

## Well-Dawson Polyoxometalates Synthesis and Spectroscopic Characterization

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### Abstract

Wells-Dawson Heteropolyanions type and their transition metal substituted derivatives are a large group of transformable anionic clusters that have multiple applications, many of which are related to their redox properties. This work is part of HPA insoluble catalyst improvement approach including those of oxidation of organic compound. The authors have previously found that acidic cesium salt solid heteropoly compounds, where insoluble salt in water and important in practical uses because of its high catalytic activity and high thermal stability. Acidic cesium salt of Wells-Dawson heteropolyanions ( $\text{HCs}_5\text{P}_2\text{W}_{18}\text{O}_{62} \cdot 16\text{H}_2\text{O}$ ) was obtained as a precipitate by titration of an aqueous solution of  $\text{H}_6\text{P}_2\text{W}_{18}\text{O}_{62}$  with an aqueous solution of  $\text{CsCl}$  and It was characterized by Fourier-Transform Infrared Spectroscopy (FT-IR),  $^{31}\text{P}$  NMR, EDS and cyclic voltammetry.

### Biography

Medkour Amina is a PhD student at the age of 25 years in Badji-Mokhtar University, Algeria. She has not publications yet.