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Education

1. B.S. : Metallurgy and Materials Engineering, Sharif University of Technology, Iran, 1980
2. M.Sc. : Corrosion and Protection of Materials, University of Manchester, England, 1986
3. Ph.D. : Corrosion and Protection of Materials, University of Manchester, England, 1990

Teaching Experience

1. Advanced Corrosion, M.Sc.
2. Advanced Corrosion Lab, M.Sc.
3. High Temperature Corrosion, M.Sc.
4. Cathodic and Anodic Protection, M.Sc.
5. Corrosion in Industries, M.Sc.
6. Corrosion Protection Lab, M.Sc.
7. Special Topics in Corrosion Science, M.Sc.
8. Microbiologically Influenced Corrosion, Ph.D.

Books

1. T. Shahrabi, F. Ronasi, Hard chromium Plating, Jihad publication of Sharif University of Technology, Iran.

International Published Papers

1. R.C. Newman, T. Shahrabi, "The effect of alloyed nitrogen or dissolved nitrate ions on the anodic behavior of austenitic stainless steel in hydrochloric acid", Corrosion Science, Vol.27, No.8, 1987, pp 827-838.
2. R.C. Newman, T. Shahrabi, "Direct electrochemical measurement of dezincification including the effect of alloyed arsenic", Corrosion Science, Vol.28, No.9, 1988, pp 873-886.
3. T. Shahrabi, R.C. Newman, "De-alloying and stress-corrosion cracking of copper alloys in Cu(I) Solution", Materials Science Forum, Vol.44&45, 1989, pp 169-176.
4. R.C. Newman, T. Shahrabi, "Film induced cleavage of alpha-brass", Scripta Metallurgica, Vol.23, No.1, 1989, pp 71-74.
5. R.G. Kelly, J. Frost, T. Shahrabi, R.C. Newman, "Brittle fracture of an Au/Ag alloy induced by a surface film", Metallurgical Transaction A, Vol.22A, No.2, 1991, pp 531-541.
6. R.C. Newman, T. Shahrabi, "Dezincification of alpha-brass in crevices", Corrosion, Vol.49, No.1, 1993, pp 60-62.
7. T. Shahrabi, R.C. Newman, K. Sieradzki, "Stress corrosion cracking of alpha-brass without Cu oxidation", Journal of the Electrochemical Society, Vol.140, No.2, 1993, pp 348-354.
8. M.G. Hosseini, M.R. Arshadi, T. Shahrabi, M. Ghorbani, "Synergistic influence of benzoate ions on inhibition of corrosion of mild steel in 0.5 M sulphuric acid by benzotriazole", International Journal of Engineering, Vol.16, No.3, 2003, pp 255-264.
9. K. Jafarzadeh, T. Shahrabi, S.M.M. Hadavi, "The sulphidation behaviour of hard chromium plated coatings on steel", Anti-Corrosion Methods and Materials, Vol.51, No.2, 2004, pp 130-135.

10. T. Shahrabi, B. Taki, K. Jafarzadeh, "Effect of Ti and Cd on the electrochemical behaviour of aluminum sacrificial anodes", International Journal of Engineering, Vol.15, No.4, 2004, pp 159-171.
11. M. Razaei Saman Kandi, T. Shahrabi, S.R. Allahkaram, M.J. Geramian "An investigation on the atmospheric corrosion behaviour of coatings of electrical equipment in the coast of Persian Gulf-Bandar abbas", Anti-Corrosion Methods and Materials, Vol.51, No.3, 2004, pp 209-215.
12. M. Ebrahimi Mehr, T. Shahrabi, M.G. Hosseini, "Determination of suitable corrosion inhibitor formulation for a potable water supply", Anti-Corrosion Methods and Materials, Vol.51, No.6, 2004, pp 399-405.
13. M. Ehteshamzadeh, T. Shahrabi, M.G. Hosseini, "Inhibition of copper corrosion by self – assembled films of new schiff bases and their modification with alkanethiol in aqueous medium", Applied Surface Science, Vol.252, 2006, pp 2949-2959.
14. M. Ehteshamzadeh, T. Shahrabi, M.G. Hosseini, "Synergistic effect of 1-dodecanethiol upon inhibition of schiff bases on carbon steel corrosion in sulphuric acid media", Anti-Corrosion Methods and Materials, Vol.53, No.3, 2006, pp147-152.
15. M. Ehteshamzadeh, T. Shahrabi, M.G. Hosseini, "Innovation in acid pickling treatment of copper by characterization of new series of Schiff bases as corrosion inhibitor", Anti-Corrosion Methods and Materials, Vol.53, No.5, 2006, pp 296-302.
16. M.G. Hosseini, M. Sabouri, T. Shahrabi, "Comparison between polyaniline-phosphate and polypyrrole-phosphate composite coatings for mild steel corrosion protection", Materials and Corrosion, Vol.57, Is.5, 2006, pp 407-410.
17. M.G. Hosseini, M. Ehteshamzadeh, T. Shahrabi, "Protection of mild steel corrosion with schiff bases inhibitors in 0.5 M sulphuric acid solution", Electrochimica Acta, Vol.52, No.11, 2007, pp 3680-3685.
18. M. Salasi, T. Shahrabi, E. Roayaie, "Effect of inhibitor concentration and hydrodynamic conditions on the inhibitive behaviour of combinations of sodium silicate and HEDP for corrosion", Anti-Corrosion Methods and Materials, Vol.54, No.2, 2007, pp 82-92.

19. T. Shahrabi, H. Tavakoli, M.G. Hosseini, "Corrosion inhibition of copper in sulphuric acid by some nitrogen heterocyclic compounds", *Anti-Corrosion Methods and Materials*, Vol.54, No.5, 2007, pp 308-313.
20. K. Jafarzadeh, T. Shahrabi, S.M.M. Hadavi, M.G. Hosseini, "Role of chloride ion and dissolved oxygen in electrochemical corrosion of AA5083-H321 aluminium magnesium alloy in NaCl solutions under flow conditions", *Journal of Materials Science and Technology*, Vol.23, No.5, 2007, pp 623-628.
21. M. Zamanzade, T. Shahrabi, E.A. Gharacheh, "Application of taguchi methods for the characterization of calcareous deposits formed by pulse cathodic protection", *Materials and Corrosion*, Vol.58, No.9, 2007, pp 710-715.
22. M. Sabouri, T. Shahrabi, M.G. Hosseini, "Improving corrosion protection performance of polypyrrole coating by tungstate ion deposits", *Russian Journal of Electrochemistry*, Vol.43, No.12, 2007, pp 1390-1399.
23. M. Zamanzade, T. Shahrabi, A. Yazdian, "Improvement of corrosion protection properties of calcareous deposits on carbon steel by pulse cathodic protection in artificial seawater", *Anti-Corrosion Methods and Materials*, Vol.54, No.2, 2007, pp 74-81.
24. M.G. Hosseini, M. Sabouri, T. Shahrabi, "Corrosion protection of mild steel by polypyrrole phosphate composite coating", *Progress in Organic Coatings*, Vol.60, No.3, 2007, pp 178-185.
25. M. Salasi, T. Shahrabi, E. Roayaie, M. Aliofkhazraie, "The electrochemical behaviour of environment-friendly inhibitors of silicate and phosphonate in corrosion control of carbon steel in soft water media", *Materials Chemistry and Physics*, Vol.140, No.1, 2007, pp 183-190.
26. A. Shanaghi, A. Sabour Rouhaghdam, T. Shahrabi, M. Aliofkhazraei, "Study of TiO₂ nanoparticle coatings by the sol-gel methods for corrosion protection", *Materials Science*, Vol.44, No.2, 2008, pp 233-247.
27. A. Yazdzad, T. Shahrabi, M.G. Hosseini, "Inhibition of 3003 aluminum alloy corrosion by propargyl alcohol and tartrate ion and their synergistic effects in 0.5% NaCl solution", *Materials Chemistry and Physics*, Vol.109, 2008, pp 199-205.

28. M.G. Hosseini, M. Sabouri, T. Shahrabi, "Comparison of the corrosion protection of mild steel by polypyrrole-phosphate and polypyrrrol-tungstenate coatings", Journal of Applied Polymer Science, Vol.110, 2008, pp 2733-2741.
29. H. Tavakoli, T. Shahrabi, M.G. Hosseini, "Synergistic effect on corrosion inhibition of copper by sodium dodecylbenzenesulphonate (SDBS) and 2-mercaptopbenzoxazole", Materials Chemistry and Physics, Vol.109, 2008, pp 281-286.
30. K. Jafarzadeh, T. Shahrabi, M.G. Hosseini, "EIS Study on pitting corrosion of AA5083-H321 aluminum-magnesium alloy in stagnant 3.5 wt.% NaCl solution", Journal of Materials Science and Technology, Vol.24, No.2, 2008, pp 215-219.
31. T. Shahrabi, S. Sanjabi, E. Saebnori, Z.H. Barber, "Extremely high pitting resistance of NiTi shape memory alloy thin film in simulated body fluids", Materials Letters, Vol.62, 2008, pp 2791-2794.
32. T. Shahrabi, A. Yazdzad, M.G. Hosseini, "Inhibition behaviour of 2-butinel 1,4diol and tartrate salt, and their synergistic effects on corrosion of AA3003 aluminum alloy in 0.5% NaCl solution", Journal of Materials Science and Technology, Vol.24, No.3, 2008, pp 427-432.
33. H. Hasannejad, T. Shahrabi, A. Sabour Rouhaghdam, M. Aliofkhazraei, E. Saebnouri, "Investigation of heat treatment and pre-treatment on microstructure and electrochemical properties of cerium nano-oxide films on AA7020-T6 by sol-gel methods", Applied Surface Science, Vol.254, No.18, 2008, pp 5683-5690.
34. M. Aliofkhazraei, A. Sabour Rouhaghdam, T. Shahrabi, "Pulsed nanocrystalline plasma electrolytic carburising for corrosion protection of a gamma-TiAl alloy: part1. Effect of frequency and duty cycle", Journal of Alloys and Compounds, Vol.460, 2008, pp 614-618.
35. M. Aliofkhazraei, A. Sabour Rouhaghdam, T. Shahrabi, "Study of corrosion protection of different stainless steels by nanocrystalline plasma electrolysis", Protection of Metals, Vol.44, No.4, 2008, pp 402-407.

