Dr. Pr.AHMED IHLAL

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Specialisation:

- Materials and nanomaterials.
- Solar energy.
- PV and CSP Systems.
- Water-Energy-Agriculture-Nexus.,
- Atmospheric water harvesting,
- Water Dessalination

Current Position:

 Professor of Physics and Renewale Energies, Faculty of Science, Ibn Zohr University.

Educational & Professional Achievements:

- Doctorat ès Sciences Physique, University Ibn ZOHR, 1995.
- Doctorat (Ph.D), University de Caen, France, 1988.
- DEA, SOrbone University (Paris VII), France, 1985.
- Licence ès Sciences Physique, University Mohamed V, Rabat, Morroco, 1984.



PROFESSIONAL CAREER:

1988-present: Professor at Faculty of Science, Ibn Zohr University.

2006-2021: Director of Laboratory of Materials and Renewable Energies

2008-2014: Coordinator of Professional bachelor, Renewable energies and sustainable development

Expert for the Moroccan National Centrer of Technic and scientific Reasearch,

Expert For Centre Marocain de l'innovation,

Expert For Académie Hassan II Sciences et Te chniques

Expert For DLR,

Expert for UM6P (APRD project, Talent Moonshot, ...)

Coordinator and member of numerous National and International research projects:

- Inno EspaMaroc Energy 2021
- Innotherm1,
- InnoPV1,
- PPR,
- CNRST/CNRS (France)
- CNRST/CNR(Italy)
- PHC Toubkal,
- Moroccan/German joint project
- CNRST/FCT (Portugal),
- Morrocan/Canarian joint project,
- Action Intégrée Maroc/Tunisie...

Supervisor of 20 doctorate Student dissertations

Guest Editor Materials Today proceedings and J. Phys. III.

Referee for Renewed Scientific Journals

Visting Professor: France, Germany, Mauritania, Finland, South Korea

Member of organization and scientific committes of numerous international conferences

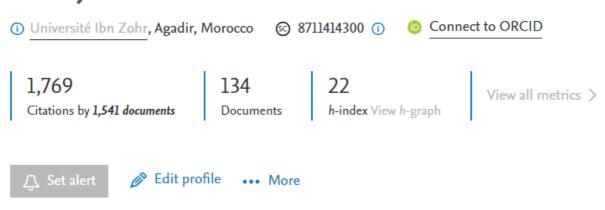
SOME SELECTED RECENT PUBLICATIONS (2020-2024):

