Sequential abatement of Fe^{II} and Cr^{vI} water pollution by use of walnut shell-based adsorbents



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Figure S1. FTIR spectra of fresh WSP



Figure S2. FTIR spectra of WSP-Fe^{II}



Figure S3. FTIR spectra of fresh WSP-Fe(0)



Figure S4. FTIR spectra of Cr(VI)-loaded WSP-Fe(0)



Figure S5. FTIR spectra of Cr(VI)-loaded WSP





Figure S7. SEM micrograph of Fe(II)-loaded WSP





Figure S9. SEM micrograph of Cr(VI)-loaded WSP-Fe(0)



Figure S10. SEM micrograph of Cr(VI)-loaded WSP









Figure S16. Image of WSP (1) and WSP-Fe 0 (2).

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	Guideline value
Cu	2 mg/L
Total Cr	50 μg/L
Cd	3 µg/L
Ni	70 μg/L
Pb	10 µg/L
Hg	6 µg/L

Table S1. Word Health Organization maximum permissible limits of some heavy metals in drinking water [1].

References

1. World Health Organization. Guidelines for drinking-water quality: fourth edition incorporating the first addendum. Geneva, 2017. Licence: CC BY-NC-SA 3.0 IGO.