36. M.G. Hosseini, H. Tavakoli, T. Shahrabi, "Synergism in copper corrosion inhibition by sodium dodecylbenzenesulphonate and 2-mercaptopbenzoimidazole", *Journal of Applied Electrochemistry*, Vol.38, Is.11, 2008, pp 1629-1636.
37. M. Sabouri, T. Shahrabi, M.G. Hosseini, "Influence of tungstate ion dopants in corrosion protection behaviour of polyaniline coating on mild steel", *Materials and Corrosion*, Vol.59, No.10, 2008, pp 814-818.
38. M. Zamanzade, T. Shahrabi, E. Ahmadi Gharacheh, M. Aliofkhazraei, "Neural networks prediction of different frequencies effects on calcareous deposits formation under pulse cathodic protection", *Russian Journal of Electrochemistry*, Vol.44, No.10, 2008, pp 1113-1119.
39. H. Hasannejad, T. Shahrabi, A. Sabour Rouhaghdam, M. Aliofkhazraei, "Effect of temperature on pitting corrosion resistance of 316 stainless steel coated by cerium oxide film in 3.5% NaCl solution", *Journal of Materials Science and Technology*, Vol.24, No.5, 2008, pp 715-717.
40. H. Hedayat Mofidi, A. Sabour Rouhaghdam, T. Shahrabi, M. Aliof khazraei, "Characteristics of nanocrystalline compound layer of electroplated hard chromium coatings after pulsed plasma electrolytic nitrocarburizing", *International Journal of Modern Physics B*, Vol.22, No.18 &19, 2008, pp 2995-3004.
41. H. Hasnnejad, T. Shahrabi, M. Aliofkhazraei, "Study of sol-gel process for preparing cerium nano-oxide films on AA7020-T6 Al alloy", *Surface Engineering*, Vol.25, No.5, 2009, pp 393-402.
42. K. Jafarzadeh, T. Shahrabi, A.A. Oskui, "Novel approach using EIS to study flow accelerated pitting corrosion of AA5083-H321 aluminium-magnesium alloy in NaCl solution", *Journal of Applied Electrochemistry*, Vol.39, 2009, pp1725-1731.
43. H. Hasannejad, M. Aliofkhazraei, A. Shanaghi, T. Shahrabi, A.R. Sabour, "Nanostructural and electrochemical characteristics of cerium oxide thin films deposited on AA5083-H321 aluminum alloy substrates by dip immersion and sol-gel methods", *Thin Solid Films*, Vol.517, No.17, 2009, pp 4792-4799.

44. K. Jafarzadeh, T. Shahrabi, S.M.M. Hadavi, M.G. Hosseini, "Morphological characterization of AA5083-H321 aluminum alloy during corrosion in NaCl solution at hydrodynamic conditions", *Anti-Corrosion Methods and Materials*, Vol.56, No.1, 2009, pp 35-42.
45. M. Sabouri, T. Shahrabi, H. Faridi, M.G. Hosseini, "Polypyrrole and polypyrrole-tungstate electropolymerization coatings on carbon steel and evaluating their corrosion protection performance via electrochemical impedance spectroscopy", *Progress in Organic Coatings*, Vol.64, 2009, pp 429-434.
46. K. Jafarzadeh, T. Shahrabi, M.G. Hossaini, "Effect of cathodic polarization on pitting corrosion of AA5083-H321 aluminum-magnesium alloy in stagnant 3.5% NaCl solution", *Corrosion Engineering Science and Technology*, Vol.44, No.2, 2009, pp 144-148.
47. M. Sabouri, T. Shahrabi, H.R. Faridi, M. Salasi, "Influence of phosphate ion dopant on corrosion protection properties of polypyrrole coatings on carbon steel", *Corrosion Engineering Science and Technology*, Vol.44, No.1, 2009, pp 51-56.
48. M. Sarlak, T. Shahrabi, M. Zamanzade, "Investigation of calcareous deposits formation on copper and 316L stainless steel under cathodic polarisation in artificial seawater", *Protection of Metals and Physical Chemistry of Surfaces*, Vol.45, No.2, 2009, pp 216-222.
49. N. Pirhadi Tavandashti, S. Sanjabi, T. Shahrabi, "Corrosion protection evaluation of silica/epoxy hybrid nanocomposite coatings to AA2024", *Progress in Organic Coatings*, Vol.65, 2009, pp 182-186.
50. H. Hasnnejad, T. Shahrabi, M. Aliofkhazraei, "Effect of acetic acid on microstructure and electrochemical properties of nano cerium oxide film coated on AA7020-T6 aluminium alloy", *Rare Metals*, Vol.28, No.1, 2009, pp 98-101.
51. Sh. Ahangarani, A.R. Sabour, F. Mahboubi, T. Shahrabi, "The influence of active screen plasma nitriding parameters on corrosion behavior of a low alloy steel", *Journal of Alloys and Compounds*, Vol.484, No.1-2, 2009, pp 222-229.
52. S.A. Lajevardi, T. Shahrabi, V. Baigi, M. Shafiei, "Prediction of time to failure in stress corrosion cracking of 304 stainless steel in aqueous chloride solution by artificial neural

network”, Protection of Metals and Physical Chemistry of Surfaces, Vol.45, No.5, 2009, pp 610-615.

53. A. Shanaghi, A.R. Sabour, T. Shahrabi, M. Aliofkhazraei, “Corrosion protection of mild steel by applying TiO₂ nanoparticle coating via sol-gel method”, Protection of Metals and Physical Chemistry of Surfaces, Vol.45, No.3, 2009, pp 305-311.

54. N. Pirhadi Tavandashti, S. Sanjabi, T. Shahrabi, “Evolution of corrosion protection performance of hybrid silica based sol-gel nanocoatings by doping inorganic inhibitor”, Materials and Corrosion, Vol.62, No.5, 2010, pp 411-415.

55. R. Kiarasi, T. Shahrabi, J. Neshati, M. Aliofkhazraei, “Optimization of CO₂ Corrosion for API X70 steel on acetic acid contained environment”, Protection of Metals and Physical Chemistry of Surfaces, Vol.46, Is.3, 2010, pp 350-353.

56. S.A. Lajevardi, L. Mosalaeepour, T. Shahrabi, “Electrochemical impedance spectroscopic study on polarization of 5083 Al alloy under stagnant and dynamic flow conditions in 3.5% NaCl solution”, Corrosion Engineering Science and Technology, Vol.45, No.4, 2010, pp 295-301.

57. M. Laleh, A. Sabour Rouhaghdam, T. Shahrabi, A. Shanaghi, “Effect of alumina sol addition to micro-arc oxidation electrolyte on the properties of MAO coatings formed on magnesium alloy AZ91D”, Journal of Alloys and Compounds, Vol.496, No.1&2, 2010, pp 548-552.

58. H. Hassannejad, T. Shahrabi, F. Malekmohammadi, A. Shanaghi, M. Aliofkhazraei, A.A. Oskuie, “Effect of cerium doping on corrosion resistance of amorphous silica-titanium sol-gel coating”, Current Applied Physics, Vol.10, No.4, 2010, pp 1022-1029.

59. T. Rostamzadeh, H.R. Shahverdi, A. Shanaghi, T. Shahrabi, “EIS study of bulk Al-SiC nanocomposite prepared by mechanicl alloying and the hot press method”, Advanced Materials Research, Vol.83-86, 2010, pp 1297-1305.

60. T. Rostmzadeh, H.R. Shahverdi, A. Shanaghi, T. Shahrabi, “Characterization of the corrosion behavior of hot pressed nanocomposite Al-SiC powder”, Advanced Materials Research, Vol.83-86, 2010, pp 429-438.

