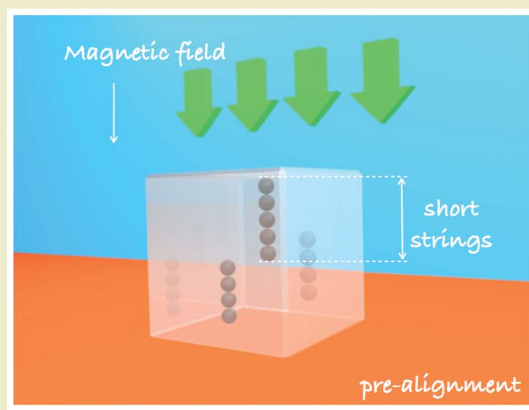
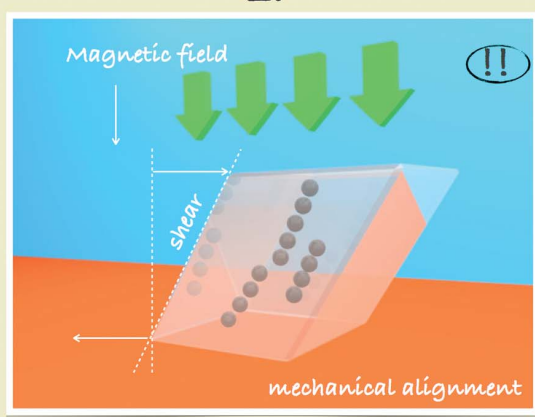


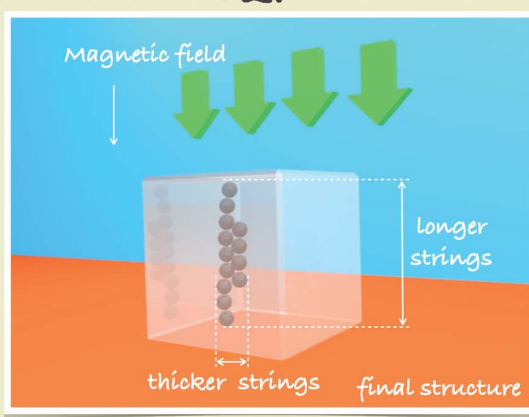
1.



→ 2.



3.



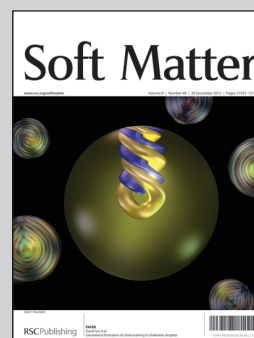
4.

Highlighting research results from Laboratory on NanoStructured Materials (NSM) - Department of Chemical Engineering at Delft University of Technology (The Netherlands).

Title: Direct observation of particle rearrangements during cyclic stress hardening of magnetorheological gels

Using a special device that allows us to directly observe the displacements of magnetic particles in a gel matrix under shear and magnetic field, we were able to identify families of local particle rearrangements as the mechanism responsible for gel cyclic strain-hardening in the presence of a magnetic field. All directly observed rearrangements including particle string breaking seem to be fully reversible after removal of the magnetic field.

As featured in:



See Eduardo Mendes *et al.*,
Soft Matter, 2012, **8**, 11995.