- M. Taoufiq, A. Soussi, A. Elfanaoui, A. Aithssi, S.Baoubih, A. Ihlal, and K. Bouabid, DFT theoretical and experimental investigations of the effect of Cu doping within SILAR deposited ZnS, Journal of optical materials, 147 (2024), 114607
- 2. Enhancing electrochemical and photoelectrochemical degradation of organic dyes under visible irradiation with a novel Cu2O/BaHPO4-based photoelectrode, Ahdour, A., Amaterz, E., Taoufyq, A., Ihlal, A., Benlhachemi, A., Journal of Alloys and Compounds, 960 (2023), 170822
- 3. Experimental investigation on rock thermal properties under the influence of temperature, Tiskatine, R., Bougdour, N., Idoum, A., ...Ihlal, A., Aharoune, A., Thermochimica Acta, 720 (2023), 179424
- 4. M. Ouafi.; L. Atourki, D. Barrit, R. Fathallah, H. Ouaddari, L. Laanab, A. Ihlal, Structural and Optical Characterization of MAPbI3 (X=I, Br and Cl) powder as precursor materials for perovskite based optoelectronic devices, Journal of Chemistry and Physics, 301 (2023), 127600
- 5. L. Boulkaddat, A. Soussi, H. Najih, K. Abouabassi, A. Aithssi, N. Labchir, A. Elfanaoui, R. Markazi, K. Bouabid, A. Ihlal, Experimental and theoretical study of electrodeposited CuInS2 thin films for solar cell applications, Physica B: Condensed Matter, 671 (2023), 415374
- 6. A.AitHssi, A. Soussi, N.Labchir, M.Taoufiq,H.Najih, A.Elfanaoui,A.Ihlal,&K.Bouabid A DFT theoretical and experimental study of the effect of indium doping within electrochemical deposited ZnO, Vacuum, 217 (2023), 112503
- 7. A.Soussi, R.Haounati, A.Aithssi, M.Taoufiq, A.Asbayou, A.Elfanaoui, R.Markazi, A.Ihlal and K.Bouabid, First Principle Study of Structural, Electronic, Optical Properties of Co-Doped ZnO, J. Compo. Sci., 7 (2023), 511
- 8. A;Soussi, A. Elfanaoui, A. Aithssi, M.Taoufiq, A. Asbayou, L. Boulkaddat, N. Labchir, R. Markazi, A. Ihlal and K. Bouabid, Morphological, structural, electronic and optical properties of deposited 4d-Mo doped TiO2 thin films compared to first-principles calculations, Materials Today Communications, 36 (2023), 106520
- 9. A.Soussi, A. Aithssi, L.Boulkaddat, N.Labchir, A.Asbayou, A.Elfanaoui, R.Markazi, A. Ihlal, K. Bouabid, and A. Taleb, Structural, optical and electronic properties of La-doped ZnO thinfilms: experimental study and DFT calculations, Physica B: Condensed Matter, 643 (2022), 414181
- 10. K.Abouabassi, A.Sala, L.Atourki, A.Soussi, A.Elfanaoui, H.Kirou, A.AitHssi, K.Bouabid, E.Gilioli, A.Ihlal, Electrodeposited CuSbSe2 thin films based solar cells on various substrates, Journal of Nanoparticles Research, 24 (2022).
- 11. A.Aithssi, E.Amaterz, N.Labchir, A.Soussi, A.Elfanaoui, A.Benlhachemi, A.Ihlal, and K.Bouabid, Electrodeposition of nanostructured cuprous oxide on various substrates and their electrochemical and photoelectrochemical properties, Journal Materials Sci: Mateials in Electronics, 33 ((2022), 15791
- 12. Self-biased coplanar circulator based on electrochemically grown ferrimagnetic nanowires, N. Labchir, A.Hannour, A. Ait Hssi, D.Vincent, and A.Ihlal, Journal of Magnetism and Magnetic Materials, Volume 547, 2022, 168945
- 13. Annealing effect on one step electrodeposited CuSbSe2 thin films, Khadija Abouabassi, Lahoucine Atourki, Andrea Sala, Mouaad Ouafi, Lahcen Boulkaddat, Abderrahim Ait hssi, Nabil Labchir, Khalid Bouabid, Abdelmajid Almaggoussi, Edmondo Gilioli and Ahmed Ihlal, Coatings, 2022, 12, 75
- 14. A.Soussi, A.Aithssi, L.Boulkaddat, M.Boujnah, K.Abouabassi, R.Haounati, A.Asbayou, A.Elfanaoui, R.Markazi, A.Ihlal, K.Bouabid, and N.ElBiaze. First principle study of electronic, optical and electrical properties of Mo doped TiO2, Computational Condensed Matter, 29 (2021), e00606
- 15. Controlled electrochemical growth and magnetic properties of CoFe2O4 nanowires with high internal magnetic field, N. Labchir, Hannour A., Ait Hssi A., Vincent D., Ganster P., Ihlal A., Journal of Alloys and Compounds 868 (2021), 159196
- 16. Effect of doping on the phase stability and photophysical properties of CsPbI2Br perovskite thin films, Atourki L., Bernabe M., Makha M., Bouabid K., Regragui M., Ihlal A., Abd-Lefdil M., Mollar M., RSC advances, 112021), 1440-1449
- 17. Impact of Li doping on the photophysical properties of perovskite absorber layer FAPbI3, Atourki L., Ouafi M., Makha M., Mari B., Regragui M., Ihlal A., Abd-lefdil M., Mollar M., Journal of Alloys and compounds, 850 (2021), 156696
- 18. Enhanced magnetic properties of magneto-electrodeposited Co and Ni nanowires, Labchir N., Hannour A., Ait hssi A., Vincent D., Ihlal A., Sajieddine M., Current Applied Physics, 25 (2021), 33-40
- 19. Electronic and Optical Properties of TiO2 Thin Films: Combined Experimental and Theoretical Study, Soussi A., Ait Hssi A., Boujnah M., Boulkadat L., Abouabassi K., Asbayou A., Elfanaoui A., Markazi R., Ihlal A., Bouabid K, Journal of Electronic Materials, (2021.