61. H. Abdoli, E. Saebnoori, S.K. Sadrnezhad, M. Ghanbari, T. Shahrabi, "Processing and surface properties of Al-AlN composites produced from nanostructured milled powders", Journal of Alloys and Compounds, Vol.490, 2010, pp 624-630.
62. S.A. Lajevardi, T. Shahrabi, "Effects of pulse electrodeposition parameters on the properties of Ni-TiO₂ nanocomposite coatings", Applied Surface Science, Vol.256, No.22, 2010, pp 6775-6781.
63. M. Aliofkhazraei, A. Sabour Rouhaghdam, T. Shahrabi, "Abrasive wear behavior of Si₃N₄/TiO₂ nanocomposite coatings fabrication by plasma electrolyte oxidation", Surface and Coatings Technology, Vol.205, 2010, pp 541-546.
64. A. Ghasemi, T. Shahrabi, A.A. Oskuie, H. Hasannejad, S. Sanjabi, "Effect of heat treatment on corrosion properties of sol-gel titania-ceria nanocomposite coating", Journal of Alloys and Compounds, Vol.504, No.1, 2010, pp 237-242.
65. S.A. Lajevardi, T. Shahrabi, V. Hasannaeimi, "Synthesis and mechanical properties of nickel-titania composite coatings", Materials and Corrosion, Vol.62, No.1, 2011, pp 29-34.
66. S.A. Lajevardi, H. Tafreshi, T. Shahrabi, "Investigation of calcareous deposits formation on 5052 aluminium alloy under cathodic polarization in natural and artificial seawater", Corrosion Engineering Science and Technology, Vol.46, No.3, 2011, pp 249-255.
67. M. Bozorg, T. Shahrabi, J. Neshati, H. Chaghervand, "Thermodynamic study of metal corrosion and inhibitor adsorption of hexamine in mild steel", Asian Journal of Chemistry, Vol.23, No.11, 2011, pp 4855-4861.
68. S. Mirzamohammadi, R. Kiarasi, M.Kh. Aliov, A.R. Sabour, T. Shahrabi, "Relation study of different properties for tertiary pulsed electrodeposited Ni-based nanocomposite with Al₂O₃/Y₂O₃/CNT nanopowders", Powder Metallurgy and Metal Ceramics, Vol.50, No.3-4, 2011, pp 173-181.
69. N. Pirhadi Tavandashti, S. Sanjabi, T. Shahrabi, "Preparation and characterization of silica/epoxy hybrid nanocomposite coatings containing boehmite nanoparticles for corrosion protection", Corrosion Engineering Science and Technology, Vol.46, No.5, 2011, pp 661-666.

70. H. Hasannejad, T. Shahrabi, M. Jafarian, A. Sabour Rouhaghdam, "EIS study of nano crystalline Ni-cerium oxide coating electrodeposition mechanism", *Journal of Alloys and Compounds*, Vol.509, No.5, 2011, pp 1924-1930.
71. F. Malekmohammadi, T. Shahrabi, A. Sabour Rouhaghdam, "Effect of heat treatment on corrosion properties of mixed sol-gel silica-titania (7-3) coating", *Journal of Nan-Crystalline Solids*, Vol.357, No.3, 2011, pp 1141-1146.
72. E. Sadeghi Meresht, T. Shahrabi, J. Neshati, "Failure analysis of stress corrosion cracking occurred in a gas transmission steel pipeline", *Engineering Failure Analysis*, Vol.18, No.3, 2011, pp 963-970.
73. H. Hasannejad, T. Shahrabi, "Economical deposition of Ni high cerium oxide nanocomposite coatings", *Surface Engineering*, Vol.28, No.6, 2012, pp 418-423.
74. E. Sadeghi Meresht, T. Shahrabi, J. Neshati, "2-Butyne-1,4-diol as a novel corrosion inhibitor for API X65 steel pipeline in carbonate /bicarbonate solution", *Corrosion Science*, Vol.54, 2012, pp 36-44.
75. A. Shanaghi, A. Sabour, Sh. Ahangarani, P.K. Chu, T. Shahrabi, "Effects of duty cycle on microstructure and corrosion behavior of TiC coatings prepared by DC pulsed plasma CVD", *Applied Surface Science*, Vol.258, No.7, 2012, pp 3051-3057.
76. E. Saebnoori, T. Shahrabi, A. Sabour rouhaghdam, M. Jafarian, "Corrosion resistance enhancement of Ti-47Al-2Cr by thermal treatment in a controlled atmosphere", *Anti-Corrosion Methods and Materials*, Vol.59, No.2, 2012, pp 51-56.
77. S. Parvizi, V. Hasannaeimi, E. Saebnoori, T. Shahrabi, S.Kh. Sadrnezhaad, "Fabrication of porous NiTi alloy via powder metallurgy and its mechanical characterization by shear punch method", *Russian Journal of Non-Ferrous Metals*, Vol.53, No.2, 2012, pp 169-175.
78. A.A. Oskuiie, T. Shahrabi, A. Shahriari, E. Saebnoori, "Electrochemical impedance spectroscopy analysis of X70 pipeline steel stress corrosion cracking in high pH carbonate solution", *Corrosion Science*, Vol.61, 2012, pp 111-122.

79. H. Hasannejad, T. Shahrabi, "Economical deposition of Ni high cerium oxide nanocomposite coatings", *Surface Engineering*, Vol.28, No.6, 2012, pp 418-423.
80. V. Hasannaeimi, T. Shahrabi, S. Sanjabi, "Fabrication of NiTi layer via co-electrodeposition of nikel and titanium", *Surface and Coatings Technology*, Vol.210, 2012, pp 10-14.
81. H. Hasannejad, C. Mele, T. Shahrabi, B. Bozzini, "Electrodeposition of Ni/ceria composite:an in situ visible reflectance investigation", *Journal of Solid State Electrochemistry*, Vol.16, No.11, 2012, pp 3429-3441.
82. M. Farrokhi-Rad, T. Shahrabi, "Electrophoretic deposition of titania nanoparticles: Sticking parameter determination by an in situ study of the EPD kinetics", *Journal of the American Ceramic Society*, Vol.95, No.11, 2012, pp 3434-3440.
83. A.A. Oskuie, T. Shahrabi, S.A. Lajevardi, "Failure of pipeline expander segments due to undesirable EDM", *Engineering Failure Analysis*, Vol.28, 2013, pp 34-46.
84. S. Mahmoodi, L. Sorkhi, M. Farrokhi-Rad, T. Shahrabi, "Electrophoretic deposition of hydroxyapatite-chitosan nanocomposite coatings in different alcohols", *Surface and Coatings Technology*, Vol.216, 2013, pp 106-114.
85. A. Shahriari, T. Shahrabi, A.A. Oskuie, "Effects of cathodic potential, bicarbonate, and chloride ions on SCC of X70 pipeline steel", *Journal of Materials Engineering and Performance*, Vol.22, No.5, 2013, pp 1421-1429.
86. A. Shahriari, T. Shahrabi, A.A. Oskuie, "A study on stress corrosion cracking of X70 pipeline steel in carbonate solution by EIS", *Journal of Materials Engineering and Performance*, Vol.22, No.5, 2013, pp 1459-1470.
87. M. Farrokhi-Rad, T. Shahrabi, "Effect of triethanolamine on the electrophoretic deposition of hydroxyapatite nanoparticles in isopropanol", *Ceramics International*, Vol.39, No.6, 2013, pp 7007-7013.
88. S. kuche Loghmani, M. Farrokhi-Rad, T. Shahrabi, "Effect of polyethylene glycol on the electrophoretic deposition of hydroxyapatite nanoparticles in isopropanol", *Ceramics International*, Vol.39, No.6, 2013, pp 7043-7051.

89. S.A. Lajevardi, T. Shahrabi, J.A. Szpunar, "Synthesis of functionally graded nano Al_2O_3 -Ni composite coating by pulse electrodeposition", *Applied Surface Science*, Vol.279, 2013, pp 180-188.
90. S.A. Lajevardi, T. Shahrabi, J.A. Szpunar, A. Sabour Rouhaghdam, S. Sanjabi, "Characterization of the microstructure and texture of functionally graded nickel- Al_2O_3 nano composite coating produced by pulse deposition", *Surface and Coatings Technology*, Vol.232, 2013, pp 851-859.
91. H. Hasannejad, T. Shahrabi, M. Jafarian, "Synthesis and properties of high corrosion resistant Ni-cerium oxide nano-composite coating", *Materials and Corrosion*, Vol.64, No.12, 2013, pp 1104-1113.
92. M.H. Allahyazadeh, A. Ashrafi, T. Shahrabi, A. Seddighian, M. Aliofkhazraei, A. Sabour Rouhaghdam, "Application of artificial neural networks to predict chemical composition of electrodeposited nanocrystalline Ni-Mo thin films", *ECS Transactions*, Vol.50, No.52, 2013, pp 63-71.
93. M. Farrokhi-Rad, S. Kuche Loghmani, T. Shahrabi, Sh. Khanmohammadi, "Electrophoretic deposition of hydroxyapatite nanostructured coatings with controlled porosity", *Journal of the European Ceramic Society*, Vol.34, No.1, 2014, pp 97-106.
94. M. Farrokhi-Rad, T. Shahrabi, "Effect of suspension medium on the electrophoretic deposition of hydroxyapatite nanoparticles and properties of obtained coatings", *Ceramics International*, Vol.40, No.2, 2014, pp 3031-3039.
95. S. Memarbashi, E. Saebnoori, T. Shahrabi, "A study on the passivation behavior and semiconducting properties of gamma titanium aluminide in 0.1 N H_2SO_4 , HNO_3 , and HClO_4 acidic solutions", *Journal of Materials Engineering and Performance*, Vol.23, No.3, 2014, pp 912-917.
96. M. Gheytani, H.R. Bagheri, H.R. Masiha, M. Aliofkhazraei, A. Sabour Rouhaghdam, T. Shahrabi, "Effect of SMAT preprocessing on MAO fabricated nanocomposite coating", *Surface Engineering*, Vol.30, No.4, 2014, pp 244-255.

