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Author: Upama Baruah Neelam Gogoi Gitanjali Majumdar  
Devasish Chowdhury



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1  $\beta$ -cyclodextrin and calix[4]arene-25,26,27,28-tetrol  
2 capped Carbon Dots prepared from chitosan gel for  
3 selective and sensitive detection of fluoride

4 *Upama Baruah<sup>a</sup>, Neelam Gogoi<sup>a</sup>, Gitanjali Majumdar<sup>b\*</sup> and Devasish Chowdhury<sup>a\*</sup>*

5 <sup>a</sup> *Physical Sciences Division, Polymer Unit, Institute of Advanced Study in Science and Technology,*  
6 *Paschim Boragaon, Garchuk, Guwahati-781035, India. Fax: +91 361 2279909; Tel: +91 361 2912073;*

7 *E-mail: devasish@iasst.gov.in*

8 <sup>b</sup> *Department of Chemistry, Assam Engineering College, Jalukbari, Guwahati-781013, India. Fax: +91*  
9 *361 2572215; Tel: +91 3612570550;*

10 *E-mail: gitanjalic@gmail.com*

11 **Highlights**

- 12 • Fluorescent carbon dots(CDs) were prepared from chitosan gel.
- 13 • CDs were capped with  $\beta$ -cyclodextrin( $\beta$ -cd) and calix[4]arene-25,26,27,28-tetrol(C[4]A).
- 14 • The capped systems were used for detection of fluoride ions in aqueous media.
- 15 • The detection was found to be selective towards fluoride ions.

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