

Supplementary

End-grafted Cu-NNN pincer complexes on PAMAM dendrimers-SiO₂: synthesis and characterization

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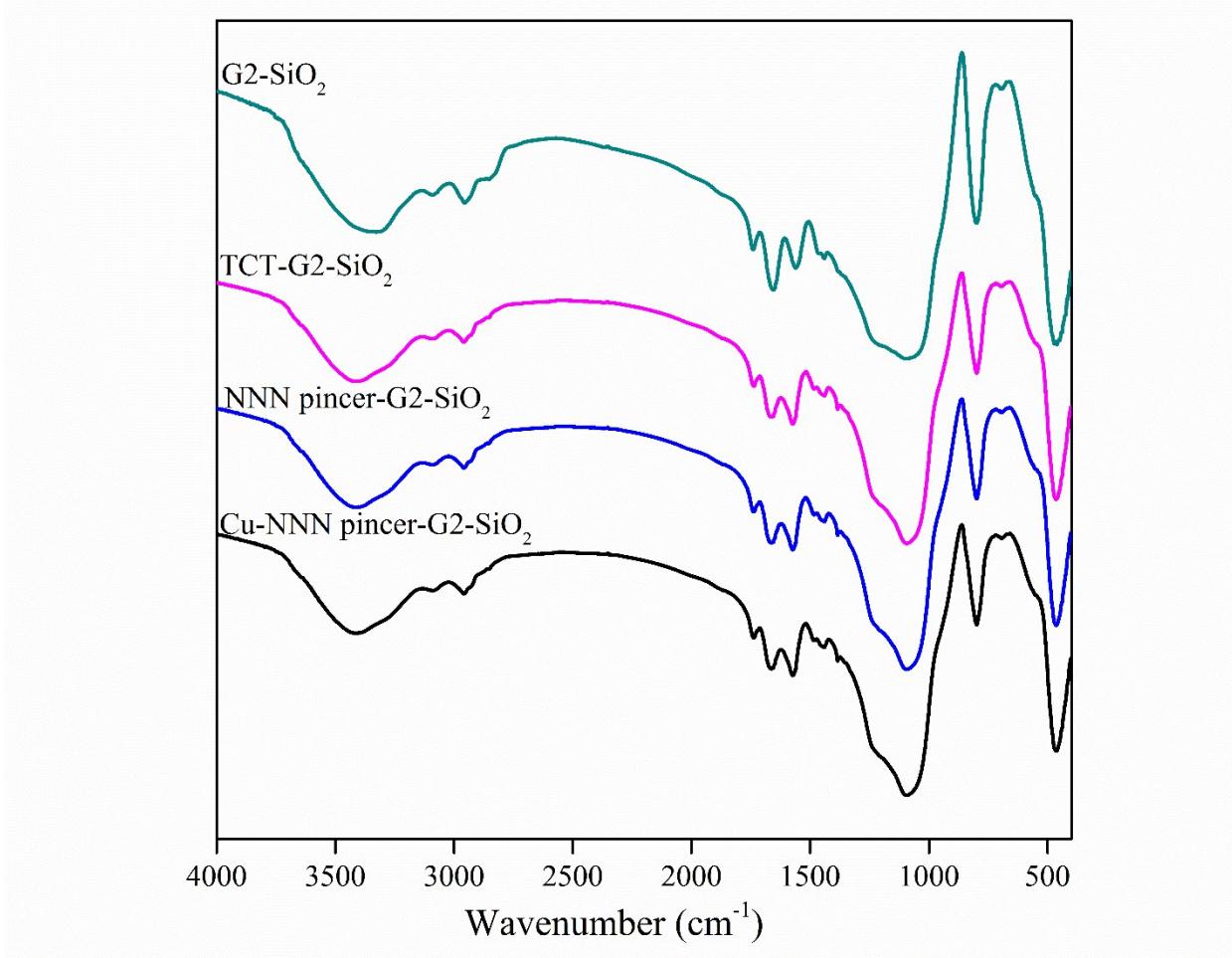


Figure S1 FTIR spectra of G2-SiO₂, TCT-G2-SiO₂, NNN pincer-G2-SiO₂ and Cu-NNN pincer-G2-SiO₂.