97. M. Bozorg, T. Shahrabi, J. Neshati, Z. Chaghazardi, Gh. Mohammadi Ziarani, "Myrtus communis as green inhibitor of copper corrosion in sulfuric acid", Industrial and Engineering Chemistry Research, Vol.53, No.11, 2014, pp 4295-4303.
98. L. Sorkhi, M. Farrokhi-Rad, T. Shahrabi, "Electrophoretic deposition of chitosan in different alcohols", Journal of Coatings Technology and Research, Vol.11, No.5, 2014, pp 739-746.
99. M. Farrokhi-Rad, T. Shahrabi, F. Shahriari, "Electrophoretic deposition of titania–carbon nanotubes nanocomposite coatings in different alcohols", Journal of the European Ceramic Society, Vol.34, No.16, 2014, pp 4411-4424.
100. H.R. Masiha, H.R. Bagheri, M. Gheytani, M. Aliofkhazraei, A. Sabour Rouhaghdam, T. Shahrabi, "Effect of surface nanostructuring of aluminum alloy on post plasma electrolytic oxidation", Applied Surface Science, Vol.317, 2014, pp 962-969.
101. M. Farrokhi-Rad, T. Shahrabi, Sh. Khanmohammadi, "Electrophoretic deposition of titania nanoparticles: Wet density of deposits during EPD", Bulletin of Materials Science, Vol.37, No.5 , 2014, pp 1039-1046.
102. F. Kargar, M. Laleh, T. Shahrabi, A. Sabour Rouhaghdam, "Effect of treatment time on characterization and properties of nanocrystalline surface layer in copper induced by surface mechanical attrition treatment" Bulletin of Materials Science, Vol.37, No.5, 2014, pp 1087-1094.
103. E. Saebnoori, T. Shahrabi, H. Jafarian, M. Ghaffari, "Changes in the resistance to corrosion of thermally passivated titanium aluminide during exposure to sodium chloride solution", Research on Chemical Intermediates, Vol.4, No.2, 2015, pp 1079-1095.
104. E.Saebnoori, T.Shahrabi, S.Sanjabi, M.Ghaffari, Z.H.Barber, "Surface characteristics and electrochemical behaviour of sputter-deposited NiTi thin film", Philosophical Magazine, Vol.95, No.15, 2015, pp 1696-1716.
105. M. Bozorg, T. Shahrabi, J.Neshati, G. Mohammadi Ziarani, Z. Chaghazardi, P. Gholamzade, F. Ektefa, "Corrosion inhibitive behavior of 7-hydroxyphenoxazole on mild steel in 1.0 M HCl", Research on Chemical Intermediates, Vol.41, No.9, 2015, pp 6057-6071.

106. H.R. Masiha, H.R. Bagheri, M. Gheytani, M. Aliofkhazraei, A. Sabour Rouhaghdam, T. Shahrabi, "Effect of nanocrystalline surface of substrate on microstructure and wetting of PEO coatings", Bulletin of Materials Science, Vol.38, No.4, 2015, pp 935-943.
107. H.R. Bagheri, M. Aliofkhazraei, H.R. Masiha, M. Gheytani, A. Sabour Rouhaghdam, T. Shahrabi, "Growth and internal microstructure of micro-arc oxidized MgO-based nanocomposite coating", Surface and Coatings Technology, Vol.283, 2015, pp 1-9.
108. M. Jokar, T. Shahrabi, B. Ramezanzadeh, "Electrochemical and surface characterizations of morus alba pendula leaves extract (MAPLE) as a green corrosion inhibitor for steel in 1 M HCl", Journal of the Taiwan Institute of Chemical Engineers ,Vol.63, 2016, pp 436-452.
109. S.M. Hoseinieh, T. Shahrabi, B. Ramezanzadeh, M. Farrokhi Rad, "The role of porosity and surface morphology of calcium carbonate deposits on the corrosion behavior of unprotected API 5L X52 rotating disk electrodes in artificial seawater", Journal of The Electrochemical Society, Vol.163, No.9, 2016, pp 515-529.
110. Z. Mahidashti, T. Shahrabi, B. Ramezanzadeh, "A new strategy for improvement of the corrosion resistance of a green cerium conversion coating through thermal treatment procedure before and after application of epoxy coating", Applied Surface Science, Vol.390, 2016, pp 623-632.
111. S.M. Hoseinieh, A.M. Homborg, T. Shahrabi, J.M.C. Mol, B. Ramezanzadeh, "A novel approach for the evaluation of under deposit corrosion in marine environments using combined analysis by electrochemical impedance spectroscopy and electrochemical noise", Electrochimica Acta, Vol.217, 2016, pp 226–241.
112. S.M. Hoseinieh, T. Shahrabi, B. Ramezanzadeh, M. Farrokhi-Rad, "Influence of sweet crude oil on nucleation and corrosion resistance of calcareous deposits", Journal of Materials Engineering and Performance, Vol.25, No.11, 2016, pp 4805-4811.
113. Z. Sanaei, T. Shahrabi, B. Ramezanzadeh, "Synthesis and characterization of an effective green corrosion inhibitive hybrid pigment based on zinc acetate-cichorium intybus L leaves

extract (ZnA-CIL.L): electrochemical investigations on the synergistic corrosion inhibition of mild steel in aqueous chloride solutions”, Dyes and Pigments , Vol.139, 2017 , pp 218-232.

114. S.M. Hoseinieh, T. Shahrabi, “Influence of ionic species on scaling and corrosion performance of AISI 316L rotating disk electrodes in artificial seawater”, Desalination, Vol.409, 2017, pp32-46.

115. S.A. Lajevardi, T. Shahrabi, J.A. Szpunar, “Tribological properties of functionally graded Ni-Al₂O₃ nanocomposite coating electrochemical / electroless deposition”, Journal of The Electrochemical Society, Vol.164, No.6, 2017, pp 275-281.

116. M.Farrokh-Rad, T.Shahrabi, S.Mahmoodi, S.Khanmohammadi,“Electrophoretic deposition of hydroxyapatite-chitosan-CNTs nanocomposite coatings”, Ceramics International, Vol.43, Is.5, 2017 , pp 4663-4669.

117. S.M. Hoseinieh, T. Shahrabi, M. Farrokhi-Rad, B. Ramezan-zadeh, “Influence of sour oil on calcareous deposit nucleation”, Anti-Corrosion Methods and Materials, Vol.64, Is.2, 2017, pp 129-135.

118. N. Parhizkar, T. Shahrabi, B. Ramezan-zadeh, “A new approach for enhancement of the corrosion protection properties and interfacial adhesion bonds between the epoxy coating and steel substrate through surface treatment by covalently modified amino functionalized graphene oxide film”, Corrosion Science, Vol.123, 2017, pp 55-75.

119. M. Izadi, T. Shahrabi, B. Ramezan-zadeh, “Electrochemical investigations of the corrosion resistance of a hybrid sol-gel film containing green corrosion inhibitor-encapsulated nanocontainers”, Journal of the Taiwan Institute of Chemical Engineers, Vol.81, 2017, pp 356-372.

120. N. Parhizkar, T. Shahrabi, B. Ramezan-zadeh, “Enhancement of the corrosion protection properties of a hybrid sol-gel based silane film through impregnation of functionalized graphene oxide nanosheets”, Journal of the Electrochemical Society, Vol.164, No.14, 2017, pp 1044-1058.

121. N. Parhizkar, T. Shahrabi, B. Ramezan-zadeh, “Corrosion protection and adhesion properties of the epoxy coating applied on the steel substrate pre-treated by a sol-gel based silane coating

filled with amino and isocyanate silane functionalized graphene oxide nanosheets”, Applied Surface Science, Vol.439, 2018, pp 45–59.

122. M. Izadi, T. Shahrabi, B. Ramezanzadeh, “Synthesis and characterization of an advanced layer-by-layer assembled Fe₃O₄/polyaniline nanoreservoir filled with Nettle extract as a green corrosion protective system”, Journal of Industrial and Engineering Chemistry, Vol.57, 2018, pp 263–274.

123. Z. Mahidashti, T. Shahrabi, B. Ramezanzadeh, “The role of post-treatment of an ecofriendly cerium nanostructure Conversion coating by green corrosion inhibitor on the adhesion and corrosion protection properties of the epoxy coating”, Progress in Organic Coatings, Vol.114, 2018, pp 19-32.

124. N. Parhizkar, T. Shahrabi, B. Ramezanzadeh, “Synthesis and characterization of a unique isocyanate silane reduced graphene oxide nanosheets; Screening the role of multifunctional nanosheets on the adhesion and corrosion protection performance of an amido-amine cured epoxy composite”, Journal of the Taiwan Institute of Chemical Engineers, Vol.82, 2018, pp 281-299.

125. R. Jafari, E. Sadeghimeresht, T. Shahrabi Farahani, M. Huhtakangas, N. Markocsan, Sh. Joshi, “KCl-induced high temperature corrosion behavior of HVAF-sprayed Ni-based coatings in ambient air”, Journal of Thermal Spray Technology, Vol.27, 2018, pp 500-511.

126. M. Izadi, T. Shahrabi, B. Ramezanzadeh, “Active corrosion protection performance of an epoxy coating applied on the mild steel modified with an eco-friendly sol-gel film impregnated with green corrosion inhibitor loaded nanocontainers”, Applied Surface Science, Vol.440, 2018, pp 491-505.

127. N. Parhizkar, T. Shahrabi, B. Ramezanzadeh, “Steel surface pre-treated by an advance and eco-friendly cerium oxide nanofilm modified by graphene oxide nanosheets; electrochemical and adhesion measurements”, Journal of Alloys and Compounds, Vol.747, 2018, pp 109-123.

