Jouda Jemaa Khabthani
Assistant professor and researcher in FST

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Jouda jemaa Khabthani has obtained his Phd in 1995 from Aimé cotton Laboratory -Orsay-Paris XI- France.
This theses subject was Transverse magneto-optical compression of a frequency-chirping slowed cesium atomic beam under the supervision of Prof. P. Pillet (Aimé Cotton, Orsay).

Research interest

- Quantum transport properties of monolayer graphene and bilayer graphene with resonant adsorbates.
- Quantum transport properties of phosphorene.
- Quantum transport properties of organic semiconductors in solar cells
- Structural and electrical properties in nanotubes/PVDF composite for photovoltaic cell.

Professional positions

- Assistant-Professor, Faculty of Sciences of Tunis (starting from 1998)
- Assistant, Faculty of Sciences of Tunis (1996- 1998)
- Researcher in Laboratory of Condensed Matter Physics.
- Member of ICTP-Network on advanced two-dimensional materials

Recent publications

Numerical analysis of electronic conductivity in grapheme with resonant adsorbates: comparaison of monolayer and bernal bilayer
A. Missaoui, J. J. Khabthani, N. Jaidane, D. Mayou and G. Trambly de Laissardière
Eur. Phys. J. B **90** 75 (2017)

Mobilitiy gap and quantum transport in a functionalized graphene bilayer
A. Missaoui, J. J. Khabthani, N. Jaidane, D. Mayou and G. Tramby de Laissardière
J. Phys.: Condens. Matter **30** 195701 (2018)

Two-dimensional electronic transport in rubrene : the impact of interchain coupling
A. Missaoui, J. J. Khabthani, N-E. Jaidane, G.Trambly de Laissardière, D. Mayou
Entropy **21** (3) 233 (2019)

Quantum localization and electronic transport in covalently functionalized carbon nanotubes
G. Jemai, J. J. Khabthani, G.Trambly de Laissardière, D. Mayou
J. Phys: Condensed Matter **32** 115301 (2020)

Electronic transport properties ans quantum localization effects monitorid by selective functionalization in Bernal bilayer graphene
J. J. Khabthani, A. Missaoui, D. Mayou, G.Trambly de Laissardière
Phys. Rev. B 104, 245125 (2021)