**Supporting Information for:**

# Facile and Efficient Self-template Synthesis of core-coronal-shell ZnO@ZIF-8 nanohybrid using Ascorbic acid and its application for arsenic removal

Mahboube Ghahramaninezhad*, Mahdi Niknam Shahrak*

Department of Chemical Engineering, Quchan University of Technology, Quchan, Iran

Table S1. Average concentration of As (v) after mixing with ZnO@AA/ZIF-8 for 1 h at room temperature

**SPECTRO**

| | |
|---|---|
| Printing Date: | 25/01/2019 14:48:09 |
| Current User: | spectro |

| | | | |
|---|---|---|---|
| Method Name: | METHOD OF As-1.11.97-nev | Creation Date: | 2019-01-20 14:11:47 |
| Method Autor: | spectro | Last Change: | 2019-01-25 14:30:26 |

| Sample Name: SAMPLE3 | | | | Sample Type: Unknown Sample | | |
|---|---|---|---|---|---|---|
| Measure Date: 2019-01-21 15:1 | Recalc. Date: | | State: Measured | Quality: Drifted | Total Dilution: 1.000000 | |
| **Sample Identification** | | | | | | |
| Sample Name | | | | | | |
| SAMPLE3 | | | | | | |

| | As | | | | | | |
|---|---|---|---|---|---|---|---|
| Conc 1 | 0.161[mg/l] | | | | | | |
| Conc 2 | 0.169[mg/l] | | | | | | |
| Conc MinRange | 0.004[mg/l] | | | | | | |
| Conc Mean | 0.165[mg/l] | | | | | | |
| Conc MaxRange | 2.400[mg/l] | | | | | | |
| Reported | 0.165[mg/l] | | | | | | |

*Corresponding Authors: Department of Chemical Engineering, Quchan University of Technology, Quchan, 94771-67335, Iran
ghahramaninezhad.m@gmail.com and M.niknam.sh@qiet.ac.ir & Mehdiniknam.sh@gmail.com

Table S2. Average concentration of As (v) after mixing with pristine ZnO for 1 h at room temperature

| Sample Name: DARVISHI 2 | | | | Sample Type: Unknown Sample | | |
|---|---|---|---|---|---|---|
| Measure Date: 2018-12-29 15:0 | Recalc. Date: | | State: Measured | Quality: Drifted | Total Dilution: 1.000000 | |
| Sample Identification | | | | | | |
| Sample Name | dilution | weight | volume | | | |
| DARVISHI 2 | 1.000000 | 0 | 0 | | | |

| | As 193.759 | | | | | |
|---|---|---|---|---|---|---|
| Conc 1 | 2.223[mg/l] | | | | | |
| Conc 2 | 2.126[mg/l] | | | | | |
| Conc MinRange | 0.003[mg/l] | | | | | |
| Conc Mean | 2.175[mg/l] | | | | | |
| Conc MaxRange | 2.400[mg/l] | | | | | |
| Reported | --- | | | | | |