

Removal Of Lead Ii From Aqueous Solution Using Low Cost

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Activated carbon obtained from cones of European Black pine was employed as an adsorbent for removal of lead(II) ions from aqueous solution. This study revealed that the adsorption process fit well with the Langmuir isotherm and pseudo-second-order kinetic model. The monolayer adsorption capacity, q_{max} , calculated from Langmuir model is 27.53 mg/g. Optimum adsorbent dosage was established to be 2.0 mg/l.

[Removal of lead\(II\) ions from aqueous solutions by ...](#)

Removal of Lead(II) from Aqueous Solutions using Pre-boiled and Formaldehyde-Treated Onion Skins as a New Adsorbent. Separation Science and Technology 2011 , 46 (3) , 507-517.

[Removal of Lead\(II\) from Aqueous Solution by Adsorption on ...](#)

These initial Pb(II) ion solution. concentrations were 400, 600 and 800 mg/dm³, respectively. In the case of the 400 mg/dm³Pb(II) ion solution, known weights of the adsorbent (0.2 g) were added to each of 10 vials containing. Removal of Lead(II) Ions from Aqueous Solutions Using a Modified Cellulose Adsorbent339.

[Removal of Lead\(II\) Ions from Aqueous Solutions Using a ...](#)

Removal of Lead(II) Ions from Aqueous Solutions Using Manganese Oxide-coated Adsorbents: Characterization and Kinetic Study N. Boujelben*, J. Bouzid and Z. Elouear Laboratoire Eau Energie et Environnement, D\u00e9partement de G\u00e9nie G\u00e9ologique, Ecole Nationale d'Ing\u00e9nieurs de Sfax, BP 3038 Sfax, Tunisia.

[Removal of Lead\(II\) Ions from Aqueous Solutions Using ...](#)

Abstract In this work, the adsorption of lead(II) was studied on activated carbon prepared from Tamarind wood with zinc chloride activation. Adsorption studies were conducted in the range of 10–50 mg/l initial lead(II) concentration and at temperature in the range of 10–50 \u00b0C. The experimental data were analyzed by the Freundlich isotherm and the Langmuir isotherm.

[Removal of lead\(II\) from wastewater by activated carbon ...](#)

By virtue of the affinity of pyromellitic dianhydride (PMDA) for lead(II) ion (Pb 2+) and the inherent structural merits of electrospun nanofibrous membranes, a novel solid-phase nanofibrous material was facilely fabricated via the modification of deacetylated cellulose acetate membranes with PMDA (DCA-PMDA).The resultant DCA-PMDA can be applied for the simultaneous naked-eye detection and ...

[Simultaneous visual detection and removal of lead\(ii\) ions ...](#)

Removal of lead (II) and cadmium (II) from aqueous solutions were studied using Tridax procumbens (Asteraceae). Batch adsorption experiments were performed as a function of pH, contact time, solute...

[\(PDF\) Removal of lead\(II\) and cadmium\(II\) ions from ...](#)

Removal of lead (II) from aqueous solutions was studied by using pretreated fish bones as natural, cost-effective, waste sorbents. The effect of pH, contact time, temperature, and metal concentration on the adsorption capacities of the adsorbent was investigated.

Utilization to Remove Pb (II) Ions from Aqueous ...

Removal of lead(II) by adsorption using treated granular activated carbon: batch and column studies

Removal of lead(II) by adsorption using treated granular ...

REMOVAL OF LEAD(II) FROM AQUEOUS SOLUTION USING POLYACRYLONITRILE/ZINC OXIDE ACTIVATED CARBON NANOFIBERS (Penyingkiran Plumbum(II) daripada Larutan Akues Menggunakan Gentian Nano Karbon Teraktif Poliakrilonitril/Zink Oksida) Norfadhilatuladha Abdullah^{1,2}, Muhamad Hanis Tajuddin^{1,2}, Norhaniza Yusof^{1,2*}, Juhana Jaafar^{1,2},

REMOVAL OF LEAD(II) FROM AQUEOUS SOLUTION USING ...

Lead is deposited mostly in bones and in some soft tissues. Lead is also retaining by mammals in liver, kidney, muscles, etc. About 800 mg of lead create toxicity in human beings. The removal Pb (II) from industrial effluents is a major problem due to the difficulty in treating such waste waters by conventional treatment method.

Removal of lead(II) from wastewater by activated carbon ...

Removal of lead (II) from wastewater using active carbon of *Caryota urens* seeds and its embedded calcium alginate beads as adsorbents. *Journal of Environmental Chemical Engineering* 2018, 6 (4), 4298-4309. DOI: 10.1016/j.jece.2018.06.033.

Removal of Cu(II), Pb(II), and Ni(II) by Adsorption onto ...

Abstract: High concentration of heavy metals in the environment can be detrimental to a variety of living species. The purpose of this research was to explore the use of baobab (*Adsononia digitata*) fruit shells in the removal of lead(II) and copper(II) ions from aqueous solutions.

Removal of lead (II) and copper (II) ions from aqueous ...

The removal of heavy metals, especially from wastewater, has attracted significant interest because of their toxicity, tendency to bioaccumulate, and the threat they pose to human life and the envi...

Removal of Lead(II) Ions from Aqueous Solution Using ...

Abstract A novel ligand based conjugate material (CMA) was prepared for toxic lead (Pb (II)) ion monitoring and removal from aqueous solution. The organic ligand of 6- ((2-(2-hydroxy-1-naphthoyl)hydrazono)methyl)benzoic acid was successfully synthesized and then anchored onto the porous silica monolith.

Mesoporous composite material for efficient lead(II) ...

Therefore, efficient removal of non-degradable lead ions is extremely urgent and of great significance to environmental remediation. Up to now, great efforts have been devoted for lead ion removal, such as chemical precipitation [7] , [8] , electrochemical removal [9] , ion exchange [10] , adsorption [11] , etc., in which adsorption is commonly considered as an economical and effective method.

Amide-based covalent organic frameworks materials for ...

The removal of lead ions was rapid and the kinetic of sorption can be well described by pseudo-second order modelling. The Langmuir model conveniently fits the data of isotherm experiments and the monolayer sorption capacity of Pb(II) ions was determined as 71.43 mg/g at pH 6.0 and 25°C.

Removal of lead(II) from water using activated carbon ...

The results of this work indicate that the brown marine macroalga *C. baccata* constitute a promising material for the development of a low cost biosorption technology for the removal of lead(II) and cadmium(II) from water effluents. The fast kinetics of the adsorption process together with the high sorption capacities of this seaweed towards lead(II) and cadmium(II) can be compared favorably ...

The marine macroalga *Cystoseira baccata* as biosorbent for ...

Removal of toxic heavy-metal ions from water is of great concern owing to their potential hazards to the ecosystem and humans. A covalent organic framework (COF) based adsorbent with good porosity and triazine (Tz) and hydroxyl (OH) bifunctional groups was rationally designed and prepared using a simple pre-designed ligand method. The crystalline structure, porous property, and stability of COF ...