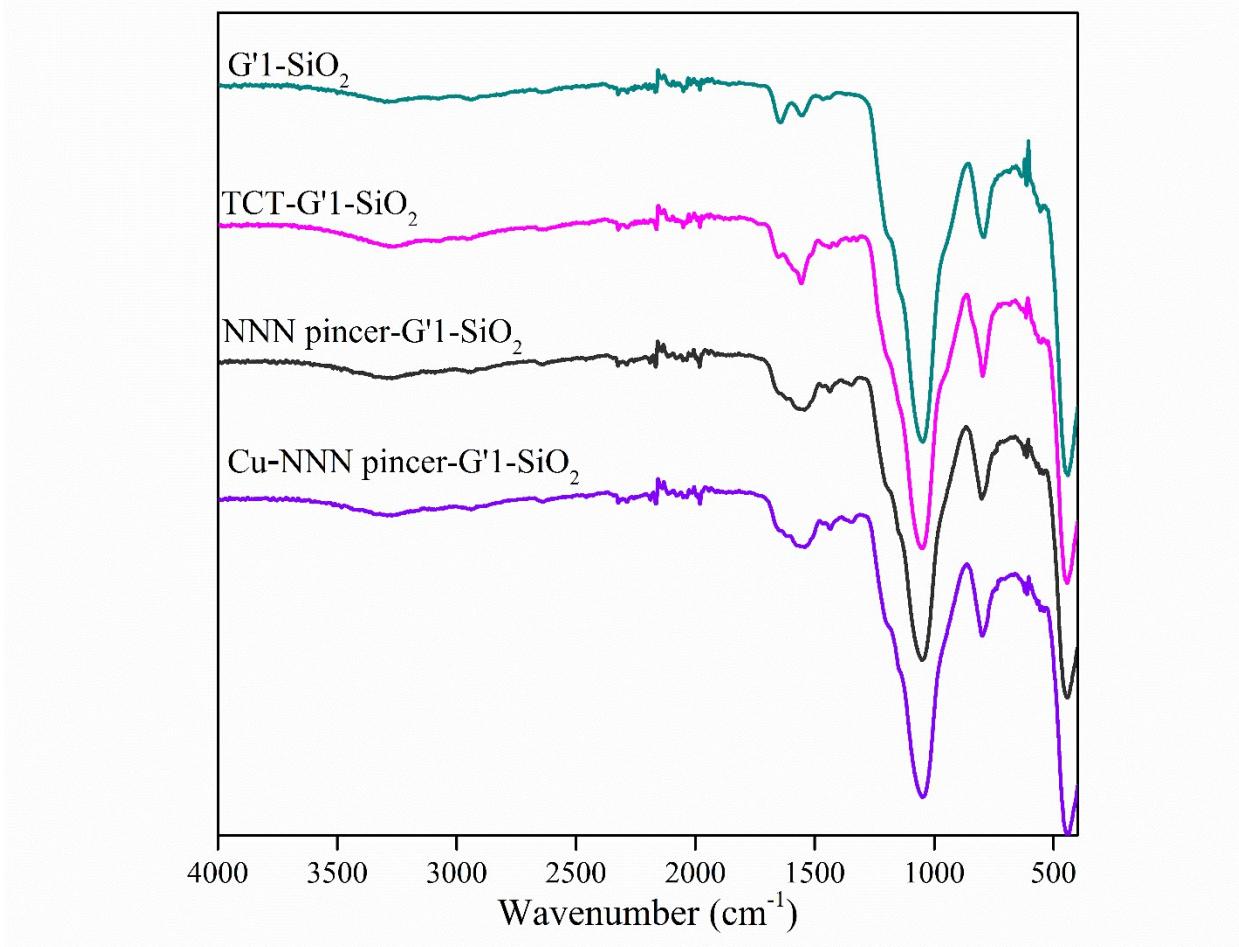


Figure S2 FTIR spectra of G'1-SiO₂, TCT-G'1-SiO₂, NNN pincer-G'1-SiO₂ and Cu-NNN pincer-G'1-SiO₂.

