

The effect of magnetic field on biophysical properties of different water samples**A M Samy and H Ibrahim**

Ain Shams University, Egypt

The physical properties of different water samples (tap, zamzam, bottled, and distilled water) were investigated under the effect of magnetic field. The pH, boiling point, conductivity, viscosity values increased with increasing time of magnetic field due to the increase of hydrogen bonding and water clusters. But, the rate of flow value was decreased. The samples kept magnetization effects after withdrawal of the water samples from the magnetic field and gradually returned to their original values with time. Zamzam water had the highest value of pH, boiling point, conductivity and viscosity compared to other samples, while the distilled water had the lowest one. The observations are of great interest and importance, in a way they help in applying magnetic treatment devices technology in various fields such as industry, medicine and agriculture to improve water properties.

Biography

Amani Samy Hegazy is a Professor in the Department of Physics, Faculty of Science, Ain Shams University, Cairo, Egypt. Her research interest is in the field of Material Science and its applications.

amanisami6@hotmail.com**Notes:**