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# Chiroplasmonic Magnetic Gold Nanocomposites Produced by One-Step Aqueous Method Using $\kappa$ -Carrageenan

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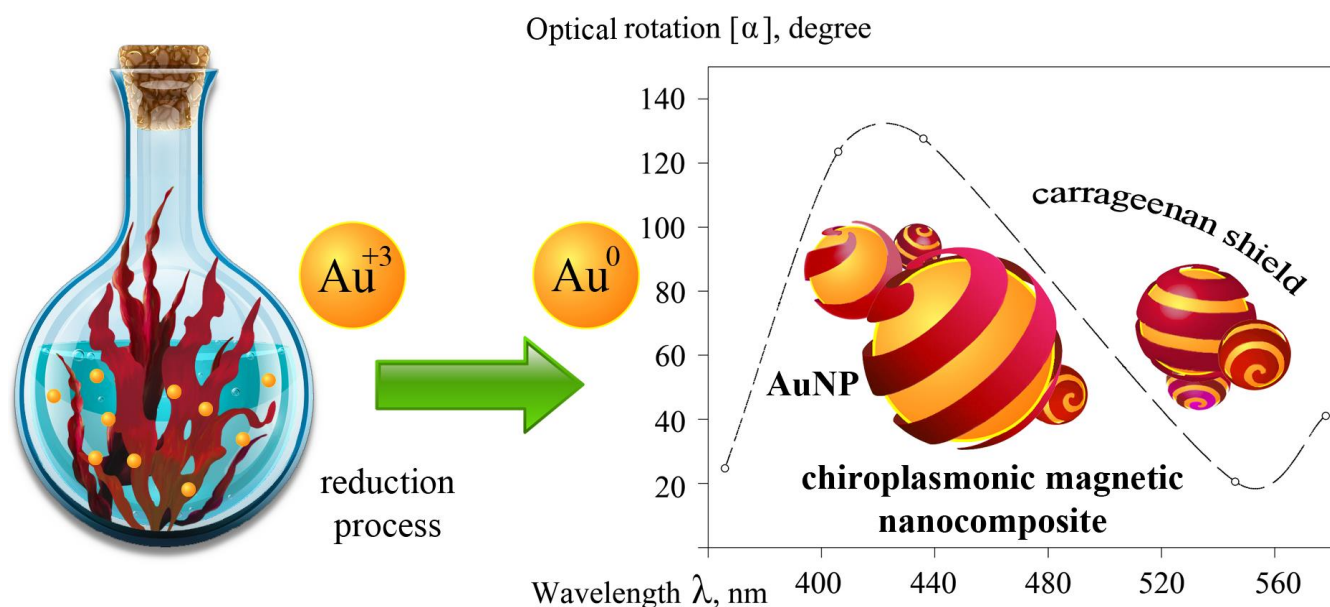
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## Highlights

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

## Graphical abstract



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