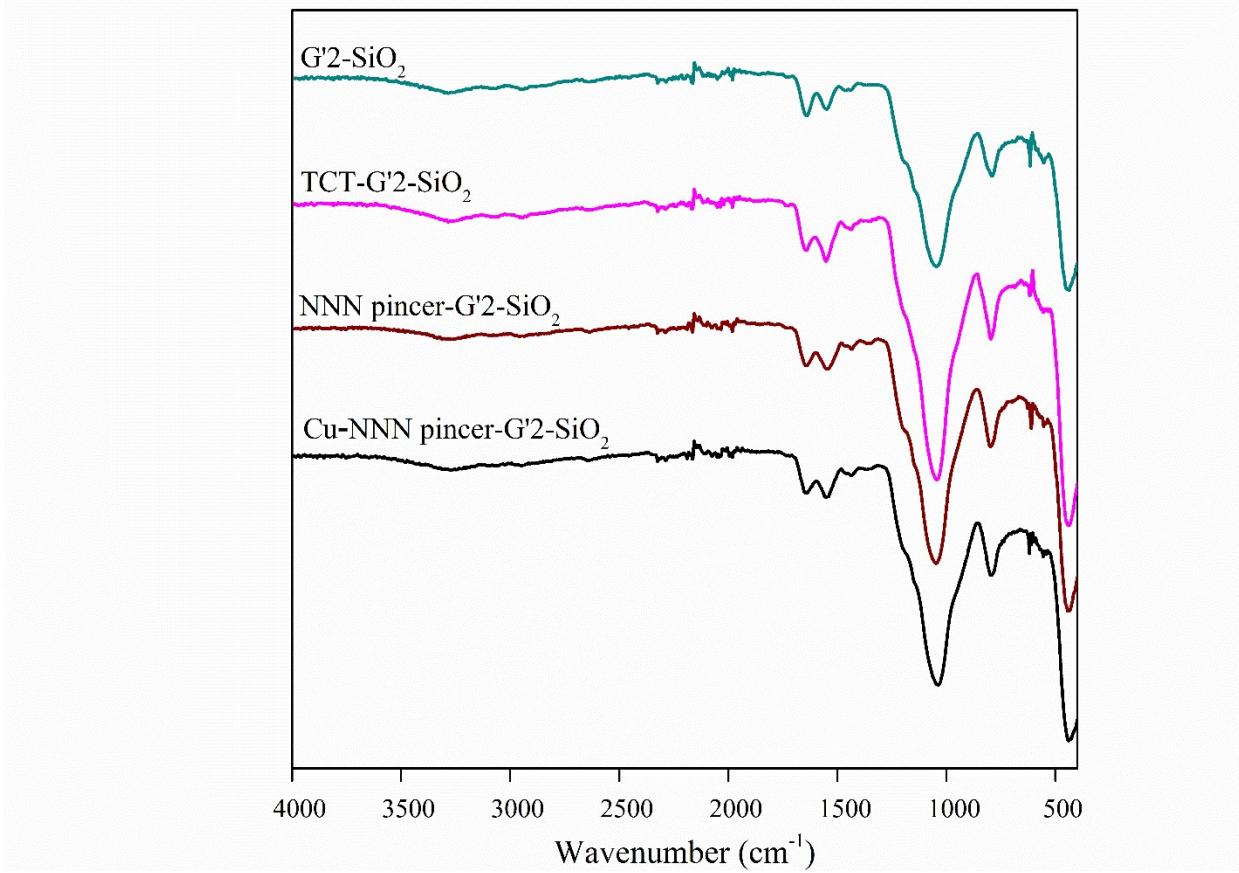


Figure S3 FTIR spectra of G'2-SiO₂, TCT-G'2-SiO₂, NNN pincer-G'2-SiO₂ and Cu-NNN pincer-G'2-SiO₂.

