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تحصیلات

- **RWTH–Aachen University, Faculty of Mechanical Engineering, Aachen-Germany**
Level: Master’s Degree (1988)
Master’s Thesis: High Temperature Brazing, development and characterization
Major: Industrial Design
- **RWTH–Aachen University, Faculty of Mechanical Engineering, Aachen-Germany**
Level: PhD Degree (1991)
PhD Thesis: Thermal Spraying of Ni-base alloys for high temperature applications, development and characterization
Major: Materials Science

مقالات علمی

- **National Conference Papers:**
 - 1) M. Aliofkhaezrai, P. Taheri, A. Sabour Rouhaghdam, Ch. Dehghanian, Tribological investigations of carbon steel and stainless steels treated by plasma electrolytic nitrocarburising technique, 7th national conference of Surface Engineering and Heat Treatment, May 2006, Esfahan, Iran.

- 2) M. Aliofkhazraei, P. Taheri, A. Sabour Rouhaghdam, Ch. Dehghanian, Tribological properties of AISI H13 steel treated by Plasma electrolytic boriding(PEB) technique,, 7th national conference of Surface Engineering and Heat Treatment, May 2006, Esfahan, Iran.
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- 9) M. Aliofkhazraei, P. Taheri, A. Sabour Rouhaghdam, Ch. Dehghanian, Corrosion behavior of plasma electrolytic nitrocarburized 316L austenitic stainless steel, 10th annual congress of metallurgical engineering association of Iran, November 2006, Mashhad, Iran.
- 10) M. Aliofkhazraei, P. Taheri, A. Sabour Rouhaghdam, Ch. Dehghanian, Evaluation of electrochemical and corrosion properties of AISI H13 steel treated by Plasma Electrolytic Nitrocarboriding (PEN/C/B), 10th annual congress of metallurgical engineering association of Iran, November 2006, Mashhad, Iran.
- 11) H. Hassannejad, T. Shahrabi, A. Shanaghi, A. Sabour Rouhaghdam, M. Aliofkhazraei, Microstructure and electrochemical behavior of green nano cerium oxide conversion coatings applied on AA5083-H321 Aluminum alloy, 1st joint conference between 19th seminar of casting engineering association of Iran and 11th annual congress of metallurgical engineering association of Iran, October 2007, Isfahan, Iran.
- 12) A. Shanaghi, A. Sabour Rouhaghdam, T. Shahrabi, H. Hassannejad, M. Aliofkhazraei, Increasing corrosion resistance of steel in 3.5 wt% NaCl solution by applying TiO₂ nano particle coating with sol-gel method, 1st joint conference between 19th seminar of