128. M. Farrokhi-Rad, M. Mohammadalipour, T. Shahrabi, "Electrophoretic deposition of titania nanostructured coatings for photodegradation of methylene blue", Ceramics International, Vol.44, 2018, pp 10716-10725.
129. M. Farrokhi-Rad, M. Mohammadalipour, T. Shahrabi, "Electrophoretically deposited halloysite nanotubes coating as the adsorbent for the removal of methylene blue from aqueous solution", Journal of the European Ceramic Society, Vol.38, 2018, pp 3650-3659.
130. Z. Sanaei, T. Shahrabi, B. Ramezanzadeh, "Anti-corrosion performance of an epoxy ester coating filled with a new generation of hybrid green organic/inorganic inhibitive pigment; electrochemical and surface characterizations", Applied Surface Science, Vol.454, 2018, pp 1-15.
131. N. Parhizkar, T. Shahrabi, B. Ramezanzadeh, "The epoxy coating interfacial adhesion and corrosion protection properties enhancement through deposition of cerium oxide nanofilm modified by graphene oxide", Journal of Industrial and Engineering Chemistry, Vol.64, 2018, pp 402-419.
132. M. Farrokhi-Rad, M. Mohammadalipour, T. Shahrabi, "Electrophoretic deposition of titania nanostructured coatings for photodegradation of methylene blue", Journal of the American Ceramic Society, Vol.101, 2018, pp 4942-4955.
133. M. Farrokhi-Rad, A. Fateh, T. Shahrabi, "Effect of pH on the electrophoretic deposition of chitosan in different alcoholic solutions", Surfaces and Interfaces, Vol.12, 2018, pp 145-150.
134. H. Akhavan, M. Izadi, I. Mohammadi, T. Shanrabi, B. Ramezanzadeh, "The synergistic effect of BTA-Co system on the corrosion inhibition of mild steel in 3.5 wt% NaCl solution", Journal of The Electrochemical Society, Vol.165, No.10, 2018, pp 670-680.
135. N. Royaei, T. Shahrabi, Y. Yaghoubinezhad, "The investigation of the electrocatalytic and corrosion behavior of a TiO₂-RuO₂ anode modified by graphene oxide and reduced graphene oxide nanosheets via a sol-gel method", Catalysis Science and Technology, Vol.8, 2018, pp 4957-4974.

136. M. Izadi, I. Mohammadi, T. Shahrabi, B. Ramezanadeh, A. Fateh, "Corrosion inhibition performance of novel eco-friendly nanoreservoirs as bi-component active system on mild steel in aqueous chloride solution", Journal of the Taiwan Institute of Chemical Engineers, Vol.95, 2019, 555-568.
137. M. Tabatabaei Majd, T. Shahrabi, B. Ramezanadeh, "The role of neodymium based thin film on the epoxy/steel interfacial adhesion and corrosion protection promotion", Applied Surface Science, Vol.464, 2019, pp 516-533.
138. S. Ralkhal, T. Shahrabi, B. Ramezanadeh, G. Bahlakeh, "A combined electrochemical, molecular dynamics, quantum mechanics and XPS analysis of the mild steel surface protected by a complex film composed of neodymium (III) and benzimidazole", Applied Surface Science, Vol.464, 2019, pp 178-194.
139. M. Tabatabaei Majd, T. Shahrabi, B. Ramezanadeh, "Low carbon steel surface modification by an effective corrosion protective nanocomposite film based on neodymium-polyacrylic acidbenzimidazole", Journal of Alloys and Compounds, Vol.783, 2019, 952-968.
140. M. Ahmadzadeh, T. Shahrabi, M. Izadi, I. Mohammadi, S.M. Hoseinieh, A. Barnoush, "Calcareous scales deposited in the organic coating defects during artificial seawater cathodic protection: effect of zinc cations", Journal of Alloys and Compounds, Vol.784, 2019, pp 744-755.
141. I. Mohammadi, M. Izadi, T. Shahrabi, D. Fathi, A. Fateh, "Enhanced epoxy coating based on cerium loaded Na-montmorillonite as active anti-corrosive nanoreservoirs for corrosion protection of mild steel: Synthesis, characterization, and electrochemical behavior", Progress in Organic Coatings, Vol.131, 2019, pp 119-130.
142. S. Ralkhal, T. Shahrabi, B. Ramezanadeh, "Studying dual active/barrier and self-healing reinforcing effects of the Neodymium (III)-Benzimidazole hybrid complex in the epoxy coating/mild steel system", Journal of Alloys and Compounds, Vol.790, 2019, pp 141-155.

143. M. Tabatabaei Majd, T. Shahrabi, B. Ramezan-zadeh, G. Bahlakeh, “Development of a high-performance corrosion protective functional nano-film based on poly acrylic acid-neodymium nitrate on mild steel surface”, Journal of the Taiwan Institute of Chemical Engineers, Vol.96, 2019, pp 610-626.
144. N. Royaei, T. Shahrabi, Y. Yaghoubinezhad, “Corrosion modeling of dimensional stable anode modified by graphene compounds through a response surface methodology”, Materials Research Express, Vol.6, 2019, pp 1-14.
145. N. Lotfi, T. Shahrabi, Y. Yaghoubinezhad, Gh. Barati Darband, “Simulation and characterization of hydrogen evolution reaction on porous Ni-Cu electrode using surface response methodology”, International Journal of Hydrogen Energy, Vol.44, 2019, pp 13296-13309.
146. M. Izadi, T. Shahrabi, I. Mohammadi, B. Ramezan-zadeh, A. Fateh, “The electrochemical behavior of nanocomposite organic coating based on clay nanotubes filled with green corrosion inhibitor through a vacuum-assisted procedure”, Composites Part B, Vol.171, 2019, pp 96-110.
147. N. Lotfi, T. Shahrabi, Y. Yaghoubinezhad, Gh. Barati Darband, “Evaluation of the electrocatalytic activity and stability of graphene oxide nanosheets coated by Co/Ni elements toward hydrogen evolution reaction”, Materials Research Express, Vol.6, 2019, pp 1-13.
148. N. Royaei, T. Shahrabi, Y. Yaghoubinezhad, “Optimization the selectivity property of graphene oxide modified dimensionally stable anode (DSA) produced by the sol-gel method”, Journal of Sol-Gel Science and Technology, Vol.90, 2019, pp 547-564.
149. M. Izadi, T. Shahrabi, I. Mohammadi, B. Ramezan-zadeh, “Synthesis of impregnated Na^+ -montmorillonite as an eco-friendly inhibitive carrier and its subsequent protective effect on silane coated mild steel”, Progress in Organic Coatings, Vol.135, 2019, pp 135-147.

150. M. Tabatabaei Majd, T. Shahrabi, B. Ramezanzadeh, "Production of an eco-friendly anti-corrosion ceramic base nanostructured hybrid-film based on Nd (III)-C₇H₆N₂ on the mild steel surface; Electrochemical and surface studies", Construction and Building Materials, Vol.221, 2019, pp 456-468.
151. S. Ralkhal, T. Shahrabi, B. Ramezanzadeh, "Synthesis and construction of a highly potent hybrid organic/inorganic anti-corrosive pigment for effective corrosion control of mild steel in simulated seawater", Construction and Building Materials, Vol.222, 2019, pp 400-413.
152. N. Lotfi, T. Shahrabi, Y. Yaghoubinezhad, Gh. Barati Darband, "Surface modification of Ni foam by the dendrite Ni-Cu electrode for hydrogen evolution reaction in an alkaline solution", Journal of Electroanalytical Chemistry, Vol.848, 2019, 113350.
153. N. Lotfi, T. Shahrabi, Y. Yaghoubinezhad, Gh. Barati Darband, "Electrodeposition of cedar leaf-like graphene Oxide@Ni–Cu@Ni foam electrode as a highly efficient and ultra-stable catalyst for hydrogen evolution reaction", Electrochimica Acta, Vol.326, 2019, 134949.
154. Mazdak Izadi, Ali Yazdiyan, Taghi Shahrabi, Seyed Morteza Hoseinieh, Hamid Shahrabi, "Influence of temperature variation on the formation and corrosion protective performance of calcium carbonate deposits in artificial seawater", Journal of Materials Engineering and Performance, Vol.28, 2019, pp 4221-4233.
155. S. Esmailzadeh, T. Shahrabi, Gh. Barati Darband, Y. Yaghoubinezhad, "Pulse electrodeposition of nickel selenide nanostructure as a binder-free and high-efficient catalyst for both electrocatalytic hydrogen and oxygen evolution reactions in alkaline solution" Electrochimica Acta, Vol.334, 2020, 135549.
156. A. Toghraei, T. Shahrabi, Gh. Barati Darband, "Electrodeposition of self-supported Ni-Mo-P film on Ni foam as an affordable and high-performance electrocatalyst toward hydrogen evolution reaction", Electrochimica Acta, Vol.335, 2020, 135643.

