

Accepted Manuscript

Title: Continuous flow adsorption of ciprofloxacin by using a nanostructured chitin/graphene oxide hybrid material

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PII: S0144-8617(18)30159-0
DOI: <https://doi.org/10.1016/j.carbpol.2018.02.021>
Reference: CARP 13283

To appear in:

Received date: 29-11-2017
Revised date: 5-2-2018
Accepted date: 6-2-2018

Please cite this article as: González, Joaquín Antonio., Bafico, Jonathan Germán., Villanueva, María Emilia., Giorgieri, Sergio Alejandro., & Copello, Guillermo Javier., Continuous flow adsorption of ciprofloxacin by using a nanostructured chitin/graphene oxide hybrid material. *Carbohydrate Polymers* <https://doi.org/10.1016/j.carbpol.2018.02.021>

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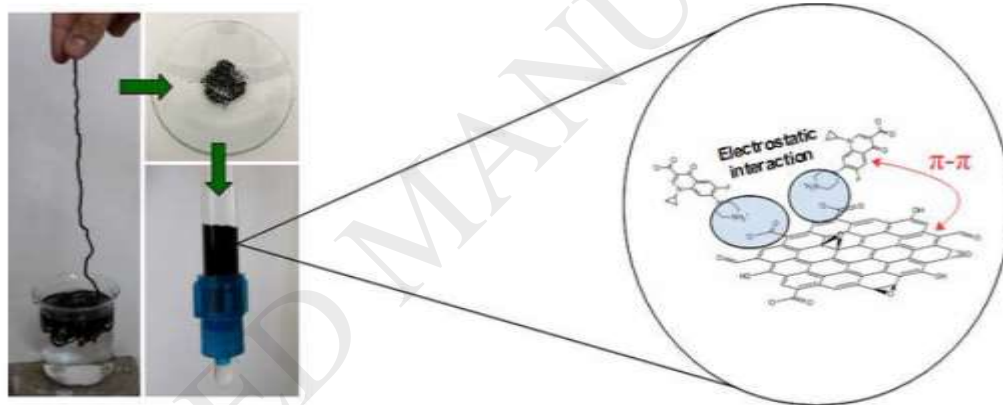
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Graphical abstract



Highlights

- Chitin:nGO hybrid is used as ciprofloxacin continuous adsorbent for the first time.
- Components' source and matrix reusability make this material a low-cost adsorbent.
- The material adsorption performance is strongly dependent of medium pH.
- The chitin:nGO probes to be applicable to real water samples.

Abstract

A novel nanostructured material was successfully developed by combining a chitin matrix with graphene oxide nanosheets (Chi:nGO) and then used for the continuous flow adsorption of ciprofloxacin. The spectroscopic characterization indicated that none covalent interaction between both components would be occurring and the introduction of nGO did not interfere in chitin nanostructure

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