

METHOD FOR PREPARING A MAGNETIC CHAIN STRUCTURE**ABSTRACT**

5 A method for preparing a magnetic chain structure is provided. The method comprises providing a plurality of magnetic particles; dispersing the plurality of magnetic particles in a solution comprising a dopamine-based material to form a reaction mixture; applying a magnetic field across the reaction mixture to align the magnetic particles in the reaction mixture; and polymerizing the dopamine-based material on the aligned magnetic particles to
10 obtain the magnetic chain structure. A magnetic chain structure prepared by the method is also provided.

FIG. 2

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