conference abstracts

s7.m5.03 Synthesis, structure and electrochemistry of substituted heteropolyanions. I.M. Mbomekalle¹; E. Ngameni^{2*}; S. Ponou²; Y.A. Mbiangue². ¹Département de Chimie, Faculté de Sciences, Université de Douala, BP 24157 Douala, Cameroun ²Département de Chimie Inorganique, Faculté des Sciences, Université de Yaoundé 1, BP 812 Yaoundé, Cameroun.

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Substituted heteropolyanions have been the subject of numerous studies over the last decades, mainly because of their use in catalysis and electrocatalysis. So many industrial processes based on catalysis with heteropolyanions have been developed. Our research activities along these lines are focussed on electrochemical properties of these compounds in relation with their structure. Redox processes which generate new species are usually followed by various chemical reactions. From a cristallographycal point of view, what is noticeable, is that the initial structure of the heteropolyanion is, sometimes, not conserved. We have synthesised and analysed by electrochemical methods many of this compounds specially those the so-called Dawson type, characterised by their easiness to crystallise. Unfortunately, in our university (and in our country) the unique apparatus for structural analysis is an old powder diffractometer. This unable us to make any structural analysis by X-rays diffraction. The acquirement of an up to date apparatus (a crystal diffractometer for example) will be for a great help in the continuation of our research activity.

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