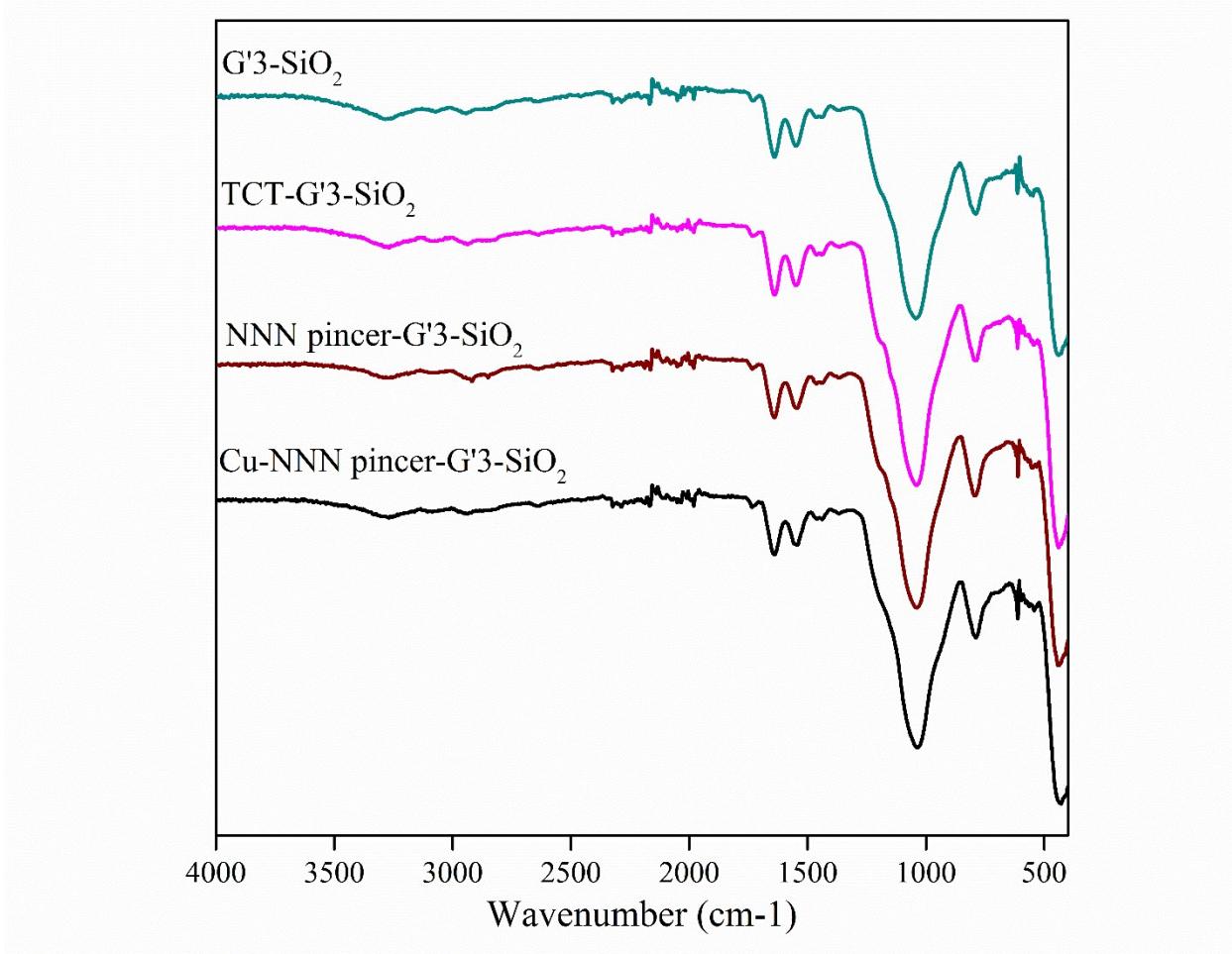


Figure S4 FTIR spectra of G'3-SiO₂, TCT-G'3-SiO₂, NNN pincer-G'3-SiO₂ and Cu-NNN pincer-G'3-SiO₂.

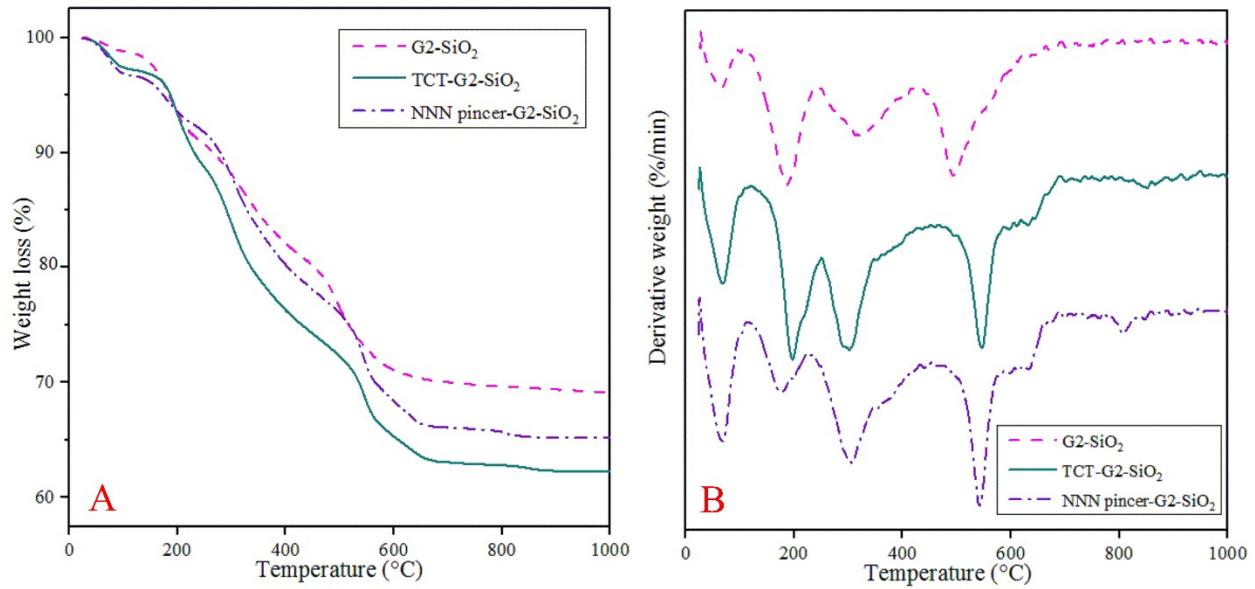


Figure S5 (A): TGA curves, (B): DTG curves of G2-SiO₂, TCT-G2-SiO₂, NNN pincer-G2-SiO₂.

