



CURRICULUM VITAE

Personal information

- **Personal**
 - Prof. Moualkia Hassiba
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Education

- **Ph.D.'s degree** in electronics in 2010
- **Magiter's degree** in semiconductors in 2003
- **ingineer's degree** in electronics in 1996

Functions and Affiliations

- Professor of Physics at Oum El-Bouaghi University, Algeria
- Professor of Applied Physics and Materials Physics, Oum El-Bouaghi University, Algeria
- Master's degree in Applied Physics

Teaching modules

- 1- Semiconductor physics
- 2- Component electronics
- 3- Nanotechnology
- 4- Digital electronics and acquisition
- 5- Photovoltaic conversion
- 6- Heterojunctions and dielectrics
- 7- Bibliographic search

International publications

- 1- **H. Moualkia**, S. Hariech, M.S. Aida, «Growth and physical properties of CdS thin films prepared by chemical bath deposition », Journal of physics D: Applied Physics 42 (2009) 135404 (7pp). (stacks.iop.org/J Phys D/42/135404)
- 2- **H. Moualkia**, S. Hariech, M.S. Aida « Structural and optical properties of CdS thin films grown by chemical bath deposition» Thin Solid Films 518 (2009) 1259-1262. (www.elsevier.com/locate/tsf)
- 3- **H. Moualkia**, S. Hariech, M.S. Aida, «Properties of CdS thin films grown by chemical bath deposition as a function of temperature », Materials Science Forum, Vol 609 (2009) pp 243-247. (<http://www.scientific.net>)
- 4- **H. Moualkia**, N. Attaf, L. Hadjeris, L. Herissi, N. Abdelmalek, “Investigation on chemical bath deposited CdS thin films”, Journal of New Technology and Materials JNTM, Vol. 01, N°00 (2011)47-50 (<http://sites.google.com/sites/jntmjournals>)
- 5- L. Herissi, L. Hadjeris, **H. Moualkia**, N. Abdelmalek, N. Attaf, M.S. Aida, J. Bougdira, “ Realization and study of ZnO thin films intended for optoelectronic applications”, Journal of New technology and Materials JNTM, Vol. 01, N°00 (2011) 39-43. (<http://sites.google.com/sites/jntmjournals>)
- 6- S. Hariech, M.S. Aida, **H. Moualkia**, « Observation of Meyer-Neldel rule in CdS thin films », Materials Science in Semiconductor processing 15 (2012) 181-186. (www.elsevier.com/locate/mssp)
- 7- H. Moualkia, N. Attaf, L. Hadjeris, L. Herissi, N. Abdelmalek, « Preparation and Characterization of CdS Thin Films », publié dans le proceeding de l'IEEE, 978-1-4673-1170-0/12/\$31.00 ©2012 IEEE, de la conference “2012 First International Conference on Renewable Energies and Vehicular Technology” , pp 66-73.
- 8- **H. Moualkia**, G.Rekhila, M.Izerrouken, A.Mahdjoub, M.Trari, “Influence of the film thickness on the photovoltaic properties of chemically deposited CdS thin films: Application to the photodegradation of orange II”, Materials Science in Semiconductor Processing,21,(2014),186–193 (<http://dx.doi.org/10.1016/j.mssp.2013.11.010>)
- 9- N. Abdelmalek, L. Hadjeris, D. Allouane, L. Herissi, S. Rahman, **H. Moualkia**, A. Mahdjoub, “ Structural, Optical and Electrical Properties of ZnO:Fe Thin films grown by spray Pyrolysis” , Journal of New technology and Materials JNTM, (2014) (<http://sites.google.com/sites/jntmjournals>)
- 10- A. Mahdjoub, L. Remache, **H. Moualkia**, B. Bordji, A. HAFID, “ Easily Realizable Heterojunction CdS/CuInSe₂ For Thin Films Photovoltaic Application”, Chalcogenide Letters ,Vol. 12, No. 1, January 2015, P. 51 – 58

- 11- A. Mahdjoub, **H. Moualkia**, L. Remache, A. Hafid, “Analyse Des Spectres De Transmittance Des Couches Minces Par Une Modelisation Mathematique Appropiee », Revue Algerienne De Physique, Volume 2, Numero 1 (2015).
- 12- H. Moualkia, G. Rekhila, A. Mahdjoub, M. Trari, “The semiconducting properties of CdS nanocrystalline thin films prepared by chemical bath deposition. Application to the eosin photodegradation”, Journal of materials science: Materials in electronics, (2017) 28:19105–19112, [http://Springer.com/article/DOI 10.1007/s10854-017-7865-7](http://Springer.com/article/DOI%2010.1007/s10854-017-7865-7)
- 13- H. Cheriet, H. Moualkia, R. Barille, M. Zaabat, O. Mahroua and M. Trari “Morphological, structural and optical characterizations of Zn-doped CdS buffer Layer elaborated by chemical bath deposition”, Surface Review and Letters, (2020) 2050009 (10 pages) <https://www.worldscientific.com/doi/10.1142/S0218625X20500092>

Interests and Qualifications

- **Interests:** Preparation and analysis of materials and study of their physical properties and applications
- **Qualifications:** Supervision of students, conduct research in the field of materials and their applications.
- **Other:** Scientific participation with many scientific teams in materials science