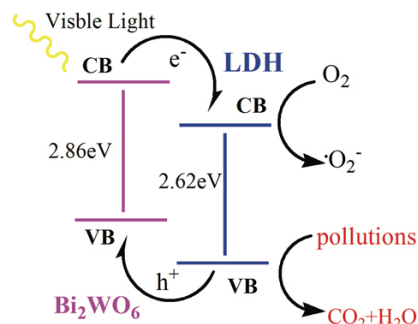


Artigo

- 849 Preparation and visible light responsive photocatalytic activity of $\text{Fe}_3\text{O}_4/\text{Ni-Al-Ce LDH}/\text{Bi}_2\text{WO}_6$ composites

Jiaqi Hao, Ting Qu, Qiufeng Wang and Zhenbo Zhao

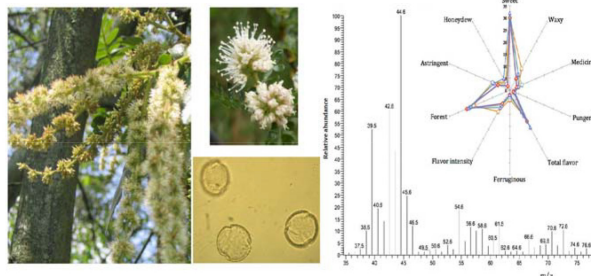
Novel $\text{Fe}_3\text{O}_4/\text{Ni-Al-Ce LDH}/\text{Bi}_2\text{WO}_6$ composites were prepared through a facile method. The composites showed high efficiency and stability in the decolorization of an organic pollutant; the decolorization rate of MO was 87% within 60 min under visible-light irradiation.



- 854 Propiedades fisicoquímicas de mieles monoflorales de Encenillo de la zona altoandina en Boyacá, Colombia

Guillermo S. Grosso, Mónica P. O. Tangarife y Laura M. R. Méndez

Weinmannia tomentosa Don, is a tropical tree of Cunoniaceae family that grows at high Andean and humidity forest zones in Colombia, is known as Encenillo is source of monofloral honey that bears that name. Physicochemical and volatile compounds are evaluated in this research.



- 865 Influência do envelhecimento acelerado em *flares* magnésio/PTFE/FPM

Humberto B. Pires, Roberta J. Rocha, Koshun Iha, Ricardo V. Binda e José A. F. F. Rocco

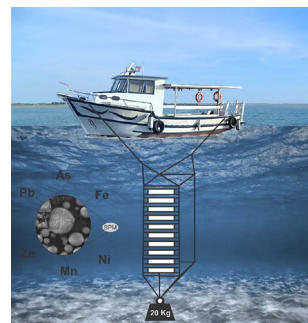
A H225M Helicopter from Brazilian Air Force deploys conventional flares during a flight.



- 871 Geochemistry of suspended particulate matter in a tropical estuarine system, southeastern Brazil

Sury de M. Monteiro, Fabian Sá and Renato Rodrigues Neto

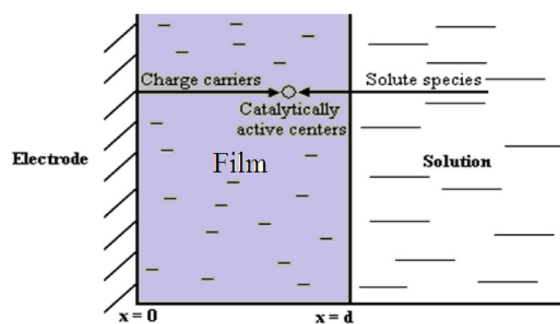
Suspended particulate matter was sampled with a sediment trap (45 μm mesh) installed in estuarine drainage channels. The traps collected enough material to perform geochemical analyses (metals, mineralogy, granulometry) during each season.



880 Mathematical model of catalytic processes at modified electrodes

Femila M. R. Joseph, Iswarya Thinakaran and Rajendran Lakshmanan

Schematic diagram of modified electrodes. Theoretical model of catalytic processes at modified electrodes are discussed. Mathematical solution of nonlinear reaction diffusion equations were obtained.



