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Magnetic ordered mesoporous carbon materials for adsorption of minocycline from aqueous solution: Preparation, characterization and adsorption mechanism

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Highlights

- A series of magnetically ordered mesoporous carbon materials were synthesized.
- The pore sizes of carbon materials could be adjusted by adding cyanoguanidine.
- Fe₃O₄-OMC-1.5 could be regenerated after adsorption, showing great recyclability.
- Adsorption was affected by environmental conditions, such as temperature and pH.
- Adsorption isotherms and kinetics were comprehensively investigated.

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