***Dr. Mahmoud H. Makled***

**Position**: *Associate professor*

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**Research interests:**

Researcher in polymer composites. extensive expertise in the preparation and characterization of polymer bonded magnet, specially hared barium ferrite by in the nano and micro size. Natural rubber moulding and characterization of polymer composites mechanically, magnetically and electrically.

**Qualifications:**

* Bsc , Zagazig university , Egypt, 1990
* Msc , Zagazig university, Egypt , 1996
* PH.D , Zagazig university, Egypt , 2003

**Relevant employment history:**

* 2012-present, *Associate professor* of Solid State Physics, Faculty of Science ,Benha University
* 2003- 2012, *lecturer* of Solid State Physics, Faculty of Science, Benha University
* 1996-2003, Assistant Lecture , Physics Department , Zagazig university
* 1991-1996, Demonstrators, Physics Department, Zagazig University

**Activates:**

1. Scientific Channel at Osaka prefecture University , Japan (2000-2002)
2. Vesting researcher at Osaka prefecture University , Japan, 2007 for 6 months
3. Vesting researcher at Deakin University , Australia , 2009 for 9 months

**Selected publications:**

1- Mahmoud Hosseny Makled, Nabil M. Shash, Hesham K. Abdelsalam, *Structural and Magnetic properties of nanograined Ni0.7-yZn0.3Cay Fe2O4 spinels*, Europian J. Appl. Phys., accepted 2014

2- **M. H. Makled**, E. M. Sheha, T. Y. Saleh, M. K. El-Mansy*, Electrical conduction and dielectric relaxation in p-type PVA/CuI polymer composite*, J. **Adv. Resear**., 4 (6) 531–538, 2013

3-  - M.H. Makled, *Dielectric Properties of  High Coercivity Barium Ferrite- Natural Rubber Composites*, J. Appl. Polym. Sci, 126, (3) 969–973, 2012

4- K. H. Mohamoud**, M. H. Makled***, Infrared Spectroscopy and Thermal Stability Studies of Natural Rubber-Barium Ferrite Composites*, **Adv. Chem. Eng. Sci**., 2, 350-358, 2012

1. E. Yousef. A. El-Adawy. M. H. Makled. A. E. Al-Salami, *Thermal characteristics and crystallization kinetics of tellurite glass with small amount of additive As2O3* , J Mater Sci 45:2930–2937, 2010

6- A.A.El-Daly, Y.Swilem, M.H.Makled, M.G.El-Shaaraway, A.M.Abdraboh, *Thermal and mechanical properties of Sn-Zn-Bi lead solder alloys* , J. Alloys Comp. ,484 ,134, 2009

7- M. H. makled, T. Matsui, *Magnetic and mechanical characterization of natural rubber- coprecipitated barium ferrite composite at high loading*, Plast. Rubb. Compos. 38, 297, 2009

8- M. H. Makled, H.Washiya, H. Tsuda, T. Matsui, *Effect of Coprecipitated Barium Ferrite on the Cure Characteristics and Dynamic Properties of Natural Rubber–Ferrite Composites around Percolation*, , J.. Appl. Polym. Sci. , 113, 3294, 2009

9-   M. H. Makled, T. Matsui, H. Tsuda, H. Mabuchi, M..K. El-Mansy, K. Morii, Magnetic *and mechanical properties of barium ferrite natural rubber composites,* J. Mat. Process. Tech., 160,229-233 ,2005

10-  M. H. Makled, T. Matsui, H. Tsuda, H. Mabuchi, M.K. El-Mansy, K. Morii, *Effect of particle size and its distribution on the fabrication and magnetic properties of barium ferrite powders prepared from coprecipitation precursors*, J. Ceram. Soc. Japan, 112,[4], 200-2003, 2004

11-M . K. El-Mansy , N. M. Shash , M.. H. Makled , E. M.. Diefallah, *Effect of growing barium ferrite phases on   the electrical conductivity in Fe2O3/BaCo3 composites*, Mat. Chem. Phys., 52,71-77,1998