885 Biodegradacion fungica de poliuretano rígido

Araceli Lored, Andres Argüello, Raul Rodríguez-Herrera, Gerardo Gutiérrez-Sánchez, Alondra Escamilla and Cristóbal Aguilar

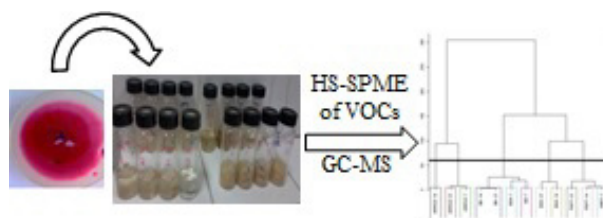
Three fungal strains were tested as possible polyurethane biodegradation agents. Cultures were carried out in liquid state with minimal mineral medium and polyurethane biodegradation was assed by infrared and thermogravimetric analyses.



890 Perfil dos componentes voláteis produzidos pelo fungo fitopatígeno *Albonectria rigidiuscula* em diferentes condições de cultivo

Francisco C. Oliveira, Francisco G. Barbosa, Jair Mafezoli, Maria da C. F. de Oliveira, Francisco J. T. Gonçalves e Francisco C. O. Freire

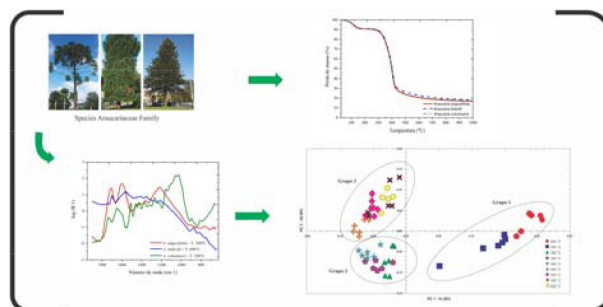
VOCs from *Albonectria rigidiuscula* fungus produced in different culture media were extracted by HS-SPME and analyzed by GC-MS.



895 Avaliação de fragmentos de lenhos carbonizados de Araucariaceae por meio de termogravimetria e infravermelho associadas à análise multivariada

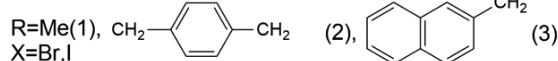
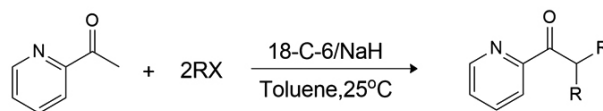
Daniela M. de Lara, Laís Bresciani, Isa C. Osterkamp, Maurício Hilgemann, Eduardo Ethur, André Jasper, Marco F. Ferrão, Dieter Uhl e Simone Stülp

Muffle carbonization method for *in natura* Araucariaceae wood logs using Thermogravimetry, Fourier Transform Infrared Spectroscopy and Multivariate Analysis.



- 902 Facile synthesis, characterization and DFT calculations of 2-acetyl pyridine derivatives

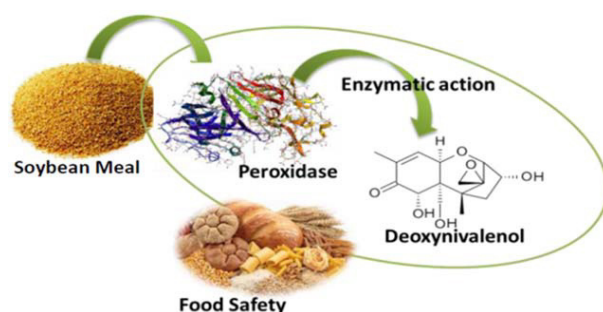
Haroon ur Rashid, Adnan Shahzad, Zarif Gul, Ezzat Khan, Muhammad N. Umar, Muhammad R. Shah, Awal Noor and Sher W. Khan



Reaction of 2-acetylpyridine with alkyl/aryl halides: An effective approach towards syntheses of 2-acetylpyridine derivatives.

- 908 Peroxidase from soybean meal: obtention, purification and application in reduction of deoxynivalenol levels

Ana C. P. Feltrin, Milena R. V. Fontes, Henrique D. K. Gracia, Eliana Badiale-Furlong and Jaqueline Garda-Buffon

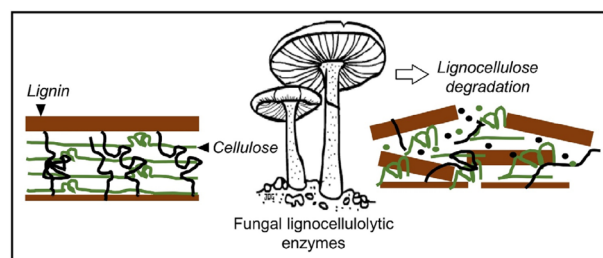


Considering the evolution of environmental processes in the management of agroindustrial residues to reuse them, this application in Deoxynivalenol degradation, develop clean technologies which do not use products that harm the environment.

