

## Dr. Mouna Hassan Abdelaziz Ben Henda



Assistant Professor  
Physics Department  
College of Science, Zulfi  
Majmaah University

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### Research Interests:

Material science

Soft Matter and Electromagnetic Modelling

Polymer Characterization, Aggregation Process, Macromolecules, colloids, polymerization

### Language Skills

Arabic, English, French, Italian

### Qualification (Career and University Education)

2004-2008 B. Sc. Degree (Physics Science) University of Tunis El Manar

2008-2010 M.Sc. Degree (Physics) University of Tunis El Manar

2010-2017 PhD Degree (Physics) University of Tunis El Manar

### Career

2017- 2018 Assistant Professor at Department of Physics, College of Science, Majmaah University, Saudi Arabia.

2018-2019 Assistant Professor at Department of Physics, College of Science, Majmaah University, Saudi Arabia.

### Conferences

1. N. Ghaouar, **M. Ben Henda**, A. Gharbi : "Study of PEO-PPO-PEO copolymers conformational changes: A comparative study".

Journée Magreb-Europe/Les matériaux et leurs applications aux dispositifs capteurs: MADICA 2010, Tabarka, 20- 22 Octobre 2010.

2. **M. Ben Henda**, N. Ghaouar, A. Gharbi : "Propriétés rhéologiques du Pluronic F68: Effets de la température et du solvant".

Troisième Rencontre Francophone sur les Matériaux Isolants (3ème RFMI) : 27-29 Mars 2015, Hammamet, Tunisie.

3. **Mouna Ben Henda**, Naoufel Ghaouar, Abdelhafidh Gharbi, Tahar Othman : "Effect of ionic liquids on the aggregation Process of Normal and Reverse Pluronic: Fourier Transform Infrared Spectroscopy"

International Conference on Multifunctional Materials and their

Applications (2MAP-2016). Sousse, TUNISIA, May 6-8, 2016

4. **Mouna Ben Henda**, Naoufel Ghaouar, Abdelhafidh Gharbi, Tahar Othman : "Concentration and Solvent Effect on Micellization Process of F68 tri-block Copolymer: Fourier Transform Infrared Spectroscopy".

International Conference on Multifunctional Materials and their Applications (2MAP-2016). Sousse, TUNISIA, May 6-8, 2016

## Publications

1: **M. Ben Henda**, A. Gharbi: "Rheological Properties of L64 Tri-block Copolymer In Aqueous and p-xylene Solutions".

Polymer Science, Series A, 2018, Vol. 60, pp. 134–140.

2: **M. Ben Henda**, A. Gharbi: "Concentration and Solvent Induced Micellization of F68 Tri-block Copolymer".

Polymer Science, Series A, 2017, Vol. 59, No. 5, pp. 1–11.

3: **M. Ben Henda** and A. Gharbi: "Temperature, Concentration and Salt Effect on F68 Tri-Block Copolymer in Aqueous Solution: Rheological Study"

Polymer Science, Series A, 2017, Vol. 59, No. 3, pp. 1–6.

4: **M. Ben Henda**, N. Ghaouar and A. Gharbi: "Rheological Properties and Reverse Micelles Conditions of PPO-PEO-PPO Pluronic F68: Effects of Temperature and Solvent Mixtures"

Journal of Polymers (2013), Article ID 768653.

5: N. Ghaouar, **M. Ben Henda**, A. Aschi, A. Gharbi: "Study of PEO-PPO-PEO copolymers conformational changes: viscosity and dynamic light scattering measurements"

Journal of Macromolecular Science B 50(2011) 2150–2164.

6: M.Jebli, Ch.Rayssi, N.Hamdaoui, S.Rabaoui, J.Dhahri, **M. Ben Henda**, I.Shaarany: "Effect of Nb-doping on the structural and electrical properties of Ba<sub>0.97</sub>La<sub>0.02</sub>Ti<sub>1-x</sub>Nb<sub>4x</sub>/5O<sub>3</sub> ceramics at room temperature synthesized by molten-salt method".

Journal of Alloys and compounds, 2019, Vol 784, Pages 204-212.

## Teaching Experience

Course name	Course code	Zulfi College of Science	Majmaah University
Solid state Physics 1	Phys323	Zulfi College of Science	Majmaah University
Electronics 2	Phys324	Zulfi College of Science	Majmaah University
Electromagnetism 2	Phys312	Zulfi College of Science	Majmaah University
Modern Physics	Phys224	Zulfi College of Science	Majmaah University
Atomic and Molecular Physics	Phys413	Zulfi College of Science	Majmaah University
Nuclear Physics 1	Phys415	Zulfi College of Science	Majmaah University
Nuclear Physics 2	Phys423	Zulfi College of Science	Majmaah University
Nuclear Physics 1 Lab	Phys415	Zulfi College of Science	Majmaah University
Nuclear Physics 2 Lab	Phys423	Zulfi College of Science	Majmaah University

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**Training courses**

D2L, Majmaah University

Black Board, Majmaah University

Web 2, Majmaah University

Matlab, Majmaah University

Infograph , Majmaah University

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**Administrative and Academic Experience**

- Assistant Professor at Majmaah University, KSA.
  - Co-supervisor for two masters, Tunisia.
  - Member In Tunisian Society of Physics
  - Vice Rector of scientific research and postgraduate studies Female section
  - Member of the Basic Science Research Committee, AlMajmaah University
  - Coordinator of Scientific Research Female section.
  - Reviewer in two 'peer review journal'
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**Practical Skills**

Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Matlab,  
graphics software: Origin 6, origin 8, Khaleida Graph, , ISIS Draw, U\_fit, Cassy Lab2.

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**Researcher in**

- Physics Laboratory of Soft Matter and Electromagnetic Modeling, Faculty of Sciences of Tunis.
  - Physics Department, Laboratory of Materials, Majmaah University, KSA.
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