From discrete linear Zn^tBu_2 molecules to 1D coordination polymers and 2D fabrics.

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Streszczenie

We have authenticated the molecular and crystal structure of Zn^tBu_2 and constructed the unprecedented 2D fabric structure using the *tert*-butylzinc molecules and 1,2-bis(4-pyridyl)ethane as building blocks. The X-ray crystal structure analysis revealed that the inorganic−organic polymeric chains were weaving to form the fabric structure by the concerted C−H···π interactions involving the pyridine rings. Subtle factors governing self-assembly processes leading to a fabric structure are discussed.

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