

SEYED POUYA MOHAMMADI

Gender: Male | Year of birth: 1984 | Nationality: Iranian

Roodaki St., Tehran-Iran

Phone: (+98) 919-139 7981 | mohammadi_pouya@alum.sharif.edu

http://alum.sharif.edu/~mohammadi_pouya/

<https://ir.linkedin.com/in/seyed-pouya-mohammadi-1a12b6112>

EDUCATION

Apr 2017 – present: M.S., Master of Business Administration (MBA), University of The People, CA-USA

- ⇒ An online MBA course with a focus on Financial Management, Marketing Management, Strategic Decision Making and Management, Organization Theory and Behavior, etc.

2010: M.S., Materials Science & Engineering – Sharif University of Technology, Tehran-Iran

- ⇒ Master thesis research studied Nano hydroxyapatite–Carbon nanotube composite Coating on 316L Stainless Steel applied via Sol-Gel Method. The results evidenced the positive effect of CNTs on the crystallization of HAp.

- ⇒ Supervisors: Prof. A. Nemati and Dr. Ing. Z. Sadeghian

2007: B.S., Materials Science & Engineering – Sharif University of Technology, Tehran-Iran

Relevant Coursework Taken:

Managerial Accounting ■ Organization Theory and Behavior

Biomaterials ■ Bioceramics in medicine ■ Methods of materials characterization/Lab

Mechanical Metallurgy/Fracture, Fatigue & Creep ■ Powder Metallurgy

RESEARCH INTERESTS

Materials and Biomaterials Science and Engineering

- ✓ Micro/nanoscale characterization in bulk and thin film nanomaterials
- ✓ Structural Analysis of Materials (SEM/TEM)
- ✓ Thin Film Deposition

- ✓ Synthesis, characterization and applications of novel Hydrogels as biomaterials

Business and Management

- ✓ Business & management education
- ✓ Marketing management
- ✓ Online business development

RESEARCH EXPERIENCE

Jun 2013 - present: Member of research group, focused on the investigation the effect of TiO₂-CNTs composite coatings on corrosion behavior of Aluminum 1050 alloys, Sharif University of Technology

Apr 2013 - present: Investigation on synthesis processes of modern hydrogels and their applications in drug delivery, Sharif University of Technology

Feb 2012 - Dec 2012: Cooperation in an investigation focused on studying the structural and functional properties TiO₂ thin films produced by DC Magnetron Sputtering, Sharif University of Technology

ATTENDED WORKSHOPS

SALES ENGINEERING, held by Nikan Business Academy, Tehran (Winter 2016)

HEALTH, SAFETY, ENVIRONMENT workshop, held by SEP student chapter, Sharif University of Technology (Summer 2010)

THE WELDING AND JOINING TECHNOLOGIES IN PETROLEUM INDUSTRY workshop, held by SEP student chapter, Sharif University of Technology (Summer 2010)

Working with Adobe Photoshop certificate, issued by Quay Audit UK Limited, (Summer 2012)

Working with CorelDRAW certificate, issued by Quay Audit UK Limited, (Spring 2012)

WORK EXPERIENCE

Sep 2014 - Present: Ashour Fidar Kish Co., Kish Island, Iran (www.ashoursupply.com)

- Sales Engineer at Ashour Fidar Co. as a part of supply chain of oil and gas service companies in Kish Island, Iran. The job involves preparing technical and commercial quotations, providing pre-sales technical assistance and after-sales support services as well as administering client accounts etc. Ashour Fidar Co. provides its clients with variety of requirements such as consumables, hand tools, spare parts and personal protective equipment (PPE).

