química nova

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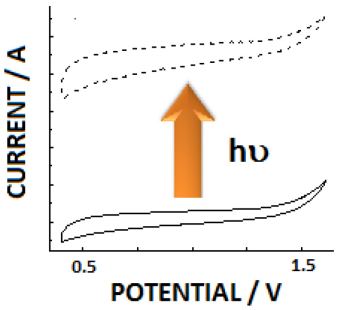
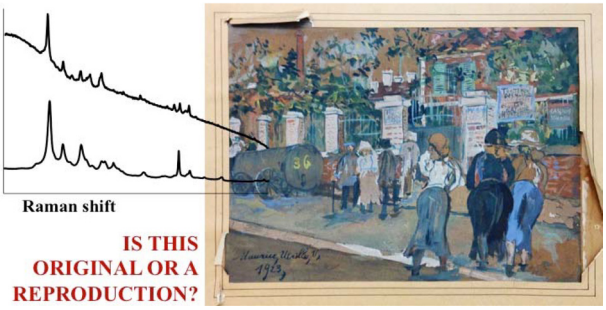
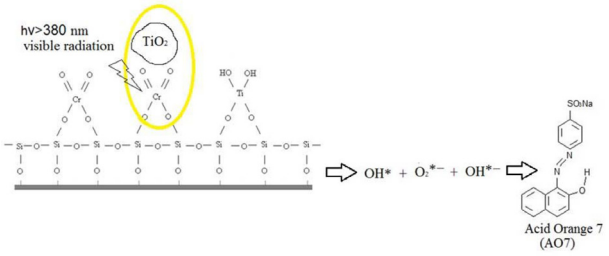
Artigo



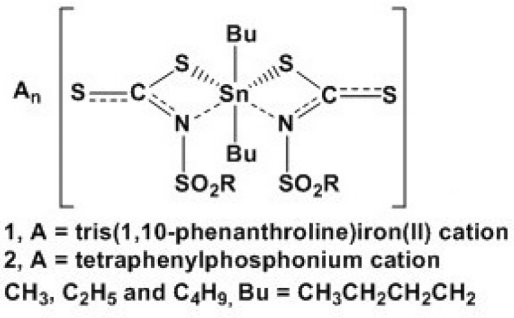
Effect of UV irradiation on the cyclic voltamogram of a Ti/TiO_2 electrode produced by the thermal decomposition method.



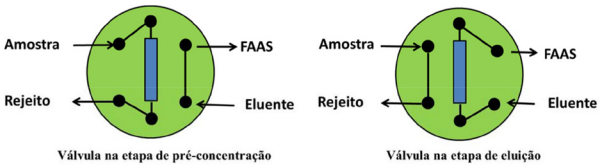
A painting signed "Maurice, Utrillo, V" and dated 1923 was thrown away because it was assumed to be a worthless reproduction. Careful analysis however, which included spectroscopic techniques, showed that it was a painting reproduction made using the Jacomet procedure.



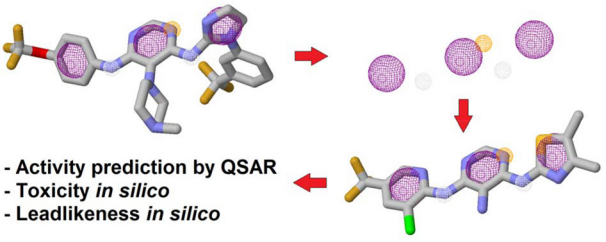
The next transition: Cr^{6+}-$O^{2-} \leftrightarrow Cr^{5+}$-$O^{1-}$ took place on the catalyst surface under visible light (λ > 380 nm) resulting in the formation of hole/electron pairs in the titania. These pairs produce highly reactive radical species that initiate dye degradation.



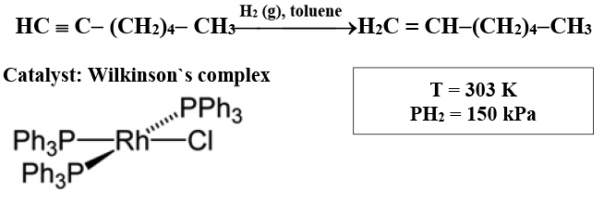
Salts of anionic dithiocarbimatedibutyltin(IV) complexes with tris(1,10-phenanthroline)iron or tetraphenylphosphonium cations active against phytopathogenic fungi.



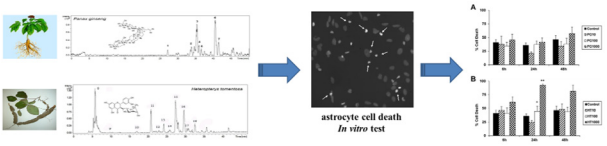
A colunm was made by XAD-4 modfyed with phenylfluorone and used to pre concetrate Cd.



