

**Associate Professor
Dr. Huda Abdullah**

PhD(UPM), MIEEE, MIMASS, MIFM, YSN-ASM

EXPERTISE

- **Nanomaterials and its fabrication**
- **Semiconductor and magnetic materials**
- **Mathematical modelling and simulation in materials**

RESEARCH

- **Synthesis of nanomaterials**
- **Fabrication in solar cell application (DSSC)**
- **Lab-on-a chip for microbial biosensor**
- **Dielectric materials for patch antenna**
- **IC Packaging**
- **Colossal magnetoresistance**
- **Mathematical modelling and simulation in materials**

PROFESIONAL AFFILIATIONS

- **MASS- member**
- **IFM -member**
- **IEEE-member**
- **YSN-ASM – Exco member**
- **GYA -member**
- **MNA – committee member**
- **ICTP, Italy – affiliate member**
- **L'oreal FWIS- fellow**

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BRIEF RESEARCH/COMMUNITY/CONSULTATION SNAPSHOT

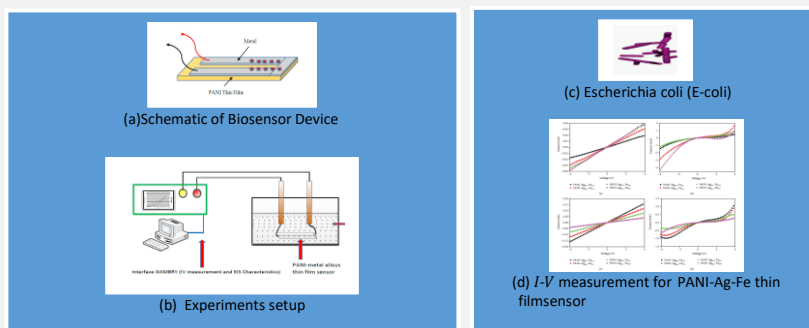


Fig. 1. E.coli biosensor

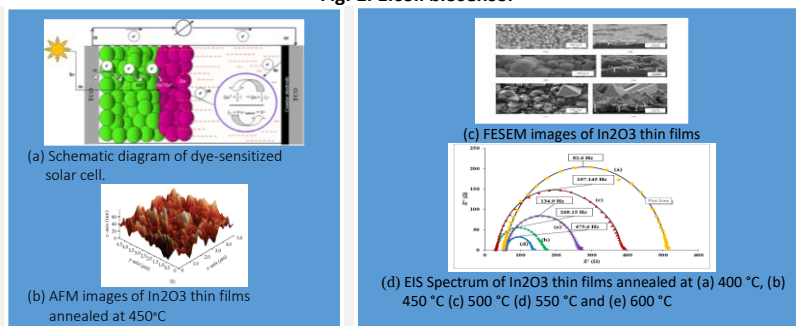


Fig. 2. DSSC

SELECTED PUBLICATIONS

1. **S Mahalingam, H. Abdullah, I Ashaari, S Shaari, A Muchtar, 2016. Optical, morphology and electrical properties of In2O3 incorporating acid-treated single-walled carbon nanotubes based DSSC, Journal of Physics D: Applied Physics 49 (7), 075601.**
2. **MS Zulfakar, H. Abdullah, WNW Jalal, MT Islam, 2016. Effect on structural, optical and dielectric properties of mixed (1- x) ZnFe2O4-xSiO2 as microwave dielectric ceramic material, Journal of Sol-Gel Science and Technology 77 (1), 218-227**
3. **S. Mahalingam, H. Abdullah, I. Ashaari, S. Shaari, A. Muchtar, 2015. Influence of heat treatment process in In2O3-MWCNTs as photoanode in DSSCs, Ionics, pp 1-9.**
4. **Norshafadzila Mohammad Naim, H. Abdullah, Akrajas Ali Umar, Aidil Abdul Hamid adn Sahbudin Shaari, 2015, Thermal Annealing Effect on Structural, Morphological and Sensor Performance of PANI-Ag-Fe Based Electrochemical E.coli Sensor for Environmental Monitoring, The Scientific World Journal, Volume 2015, Article ID 696521, 8 pages**
5. **H. Abdullah, Noor Aishah Atiqah, A. Omar, Izamarlina Asshaari, Savisha Mahalingam, Zikri Razali, Sahbudin Shaari, J. S. Mandeep, Halina Misran, Structural, morphological, electrical and electron transport studies in ZnO-rGO(wt% = 0.01, 0.05 and 0.1) based dyesensitized solar cell, J Mater Sci: Mater Electron (2015) 26 (4): 2263–2270**
6. **Huda Abdullah, Norshafadzila Mohammad Naim, NoorAzwen Noor Azmy, Aidil Abdul Hamid, PANI-Ag-Cu Nanocomposite Thin Films Based Impedimetric Microbial Sensor for Detection of E. coli Bacteria, Journal of Nanomaterials Volume 2014, Article ID 951640, 8 pages**
7. **H. Abdullah, N. P. Ariyanto, B. Yulianto, I. Asshaari, A. Omar, M. Z. Razali. 2015. Influence of structural and chemical properties on electron transport in mesoporous ZnO-based dye-sensitized solar cell, Ionics, Number 1, Volume 21:251-261**