Dec 2012 - Sep 2014: Metals and Materials Industry Consultants Co., Tehran, Iran (www.amc-co.ir)

- Feasibility study on Khatoon Abad Copper Smelter plant's expansion up to 200,000tpa copper anode and construction the sulphuric acid plant as a consumer of smelter's SO₂ emission, a project that's basic engineering has been conducted by *Outotech*[®] Co. (May 2010) and *Metals and Materials Co.* has evaluated and analyzed the proposed project in 3 parts including: Market studies, Technical analysis and Economic analysis utilizing *COMFAR III* software (Feb 2013).
- Feasibility study on Golgohar Ferrochrome plant in Sohar, Oman, with the capacity of 100,000tpa ferrochrome smelting and 200,000tpa sintering. Basic engineering of this project has been conducted by *Outotech*[®] Co. (March 2013). *Metals and Materials Co.* did a feasibility study including Market analysis, Technical and Economic evaluation on the proposed project (Aug 2013).

Jun 2009 - Nov 2012: SAITech Co., Tehran, Iran

- Designing the copper converter furnace (including refractory lines and materials, exhaust gas exit through spray cooler, dust collection equipment), (Jun. 2009)
- Designing the materials conveying system, including; stocks, bins and belts, (Aug. 2009)
- Technical and economical studying of high carbon steel wire and string production in Iran), (Sep. 2009)
- Design of copper heap leaching process (including primary tests, liner and studies about size of particles, (Nov. 2009)
- Well to Wheel Analysis of Hydrogen Fuel: The cost of Hydrogen production and transportation through different pathways for Iran has been analyzed. At the end of that study price of Hydrogen was compared with Gasoline and Natural Gas, as common vehicle's fuels in Iran (Dec 2012)

Aug 2007 - Feb 2008: Fanavarane behgozin Co., Tehran, Iran

- Design of refractory lines and refractory materials selection for a copper anode smelting flame furnace, (Aug. 2007)
- Assessment of the market of chemical compounds used in minerals extraction processes, (Sep. 2007)
- Evaluation world's production volume of steel plates used in gas and petroleum transportation pipelines, (Jan. 2008)

PUBLICATIONS

- 1) A. Shadravan, Z. Sadeghian, A. Nemati, S.P. Mohammadi, "**Corrosion protection of 1050 aluminium alloy using a smart self-cleaning TiO₂-CNT coating**". *Surface & Coatings Technology*, Vol. 275, 2015, pp. 224-231.
- 2) M. Rezazadeh Sefideh, Z. Sadeghian, A. Nemati, S. P. Mohammadi, M. Mozafari, "**Effects of processing conditions on the physico-chemical characteristics of titanium dioxide ultra-thin films deposited by DC magnetron sputtering**", *Ceramics International*, Vol. 41 (6), 2015, pp. 7977-7981.
- 3) S. P. Mohammadi, A. Nemati, Z. Sadeghian. "**In vitro characterization of carbon nanotube reinforced hydroxyapatite composite in comparison of hydroxyapatite coatings**". *Journal of Ceramic Science and Technology*, 04 (03), 2013, pp. 163-168.
- 4) "**Hydrogels: Fundamentals and Applications in Drug Delivery**", Seyed Pouya Mohammadi, Azadeh Hassan-Raeisi, (Under preparation book), Tehran, (2015)
- 5) S. P. Mohammadi. "**Well to wheel analysis of hydrogen as a clean fuel for vehicles, a case study for Iran**", under preparation

FOREIGN LANGUAGES

English: Overall IELTS Score: 7.5 (test date: 3rd Dec. 2011)

German: Basic

REFERENCES

Ali Nemati

Professor
Department of Materials Science & Engineering,
Sharif University of Technology
Tehran-Iran
Tel: +98-21 6616 52 23
nemati@sharif.edu

Zahra Sadeghian

Assistant Professor
Research Institute of Petroleum Industry (RIPI)
Tehran-Iran
Tel: +98-21 4825 35 30
sadeghianz@ripi.ir

Atabak Khalili

Head of Engineering Department
Metals and Materials Industry Consultants
Tehran-Iran
Tel: +98-21 7765 38 43-4
khalili@amc-co.ir

Kamyar Pashaei

Lecturer
Mechanical Engineering, Science, Engineering,
and Technology
Penn State University
Middletown, Pennsylvania-US
Tel: +1-717 948 6628
kup18@psu.edu