

Ramzi Maalej, PhD in Quantum Physics

https://www.researchgate.net/profile/Ramzi_Maalej

Education

- Jan 2002 – Jan 2007* **University of Sfax** habilitation
HDR, Quantum Physics
Sfax, Tunisia
- Jan 1997 – Jun 2000* **Faculty of Sciences of Tunis El Manar**
PhD thesis (Physics), Quantum Physics
Tunis, Tunisia
- Sep 1991 – Jun 1995* **University of Sfax**
BSc, physics
Sfax, Tunisia

Professional Experience

- Jan 2012 – Present* **Professor (Full)**
Faculty of Sciences of Sfax, Department of Physics
Sfax, Tunisia
- Jan 2007 – Sep 2012* **Associate Professor**
University of Sfax, Department of Physics
Sfax, Tunisia

Awards & Grants

- March 2016* Grant: PROJECT 6: Jena University- Otto schott institute
- Sep 2013* Grant: PROJECT 5: Pukyong National University, Busan (S. KOREA)
- Sep 2012* Grant: PROJECT 4: KFUPM, Dammam (KSA)
- May 2012* Grant: PROJECT 3: Ain Shams University, Cairo (EGYPT)
- Sep 2011* Grant: PROJECT 2: Instituto Tecnológico e Nuclear, Lisbon (PORTUGAL)
- Sep 2009* Grant: PROJECT 1: Instituto Tecnológico e Nuclear, Lisbon (PORTUGAL)

Research fields

Syntheses and characterizations of Nanomaterials for several applications as:

1. Latent fingerprint detection
2. MRI contrast agents and fluorescence imaging
3. Solar energy conversion
4. Naophosphors
5. LED and lasers

Skills : 41 Articles, h index 12

(https://scholar.google.com/citations?user=eTS5B_4AAAAJ&hl=fr)

Languages Arabic, English, French

Scientific Memberships Tunisian Physical Society

Interests CHAIRMAN OF THE ESBM2015 CONFERENCE 01-03 Mai 2015 in Monastir
Organized the "Premier Atelier Interactif de Montage de Projets H2020" from 27-30 Jan 2016 in Sfax

Guest editor in the Journal of IEEE transactions on nanobioscience Journal (October 2015)

Relevant Publications in the domain of Nanotechnologies, advanced materials and advanced manufacturing and processing

R Elleuch, R Salhi, J-L Deschanvres, PG Gucciardi, R Maalej: *Growth rate induced high efficient light trapping/photon conversion ZnO:Nd³⁺ nanodisk shaped thinfilms deposited by AACVD process.* Journal of Alloys and Compounds **12/2015**; 651:756-763. DOI:10.1016/j.jallcom.2015.08.157

M. Saif, Magdy Shebl, A.I. Nabeel, R. Shokry, H. Hafez, A. Mbarek, K. Damak, R. Maalej, M.S.A. AbdelMottaleb: *Novel Non-toxic and Red Luminescent sensor based on Eu³⁺:Y₂Ti₂O₇/SiO₂ Nano-powder for Latent Fingerprint detection.* Sensors and Actuators B Chemical **12/2015**; 220:162-170. DOI:10.1016/j.snb.2015.05.040

Ramzi Maalej: *Introduction to the Special Section on Engineering Sciences for Biology and Medicine Conference (ESBM 2015).* IEEE Transactions on NanoBioscience **10/2015**; 14(7):686.

Ridha ELLEUCH, Rached Salhi, Jean-Luc Deschanvres, Ramzi Maalej: *Highly efficient NIR to visible upconversion in ZnO:Er,Yb thin film deposited by AACVD atmospheric pressure process.* RSC Advances **07/2015**; 5(74):60246-60253. DOI:10.1039/C5RA10442D

Nabil M Maalej, Ahsanulhaq Qurashi, Achraf Amir Assadi, Ramzi Maalej, Mohammed Nasiruzzaman Shaikh, Muhammad Ilyas, Mohammad A Gondal: *Synthesis of Gd₂O₃:Eu nanoplatelets for MRI and fluorescence imaging.* Nanoscale Research Letters **05/2015**; 10:215.

M. Saif, Magdy Shebl, A. Mbarek, A.I. Nabeel, R. Maalej, R. Shokry: *Synthesis of non-toxic phosphor material based on pyrochlore-type dititanate (Eu³⁺/Y₂Ti₂O₇).* Journal of Photochemistry and Photobiology A Chemistry **03/2015**; volume 301:1. DOI:10.1016/j.jphotochem.2014.12.014

R. Elleuch, R. Salhi, J.-L. Deschanvres, R. Maalej: *Antireflective downconversion ZnO:Er³⁺,Yb³⁺ thin film for Si solar cell applications.* Journal of Applied Physics **02/2015**; 055301(5):055301. DOI:10.1063/1.4906976

Rania Hakim, Kamel Damak, Mauro Gemmi, Stefano Luin, Ramzi Maalej, Alessandra Toncelli: *Pr³⁺:BaY₂F₈ Crystal Nanoparticles (24 nm) Produced by High-Energy Ball Milling: Spectroscopic Characterization and Comparison with Bulk Properties.* The Journal of Physical Chemistry C **01/2015**; 119(5):2844-2851. DOI:10.1021/jp510851w

Bheeshma Pratap Singh, Abdul K. Parchur, R S Ningthoujam, Ramakrishna V P, Prabhakar Singh, S B Rai, Ramzi Maalej: *Enhanced up-conversion and temperature-sensing behaviour of Er³⁺ and Yb³⁺ co-doped Y₂Ti₂O₇ by incorporation of Li⁺ ions.* Physical Chemistry Chemical Physics **09/2014**; 16(41). DOI:10.1039/C4CP02949F

References

Professor Christian Russel, Jena University, Germany, email: ccr@uni-jena.de

Professor Eduardo Alves, Lisbon University, Portugal, email: ealves@itn.pt

Professor Alessandra Toncelli, Pisa University, Italy, email: toncelli@df.unipi.it