157. N. Lotfi, T. Shahrabi, Y. Yaghoubinezhad, Gh. Barati Darband, "Direct electrodeposition of platinum nanoparticles@graphene oxide@nickel-copper@nickel foam electrode as a durable and cost-effective catalyst with remarkable performance for electrochemical hydrogen evolution reaction", *Applied Surface Science*, Vol.505, 2020, 144571.
158. I. Mohammadi, T. Shahrabi, M. Mahdavian, M. Izadi, "Sodium diethyldithiocarbamate as a novel corrosion inhibitor to mitigate corrosion of 2024-T3 aluminum alloy in 3.5 wt% NaCl solution", *Journal of Molecular Liquids*, Vol.307, 2020, 112965.
159. I. Mohammadi, T. Shahrabi, M. Mahdavian, M. Izadi, "Cerium/diethyldithiocarbamate complex as a novel corrosion inhibitive pigment for AA2024-T3", *Scientific Reports*, Vol.10, 2020, 5043.
160. M. Izadi, A. Rajaei Rad, T. Shahrabi, I. Mohammadi, "The combined action of L-cysteine and L-histidine as a significant eco-friendly protective system to enhance the corrosion protection performance of AA2024-T3 alloy in 0.1 M NaCl solution: Electrochemical and surface studies", *Materials Chemistry and Physics*, Vol.250, 2020, 122997.
161. M. Ahangar, M. Izadi, T. Shahrabi, I. Mohammadi, "The synergistic effect of zinc acetate on the protective behavior of sodium lignosulfonate for corrosion prevention of mild steel in 3.5 wt% NaCl electrolyte: surface and electrochemical studies", *Journal of Molecular Liquids*, Vol.314, 2020, 113617.
162. F. Bahremand, T. Shahrabi, B. Ramezan-zadeh, "Synthesis of a novel metal-organic nanocomposite film (MONF) with superior corrosion protection performance based on the biomimetic polydopamine (PDA)-based molecules and Sm₂O₃ particles on the steel surface", *Journal of Molecular Liquids*, Vol.319, 2020, 114143.
163. I. Mohammadi, T. Shahrabi, M. Mahdavian, M. Izadi, "Improving the protection performance of AA2024-T3 in 3.5 wt% NaCl solution using the synergistic effect of cerium cations and diethyldithiocarbamate molecules", *Journal of The Electrochemical Society*, Vol.167, 2020, 131506.

164. F. Bahremand, T. Shahrabi, B. Ramezan-zadeh, "Development of a nanostructured film based on samarium (III)/polydopamine on the steel surface with superior anti-corrosion and water-repellency properties", *Journal of Colloid and Interface Science*, Vol.582, 2021, pp 342-352.
165. S. Esmailzadeh, T. Shahrabi, Y. Yaghoubinezhad, Gh. Barati Darband, "Optimization and characterization of pulse electrodeposited nickel selenide nanostructure as a bifunctional electrocatalyst by response surface methodology", *International Journal of Hydrogen Energy*, Vol.46, 2021, pp 18898-18912.
166. F. Bahremand, T. Shahrabi, B. Ramezan-zadeh, "Epoxy coating anti-corrosion properties enhancement via the steel surface treatment by nanostructured samarium oxide-poly-dopamine film", *Journal of Hazardous Materials*, Vol.403, 2021, 123722.
167. I. Mohammadi, T. Shahrabi, M. Mahdavian, M. Izadi, "Zn-Al layered double hydroxide as an inhibitive conversion coating developed on AA2024-T3 by one-step hydrothermal crystallization: crystal structure evolution and corrosion protection performance", *Surface & Coatings Technology*, Vol.409, 2021, 126882.
168. S. Esmailzadeh, T. Shahrabi, Y. Yaghoubinezhad, Gh. Barati Darband, "An analytical study on nucleation and growth mechanism of nanostructured Ni-Se coating by the chronoamperometry and pulse potential techniques", *Journal of Electroanalytical Chemistry*, Vol.881, 2021, 114949.
169. I. Mohammadi, T. Shahrabi, M. Mahdavian, M. Izadi, "Chemical modification of LDH conversion coating with diethyldithiocarbamate as a novel anti-corrosive film for AA2024-T3", *Journal of Industrial and Engineering Chemistry*, Vol.95, 2021, pp 134-147.

170. S. Esmailzadeh, T. Shahrabi, Y. Yaghoubinezhad, Gh. Barati Darband, "Optimization of nickel selenide for hydrogen and oxygen evolution reactions by response surface methodology", Journal of Colloid and Interface Science, Vol.600, 2021, pp 324-337.
171. I. Mohammadi, T. Shahrabi, M. Mahdavian, M. Izadi, Construction of an epoxy coating with excellent protection performance on the AA2024-T3 using ion-exchange materials loaded with eco-friendly corrosion inhibitors, Progress in Organic Coatings, 66 (2022) 106786.
172. I. Mohammadi, T. Shahrabi, M. Mahdavian, M. Izadi, A novel corrosion inhibitive system comprising Zn-Al LDH and hybrid sol-gel silane nanocomposite coating for AA2024-T3, Journal of Alloys and Compounds, 909 (2022) 164755.
173. S.A. Hosseini, T. Shahrabi, B. Ramezanladeh, Synergistic effect of black cumin extract and zinc cations on the mild steel corrosion resistance improvement in NaCl solution; Surface and electrochemical explorations, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 654 (2022) 130153.
174. A. Hajjari, T. Shahrabi, I. Mohammadi, Synthesis of a novel environmentally friendly hybrid pigment for effective corrosion control of mild steel, Journal of Environmental Chemical Engineering, 11 (2023) 109383.
175. M. Zabihinezhad, T. Shahrabi, Ch. Zheng, T. Shao, Gh. Barati Darband, J. Li, Bi-functional Ni-Co-P/rGO/NF flower-like structure as an electrocatalyst for hydrogen production assisted by urea oxidation reaction, Journal of Electroanalytical Chemistry, 942 (2023) 117528.
176. S.A. Hosseini, T. Shahrabi, B. Ramezanladeh, I. Mohammadi, Nigella sativa extract phytochemicals: Effective green/bio-active anti-corrosion agent for steel protection in saline media, Industrial Crops & Products, 202 (2023) 116952.

177. F. Bahremand, T. Shahrabi, B. Ramezan-zadeh, S.A. Hosseini, Sustainable development of an effective anti-corrosion film over the St12-steel surface against seawater attacks using Ce(III) ions/tri-sodium phosphate anions, *Scientific Reports*, 13 (2023) 12169.
178. M. Zabihinezhad, T. Shahrabi, Ch. Zheng, T. Shao, Gh. Barati Darband, J. Li, Pulse-reverse electrodeposited reduced graphene oxide electrode decorated by Ni-P porous nano-layer as a high performance electrocatalyst for H₂ production assisted by hydrazine electrooxidation, *Applied Catalysis A: General*, 666 (2023) 119415.
179. M. Bahrami, T. Shahrabi, Y. Yaghoubinezhad, Optimization of pulse electrodeposited Ni–Se electrode modified by hydrothermally reduced graphene oxide via response surface methodology toward developing water-splitting electrode, *ACS Applied Energy Materials*, 6 (2023) 11118-11134.
180. N. Royaei, T. Shahrabi, Y. Yaghoubinezhad, Characterization and modeling of the active surface area on TiO₂-RuO₂ anode modified by graphene oxide/reduced graphene oxide in the chlor-alkali process by RSM, *Diamond & Related Materials*, 141 (2024) 110532.
181. M. Bahrami, T. Shahrabi, Y. Yaghoubinezhad, Synergistic coupling of reduced graphene oxide with Ni_{0.85}Se for highly active bifunctional electrocatalyst for water splitting, *International Journal of Hydrogen Energy*, 53 (2024) 1421–1432.

Refereed International Conference Proceedings

1. T. Shahrabi, “Dezincification of alpha-brasses in cuprous chloride solution-presented”, 28th Corrosion Symposium” Glasgow, 1987.
2. T. Shahrabi, “Dealloying and stress corrosion cracking of copper alloys in Cu(I) Solution”, 3rd International Symposium on Electrochemical Methods in Corrosion Research, Switzerland, 1998.
3. T. Shahrabi, “An investigation on the corrosion behavior of composite insulator's end fitting”, Corrosion Asia, Singapore, 2000.

4. M.G. Hosseini, H. Tavakoli, T. Shahrabi, "Synergism in copper corrosion inhibition by sodium dodecylbenzenesulphonate and 2-mercaptopbenzimidazole", Eurocorr 2004, Nice, France.
5. T. Shahrabi, "Sacrificial cathodic protection against crevice corrosion of austenitic stainless steels in seawater", Eurocorr 2005, Lisbon, Portugal.
6. M. Ehteshamzadeh, T. Shahrabi, M.G. Hosseini, "Study on some schiff bases as corrosion inhibitors of copper in NaCl and H₂SO₄ solutions and their improvement with alkanethiols", Eurocorr 2005, Lisbon, Portugal.
7. M.G. Hosseini, M. Sabouri, T. Shahrabi, "Comparison between polyaniline – phosphate and polypyrrole composite coatings for mild steel corrosion protection", Eurocorr 2005, Lisbon, Portugal.
8. M. Zamanzadeh, T. Shahrabi, A. Yazdian, "Effect of different parameters on characterization of calcareous deposits by pulse current technique", 7th national congress on surface engineering, Isfahan, Iran, 2006.
9. A. Salehi, T. Shahrabi, S.J. Bull, "The effect of nitrogen ion implantation on the mechanical and tribological properties of chromium electroplated by different processes", The International Conference on Metallurgical Coatings and Thin Films, U.S.A, 2006.
10. T. Shahrabi, L. Mosallaee, M.G. Hosseini, "Cathodic corrosion of AA5083-H321 aluminium alloy under stagnant condition and rotational flow", Eurocorr 2006, Holland.
11. M.G. Hosseini, A. Saidsajjadi, R. Bannazadeh, T. Shahrabi, "Corrosion protection of mild steel by polypyrole mollybdate composite coating", Eurocorr 2006, Holland.
12. M. Zamanzade, T. Shahrabi, M.G. Hosseini, A. Yazdian, "Characterization of calcareous deposits in artificial sea water by pulsed cathodic protection", Eurocorr 2006, Holland.
13. K. Jafarzadeh, T. Shahrabi, M.G. Hosseini, M. Zamanzade, "EIS Study on pitting corrosion of AA8053-H321 aluminium-magnesium alloy in stagnant 3.5 wt.% NaCl solution", Eurocorr 2007, Germany.

