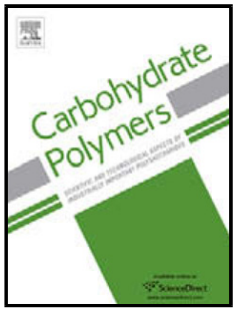

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Chiroplasmonic Magnetic Gold Nanocomposites Produced by One-Step Aqueous Method Using κ-Carrageenan

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Highlights

- 1. Chiroplasmonic magnetic nanocomposites on the base of κ-carrageenan were synthesized
- 2. The κ-carrageenan serves as both a reducing and stabilizing matrix for forming AuNPs
- 3. The nanocomposites exhibit magnetic properties caused by both κ-CG and AuNPs
- 4. Chiroptical properties of nanocomposites are due to a synergy of AuNPs and κ-CG shell

Graphical abstract