



Pulse polarographic studies on metal ion interaction with DNA.

Autorzy

Henryk Kozłowski

T. Pawłowski

J. Świątek

Rok wydania

1989

Czasopismo

Asian Journal of Chemistry

Numer woluminu

1

Strony

93-104

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

The application of the differential pulse-polarography and sweep voltammetry to the studies of the metal ion interaction with DNA have shown that the local labilization of the double stranded structure of nucleic acid caused by e.g. charged surfaces may be of critical importance for such interaction. The opening of the double helix stimulates the metal ion binding to nucleic bases. This interaction is of minor importance when the intact DNA structure is available for metal ions. The polarographic techniques are very useful in the study of the local *defects* of the structure of the DNA molecule and of their influence on the metal ion binding. Such situation may happen on the biological membrane which is electrically charged and whose electric charge may be imitated by the mercury electrode surface.

Słowa kluczowe

Pulse Polarographic Study, Metal Ion Interaction, DNA

Adres publiczny

<https://asianpubs.org/index.php/ajchem/article/view/25378/25324>