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- 13) S. Hedayat Mofidi, M. Aliofkhazraei, A. Sabour Rouhaghdam, T. Shahrabi, Study of duplex treatment on wear properties of mild steel by hard chromium electroplating and pulsed plasma electrolytic nitrocarburising, 1st joint conference between 19th seminar of casting engineering association of Iran and 11th annual congress of metallurgical engineering association of Iran, October 2007, Isfahan, Iran.
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 - 24) M. Aliofkhazraei, A. Sabour RouhAghdam, H. Hassannejad, Investigation of Pulsed Plasma Electrolytic Carbonitriding of a gamma Ti-Al alloy on nanostructure of compound layer, 9th national conference of Surface Engineering and Heat Treatment, May 2008, Iran University of Science and Technology, Tehran, Iran.
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- 2) P. Taheri, M. Aliofkhazraei, Ch. Dehghanian, A. Sabour Rouhaghdam, A phenomenological model of plasma electrolytic saturation (PES) of steel in related solutions in order to nano-crystalline coating production, 10th International Conference on Plasma Surface Engineering, PSE 2006, Garmisch-Partenkirchen, Germany, September 2006.
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- 5) P. Taheri, M. Aliofkhazraei, Ch. Dehghanian, A. Sabour Rouhaghdam, Abrasion and corrosion properties of nano-crystalline coating on AISI 316L stainless steel treated by plasma electrolytic nitrocarburising (PEN/C), Corrosion Congress of European Federation of Corrosion (UFC), EuroCorr2006, Maastricht, The Netherlands, 24-28 September 2006.
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- 7) M. Aliofkhazraei, P. Taheri, A. Sabour Rouhaghdam, Ch. Dehghanian, Effect of nanocrystalline carbonitrides on corrosion behavior of CP-Ti samples in Ringer solution, First international congress on nanoscience and nanotechnology, ICNN2006, Tehran University, Tehran, Iran, December 2006.
- 8) A. Darkhosh, A. Sabour Rouhaghdam, M. Ghaemi, M. Aliofkhazraei, Study of drying temperature on chromate conversion coatings for corrosion protection, First international Iranian corrosion conference, Olympic hotel, Tehran, Iran, 14-17 May 2007.
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- 11) M. Aliofkhazraei, P. Taheri, A. Sabour Rouhaghdam, Ch. Dehghanian, Effect of electrolyte composition on performance and corrosion resistance of plasma electrolytic carbonitriding films formed on CP-Ti, First international Iranian corrosion conference, Olympic hotel, Tehran, Iran, 14-17 May 2007.
- 12) M. Aliofkhazraei, S.H.H. Mofidi, A.S. Rouhaghdam, E. Mohsenian, Duplex Surface Treatment of Pre-Electroplating and Pulsed Plasma Electrolytic Nitrocarburizing of Mild Steel, European congress and exhibition on advanced materials and processes, Euromat 2007, 10-13 September 2007, Nurnberg, Germany.
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- 14) M. Aliofkhazraei, A.R. Sabour, S. Shrestha, J.A. Curran, Erosion/Corrosion Characteristics of Keronite[®] Coatings on Aluminium, 21st International Conference On Surface Modification Technologies, SMT 21, 24-26 September 2007, Paris, France.
- 15) M. Aliofkhazraei, C. Morillo, R. Miresmaeili, A. Sabour Rouhaghdam, Carburizing of low melting point metals by pulsed nanocrystalline plasma electrolytic carburizing, The Sixth Asian-European International Conference on Plasma Surface Engineering, 24-29 September 2007, Yasuragi-Ioujima Nagasaki, Japan.
- 16) M. Aliofkhazraei, C. Morillo, R. Miresmaeili, A. Sabour Rouhaghdam, Study of pulsed current effects on wear resistance of pulsed plasma electrolytic carbonitrided 316L austenitic stainless steel, The Sixth Asian-European International Conference on Plasma Surface Engineering, 24-29 September 2007, Yasuragi-Ioujima Nagasaki, Japan.
- 17) M. Aliofkhazraei, Alireza Sabour Rouhaghdam, Neural Networks Prediction of Different Duty Cycles Effects on Corrosion Resistance obtained from Pulsed Nanocrystalline Plasma Electrolytic Carburizing, The 16th conference of International Federation for Heat Treatment and Surface Engineering, IFHTSE 2007, 30 October to 2 November 2007, Brisbane, Australia.
- 18) M. Aliofkhazraei, Alireza Sabour Rouhaghdam, Investigation on Shape of Pulse for Wear Resistance obtained from Pulsed Nanocrystalline Plasma Electrolytic Carbonitriding, The 16th conference of International Federation for Heat Treatment and Surface Engineering, IFHTSE 2007, 30 October to 2 November 2007, Brisbane, Australia.
- 19) M. Aliofkhazraei, Alireza Sabour Rouhaghdam, Study of Bipolar Pulsed Nanocrystalline Plasma Electrolytic Carburizing on Nanostructure of Compound Layer, The 16th conference of International Federation for Heat Treatment and Surface Engineering, IFHTSE 2007, 30 October to 2 November 2007, Brisbane, Australia.
- 20) M. Aliofkhazraei, A. Sabour Rouhaghdam, Neural Networks Prediction of Different Duty Cycles Effects on Corrosion Resistance obtained from Pulsed Nanocrystalline

