



## **CHEMISTRY, PROCESSES AND PROBLEMS OF COMPLEX ORES UTILIZATION: HYDROMETALLURGICAL OPTIONS**

**GERALD O. ONYEDIKA<sup>\*</sup>, A. C. ACHUSIM-UDENKO,  
C. I. A. NWOKO and M. O. C. OGWUEGBU**

Mineral Processing Unit, Department of Chemistry, Federal University of Technology, P.M.B. 1526,  
OWERI (NIGERIA)

### **ABSTRACT**

Since the second world war, the demands for pure elements and other metals hitherto considered rather rare, and usually found in association as complex mineral ores, have increased considerably. The utilization of these minerals as-mined has largely constituted research and technological problems. This paper has addressed the problems of complex ores utilization by considering the nature and compositions of complex ores, the multi-stage hydrometallurgical processes involved in their utilization, reagent types and consumption, energy requirements and waste disposal. The chemistry of the hydrometallurgical processes of these complex ores and the methods of separation of the constituent species has been significantly reviewed.

**Key words:** Hydrometallurgy, Complex ore, Leaching, Acid, Alkali, Utilization.

### **INTRODUCTION**

Nearly all metals are derived from ores, which are concentrates of minerals situated accessibly at or near the earth's crust. Ores are complex composite materials bearing minerals of several metals. The two important exceptions perhaps are magnesium, which may also be won from sea water, and plutonium, which is produced in atomic reactors. Ores are therefore, from their own very nature are complex, the simplicity of their chemical formula notwithstanding. As the complexity of these ores increase, various technologies have been developed, effecting their laboratory analysis, industrial processes and utilizations<sup>1-4</sup>. Nonetheless, these utilization processes, including those still in the laboratory scales and desks, have created an avalanche of problems, in terms of capital cost with respect to engineering equipment, research and development, energy requirements, reagent consumption and waste management<sup>5</sup>.

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<sup>\*</sup>Author for correspondence; E-mail: [contacthasu@yahoo.co.in](mailto:contacthasu@yahoo.co.in); Ph.: (M) 09327770619 (O) 0285262358;

# Problems Of Complex Ores Utilization

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