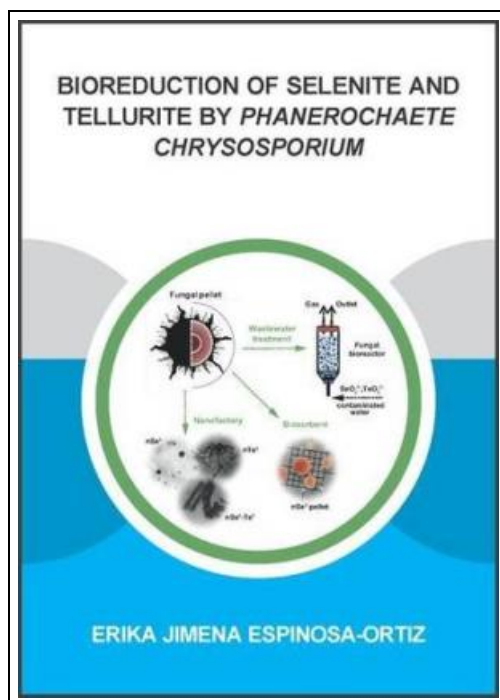


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Taylor Francis Ltd, United Kingdom, 2016. Paperback. Condition: New. Language: English . Brand New Book. Selenium (Se) and tellurium (Te) are metalloids of commercial interest due to their physicochemical properties. The water soluble oxyanions of these elements (selenite, selenate, tellurite and tellurate) exhibit high toxicities; hence, their release in the environment is of great concern. This study demonstrates the potential use of fungi as Se- and Te-reducing organisms. The response of Phanerochaete chrysosporium to the presence of selenite and tellurite was evaluated, as well as its potential application in wastewater treatment and production of nanoparticles. Growth stress and morphological changes were induced in P. chrysosporium when exposed to selenite and tellurite. Synthesis of Se<sub>0</sub> and Te<sub>0</sub> nanoparticles entrapped in the fungal biomass was observed, as well as the formation of unique Se<sub>0</sub>-Te<sub>0</sub> nanocomposites when the fungus was cultivated concurrently with Se and Te. The response of P. chrysosporium to selenite exposure was investigated in different modes of fungal growth (pellets and biofilm). A bioprocess for selenite removal and Se<sub>0</sub> nanoparticles recovery using an up-flow fungal pelleted reactor was developed. 70 selenite removal (10 mg Se L<sup>-1</sup> d<sup>-1</sup>) was achieved under continuous mode. The use of Se<sub>0</sub> nanoparticles immobilized in P. chrysosporium pellets as a new sorbent material for the removal of heavy metals from wastewater was demonstrated.



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