



Karim Shelesh-Nezhad

Professor

College: Mechanical Engineering

#### Education

| Degree | Graduated in | Major                                    | University                                |
|--------|--------------|--|---|
| BSc    | 1989         | Mechanical and Manufacturing Engineering | Tehran Amirkabir University, Tehran, Iran |
| MSc    | 1994         | Mechanical and Manufacturing Engineering | Wollongong University, Australia          |
| Ph.D   | 1998         | Mechanical and Manufacturing Engineering | QUT, Australia                            |

#### Executions And Scientific Activities

- Composites and nanocomposites: processing, testing, modeling and failure analysis
- Optimization of polymer blends and composites formulations for engineering applications and additive manufacturing
- Mechanical properties of polymer composite laminates and fiber metal laminates (FML)
- Fracture, wear and dynamic-mechanical-thermal analysis (DMTA)
- Interface characterization in polymer composites and bonded joints
- Electro-physical and electro-chemical surface modifications
- Laser engraving and Laser-induced graphene (LIG)

#### Papers in Conferences

1. K. Shelesh & Nezhad, A.R. Akbarzadeh. Manufacture of piezo-resistive sensor based on laser-induced graphene on Polyimide film .The 6th Iranian international conference on microelectronics (IICM ۲۰۲۴), University of Tabriz, Iran. ۲۹-۳۱ Oct. ۲۰۲۴.

#### Papers in Journals

1. K. Shelesh ,& Nezhad, A. Abedinzadeh, T.N. Chakherlou, The effect of laser-texturing configurations on the interfacial resistance of carbon reinforced aluminum laminate, Composite Interfaces. 2023, VOL. 30, NO. 1, 103–122, 2023.