

MANAL ALHAZMI

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PROFESSIONAL SUMMARY

Enthusiastic Assistant Professor in physics with experience in research, teaching. Meticulous and methodical in approach to all tasks, guaranteeing high quality results in line with physics department and science college specifications.

WORK HISTORY

Assistant Professor, 07/2020 – Current
Jazan university, Jazan, Saudi Arabia

- Lecturer at Jazan university with experience teaching courses in undergraduate level.
- Worked with administrators on academic advising to support needs of students.

Seminars presented inside physics department:

Electromagnetic and thermal actuation in Van der Waals heterostructures, 2020.

Membership In Physics Department & Science College Committees:

- Assistant Member and supervisor of the student activities Unit in the girls campus, College of Science, 2021–2022
- Member of the Exit Exam Committee, 2021–2022
- Member of the Planning & Development Committee, 2021–2022
- Member of the Students Affairs and Academic Advising Committee, 2021–2022
- Member of the Alumni and Community Service Committee, 2021–2022
- Member of the personal Interview Committee for applicants for the post of assistant professor, 2020–2021
- Member of the Alumni & Community Partnership Committee, 2020–2021
- Member of the Exam & schedules Committee, 2020–2021

Lecturer in Physics , 10/2014 – 07/2020

Jazan university, Jazan, Saudi Arabia

- Lecturer at Jazan university with experience teaching courses in undergraduate level.

SKILLS

- Journal publication procedures
- Literature analysis
- Academic advisement
- Course material preparation
- Efficient research capabilities
- Functional communication skills in English: both written and verbal

EDUCATION

- **Doctor of Philosophy, Physics, 07/2020**
University of Manchester – Manchester, United Kingdom
- **Master of Applied Science, Mechanical Engineering-Nanotechnology, 06/2014**
University of Waterloo – Waterloo, Canada
- **Bachelor of Science, Physics, 06/2007**Jazan University – Jazan, Saudi Arabia

LAB EXPERIENCE

- Nano-imprint lithography
- Photolithography
- E-beam Evaporation
- Mechanical exfoliation and transfer techniques for 2D materials
- Reactive Ion Etching (RIE)
- Atomic Force Microscopy (AFM)
- Scanning Raman spectroscopy
- IR spectroscopy
- Scanning Electron Microscopy (SEM)
- Keithley 4200 SCS semiconductor characterization system

LANGUAGES

Arabic: Native language

English: C2

Master or proficient

Spanish: A2

Elementary

MEMBERSHIP

Member of the Institute of Physics IOP. 2020–2021

AWARDS

- Distinction Award from the Saudi Cultural Bureau in Canada, 2012.
- The University of Waterloo Graduate Scholarship award, 2013.
- Distinction Award from the Saudi Cultural Bureau in the United Kingdom, 2017.
- Distinction Award from the Saudi Cultural Bureau in the United Kingdom, 2018.

PUBLICATIONS

- Seok-Kyun Son, Makars Šiškins, Ciaran Mullan, Jun Yin, Vasyl G Kravets, Aleksey Kozikov, Servet Ozdemir, Manal Alhazmi, Matthew Holwill, Kenji Watanabe, Takashi Taniguchi, Davit Ghazaryan, Kostya S Novoselov, Vladimir I Fal'ko & Artem Mishchenko, Graphene hot-electron light bulb: incandescence from hBN-encapsulated graphene in air. *2D Materials* 2017, 5(1).
- Yu. N. Khanin, E. E. Vdovin, M. V. Grigor'ev, O. Makarovskiy, ManalAlhazmi, S. V. Morozov, A. Mishchenko & K. S. Novoselov, Tunneling in Graphene/h-BN/Graphene Heterostructures through Zero-Dimensional Levels of Defects in h-BN and Their Use as Probes to Measure the Density of States of Graphene. *JETP Letters* 2019, 109(7): 482-489.
- M Alhazmi, OM Ramahi, M Irannejad, A Brzezinski, M Yavuz et al., "NSTOA-13-RA-108 Comparison of the Effects of Varying of Metal Electrode in Metal-Insulator-Metal Diodes with multi- dielectric layers", *Austin J Nanomed Nanotechnol.*, vol. 2, no. 2, pp. 1014, 2014.
- F Aydinoglu, M Alhazmi, B Cui, O M Ramahi, M Irannejad et al., "Higher Performance Metal-Insulator Metal Diodes using Multiple Insulator Layers", *Austin J Nanomed Nanotechnol.* 1, vol.3, no. 1, 2014.
- M. Alhazmi, M. Yavuz and B. Cui, Contrast curve engineering by using multi-layer polystyrene electron beam resist, 57th International Conference on Electron, Ion and Photon Beam Technology and Nano-fabrication (EIPBN), Nashville, May 2013.
- F. Aydinoglu, M. Alhazmi, S. Alqarni, B. Cui, O. M. Ramahi and M.Yavuz, "Design and Fabrication of Pt-Al₂O₃-Al Metal-Insulator-Metal Diode," accepted for publication in the 24th Canadian Congress of Applied Mechanics (CANCAM 2013), Saskatoon, Saskatchewan, Canada, June 2-6, 2013.
- C. Con, M. Alhazmi, M. yavuz and B. cui, freeze-drying for the reduction of e-beam resist collapse, MNE conference in London(UK), September 2013.

CONFERENCES & WORKSHOPS CERTIFICATES

- Microscience Microscopy Congress 2023 incorporating EMAG, at Manchester, UK
- Conference on Computational Plasma Physics held in university of York, 2017
- Advances in Quantum Transport in Low Dimensional Systems held at University College London (UCL), 2017
- The 24th Canadian Congress Of Applied Mechanics CANCAM -2013
- The 57th International Conference on Electron, Ion and Photon Beam Technology and Nanofabrication (EIPBN), Nashville - 2013
- Certified Trainers Course (TOT)