- Plasma Electrolytic Carburizing, First Iran India joint conference on Nanotechnology, IJCN2008, 27-29 April 2008, Tehran, Iran.
- 21) M. Aliofkhazraei, A. Sabour Rouhaghdam, Investigation on Shape of Pulse for Wear Resistance obtained from Pulsed Nanocrystalline Plasma Electrolytic Carbonitriding, First Iran India joint conference on Nanotechnology, IJCN2008, 27-29 April 2008, Tehran, Iran.
 - 22) M. Aliofkhazraei, A. Sabour Rouhaghdam, Study of Bipolar Pulsed Nanocrystalline Plasma Electrolytic Carburizing on Nanostructure of Compound Layer, First Iran India joint conference on Nanotechnology, IJCN2008, 27-29 April 2008, Tehran, Iran.
 - 23) M. Aliofkhazraei, H. Hassannejad, A. Shanaghi, T. Shahrabi, A.R. Sabour, Nanostructural and Electrochemical characteristics of cerium oxide thin films applied by dip immersion and sol-gel methods on AA5083-H321 Aluminum Alloy, ThinFilms2008, 13-16 July 2008, Singapore.
 - 24) M. Aliofkhazraei, A. Sabour Rouhaghdam, Formation of Nanocrystalline Layers by Surface Severe Plastic Deformation and Pulsed Plasma Electrolytic Carburizing, ThinFilms2008, 13-16 July 2008, Singapore.
 - 25) M. Aliofkhazraei, S.H.H. Mofidi, A. Sabour Rouhaghdam, E. Ghobadi, E. Mohsenian, Improvement of surface characteristics by electroplating hard chromium coating post treated by nanocrystalline plasma electrolytic carbonitriding, Eleventh International Conference on Plasma Surface Engineering, PSE 2008, 15-19 September 2008, Germany.
 - 26) M. Aliofkhazraei, A. Sabour Rouhaghdam, E. Ghobadi, E. Mohsenian, Study of shape and distribution of TiO₂ nanorods produced by atmospheric pressure plasma, Eleventh International Conference on Plasma Surface Engineering, PSE 2008, 15-19 September 2008, Germany.
 - 27) M. Aliofkhazraei, A. Sabour Rouhaghdam, E. Ghobadi, E. Mohsenian, Study of Nanopores for Pulsed Bipolar Nanocrystalline Plasma Electrolytic Carburizing of CP-Ti, Eleventh International Conference on Plasma Surface Engineering, PSE 2008, 15-19 September 2008, Germany.
 - 28) M. Aliofkhazraei, A. Daneshmaslak, A. Sabour Rouhaghdam, E. Ghobadi, E. Mohsenian, Corrosion Resistance Improvement of Nanocrystalline Coatings formed by Pulsed Plasma Electrolytic Oxidation and Sol-gel methods, Eleventh International Conference on Plasma Surface Engineering, PSE 2008, 15-19 September 2008, Germany.
 - 29) M. Aliofkhazraei, A.R. Sabour, S. Shrestha, J.A. Curran, Abrasive Wear of Materials Treated with Plasma Electrolytic Oxidation and Plasma Electrolytic Carburizing Processes, 22nd International Conference on Surface Modification Technologies, SMT 22, 22-24 September 2008, Sweden
 - 30) M. Aliofkhazraei, A. Sabour Rouhaghdam, Pt-Co Electrodeposition on Carbon Nanotubes as Electrocatalysts, 60th annual meeting of the international society of electrochemistry, ISE 2009, 16-21 August 2009, Beijing, China.

