Ain shams university
Faculty of science
Chemistry department

Preparation and characterization of some novel metal complexes and their applications to chemical sensors

Thesis submitted for the degree of master

In

Inorganic and Analytical chemistry

Presented by

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"Preparation and characterization of some novel metal complexes and their applications to chemical sensors"

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2018

بِسْمِ اللّهِ الرَّحْمنِ الرَّحِيمِ

قَالُواْ سُبْحَانَكَ لاَ عِلْمَ لَنَا إِلاَّ مَا عَلَّمْتَنَا إِنَّكَ أَنتَ الْعَلِيمُ الْحَكِيمُ

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❖ ***<u>Published Papers Extracted From The Master Thesis:</u>***

1. Novel selective spectrophotometric method for hydrosulfide (HS^-) ions assessment using Vitamin B_{12} precursor "Aquacyanocobyrinic acid heptamethyl ester", European Chemical Bulletin, 2018, Accepted.

2. Solid contact potentiometric sensors for reliable automatic quantification of 2,4-dichlorophenol (2,4-DCP) as a food taint, Measurement Science and Technology, 2018, Accepted.

3. Preparation and characterization of magnetic copper ferrite and copper ferrite@polythiophene nanocomposite for removal of Hg(II) ions as hazardous waste, Submitted.

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