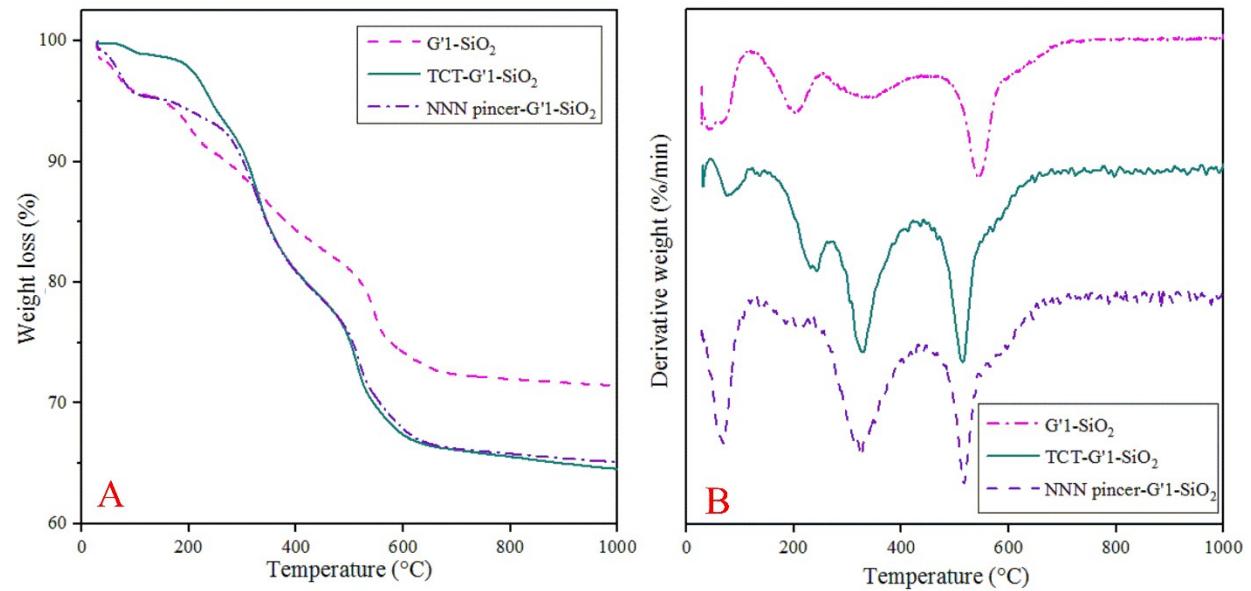


Figure S6 (A): TGA curves, (B): DTG curves of G'1-SiO₂, TCT-G'1-SiO₂, NNN pincer-G'1-SiO₂.

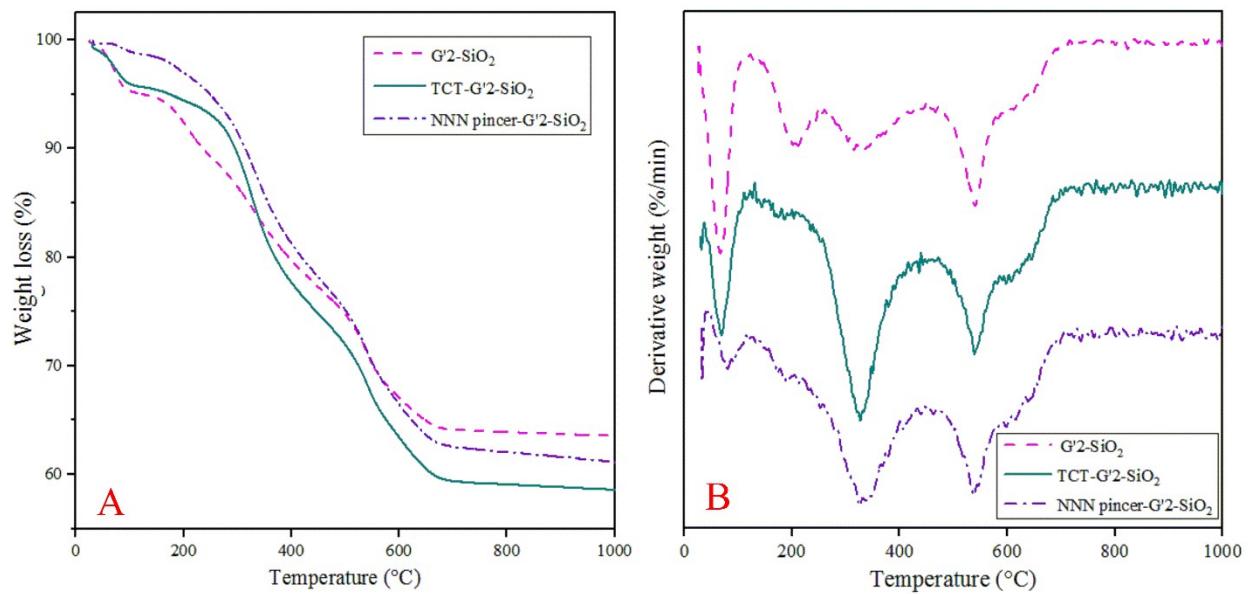


Figure S7 (A): TGA curves, (B): DTG curves of G'2-SiO₂, TCT- G'2-SiO₂, NNN pincer- G'2-SiO₂.

