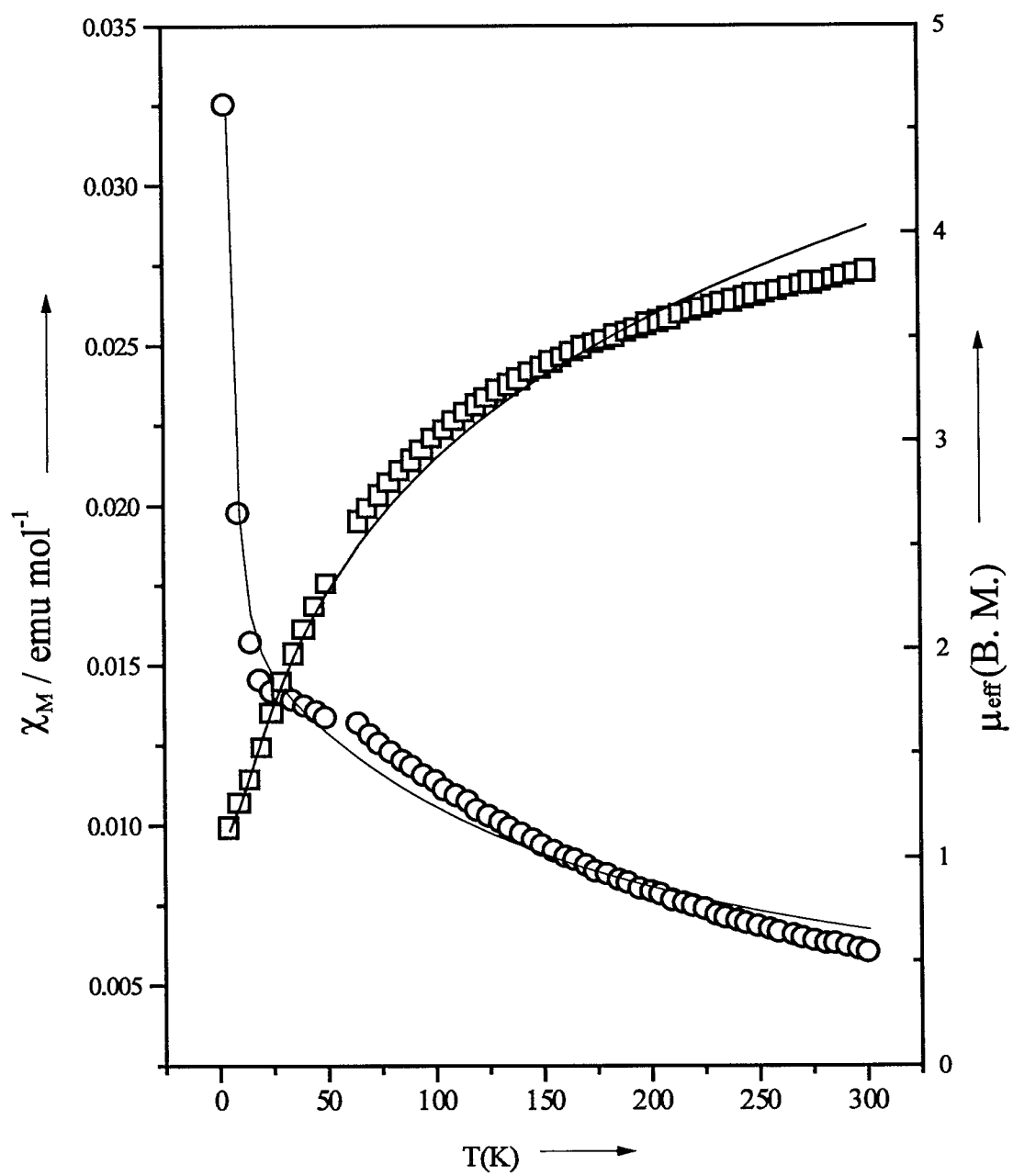


Figure S7