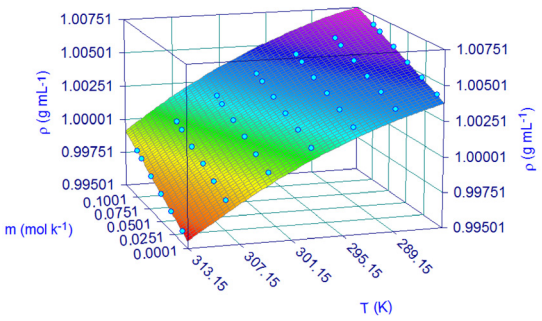
Using a data set with antimalarial compounds, it was developed QSAR, pharmacophoric modeling, and virtual screening (VS) studies. The obtained QSAR model equation was used for predict the potential antimalarial activty of four selected hits.



Hydrogenation of 1-heptyne, Wilkinson complex as catalyst in homogeneous system and in heterogeneous systems, supported on γ-Al_2O_3 and a commercial carbonaceous material, RX3.



This study describes a chemical analysis of hydroethanolic extracts of powdered roots from *P. ginseng* and *H. tomentosa* using HPLC-DAD-ESI-MS/MS and the effect of these extracts on the viability of astrocytes *in vitro* test.



This image depicts the behavior of alanine density as a function of temperature and molality in aqueous solution 0.1000 m [bmim $^{+}$] [BF_4^{-}].

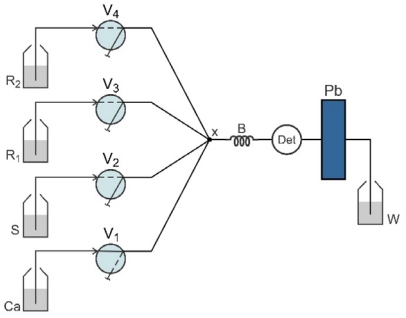
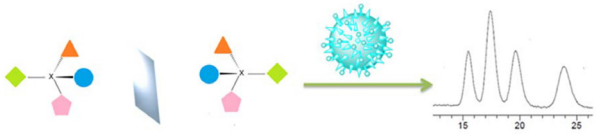
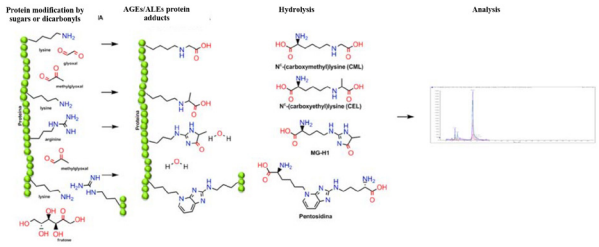


Diagram of the flow system module based on the multicommutation flow analysis process for photometric determination of hydroquinone in pharmaceutical formulations.

Revisão

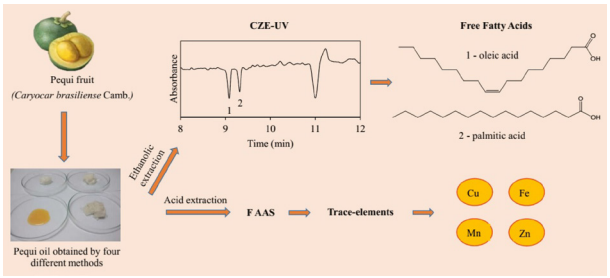


Biodegradation can be enantioselective and enantiomeric fraction quantification is important for improving environmental risk assessment of chiral pharmaceuticals.



Advanced glycation (AGEs) and lipoxidation (ALEs) end products formation from carbohydrates or dicarbonyl compounds in proteins and their subsequent analysis, after enzymatic or acidic hydrolysis.

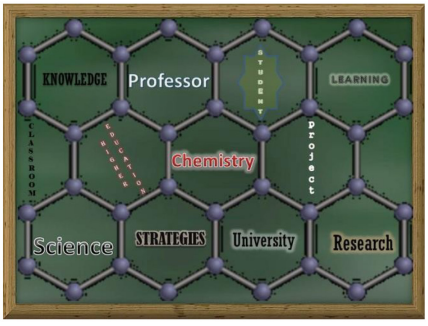
Nota Técnica



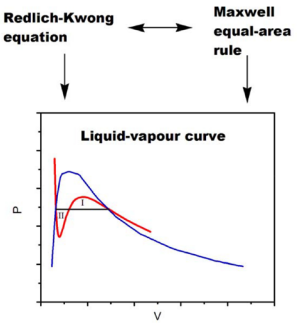
Free fatty acid determination was performed by capillary zone electrophoresis after ethanolic extraction of pequi oil samples. A new approach to acid digestion of pequi oil samples was developed for the determination of Cu, Fe, Zn and Mn by flame atomic absorption spectrometry.

Educação

Reaction mechanism proposed, and long-time of contact between the phases.



Professor of universities can work with research, administration and extension. However, his biggest challenge is in the classroom and in the human formation.



Use of Excel and iterative method to calculate the liquid-vapour equilibrium curve through the Redlich-Kwong equation and the Maxwell equal-area rule.