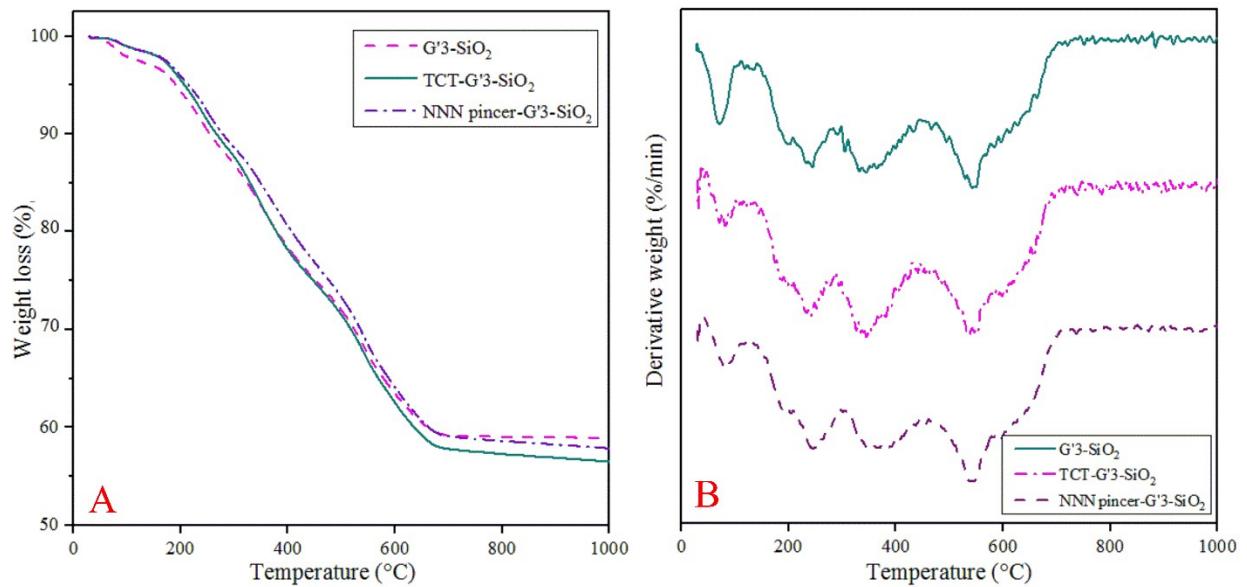


Figure S8 (A) TGA curves, (B) DTG curves of G'3-SiO₂, TCT- G'3-SiO₂, NNN pincer- G'3-SiO₂.