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- 33) M. Aliofkhazraei, A. Sabour Rouhaghdam, Abrasive Wear Behavior of Sialon Nanocomposite Coatings Fabricated by Plasma Electrolytic Oxidation, 7th international conference on Asian-European conference on plasma surface engineering, AEPSE 2009, 20-25 September 2009, Busan, South Korea.
- 34) M. Aliofkhazraei, A. Sabour Rouhaghdam, Fabrication of TiC/WC Ultra Hard Nanocomposite layers by Plasma Electrolysis and study of its characteristics, 7th international conference on Asian-European conference on plasma surface engineering, AEPSE 2009, 20-25 September 2009, Busan, South Korea.
- 35) M. Aliofkhazraei, A. Sabour Rouhaghdam, Synthesis and properties of sialon nanocomposite layers fabricated by plasma electrolytic oxidation for potential TBC applications, 7th international conference on Asian-European conference on plasma surface engineering, AEPSE 2009, 20-25 September 2009, Busan, South Korea.
- 36) M. Aliofkhazraei, A. Sabour Rouhaghdam, Characterization of Cu based nanocomposite by TiO₂ nanorods formed by duplex electroplating and plasma electrolytic saturation, 2nd international conference on microelectronics and plasma technology, ICMAP 2009, 20-25 September 2009, Busan, South Korea.
- 37) M. Aliofkhazraei, A. Sabour Rouhaghdam, Interaction study of carbon nanotubes and quantum dots in a novel nanocomposite formed in organic electrolyte, 2nd international conference on microelectronics and plasma technology, ICMAP 2009, 20-25 September 2009, Busan, South Korea.
- 38) M. Aliofkhazraei, A. Sabour Rouhaghdam, Application of plasma electrolysis for fabrication of nanostructures and cleaning on metallic wires, 2nd international conference on microelectronics and plasma technology, ICMAP 2009, 20-25 September 2009, Busan, South Korea.
- 39) M. Aliofkhazraei, A. Sabour Rouhaghdam, E. Ghobadi, Characterization of Sialon-based Nanocomposite Coatings Prepared via Micro Arc Oxidation, 4th NANOSMAT 2009, 19-22 October 2009, Rome, Italy.
- 40) M. Aliofkhazraei, A. Sabour Rouhaghdam, E. Ghobadi, Ti-WC Nanocrystalline coating formed by SMAT process on 316L stainless steel, 4th NANOSMAT 2009, 19-22 October 2009, Rome, Italy
- 41) M. Aliofkhazraei, A. Sabour Rouhaghdam, Synthesis and Properties of a Novel Ultra-hard Nanodiamond/Titanium Carbide Nanocomposite Coating, The 4th International Conference on New Diamond and Nano Carbons, 16-20 May 2010, Suzhou, China.
- 42) M. Aliofkhazraei, A. Sabour Rouhaghdam, Vertical/horizontal oriented Al₄C₃/CNT nanocomposite synthesis by plasma electrolysis, The 4th International Conference on New Diamond and Nano Carbons, 16-20 May 2010, Suzhou, China.

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- 45) M. Aliofkhazraei, A. Sabour Rouhaghdam, Characterization of nanocrystalline aluminum carbonitride fabricated by plasma electrolysis, International Conference on Electronic Materials presented by International Union of Materials Research Societies, IUMRS-ICEM 2010, 22-27 August 2010, Seoul, South Korea.
- 46) M. Aliofkhazraei, A. Sabour Rouhaghdam, Photocatalytic characteristics of the Si₃N₄/Titania based PEO-synthesized nanocomposite layer, International Conference on Electronic Materials presented by International Union of Materials Research Societies, IUMRS-ICEM 2010, 22-27 August 2010, Seoul, South Korea.
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- 49) M. Aliofkhazraei, A. Sabour Rouhaghdam, Study of Growth Process for Nanocomposite Layer Fabricated by Plasma Electrolytic Carburizing, Twelfth International Conference on Plasma Surface Engineering, PSE 2010, 13-17 September 2010, Garmisch-Partenkirchen, Germany.
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