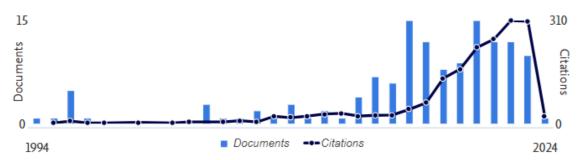
- 20. Investigations on the Growth Mechanism of Nanostructured ZnO: Shedding Light on the Effect of Al3+ Doping, Battas M., Atourki L., Bouabid K., Ihlal A., Abd-Lefdil M., Regragui M., Surface Engineering and Applied Electrochemistry, 2021, 57(1)
- 21. N.Labchir, A.Hannour, A.AitHssi, D.Vincent, A.Soussi, and A. Ihlal, Facile galvanostatic electrodeposition of CoFe2O4 nanosheets from sulfate medium, Journal Materials Sci: Mateials in Electronics, 32 (2021), 27987
- 22. Microwave response of coplanar waveguide based on electrodeposited CoFe2O4 nanowires, N. Labchir, A. Hannour, A. Ait Hssi, D. Vincent, J.P. Chatelon, D. Dufeu, A. Ihlal, M. Sajieddine, Journal of Magnetism and Magnetic Materials, 510 (2020), 166952.
- 23. Synthesis and characterization of CoFe2O4 thin films for solar absorber application, N. Labchir, A. Hannour, A. Ait Hssi, D. Vincent, K. Abouabassi, A. Ihlal, M. Sajieddine, Materials Science in Semiconductor Processing, 111 (2020); 104992.
- 24. Electrodeposition of oriented ZnO nanorods by two-steps potentiostatic electrolysis: Effect of seed layer time, A. Ait hssi, L. Atourki, N. Labchir, M. Ouafi, K. Abouabassi, A. Elfanaoui, A. Ihlal and K. Bouabid, Solid State Sciences, 104 (2020), 106207.
- 25. Highly Efficient Nanostructured CoFe2O4 Thin Film Electrodes for Electrochemical Degradation of rhodamine B, N. Labchir, A. Hannour, D. Vincent, A. Ihlal, M. Sajieddine, Water Environment Research. 92 (2020), 759-565.
- 26. High-quality Cu2O thin films via electrochemical synthesis under a variable applied potential, A. Ait hssi, L. Atour-ki, N. Labchir, M. Ouafi, K. Abouabassi, A. Elfanaoui, A. Ihlal, S. Benmokhtar, and K. Bouabid, Journal of Material Science: Materials in Electronics, 31 (2020), 4237-4244.
- 27. Tailoring the Optical Bandgap of Pulse Electrodeposited CoFe2O4 Thin Films, N. Labchir, A. Hannour, A. Ait Hssi, D. Vincent, M. Ouafi, K. Abouabassi, A. Ihlal, M. Sajieddine, Journal of Electronic Materials, 49 (2020), 2242-2248.
- 28. Decentralized and Communicating Management of a Hydrogen-Based Microgrid, L. Elmahni, L. Bouhouch, A. Ihlal, B. Boukhris, Jour. of Adv. Research in Dynamical & Control Systems, Vol. 12, 03-Special Issue, 2020,

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Ihlal, A.



Document & citation trends



PUBLICATION RECORDS (GoogleScholar):

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