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Patents & Publications:

Patents

1. E.P.L. Roberts, N.W. Brown, **S.N. Hussain**. Adsorption of contaminants from liquid and electrochemical regeneration of adsorbent. Patent application no. 20120228230, dated 13th September 2012.

Journal Articles

1. **S.N. Hussain**, H.M.A. Asghar, H. Sattar, E.P.L. Roberts, (2014). Electrochemical regeneration of various graphitic adsorbents in an air agitated sequential batch reactor. *Chemical Engineering and Science*, 2(2), 24-29
2. **S.N. Hussain**, H.M.A. Asghar, H. Sattar, N.W Brown & E.P.L, (2014) Roberts. Chlorinated breakdown products formed during oxidation of adsorbed phenol by electrochemical regeneration of a graphite intercalation compound. *Electrochimica Acta*, article under review. **IF=3.777**
3. **S.N. Hussain**, H.M.A. Asghar, H. Sattar, E.P.L. Roberts, (2014). Removal of Tartrazine-a hazardous dye from water by adsorption using a graphite intercalation compound with electrochemical regeneration. *Chemical Engineering Communications*, Accepted. **IF=1.052**
4. H.M.A. Asghar, **S.N. Hussain**, H.Saattar, N.W. Brown & E.P.L. Roberts, (2014). Mercaptan's removal from aqueous solution using modified graphite based adsorbent through batch-wise adsorption-regeneration. *Chemical Engineering Communications*, accepted.
5. H.M.A. Asghar, **S.N. Hussain**, N.W. Brown, E.P.L. Roberts. Synthesis of electrically conducting adsorbents for wastewater treatment using adsorption and electrochemical regeneration. *Journal of industrial & Engineering Chemistry*. 20(2014) p. 781-786. **IF= 2.145**
6. H.M.A. Asghar, **S.N.Hussain**, H. Sattar, N.W. Brown, E.P.L. Roberts, (2014). Electrochemically synthesized GIC-based adsorbents for water treatment using

adsorption and electrochemical regeneration. *Journal of Industrial & Engineering Chemistry*, 20, 2200-2207. **IF= 2.145**

7. H.M.A. Asghar, **S.N. Hussain**, H. Sattar, N.W. Brown, E.P.L. Roberts, (2014). Environmentally friendly preparation of exfoliated graphite. *Journal of industrial & Engineering Chemistry*, 20, 1936-1941. **IF= 2.145**
8. H.M.A. Asghar, **S.N. Hussain**, A.K. Campen, N.W. Brown, E.P.L. Roberts, (2014). Improved Phenol Adsorption from Aqueous Solution using Electrically Conducting Adsorbents. *Korean Journal of Chemical Engineering*, 31(5), 834-840. **IF=1.059**
9. **S.N. Hussain**, N. Heras, N.W. Brown, E.P.L. Roberts, (2014). Disinfection of water by adsorption combined with electrochemical treatment. *Water Research*, 54, 170-178.
IF= 4.655
10. H.M.A. Asghar, **S.N.Hussain**, H. Sattar, N.W. Brown, E.P.L. Roberts, (2014) Potential graphite materials for the synthesis of GICs. *Chemical Engineering Communications*, accepted for publication. DOI: 10.1080/00986445.2013.850580. **IF=1.052**
11. **S.N. Hussain**, E.P.L. Roberts, H.M.A. Asghar, A.K. Campen and N.W. Brown, (2013). Oxidation of phenol and the adsorption of breakdown products using a graphite adsorbent with electrochemical regeneration, *Electrochimica Acta*, 92, 20-30. **IF=3.777**
12. H.M.A. Asghar, **S.N. Hussain**, A.K. Campen, N.W. Brown, E.P.L. Roberts, (2013). Pretreatment of adsorbents for wastewater treatment using adsorption coupled with electrochemical. *Journal of industrial & Engineering Chemistry*, 19, 1689-1696. **IF=2.145**
13. **S.N. Hussain**, H.M.A. Asghar, A.K. Campen, E.P.L. Roberts, (2013). Breakdown products formed due to oxidation of adsorbed phenol by electrochemical regeneration of a graphite adsorbent. *Electrochimica Acta*, 110, 550-559. **IF=3.777**
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15. H.M.A. Asghar, E.P.L. Roberts, **S.N. Hussain**, A.K. Campen & N.W. Brown, (2012). Wastewater treatment by adsorption with electrochemical regeneration using graphite-based adsorbents. *Journal of Applied Electrochemistry*, 42, 797-807
16. M.G. Conti-Ramsden, H.M.A. Asghar, **S.N. Hussain**, E.P.L. Roberts & N.W. Brown, (2012). Removal of mercaptans from a gas stream using continuous adsorption-regeneration. *Water Science and Technology*, 66(9), 1849-1855. **IF=1.102**
17. Arshid M.Ali, Ayaz Muhammad, Amir Shafiq, Hafiz M.A.Asghar, **Syed N.Hussain** and Hamid Sattar, (2012). Doped Metal Oxide (ZnO) and Photocatalysis: A review. *Journal of Pakistan Institute of Chemical Engineers*, 40(1), 11-19.
18. M.R Usman, **S.N.Hussain**, H.M.A.Asghar, H.Sattar and A. Ijaz, (2011). Liquid-Liquid extraction of acetic acid from an aqueous solution using a laboratory scale sonicator. *Journal of Quality and Technology Management*, 2(2), 115-121.

19. M.R. Usman, H. Sattar, **S.N. Hussain**, H.M.A. Asghar & W. Afzal, (2009). Drop Size in Liquid Pulsed Sieve-plate Extraction Column. *Brazilian Journal of Chemical Engineering*, 26 (4), 677-687.
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22. H. Sattar, **S.N. Hussain**, H.M.A. Asghar, A. Chughtai & M.A. Butt (2006). Production and Characterization of Activated Carbon from Indigenous Coal (Lakhra Coal). *Journal of Faculty of Engineering and Technology*, 79-86.