

# MAJDODDIN MOJADDAMI

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## EDUCATION

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- 2014-Now *Sharif University of Technology, Tehran, Iran.*
  - ◊ Ph.D. in Materials Engineering and Metallurgy
- 2011-2013 *Sharif University of Technology, Tehran, Iran.*
  - ◊ M.Sc. in Materials Selection and Characterization
  - ◊ Thesis: Synthesizing one-dimensional TiO<sub>2</sub> nanostructure for dye-sensitized solar cell application
- 2005-2010 *Iran University of Science and Technology (IUST), Tehran, Iran.*
  - ◊ B.Sc. in Materials Engineering (Industrial Metallurgy)
  - ◊ Overall GPA: 17.06 / 20
  - ◊ Last two years GPA: 18.32 / 20
- 2001-2004 *Feyz high school, Tehran, Iran.*
  - ◊ Diploma in mathematics and physics (Overall GPA: 19.51/20)

## PUBLICATIONS AND RESEARCH EXPERIENCE

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- **M.Mojaddami**, Z.A.Garmaroudi, M.R.Mohammadi, H.R.Madaah Hosseini, “Efficient dye-sensitized solar cells based on TiO<sub>2</sub> nanoparticles and skein-like nanotubes: Effect of arrangement modes of the layers and TiCl<sub>4</sub> treatment”, *Journal of the Taiwan Institute of Chemical Engineers*, 2016, 61, pp 138-146.
- **M.Mojaddami**, M.R.Mohammadi, H.R.Madaah Hosseini, “Improved efficiency of dye-sensitized solar cells based on a single layer deposition of skein-like TiO<sub>2</sub> nanotubes”, *Journal of the American Ceramic Society*, 2014, Vol. 97, pp 2873–2879.
- **M.Mojaddami**, M.R.Mohammadi, H.R.Madaah Hosseini, “A facile route to dye-sensitized solar cells with a single layer deposition of skein-like TiO<sub>2</sub> nanotubes”, 29th European Photovoltaic Solar Energy Conference and Exhibition (EU PVSEC), 2014, Visual presentation.
- **M.Mojddami**, M.R.Mohammadi, H.R.Madaah Hosseini, “A facile method for changing TiO<sub>2</sub> nanostructures”, *Iran Nano Conference*, May 2012.
- **M.Mojaddami**, S.Rastegari, H.Arab, H.Rafiee, “Effect of heat treatment on coating microstructure applied by high activity diffusion process on IN738LC”, *Surface Engineering*, 2012, 28, pp 772-777.
- H.Rafiee, S.Rastegari, H.Arab, **M.Mojaddami**, “Effects of temperature and Al-concentration on formation mechanism of an aluminide coating applied on super alloy IN738LC through a single-step high activity gas diffusion process”, *Iranian Journal of Materials Science & Engineering*, 2010, 7, pp 41-49.
- **M.Mojaddami**, A.R.Farhadizadeh, H.Arab, S.Rastegari, “Effect of activity and amount of aluminum on composition and microstructure of an aluminide diffusion coating applied on a nickel-base superalloy in high temperature”, *IMES & IRFS joint congress*, November 2010, oral presentation.

## ADDITIONAL EDUCATION

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- *Industrial Training:*
  - ◇ Petropars Ltd. (oil and gas developer), QC section (~3 months)
  - ◇ Kankav company (welding inspection),ultrasonic testing section (2 months)
- *Workshops:*
  - ◇ Nano technology (principles, laboratory, CNT's, nano composites, bio-nano materials, modeling)
  - ◇ Ultrasonic testing (UT) level II.
  - ◇ Coating on surfaces (Thermal Spray)
  - ◇ Green management

## FIELDS OF INTEREST

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- Water Splitting
- Semiconductor nanomaterials
- Optoelectrical nanomaterials for solar cells & fuel cells

## HONORS AND AWARDS

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- Ranked 8 among more than 6,000 participants in nation-wide university entrance exam for M.Sc. studies in Materials Engineering, 2011.
- One of Acclaimed students of Department of Metallurgy and Materials Engineering, IUST, 2006.
- Ranked among top 1% of more than 300,000 participants in nation-wide university entrance exam for B.Sc. studies, 2005.
- Advancing to the second round of National Computer Olympiad, 2003.
- Advancing to the second round of National Literature Olympiad, 2003.

## LANGUAGE SKILLS

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- English: TOEFL iBT      Total: 94

Reading	Listening	Speaking	Writing
25	23	22	24

## COMPUTER SKILLS

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- Solid Works (Basic)
- ANSYS (Basic)
- MATLAB (Basic)
- MS Office (Word, Excel, PowerPoint)

## WORK EXPERIENCE

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- Manager of the young's branch of the municipality of district 4 of Tehran, Aug. 2008 to Mar.2009.
- Part-time accountant of three home appliance shops, Jul. 2006 to Jul. 2007.

## REFERENCES

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- Available on request.