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Authors: Ji Su An, Wen Jiao Han, Hyoung Jin Choi

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Synthesis of hollow magnetite nanoparticles via self-assembly and their magnetorheological properties

Ji Su An, Wen Jiao Han, Hyung Jin Choi*

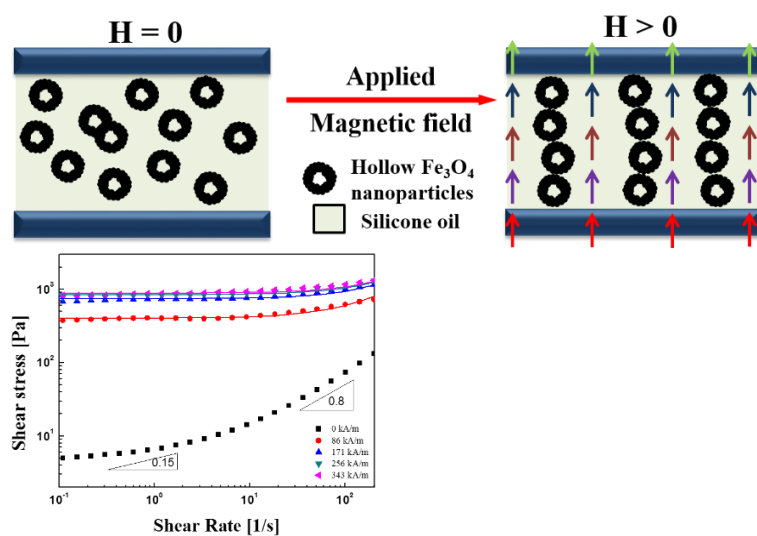
Department of Polymer Science and Engineering, Inha University, Incheon 22212, Korea

*Corresponding author: Tel: +82-32-860-7486, Fax: +82-32-865-5178,

E-mail: hjchoi@inha.ac.kr

Graphical Abstract

Hollow spherical-shaped Fe_3O_4 nanoparticles were synthesized using a solvothermal method and dispersed in silicone oil to fabricate the magnetorheological (MR) fluid and measure the MR characteristics using a rotational rheometer. The fabricated MR fluid showed typical Bingham behavior under various magnetic field strengths.



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