List of Publications

1. Electrical conductivity and ion-exchange kinetic studies of a crystalline type ‘organic-inorganic’ cation-exchange material: polypyrrole/polyantimonic acid composite system, (Sb₂O₃) (C₄H₂NH-). nH₂O

2. Preparation, characterization and analytical applications of a new and novel electrically conducting fibrous type polymeric-inorganic composite material: polypyrrole Th(IV) phosphate used as a cation-exchanger and Pb(II) ion-selective membrane electrode

3. Determination and separation of Pb²⁺ from aqueous solutions using a fibrous type organic-inorganic hybrid cation-exchange material: polypyrrole Thorium(IV) phosphate
   This paper was selected for the award of top 25 best research articles by the publisher.

4. Preparation, physico-chemical characterization, analytical applications and electrical conductivity measurement studies of an ‘organic-inorganic’ composite cation-exchanger: polyaniline Sn(IV) phosphate

5. Applications of Hg(II) sensitive polyaniline Sn(IV) phosphate composite cation-
exchange material in determination of $\text{Hg}^{2+}$ from aqueous solutions and in making ion-selective membrane electrode


6. Cation-exchange kinetics and electrical conductivity studies of an ‘organic-inorganic’ composite cation-exchanger: polypyrrole $\text{Th(IV)}$ phosphate


7. Synthesis, characterization and ion-exchange properties of a new and novel ‘organic-inorganic’ hybrid cation-exchanger: Nylon-6,6, $\text{Zr(IV)}$ phosphate


8. Some physicochemical properties of unsaturated polyester resins derived from poly(ethylene terephthalate) waste soft drinking bottles

Hussain Abbas, Fareed Mahdi, Inamuddin, and Asif Ali Khan* (Submitted after revision).

9. Cation-exchange kinetics on ployaniline $\text{Sn(IV)}$ phosphate cation-exchanger for various metal ions


10. Organic-inorganic composite cation-exchanger: poly-o-toluidine $\text{Zr(IV)}$ phosphate based ion-selective membrane electrode for the potentiometric determination of mercury

11. Preparation and Characterization of a new organic-inorganic nano-composite poly-o-toluidine Th(IV) phosphate, its application as cation-exchanger and in making ion-selective membrane electrode


12. Thermodynamic studies for the adsorption of mancozeb pesticide on the surface of the polyaniline Sn(IV) phosphate organic-inorganic composite cation-exchanger


Husain Abbas*, Asif Ali Khanb, Fareed Mahdi*c, and Inamuddin (COMMUNICATED).

14. Synthesis and characterization of poly-o-toluidine Zr(IV) phosphate Hg(II) selective composite cation-exchanger