Curriculum Vitae for XMUM Official Website

Name	**MohammadMahdi Ariannejad**
Current Position	Lecturer
Administrative Position (if applicable)	-
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Programme	Electrical and Electronics Engineering
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BIOGRAPHY

Dr. MohammadMahdi Ariannejad is currently a lecturer at Xiamen University Malaysia. He is a registered Graduate Engineer under Board of Engineering Malaysia (BEM), Graduate member of The Institution of Engineers, Malaysia (IEM), member of MIET and member of Malaysia Board of Technologists and member of Institute of Electrical and Electronic Engineering. He received his B. Eng. Electrical Engineering-Electronics from University Iran in 2010. He obtained M.Sc. (Microelectronics) from Universiti Kebangsaan Malaysia in 2013 and PhD in Photonics engineering from the university of Malaya, Malaysia in 2019. He worked as Research Assistant in Photonics research centre, University of Malaya in 2015. He has published more than 30 journals/conferences papers and books/chapters in Optical Soliton Communications, Laser Physics, photonics, Nonlinear fiber optics, and Nanotechnology. He joined Xiamen University Malaysia in March, 2020 as Lecturer at Department of Electrical and Electronics Engineering.

RESEARCH INTERESTS

Ultrafast laser, Multi- wavelength Laser, Optical modulator, Photonics based Microwave, Waveguide design, Mirroring resonators, Nonlinear Optics, Micro and nano fabrication (MEMS and NEMS), Silicon and polymer waveguide fabrication, Solar cell fabrication, CPU architecture, IoT and communication systems.

EDUCATIONAL BACKGROUND

- PhD (Photonics Engineering), University of Malaya (UM), Malaysia (2019).
- MSc (Microelectronic Engineering), National University of Malaysia (UKM), Malaysia (2013)
- BSc (Electrical Engineering- Electronics), Azad university, Iran (2010)

WORKING EXPERIENCE

- Postdoctoral Research Fellow, Photonics Research Centre Lab, University of Malaya (UM), Malaysia (2019-2020).
- Lecturer, Xiamen University Malaysia, Malaysia (2020 - Present).

RESEARCH EXPERIENCE / GRANTS

- Silicon Micro Ring Resonator as Refractive Index Sensor with THz Generation Application – Principal Researcher
- Investigation of Electromagnetic Power Transfer Efficiency in Batteryless Mouse Using Spiral Resonator – Co Researcher

- Effective Optimization of Off-Grid Solar-Wind Hybrid Renewable Energy Harvesting Systems – Co Researcher

REPRESENTATIVE PUBLICATIONS

- Double-side polished fiber for generation of mode-locked fiber lasers, Optics Communications,2020
- Growth of magnetic binary metal oxides on reduced graphene oxide sheets and its application as saturable absorber in mode-locked Tm/Ho Co-doped fiber laser, Optical Materials,2020
- Silicon sub-wavelength grating resonator structures for gas sensor, Superlattices and Microstructures, 2020
- Narrow bandwidth optimization using a polymer microring resonator in a thulium holmium fiber laser cavity, Optics Communications, 2020
- Urea sensor by racetrack silicon resonator, Optik, 2020

HONORS/AWARDS

- Keynote speaker for few conferences
- Editorial board and reviewer of ISI journals.