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C.V.

Name : Ibrahim Zaky HAGER

Date of Birth : 23 / 1 / 1962

Occupation : **Professor** since 24/9/2012, Head of Physics Department, Faculty of Science, Menoufia University, Shebin El-Koom, Egypt.

Head of Physics Department

Specialization: Materials Physics (glass science and technology).

E-mail : izhager@yahoo.com

Mobil : 01092153483

Scientific Graduation :

- (1) **B. Sc.** (1984), Physics Department, Faculty of Science, Menoufia Univ., Egypt.
- (2) **M. Sc.** (1991), Thesis titled "Acoustical and Structural Investigation of Some Phosphate Glasses", Physics Department, Faculty of Science, Menoufia Univ., Egypt.
- (3) **Ph. D.** (1997), Thesis titled "Structural Investigation of Fluoride Glasses" by Channel system cooperation from (1993-1995) between University of Rennes 1, (Material Photoniques Laboratory), **France** and Faculty of Science, Menoufia Univ., Egypt.

Experience :

- (1) **Demonstrator**, from 1986 to 1991 in Physics Department, Faculty of Science, Menoufia Univ., Egypt.

- (2) **Assistant Lecturer**, from 1991 to 1997 in Physics Department, Faculty of Science, Menoufia Univ., Egypt.
- (3) **Lecturer**, from 1997 until Mar 2004 in Physics Department, Faculty of Science, Menoufia Univ., Egypt.
- (4) **Associate Professor**, from 29 / 2 / 2004 until Sept. 2012 in Physics Department, Faculty of Science, Menoufia Univ., Egypt.
- (5) **Professor**, from Sept. 2012 in Physics Department, Faculty of Science, Menoufia Univ., Egypt.
- (6) **Scientific mission** at University of Rennes 1, (Material Photoniques Laboratory), **France**, from Sept. 1997 to Dec. 1997.
- (7) **Visiting Professor** at Univ. of LeMan, **France**, from 1/6/1998 to 1/7/1998.

Reviewer of some International Journals:

- (1) Journal of Physics and Chemistry of Solids.
- (2) Materials Chemistry and Physics
- (3) Measurements
- (4) Journal of Alloys and Compounds
- (5) International Journal of Physical Science
- (6) Materials Science and Engineering B
- (7) Journal of Thermal Analysis and Calorimetry

Referee of Thesis:

- (1) M. Sc. Thesis in solid state physics in faculty of science, Sana'a university, Yemen
- (2) M. Sc. Thesis in solid state physics in faculty of science, Teiz University, Yemen

- (3)M. Sc. Thesis in solid state physics in faculty of science, Mansoura University, Egypt, 2017
- (4)M. Sc. Thesis in solid state physics in faculty of science, Mansoura University, Egypt, 2018
- (5)M. Sc. Thesis in solid state physics in faculty of science, Benha University, Egypt, 2018

List of publications

- 1- A. Khafagy , A. Higazy, M. Ewaida, M. Ghoneim, **I. Z. Hager** and R. El-Bahnasawy “ Infrared spectra and composition dependence investigations of vitreous V_2O_5/P_2O_5 glasses” J. Mater. Sci. 27 (1992) 1435.
- 2- A. Khafagy , A. Higazy, M. Ewaida, M. Ghoneim and **I. Z. Hager** “ Compositional and annealing effects on properties of V_2O_5/P_2O_5 glasses”, Indian J. Phys. 66A (1991) 289.
- 3- R. El-Mallawany , A. Khafagy, M. Ewaida, **I. Z. Hager**, M. Poulain and M. Poulain, J. Non-Cryst. Solids 184 (1995) 141.
- 4- A. Khafagy , M. Ewaida, M. Ghoneim and **I. Z. Hager** “ DTA and annealing investigations of some V_2O_5/P_2O_5 glasses”, Indian J. Phys. 71A [1] (1997) 289.
- 5- **I. Z. Hager**, R. El-Mallawany and M. Poulain “ Infrared and Raman spectra of new molybdenum and tungsten oxyfluoride glasses”, J. Mater. Sci. 34 (1999) 5163.
- 6- M. El-Hofy and **I. Z. Hager** “ Ionic conductivity in $MoO_3-BaF_2-AgI-LiF$ glasses”, Physica status solidi (a) 182[2] (2000) 697.
- 7- **I. Z. Hager** “Elastic moduli of boron oxyfluoride glasses: experimental determinations and application of Makishima and Mackenzie's theory”, J. Mater. Sci. 37 (2002) 1309.
- 8- R. El-Mallawany, **I. Z. Hager** and M. Poulain, “Thermal properties of new molybdenum oxyfluoride glasses”, J. Mater. Sci. 37 (2002) 3291.
- 9- **I. Z. Hager** and M. El-Hofy “ Investigations of spectral absorption and elastic moduli of lithium haloborate glasses”, Physica status solidi (a) 198[1] (2003) 7.
- 10- M. El-Hofy and **I. Z. Hager** “ Ionic conductivity of lithium haloborate glasses”, Physica status solidi (a) 199[3] (2003) 448.
- 11- Z. C. Klouche Bouchaour, M. Poulain, M. Belhadji, **I. Hager**, R. ElMallawany “New oxyfluoroniobate glasses”, J. Non-Cryst. Solids 351 (2005) 818.