14. M. Sarlak, T. Shahrabi, M. Zamanzade, "Investigation of calcareous deposits formation on copper and 316L stainless steel under cathodic polarisation in artificial sea water", Eurocorr 2007, Germany.
15. R. Labbaf, T. Shahrabi, "The influence of microstructure of low alloy steels on CO₂", Eurocorr 2007, Germany.
16. M. Zamanzade, T. Shahrabi, E. Ahmadi Gharacheh, "Neural networks prediction of different frequencies effects on calcareous deposits formation under pulse cathodic protection", Eurocorr 2007, Germany.

National Published Papers

- 1- T. Shahrabi, M. Aliofkhazraei, S.H. Hedayat Mofidi, 'Review on the fundamental of cathodic protection of buried pipelines', Zang, Vol. 36, pp. 58-63
- 2- A. Salehrad, D. Badrkhani, T. shahrabi , 'Effects of different parameters on cathodic protection design of marine structures, ', Journal of rusting, Iranian Institute of Corrosion, pp.
- 3- M.G. Hosseini, M.R. Arshadi, T. Shahrabi, M. Ghorbani 2004, 'Synergistic influence of Benzoate ions on inhibition of corrosion of mild steel in 0.5M Sulphuric acid by benzotriazole', International Journal of Engineering, Vol. 3, No. 16, pp. 255-264
- 4- T. Shahrabi, B. Taki, K. Jafarzadeh 2005, 'Effect of Ti and Cd on electrochemical behaviour of Aluminium Sacrificial anodes', international Journal of Engineering Sciences, Vol. 4, No. 15, pp. 159-171
- 5- R. Shoja razavi , T. Shahrabi , R. Mozafarinia , 'Corrosion of chromate conversion coatings on aluminum alloys in electrical and electronic equipment', Modares Technical and Engineering, Vol. 7, pp. 95-105
- 6- M.G. Hosseini, T. Shahrabi, R.J. Nichols 2006, 'Characterization of mercaptobenzimidazole adsorption on an Au (111) electrode', Iranian Journal of science & Technology, Transaction A, Vol. 1A, No. 29, pp. 49-62
- 7- A. Salehi , A. Zaghar , T. Shahrabi , 'The effect of substrate surface roughness on the tribological behaviour of hard chromium coating', International Journal of Engineerig Sciences, Vol. 3, No. 17, pp. 111-121
- 8- H. Moharami , T. Shahrabi , H. Shourabi 2007, 'Optimization of cathodic protection on offshore structures', Esteghlal, Vol. 1, No.26, pp. 49-63

- 9- T.Shrabi , V.Baiegi , S.A.Lajevardi 2008, ' Prediction of Time to Failure in SCC of 304 stainless steel in aqueous chloride solution by Neural Network', Esteghlal, Vol.1, No.27, pp. 135-141
- 10- H.R.Jafarian , E.Saebnoori , A.R.Sabour , T.Shrabi , M.Nili ahmadabadi , 'Electrochemical corrosion of oxidised Gamma titanium aluminide in Ringer s solution', Iranian journal of pharmaceutical sciences, Vol. 5, No.1, pp. 45-48, 2009.

Refereed National Conference Proceedings

- 1- A.Lajevardi, T.Shrabi, 'Morphological properties of Ni -TiO₂ composite coatings produced by direct current electroplating', The 10th national seminar on surface engineering, Iran -Isfahan , pp.
- 2- H.Hasannejad, F.Malekmohammadi, A.Shanaghi, T.Shrabi, 'Investigation on the effect of doping of cerium on microstructure and pitting corrosion behaviour of silica-Titania with amorph structure ptoduced by sol-gel method', The 10th national seminar of surface engineering , Iran-Isfahan , pp.
- 3- S.Mirzamohammadi , A.Sabour , T.Shrabi , M.Alioffkhazraei , 'The effect of Nickel on microstructure and protection properties of Nickel-aluminide coatings produced on TiAl alloy', THe 10th national seminar of surface engineering, Iran-Isfahan , pp.
- 4- K.Jafarzadeh -T.Shrabi 1389, 'Measurement of optimum cathodic protection potential of aluminium- magnesium AA5083-H321in 3.5% NaCl solution under flowing condition by electrochemical impedance spectroscopy', The 11th national corrosion congress, Iran -Kerman , pp.
- 5- A.Shanaghi , A.Sabour rouhaghdam , T.Shrabi , M.Alioffkhazraie 2007, 'Corrosion protection of mild steel with applied a TiO₂ nano particle coating by aol-gel method', Iranian corrosion , Iranian corrosion Institute, Iran , pp.
- 6- K.Jaferzadeh , T.Shrabi, M.G.Hossain 2007, 'A study on the effect of cathodic polarization in the pitting corrosion of AA5083-H321 Aluminium-magnesium alloy in 3.5% NaCl solution', Iranian corrosion, Iranian corrosion Institute, Iran , pp.
- 7- M.Salasi , T.Shrabi , E.Roayaei 2007, 'Influence of hydrodynamic condition on co inhibitive behaviour of sodium silicate and HEDP for corrosion control of carbon steel pipes', Iranian corrosion , Iranian corrosion Institute, Iran , pp.
- 8- M.Alioff khazraei , A.Sabour rouhaghdam , T.Shrabi , S.H.Hedayat mofidi 2007, 'Corrosion , erosion and erosion-corrosion performance of plasma electrolytic nitrocarburising (PEN/C) on AISI4140 steel', Iranian corrosion , Iranian corrosion Institute, Iran , pp.

- 9- T. Shahrabi, 1988, 'Dezincification of alpha-brasses in cuprous chloride solution', presented to "28th corrosion symposium", pp.
- 10- T. Shahrabi 1994, 'Effects of design parameters on corrosion of metals and alloys', 1st seminar on industrial and automotive radiators, pp.
- 11- T. Shahrabi, 1995, 'Effect of residual materials from production processes on corrosion of engineering parts', 2nd seminar on industrial and automotive radiators, pp.
- 12- M. Ehterami, T. shahrabi 1997, 'Corrosion of automotive radiators (Copper-brass type) in chloride and bromide based flux', the 5th national Iranian corrosion congress, sharif university of technology, pp.
- 13- A. Vali, T. shahrabi 1997, 'Corrosion of lead-tin soldering alloys in chloride based flux, ', the 5th national Iranian corrosion congress, sharif university of technology, pp.
- 14- K. Karimpour, F. Malek, T. Shahrabi 1997, 'Galvanic Corrosion studies in welded structural steels', the 5th national Iranian corrosion congress, sharif university of technology, pp.
- 15- M. Soltan Bayazidi, A. Sabour, T. Shahrabi 1998, 'Effect of nitride coating on tribological properties of stainless steels', 2nd metallurgical congress, sharif university of technology, pp.
- 16- S. Ahangarani, T. Shahrabi 1999, 'Corrosion of condenser tubes at steam power plants', the 6th national Iranian corrosion congress, Amirkabir university, pp.
- 17- M. Soltan bayazidi, A. Sabour, T. Shahrabi 1999, 'Nitrocarburizing of ferritic stainless steel', the 6th national Iranian corrosion congress, Amirkabir university, pp.
- 18- F. Alavi, T. Shahrabi 1999, 'Performance of Magnesium anodes', the 6th national Iranian corrosion congress, Amirkabir university, pp.
- 19- M. Rezaei, T. Shahrabi, S. Alahkaram 2000, 'Corrosion behaviour of 55% Al-Zn coating in marine atmosphere, ', 15th international congress on power system, Tehran power research centre, pp.
- 20- H. Hosaini, T. Shahrabi 2002, 'Effect of important parameters on stress corrosion cracking of Titanium weldments', the 7 th national Iranian corrosion congress, Ahwaz, pp.
- 21- B. Ahmadi, R. Saraff, T. Shahrabi, A. Ziazadeh 2003, ' Corrosion and physical durability of coloured concrete', 1 st Iranian Rock mechanics conference, Tarbiat Modares university, pp.
- 22- M. Ehteshamzadeh, T. shahrabi, M. G. Hosseini 2006, 'Corrosion inhibition mechanism of Schiff bases self-assembled monolayers on copper in chloride containing solutions', Natianal corrosion congress, Isfahan, pp.

