

Curriculum Vitae

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Education:

● **2003-2009**

Ph.D., Department of Metallurgy and Materials Engineering, Iran University of Science and Technology (IUST), Iran (Supervisor: Professor Sh. Mirdamadi), "*Investigation of the effect of processing parameters on the microstructure of TiO₂ nanorods*".

● **2000-2003**

MSc., Department of Metallurgy and Materials Engineering, University of Tehran (UT), Iran (Supervisor: Dr. J. RassizadehGhani), "*Investigation of bainitic transformation process in microalloyed cast steels*".

● **1996-2000**

B.S., Department of Materials Engineering, Isfahan University of Technology (IUT), Iran (Supervisor: Dr. B. Niroumand), "*The effective parameters on chill depth in cast iron*".

Professional Experience:

2007-2008 (Jul.-Feb.)

Research student within "*synthesis of TiO₂ nanorods by sol-gel template process*" by Professor K. Koumoto in Department of Applied Chemistry, Graduate School of Engineering, Nagoya University, Nagoya, Japan.

2002-2003

Research project was involved with the *Corrosion protection of galvanized and chromated distorted coats*, Department of Metallurgy and Materials Engineering, University of Tehran and SAPCo, Tehran, Iran.

2001-2003

Research and teaching assistant in heat treatment laboratory, Department of Metallurgy and Materials Engineering, University of Tehran (UT), Iran.

Publications:

[1] **A. Sadeghzadeh-Attar**, S. Hajjafari-Bidgoli, M.R. Bafandeh, "*Structural and optical properties of Sr-modified bismuth silicate nanostructured films synthesized by sol gel method*", Journal of Nanostructures, (2016) In Press.

[2] **A. Sadeghzadeh-Attar**, G. AyubiKia, M. Ehteshamzadeh, "*Improvement in tribological behavior of novel sol-enhanced electroless Ni-P-SiO₂ nanocomposite coatings*", Journal of Surface & coatings Technology 307 (2016) 837-848.

[3] **A. Sadeghzadeh-Attar**, "*Structural and optical characteristic of single crystal rutile-titania nanowire arrays prepared in alumina membranes*", Materials Chemistry and Physics 182 (2016) 148-154.

- [4] **A. Sadeghzadeh Attar**, Z. Hasani, "*Fabrication and growth mechanism of single-crystalline rutile TiO₂ nanowires by liquid phase deposition process in a porous alumina template*", Journal of Materials Science & Technology 31 (2015) 828-833.
- [5] **A. Sadeghzadeh Attar**, M. Sasani Ghamsari, F. Hajiesmaeilbaigi, Sh. Mirdamadi, K. Katagiri, K. Koumoto, "*Sol-gel template synthesis and characterization of aligned anatase-TiO₂ nanorod arrays with different diameter*", Materials Chemistry and Physics 113 (2009) 856-860.
- [6] **A. Sadeghzadeh Attar**, M. Sasani Ghamsari, F. Hajiesmaeilbaigi, Sh. Mirdamadi, K. Katagiri, K. Koumoto, "*Synthesis and characterization of anatase and rutile TiO₂ nanorods by template-assisted method*", Journal of Materials Science 43 (2008) 5924-5929.
- [7] **A. Sadeghzadeh Attar**, M. Sasani Ghamsari, F. Hajiesmaeilbaigi, Sh. Mirdamadi, K. Katagiri, K. Koumoto, "*Study on the effects of complex ligands in the synthesis of TiO₂ nanorod arrays using a sol-gel template method*", Journal of Physics D: Applied Physics 41 (2008) 155318.
- [8] **A. Sadeghzadeh Attar**, M. Sasani Ghamsari, F. Hajiesmaeilbaigi, Sh. Mirdamadi, "*Modifier ligands effects on the synthesized TiO₂ nanocrystals*", Journal of Materials Science 43 (2008) 1723-1729.
- [9] **A. Sadeghzadeh Attar**, Sh. Mirdamadi, F. Hajiesmaeilbaigi, M. Sasani Ghamsari, "*Growth of TiO₂ nanorods by sol-gel template process*", Journal of Materials Science and Technology 23 (2007) 611-613.
- [10] **A. Sadeghzadeh Attar**, M. Sasani Ghamsari, F. Hajiesmaeilbaigi, Sh. Mirdamadi, "*Template-based growth of TiO₂ nanorods by sol-gel*", Semiconductor Physics, Quantum Electronics & Optoelectronics 10 (2007) 36-39.
- [11] **A. Sadeghzadeh Attar**, M. Sasani Ghamsari, F. Hajiesmaeilbaigi, Sh. Mirdamadi, "*Template-based growth of TiO₂ nanorods by sol-gel*", First International Congress on Nanoscience and Nanotechnology, Faculty of Engineering, University of Tehran, Tehran, Iran, 18-20 December, 2006.
- [12] **A. Sadeghzadeh Attar**, J. Rassizadehghani, "*Effect of bainitic microstructure on mechanical properties of microalloyed cast steels*", Journal of College of Engineering, University of Tehran 40 (2007) 943-951. (In Persian)
- [13] R. Hosseini, M. Parsa, **A. Sadeghzadeh Attar**, A.M. Amadeh, S.R. Allahkaram, "*Investigation of corrosion protection galvanized and chromated distorted coats*", Journal of Iranian Corrosion Association 13-14 (2003) 18-22. (In Persian)
- [14] **A. Sadeghzadeh Attar**, J. Rassizadehghani, "*Effect of V, Ti and B on microstructure and mechanical properties of austempered microalloy cast steels*", Journal of Casting 74 (2003) 24-29. (In Persian)
- [15] **A. Sadeghzadeh Attar**, J. Rassizadehghani, "*The effect of various heat treatment parameters on mechanical properties of microalloyed cast steels*", 7th Annual Congress of Metallurgy Engineering Association, Sharif University of Technology, Tehran, Iran, 2003.
- [16] **A. Sadeghzadeh Attar**, J. Rassizadehghani, "*Effect of vanadium, titanium and boron on microstructure and mechanical properties of austempered microalloy cast steels*", 15th Annual Seminar of Iranian Casting Society, University of Tehran, Tehran, Iran, 2003.
- [17] R. Hosseini, M. Parsa, **A. Sadeghzadeh Attar**, A.M. Amadeh, S.R. Allahkaram, "*Investigation of corrosion protection galvanized and chromated distorted coats*", 8th National Congress on Corrosion, University of Tehran, Tehran, Iran, 2003, PP. 403-413.
- [18] **A. Sadeghzadeh Attar**, J. Rassizadehghani, "*The effect of temperature and time of austempering on microstructure and mechanical properties microalloyed cast steels*", 5th

National Congress of Surface Engineering and Heat Treatment, Polytechnic University, Tehran, Iran, 2003, PP. 569-580.

[19] **A. Sadeghzadeh Attar**, J. Rassizadehghani, "*The effect of heat treatment parameters on microstructure of V-Ti-B microalloyed cast steels*", Symposium of Steel, Isfahan University of Technology, Isfahan, Iran, 2003, PP. 456-466.