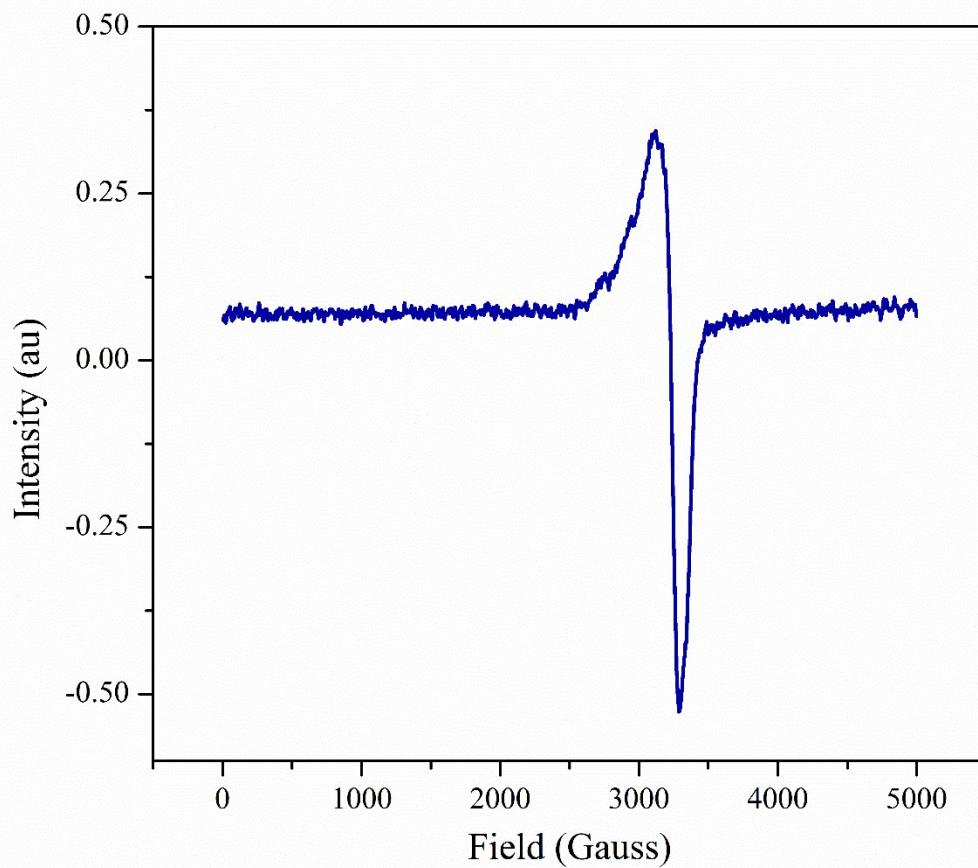


Figure S9 EPR spectrum of Cu-NNN pincer-G1-SiO₂

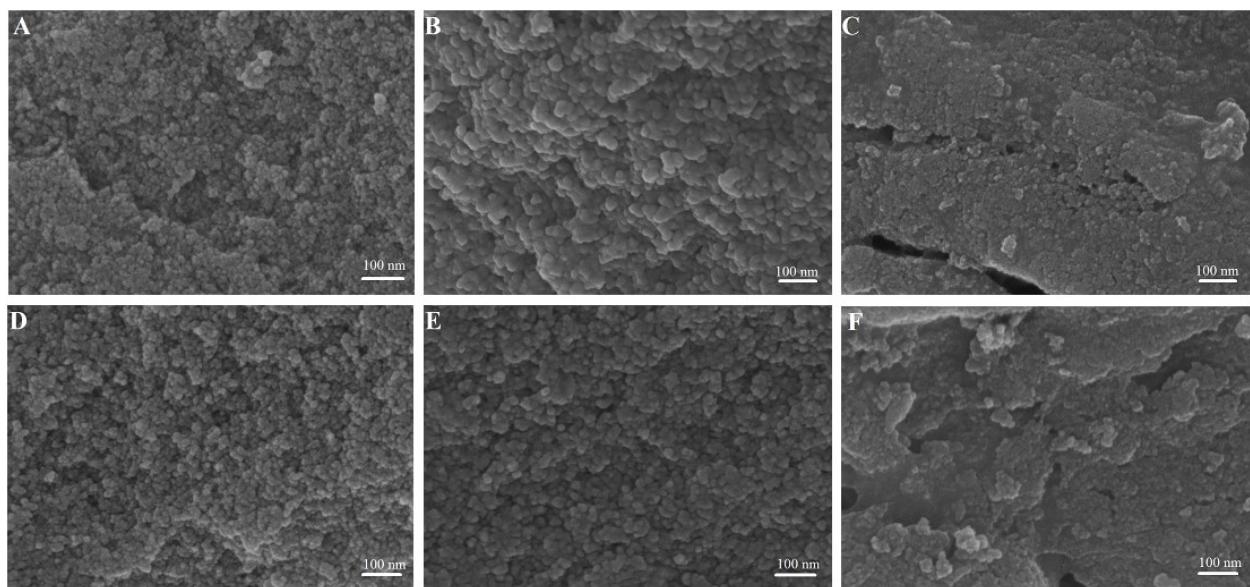


Figure S10 SEM images of A: TCT-G1-SiO₂, B: NNN pincer- G1-SiO₂, C: Cu-NNN pincer- G1-SiO₂
D: TCT-G2-SiO₂, E: NNN pincer- G2-SiO₂, F: Cu-NNN pincer- G2-SiO₂.

