

Editorial

Looking forward to better days coming, the editors of Eclét. Quim. Journal cordially welcome the readers of our journal to the fourth edition of this year which contains publications of excellent level. We wish you a pleasant read of the findings described in the articles.

Starting the last issue of 2021 there is a review study on embodied ferrous oxide nanoparticles (IONPs) formed from plant materials. These particles have distinctive properties - biocompatibility, low toxicity, catalytic behavior and multi reaction mechanism - which enabled several biomedical applications. This review significantly summarized the synthesis, optimum conditions and characterization techniques involved in the synthesis of IONPs and presented in great detail their uses as antimicrobial and anticancer therapeutic agents. In sequence appears a study on the adsorption of lead in aqueous solution onto *Acrocomia aculeata* pulp. By adding sodium azide to the solution, the pulp's thermal stability increases to 200 °C. The removal efficiency reached a maximum of 91.9% when a solution of 50 ppm of lead was placed in contact with the pulp for 30 min. The column experiments revealed a theoretical maximum adsorption capacity of 11.97 mg g⁻¹. Research on the nutraceutical properties of mandarins produced in Uruguay raised great interest by the presence of free amino acids in addition to their high vitamin C content and flavonoids. A targeted metabolomics study in 'Ellendale', 'Willowleaf' and 'Page' mandarin varieties was performed; the concentration levels of the amino acids separated well apart the three varieties. The amino acids with higher levels in mature samples were histidine, asparagine, glutamine, and glutamic acid. Another research obtained an approximate solution of the Schrödinger equation for the q -deformed Hulthen-quadratic exponential-type potential model within the framework of the Nikiforov–Uvarov method. This method finds many applications in quantum chemistry, atomic and molecular physics. The authors analyzed in detail the graphical and numerical effect of the deformation parameters and other potential parameters on the energy spectra of the system. The energy eigenvalues expressions agreed with that obtained in literature.

The Editor and the team of Eclét. Chem. J. are immensely grateful to the authors and reviewers' dedication, who spared no effort for the successful completion of this issue.

Assis Vicente Benedetti
Editor-in-Chief of EQJ