Revisão

- 916 The fungal ability for biobleaching/biopulping/bioremediation of lignin-like compounds of agro-industrial raw material

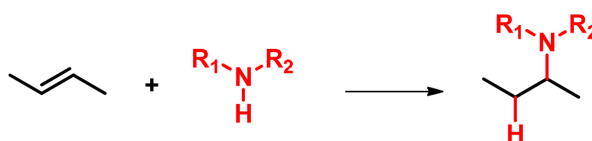
Ana M^a Q. López, Amanda L. dos S. Silva e Elane C. L. dos Santos



A number of fungi can degrade lignocellulosic substrates through a rich enzymatic arsenal and demonstrate potential to mycoremediation.

- 932 Avanços recentes na hidroaminação de compostos insaturados

Luiz F. T. Novaes e Julio C. Pastre



•Transition Metal Catalysis
•Use of Organocatalysts
•Applications on Total Synthesis

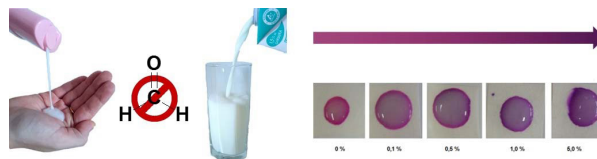
This review highlights recent examples of hydroamination developments, employing unsaturated compounds (alkenes, alkynes and allenes) and amines, selected applications on total synthesis are also presented.

Nota Técnica

946 Papel indicador colorimétrico para detecção de formol em produtos lácteos e produtos de higiene pessoal

Guilherme B. C. Martins, Renata R. Sucupira and Paulo A. Z. Suarez

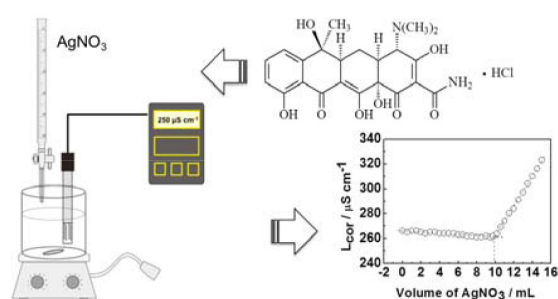
We developed a colorimetric indicator paper based on Schiff's reagent that made possible to successfully detect the presence of formaldehyde in commercial products, such as: detergents, shampoos and conditioners. The developed indicator paper has low cost and can help the supervision of milk products, as a trial test.



952 Determinação condutométrica de cloridrato de tetraciclina em formulações farmacêuticas

Enock J. A. Goes Junior, Jakson S. Roeder e Jonatas G. da Silva

An alternative simple, precise, rapid and low-cost method for determination of hydrochloride tetracycline in pharmaceutical formulations, based on conductometric titration using silver nitrate as titrant.

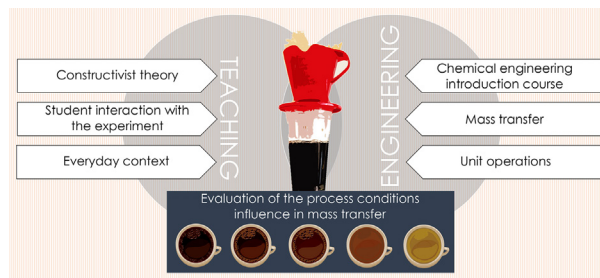


Educação

957 Operação café passado: uma perspectiva didático-pedagógica para o ensino em Engenharia Química

Crissiê D. Zanrosso, Dirléia dos S. Lima, Tiele C. Machado, Vanessa M. de Souza e Luciano A. da Costa

Using the concepts of constructive learning, student interaction and daily experience on the teaching side and introduction to chemical engineering, mass transfer and unit operations on the engineering side we can reach the activity proposed, named "coffee operation".



963 Estruturas de fulerenos: estabelecendo interfaces no ensino de Matemática e Química em nível superior

Thiago H. B. Corrêa e Joana D'arc da S. Reis

Exploring the relationship of the geometric properties of fullerenes and establishing a dialogue between the teaching of mathematical concepts and chemical.