- 12-**I. Z. Hager**, "Study on some physical properties of new oxyfluorovanadate glasses" *Materials Chemistry and Physics*, 109 (2008) 365.
- 13-**I. Z. Hager**, "Optical properties of lithium barium haloborate glasses" *J. Phys. Chem. Solids* 70 (2009) 210.
- 14-**I. Z. Hager**, R. El-Mallawany, "Preparation and structural studies in the (70-x)TeO₂-20WO₃-10Li₂O-xLn₂O₃ glasses", *J. Materials Science* 45 (2010) 897.
- 15-**I. Z. Hager**, R. El-Mallawany, A. Bulou, "Luminescence spectra and optical properties of TeO₂-WO₃-Li₂O glasses doped with Nd, Sm and Er rare earth ions" *Physica B* 406 (2011) 972.
- 16-**I. Z. Hager**, "DC conductivity of new single and mixed alkali oxyfluorovanadate glasses" *Physica B* 406 (2011) 2000.
- 17-**I. Z. Hager**, "Effect of Er₂O₃ and ErF₃ on the structural and elastic properties of sodium oxyfluoroborate glasses", *J. Alloys and Compounds* 539 (2012) 256.
- 18-H. A. Othman, H. S. El-Kholy and **I. Z. Hager** "FTIR of binary lead borate glass: Structural Investigation", *J. Molecular Structure* 1106 (2016) 286.
- 19-Hosam A. Othman, Hager S. Elkholy and **Ibrahim Z. Hager** "Spectroscopic investigation of Samarium doped lead oxyfluoride glasses using photo and cathode luminescence, *International Journal of Applied Glass Science*, (2016)1.
- 20-H. A. Othman, H. S. El-Kholy and **I. Z. Hager** "Structural and optical investigation of undoped and Sm³⁺ doped lead oxyfluoroborate glasses ", *Materials Research Bulletin* 89 (2017) 210.
- 21-**I. Z. Hager**, H. A. Othman and D. T. Valiev "Compositional dependence of thermal, optical and mechanical properties of oxyfluoride glass, *IOP Conf. Series: Journal of Physics: Conf. Series* **830** (2017) 012125.
- 22-Hesham A. Afifi, **Ibrahim Z. Hager**, Nadia S. Abdel Aal and Ahmed M. Abd El-Aziz, "Temperature-dependent ultrasonic attenuation of superconducting composite Y123+Ni at low temperature, *IOSR Journal of Applied Physics* 10, [4] (2018), 60-69.
- 23- S. E. Ibrahim, Y. S. Rammah, **I. Z. Hager**, R. El-Mallawany, UV and electrical properties of TeO₂-WO₃-Li₂O-Nb₂O₅/Sm₂O₃/Pr₆O₁₁/Er₂O₃ glasses, *J. Non-Crystalline Solids* 498 (2018) 443.

- 24-Hesham A. Afifi, **Ibrahim Z. Hager**, Nadia S. Abdel Aal and Ahmed M. Abd El-Aziz ,Study of the effect of Ni additive in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ superconducting composite employing ultrasonic measurement, Measurement 135 (2019) 928.
- 25-**Ibrahim Z. Hager**, Yasser S. Rammah, Hossam A. Othman, Eman M. Ibrahim Sayed F. Hassan, Fawzy H. Sallam, Nano-structured natural bentonite clay coated by polyvinyl alcohol polymer for gamma rays attenuation, Journal of Theoretical and Applied Physics 13 (2019)141–153, (<https://doi.org/10.1007/s40094-019-0332-5>).
- 26-Hagar Elkholy, Hosam Othman , **Ibrahim Hager**, Medhat Ibrahim, Dominique de Ligny, Europium-Doped Tellurite Glasses: The Eu^{2+} Emission in Tellurite, Adjusting Eu^{2+} and Eu^{3+} Emissions toward White Light Emission, Materials 12 (2019) 4140 (doi:10.3390/ma12244140).
- 27-Hagar Elkholy, Hosam Othman , **Ibrahim Hager**, Medhat Ibrahim, Dominique de Ligny, Thermal and optical properties of binary magnesium tellurite glasses and their link to the glass structure, Journal of Alloys and Compounds 823 (2020) 153781, (<https://doi.org/10.1016/j.jallcom.2020.153781>).

المقررات التي قمت بتدريسها:

1-Glass Technology

2-Physical Electronics

3-Laser Systems

4-Solid State Lasers

5-Thermodynamics

6-Properties of Matter

7-General Physics

8-Modern Physics