

# Ahmed Muneer Alkaklikgy

*Nano-Devices*

📍 Mosul/Iraq



## Profile

*Becoming a leading scientist at the interface of Nanomaterial's and graphene-based device's technology. Developing innovative new ways to improve the performance for those devices. Making a lasting contribution to health-care in an inspiring internationally oriented environment as an academic faculty. Currently, I am working as an inventor for developing a new ways for preparing graphene devices at Mosul University.*



## Employment History

Lecturer at Mosul University, Mosul, Iraq,

Lecturer at University of Mosul, IRAQ  
January 2021 – Up to now



## Education

Doctor of Philosophy, Plymouth university, UK  
October 2014 – May 2019  
*Renewable energy/ Biosensors, transistors, CVD technology*

Master of Science (M.Sc.) in Solid state/Physics, University of Mosul, IRAQ  
October 2009 – May 2011  
*Semiconductor technology*

Bachelor of Science (B.Sc.), University of Mosul, IRAQ  
October 2001 – July 2005



## Courses

Advanced Teaching Methods, University of Mosul, IRAQ  
May 2012 – June 2012



## References

Professor **Genhua pan** from Plymouth University  
[genhua.pan@Plymouth.ac.uk](mailto:genhua.pan@Plymouth.ac.uk)

Professor David Jenkins from Plymouth University  
[David.jenkins@Plymouth.ac.uk](mailto:David.jenkins@Plymouth.ac.uk)

## Details

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[Ahmed.198381@yahoo.com](mailto:Ahmed.198381@yahoo.com)

DATE / PLACE OF BIRTH

**1983/09/06**  
**Mosul/IRAQ**

## Social Profiles

**ResearchGate**  
[https://www.researchgate.net/profile/Ahmed\\_Suhail5](https://www.researchgate.net/profile/Ahmed_Suhail5)

## Google scholar

[https://scholar.google.co.uk/scholar?hl=en&as\\_sdt=0%2C5&q=ahmed+suhail+plymouth+university&oq=](https://scholar.google.co.uk/scholar?hl=en&as_sdt=0%2C5&q=ahmed+suhail+plymouth+university&oq=)

## Skills

- 1- Developing solar cells and electrochemical biosensors.
- 2- Expert in the fabrication of graphene-based devices (Solar cells and Biosensors).
- 3- Expert in wet transfer process of 2D materials (CVD-graphene).
- 4- Fabrication of organic semiconductors.
- 5- Software: Microsoft Windows, Microsoft office and Sigma plot.
- 6- Supervisory & Teaching
- 7- Labs Safety Procedures

## Languages

Arabic

English

## Conferences

Ahmed Suhail, Genhua Pan, David Jenkins, A new graphene/Si schottky junction solar cell structure with backcontacting graphene, 2nd International Conference on Graphene technology (ANM), University, of Aveiro, Portugal (2016)

Ahmed Suhail, Kamrul Islam, Genhua Pan, David Jenkins, Nick Fry, Shaping of graphene using Argon Plasm, 1st International Conference on Nanoscience and Nanotechnology (ICNAN '16), VIT University, India, (2016) [Prize awarded for best oral presentation]

Ahmed Suhail, Genhua Pan, David Jenkins, A new graphene/ Si schottcky junction solar cells with back contacting graphene, American Graphene Forum, Royal Caribbean Cruise, Miami, USA, (2016) [Prize awarded for best oral presentation].

Carrie Haslam, Kamrul Islam, Ahmed Suhail, Toby Whitley, Paul Davey, Shakil A. Awan. "A label-free and ultrasensitive immunosensor for detection of human chorionic gonadotrophin based on graphene FET." Biodection & Biosensors, Cambridge, UK (2016).

Ahmed Suhail, Genhua Pan, David Jenkins, Kamrul Islam, Highest conversion efficiency of graphene/Si schottky junction solar cell with a graphene back-contact cell structure, 14th International conference on Nano sciences and Nanotechnology (NN17), Thessaloniki, Greece, (2017) [Prize awarded for best oral presentation].

Kamrul Islam, Genhua Pan, Bing Li, and Ahmed Suhail. "Graphene Biosensors for Ultrasensitive and Reproducible Detection of Disease Biomarkers, 14th International Conference on Nanosciences & Nanotechnologies (NN17), Thessaloniki, Greece (2017)

Kamrul Islam, Bing Li, Ahmed Suhail, Shakil Awan, and Genhua Pan, Graphene Biosensors for Reproducible and Ultrasensitive Detection of Disease Biomarkers." BiosenseDementia, Plymouth, UK (2017).

Ahmed Suhail, Genhua Pan, David Jenkins and Kamrul Islam, Development of graphene/Si solar cells." Indiana summit, Plymouth, USA (2019).

Kamrul Islam, Ahmed Suhail and Genhua Pan, Graphene Biosensors for Reproducible and Ultrasensitive Detection of Disease Biomarkers." Indiana summit, Plymouth, USA (2019).

## Publications:

*K. Islam, Ahmed Suhail, G. Pan, A Label-Free and Ultrasensitive Immunosensor for Detection of Human Chorionic Gonadotrophin Based on Graphene FETs, Biosensors 7(3) (2017) 27.*

*B. Li, G. Pan, Ahmed Suhail, K. Islam, N. Avent, P. Davey, Deep UV hardening of photoresist for shaping of graphene and lift-off fabrication of back-gated field effect biosensors by ion-milling and sputter deposition, Carbon 118 (2017) 43-49.*  
Date of birth:

*Ahmed Suhail, G. Pan, K. Islam, D. Jenkins, A. Milne, Effective chemical treatment for high efficiency graphene/Si Schottky junction solar cells with a graphene back-contact structure, Advanced Materials Letters 8(10), 977-982 (2017).*

*Ahmed Suhail, K. Islam, B. Li, D. Jenkins, G. Pan, Reduction of polymer residue on wet-transferred CVD graphene surface by deep UV exposure, Applied Physics Letters 110(18) (2017) 183103.*

*Ahmed Suhail, G. Pan, D. Jenkins, K. Islam, Improved efficiency of graphene/Si Schottky junction solar cell based on back contact structure and DUV treatment, Carbon 129 (2018) 520-526.*

*K. Islam, S. Damiaty, J. Sethi, Ahmed Suhail, G. Pan, Development of a Label-Free Immunosensor for Clusterin Detection as an Alzheimer's Biomarker, Sensors 18(1) (2018) 308.*

K. Islam, S. Damiati, J. Sethi, Ahmed Suhail, G. Pan, Development of a Label-Free Immunosensor for Clusterin Detection as an Alzheimer's Biomarker, *Sensors* 18(1) (2018) 308.

Ahmed Suhail. "Graphene/silicon Schottky junction solar cells with high efficiency." PhD diss., University of Plymouth, 2019.

Sethi, J., Van Bulck, M., Ahmed Suhail, Safarzadeh, M., Perez-Castillo, A., & Pan, G. (2020). A label-free biosensor based on graphene and reduced graphene oxide dual-layer for electrochemical determination of beta-amyloid biomarkers. *Microchimica Acta*, 187, 1-10.

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