

In The Name Of GOD

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### **Education**

#### **B.Sc.**

**University:** Iran University of Science and Technology

**Major:** Materials engineering

**Thesis:** Effect of Mechanical and Heat Treatment on TiC Synthesis from ilmenite

**Supervisor:** Dr. Goodarzi, Dr. Saghafian

#### **M.Sc.**

**University:** Tarbiat Modares University

**Major:** Nanotechnology- Nanomaterials

**Thesis:** Effect of Liquid Environment on Properties of Aluminum Based Nanoparticles Synthesized by Electrical Discharge

**Supervisor:** Dr. Poursalehi

#### **Ph.D.**

**Major:** Nanotechnology

### **Research Interests:**

Nanostructures Synthesis, Modification, Characterization & Applications

Nanocomposites

Thin Films



## ***Publications:***

### ***Journal Articles:***

- M. Farajimotlagh, R. Poursalehi, M. Aliofkhazraei, “Synthesis mechanisms, optical and structural properties of  $\eta$ -Al<sub>2</sub>O<sub>3</sub> based nanoparticles prepared by DC arc discharge in environmentally friendly liquids”, *Ceramics International* 43(2017) 7717–7723
- M. Faraji, R. Poursalehi, M. Aliofkhazraei, “The Effect of Surfactant on Colloidal Stability, Oxidation and Optical Properties of Aluminum Nanoparticles Prepared via Dc Arc Discharge in Water”, *Procedia Materials Science* 11 ( 2015 ) 684 – 688

### ***Conference Article:***

- M. Faraji, R. Poursalehi, M. Aliofkhazraei, “Size, Structure and Optical Properties of Aluminum and Aluminum Oxide Nanoparticles Prepared by DC Arc Discharge in Different Carrier Media”, *Proceedings of 5th International Congress on Nanoscience & Nanotechnology (ICNN2014)* 22-24 October 2014, Tehran, Iran