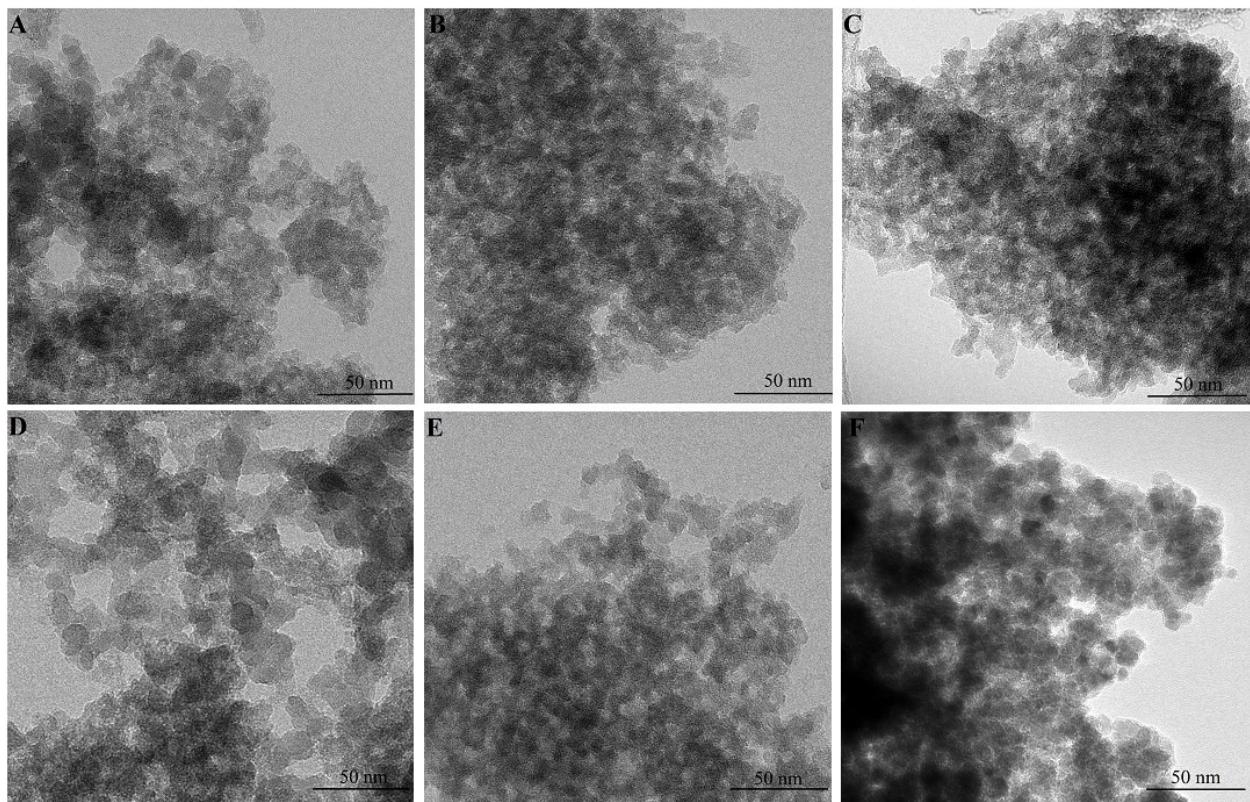


Figure S11 TEM images of A: TCT-G1-SiO₂, B: NNN pincer- G1-SiO₂, C: Cu-NNN pincer- G1-SiO₂
D: TCT-G2-SiO₂, E: NNN pincer- G2-SiO₂, F: Cu-NNN pincer- G2-SiO₂.

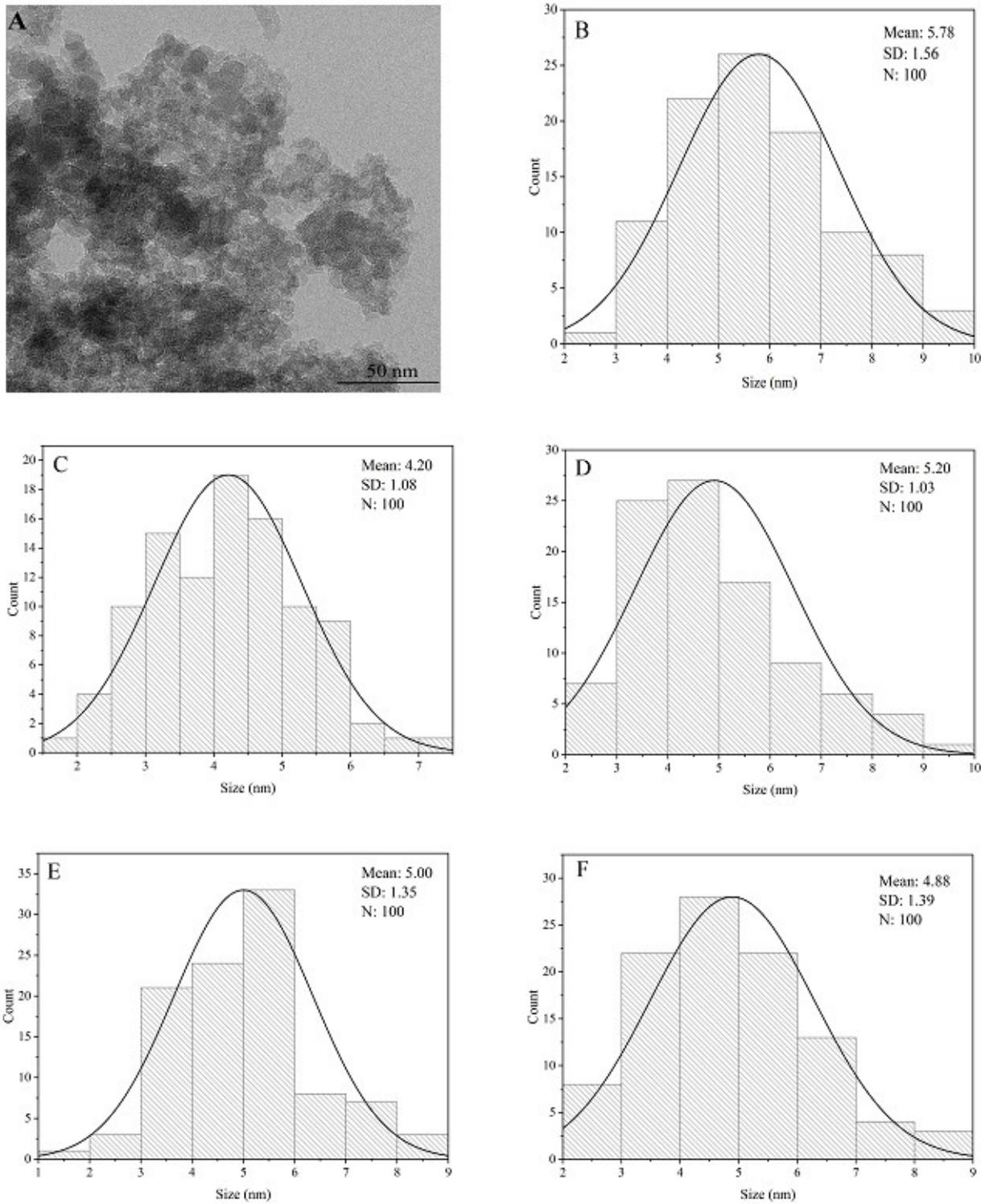


Figure S12 A: TEM image of silica gel, Histogram of B: silica gel, C: G1-SiO₂, D: Cu-NNN pincer- G1-SiO₂, E: G2-SiO₂, F: Cu-NNN pincer- G2-SiO₂.