química nova

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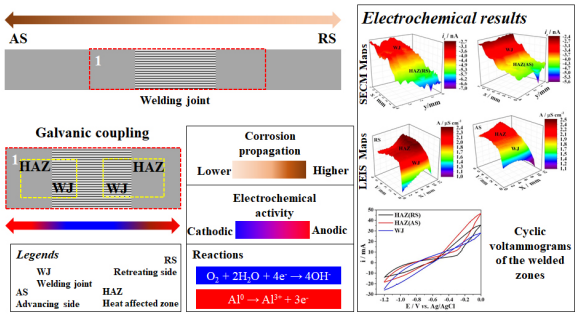
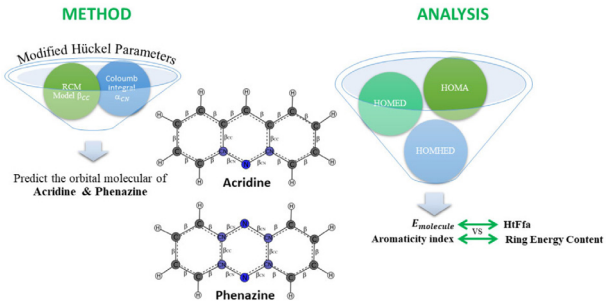
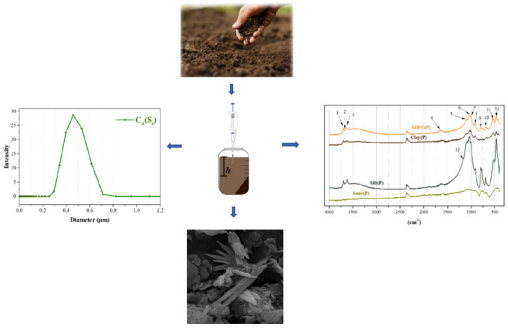
Artigos/Articles



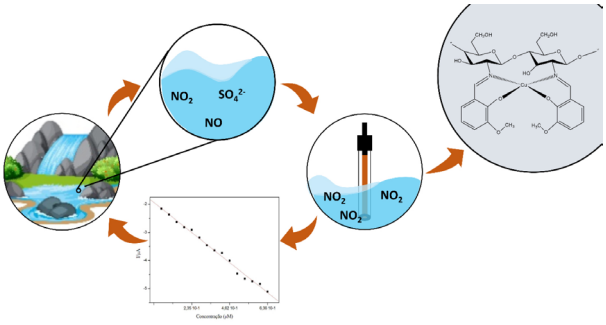
Local electrochemical activity of the zones affected by Friction Stir Welding (FSW) of an Al-Cu-Li alloy.



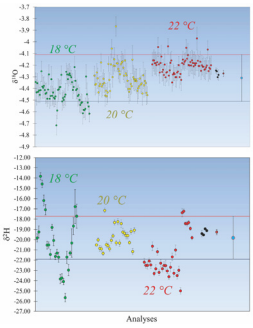
Modified Hückel parameters are proposed for acridine and phenazine. The geometric-based aromatic index is calculated to study the aromaticity of the two non-equivalent rings. The bond energies of the bond lengths are calculated and compared with the experimental heats of formation.



Quantitative and qualitative characterization of the granulometry of a soil and use of dynamic propagation (DLS) aiming to assess the quality of the dimension of the clay fraction.

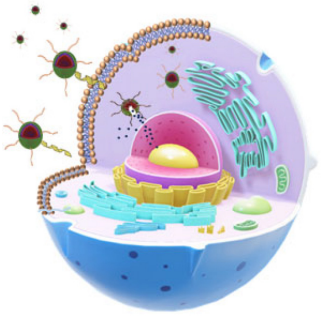


The present study carried out the synthesis and characterization of a coordination compound obtained from the reaction of formation of the Shiff base (chitosan/*ortho*-vanillin) with copper, aiming at a possible application in the identification of nitrite.

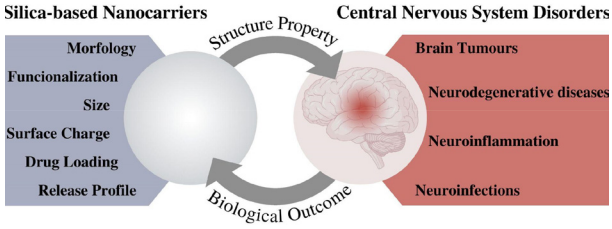


The graphical abstract shows the $\delta^{18}O$ and $\delta^{2}H$ data acquired on a reference water sample at different ambient temperature conditions, using the equilibrium method. At 20 °C, analyses performed at the LGI control sample presented satisfactory repeatability and reproducibility.

Revisão/Review

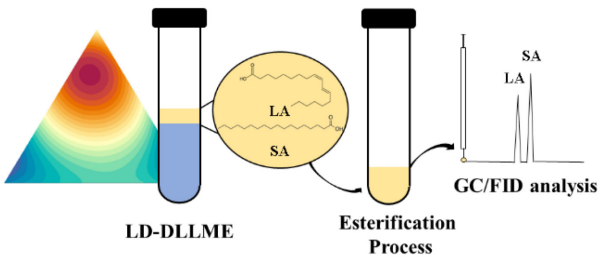


The image illustrates the targeting capacity of the ligands present on the surface of the nanocarriers and their conformational change caused by the specific chemical environment of the tumor environment, facilitating their introduction into the intracellular environment.



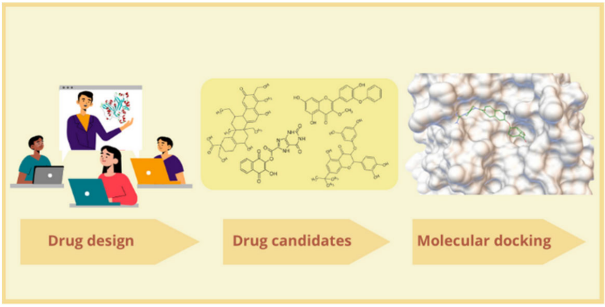
Silica nanoparticles are reliable systems with advantageous physicochemical properties to the application as drug delivery systems for the treatment of neurological disorders.

Nota Técnica/Technical Notes



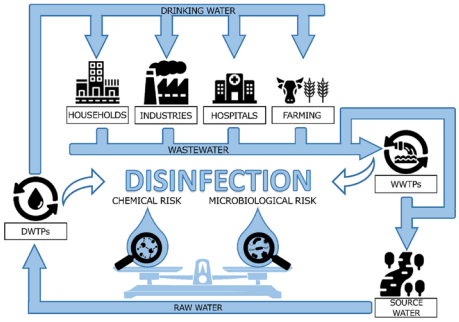
Using a chemometric mixture design and a miniaturized sample preparation technique, LA and SA were extracted from sheep blood serum samples. After an esterification process, the extract was analyzed, and the developed method was validated.

Educação/Education



Virtual screening is a very important tool in Medicinal Chemistry and aims to optimize drug design and development. Thus, molecular *docking* is an alternative for the search for new bioactive molecules against the SARS-CoV-2.

Assuntos Gerais/General Subject



Urban water cycle with DBP generation in DWTPs (drinking water treatment plants) and WWTPs (wastewater treatment plants), and the trade-off between the microbiological and chemical risks.