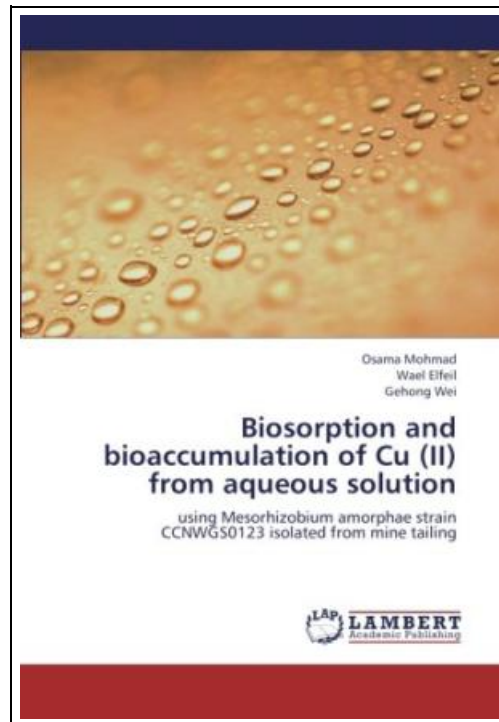


Biosorption and bioaccumulation of Cu (II) from aqueous solution



Filesize: 8.51 MB

Reviews

This ebook is amazing. It is one of the most awesome pdf i have got read through. Your way of life span will probably be transform as soon as you comprehensive looking over this pdf.

(Lula Graham IV)

BIOSORPTION AND BIOACCUMULATION OF CU (II) FROM AQUEOUS SOLUTION

[DOWNLOAD](#)

To read **Biosorption and bioaccumulation of Cu (II) from aqueous solution** eBook, you should refer to the link under and download the file or have accessibility to additional information which might be related to BIOSORPTION AND BIOACCUMULATION OF CU (II) FROM AQUEOUS SOLUTION ebook.

Book Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | using Mesorhizobium amorphae strain CCNWGS0123 isolated from mine tailing | Our studies showed that both dead and live cells of M. amorphae CCNWGS0123 are effective absorbents for copper removal from aqueous solution. The removal of copper increased significantly by increasing the pH up to 5.0, agitation speed 150 rpm and temperature 28°C. Equilibrium was reached within 30 min. The absorption isotherms could be well fitted by the Langmuir equation followed by the Freundlich equation. The highest removal of initial copper concentration was achieved at a dosage of 100 mg/L and the highest biosorption capacity was found at an initial concentration of 0.5 g/L Cu (II). Fourier transform-infrared spectroscopy (FT-IR) analysis indicated that many functional groups, such as O-H, N-H, C-H, C=O, -NH, -CN, C-N, C-O, amide (-I, -II, -III), and unsaturated alkenes, alkyls and aromatic groups on the cell surface, were involved in the interaction between CCNWGS0123 and Cu ion. Scanning electron microscope (SEM) results showed deformation, aggregation and cell-surface damage due to the precipitation of copper on the cell surface. Energy Dispersive X-ray Scanning (EDX) showed three distinct peaks at 1.1 keV, 8.1 keV and 8.9 keV, implying that copper ions have been absorbed | Format: Paperback | Language/Sprache: english | 155 gr | 220x150x5 mm | 104 pp.

[Read Biosorption and bioaccumulation of Cu \(II\) from aqueous solution Online](#)[Download PDF Biosorption and bioaccumulation of Cu \(II\) from aqueous solution](#)

Relevant Kindle Books

**[PDF] Would It Kill You to Stop Doing That?**

Click the hyperlink below to download and read "Would It Kill You to Stop Doing That?" file.

[Save eBook](#)

»

**[PDF] Violet Rose and the Surprise Party**

Click the hyperlink below to download and read "Violet Rose and the Surprise Party" file.

[Save eBook](#)

»

**[PDF] The Right Kind of Pride: A Chronicle of Character, Caregiving and Community**

Click the hyperlink below to download and read "The Right Kind of Pride: A Chronicle of Character, Caregiving and Community" file.

[Save eBook](#)

»

**[PDF] Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]**

Click the hyperlink below to download and read "Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]" file.

[Save eBook](#)

»

**[PDF] Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]**

Click the hyperlink below to download and read "Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]" file.

[Save eBook](#)

»

**[PDF] The First Epistle of H. N. a Crying-Voyce of the Holye Spirit of Loue. Translated Out of Base-Almayne Into English. (1574)**

Click the hyperlink below to download and read "The First Epistle of H. N. a Crying-Voyce of the Holye Spirit of Loue. Translated Out of Base-Almayne Into English. (1574)" file.

[Save eBook](#)

»