- 23- M. Ehteshamzadeh, T. Shahrabi, M.G. Hosseini 2006, 'Efficiency modification of SAMS Schiff base inhibition on copper at sulphuric acid media with alkanethioles', 9th National corrosion congress, Isfahan, pp.
- 24- M.G. Hosseini, M. Sabouri, T. Shahrabi 2006, 'Corrosion protection of mild steel by using polypyrrole and polypyrrole – based composite coatings', 9th National corrosion congress, Isfahan, pp.
- 25- M.G. Hosseini, H. Tavakoli, T. Shahrabi 2006, 'Investigation of inhibition effect of 2-mercaptobenzothiazole on copper corrosion and synergism effect by surfactants ', 9th National corrosion congress, Isfahan, pp.
- 26- M.G. Hosseini, M.R. Arshadi, T. Shahrabi, R.J. Nichols 2004, 'Spectro – electrochemistry study of the adsorption of carboxylic acids on Au(III), ', 5th Biennial Seminar of Electrochemistry of Iran, Kerman, pp.
- 27- M. Ehteshamzadeh, T. shahrabi, M.G. Hosseini 2004, 'Study on the improvement of inhibition properties of alkanethiols on copper by new series of Schiff bases in chloride medium', 5th Biennial seminar of Electrochemistry of Iran, Kerman, pp.
- 28- M. G. Hosseini, T. Shahrabi, M. R. Arshadi 2004, 'The inhibition action of amino acids on corrosion of mild steel in sulphuric acid', 5th Biennial seminar of Electrochemistry of Iran, Kerman, pp.
- 29- M. Sabouri, T. Shahrabi, M. G. Hosseini 2005, 'Using conductive polymers as corrosion – inhibiting coatings, ', 13th Iran's seminar of analytical chemistry, Mashhad, Iran, pp.
- 30- M. zamanzadeh, T. Shahrabi, A. Yazdian 2006, 'Effect of different parameters on characterization of Calcareous deposits by pulse current technique, ', 7th national congress on surface engineering, Isfahan, pp.
- 31- H.Hasannejad , T.Shahrabi , A.R.Sabour , M.Sobhani A.Shnaghi 1388, 'Effect of heat treatment temperature and surface prepration on microstructure and electrochemical properties of cerium oxide nano coating applied on aluminm alloy by sol-gel technique', The 9th seminar on surface engineering and heat treatment, Iran -Tehran , pp.
- 32- S.Ahangarani , A.R.Sabour , T.Shahrabi , F.Mahbobi 1388, 'Effect of different parameters of plasma nitridingon corrosion resistance of low alloy steel byconventional and active screen methods', The 9th seminar on surface engineering and heat treatment, Iran -Tehran , pp.
- 33- H.R.Jafarian , A.R.Sabour , T.Shahrabi , S.Mirzamohamadi 1388, 'Effect of temperature oe temperature of applying coating on micostructure of aluminide coating on aluminum - magnesium alloy', The 9th seminar on surface engineering and heat treatment, Iran -Tehran , pp.

- 34- H. Hasannejad, T.Shrabi, A.R.Sabour, A.Shanaghi, M.Alioffkhazraee, 1387, 'Investigation of microstructure and electrochemical properties of conversion coatings of nanomcerium oxide on aluminium alloys', 11th annual conference of iranian metallurgicil society, Iran , pp.
- 35- H.R.Jafarian , A.R.Sabour , T.Shrabi , S.Ghaemi 1387, 'Effect of nickel coating on micostructure of aluminide coating formed on superalloy', 11th of annual conference of iranian metallurgical engineers society, Iran-Isfahan , pp.
- 36- A.Shanaghi , A.R.Sabour , T.Shrabi , H.Hasannejad 1387, 'Application of nano titanium oxide coating on mild steel by sol-gel for improving the corrosion behaviour of steelsin 3/5% NaCl solution', 11th annual conference of metallurgical engineers society, Iran -Isfahan , pp.
- 37- S.H.Hedaiat mofidi , M.Alioff khazraee , A.R.Sabour , T.Shrabi 1387, 'Effect of hard chromium plating and pulsed plasma nitro carburising on tribiological behaviour of mild steel', 11th annual conference of iranian metallurgical engineers society , Iran-Isfahan , pp.
- 38- K.Jafarzadeh , T.Shrabi M.Hadavi , M.G.hossaini 1387, 'Effect of cathodic polarisation on pitting corrosion behaviour of aluminium -magnesium alloy in sodium chlorid solution under flowing condition', Under sea technology, Iran -Tehran , pp.
- 39- H.Hasnnejad , T.Shrabi 1388, 'Microstructure of titanium oxide nano coating applied on mild steel by sol-gel method', The first pipelin conference, Iran -Tehran , pp.
- 40- A.Shanaghi , A.R.Sabour , T.Shrabi 1388, 'Corrosion behaviour and nanostructure of nano coating of titanium oxide used as gas sensor', The first pipeline conference, Iran -Tehran , pp.
- 41- E.Saebnouri , T.Shrabi , S.Sanjabi 1388, 'Extreemly high pitting resistance of NiTi shape memory alloy thin film in simulated body flluids', Iran s first international conference on biomaterials, Iran -Tehran , pp.
- 42- E. Saebnouri, H.R.Jafarian , A.R.Sabour , T.Shrabi , M.Nili 1388, 'Electrochemical corrosion of oxidised gamma titanium aluminium in ringer s solution', Iran s first conference on biomaterials, Iran -Tehran , pp.
- 43- K.Jafarzadeh , T.Shrabi , M .Hadavi , M. G. Hossaini 1387, 'Effect of oxigen and chlorid ion in cathodic polarisation of aluminium -magnesium alloy in sodium chloride solution ', THe 8th seminar on surface engineering and heat treatment, Iran -Kerman , pp.
- 44- M.Salasi , T.Shrabi , E.Roayaie , 'Behaviour and mechanism of frindly environment inhibitors in soft water distribution mild steel pipes', 10th congress of iranian metallurgical engineers, Iranian metallurgical engineers institute, Iran , pp.

45- M.Zamanzadeh , T.Shrabi , A.Yazdian , M.Alioff khazraie , 'Optimization of conditions for fotmation of calcareous deposits on cathodically protected mild steel in seawater with Taguchi method', 10th congress of iranian metallurgical engineers, Iranian metallurgical engineers institute, Iran , pp.

46- M.Zamanzadeh , T.Shrabi , A.Yazdian , M.Alioff khazraie , 'Effect of frequenci of pulse potential application on morphology and kinetiecs of calcareous deposits on cathodically protected mild steel in seawater', 10th congress of iranian metallurgical engineers, Iranian metallurgical engineers institute, Iran , pp.

47- K.Jaferzadeh, T.Shrabi, S.M.Hadavi, M.G.Hossaini , 'Investigation of the role of chloride ion and oxigen in electrochemical corrosion of aluminuum-magnesium in flowing sodium chloride solution', 10th congress of iranian metallurgical engineers, Iranian metallurgical engineers institute, Iran , pp.

Memberships in Societies

1- Member of executive and scientific committees of the second national corrosion congress - Tehran Faculty of Engineering, 01/01/1992 -

2- Organizer and head of executive and scientific committee of the first conference on industrial and automotive radiators-heavy industries ministry, 01/01/1994 -

3- Organizer and head of executive and scientific committee of the second conference on industrial and automotive radiators - heavy industries ministry, 01/01/1995 -

4- Member of executive and scientific committees of the 5th national Corrosion congress - sharif university of technology, 01/01/1998 -

5- Member of executive and scientific committees of the 6th national corrosion congress - Amirkabir University, 01/01/2000 -

6- Workshop on "cathodic protection of buried pipelines" in the 6th national corrosion congress - Amirkabir university, 01/01/2000 -

7- Member of executive and scientific committees of the 7th national corrosion congress - Ahwas petroleum university, 01/01/2002 -

8- Workshop on "Cathodic Protection Principles" in the 7th national corrosion congress - Ahwas Petroleum University, 01/01/2002 -

- 9- Workshop on "Cathodic Protection Principles" in the 7th national corrosion congress - Ahwas Petroleum University, 01/01/2002 -
- 10- Workshop on "Principles of Corrosion and Cathodic Protection" -Mahshahr , 01/01/2003 -
- 11- Member of executive and Scientific Committees of the 8th national corrosion Congress-Tehran, 01/01/2004 -
- 12- Workshop on "design of cathodic protection systems" in the 8th national corrosion congress-Tehran, 01/01/2004 -
- 13- Member of Scientific Committee of the 9th national corrosion Congress, Isfahan, 01/01/2006 -

M.Sc. Thesis Supervised

- 1- M. Ehterami, 'Corrosion of automotive radiators (copper-brass type)', Guidance
- 2- S. Ahangarani, 'Corrosion of Condenser tubes at steam power plants', Guidance
- 3- A. Vali, 'Corrosion of Tin-Lead alloys in chloride fluxes', Guidance
- 4- M. Ghadrjani, 'New method for evaluation of scale inhibitors in aqueous environments', Guidance
- 5- A. Tabesh, 'Corrosion of naphta reboiler of natural gas liquidification factory, ', Guidance
- 6- A. Salehi, 'Corrosion failure and scaling of evaporator tubes in isfahan sugar factory', Guidance
- 7- M. Bidarbakht, 'Investigation of oil ash corrosion in boilers', Guidance
- 8- H. ocatisadegh, 'Determination of a proper corrosion inhibitor for cooling water system of khorasan petrochemical complex', Guidance
- 9- F. Alavi, 'Performance of Magensium sacrificial anodes', Guidance
- 10- k. Jafarzadeh, 'Sulphidation behaviour of hard chromium platings on steel', Guidance

- 11- M. Rezaei, 'An investigation of the corrosion behaviour of (55%Al-Zn) alloy coating on composite insulator's end-fitting', Guidance
- 12- S. Alizadeh, 'Suitable inhibitors used for acid pickling of steel in sulphuric acid', Guidance
- 13- H. Hosseini, 'Investigation of SCC of welded Ti-6Al-4V alloy in aqueous chloride environment', Guidance
- 14- R. Shoja Razavi, 'Corrosion evaluation of chemical conversion coatings on aluminum alloys in avionics equipment', Guidance
- 15- A. Ziazadeh, 'The effect of chloride on the corrosion behaviour of coloured concrete containing ceramic pigments', Guidance
- 16- B. Taki, 'Effect of Ti and Cd on the electrochemical Performance of aluminum sacrificial anodes', Guidance
- 17- M. J. Taherian, 'Effect of sulphur on the corrosion behaviour of coloured concrete containing ceramic pigments', Guidance
- 18- F. Avazzadeh, 'Effects of cathodic protection on crevice corrosion in sea water, ', Guidance
- 19- A. yadi, 'Cathodic protection of carbon steel / stainless steel installations', Guidance
- 20- H. Tavakoli, 'Corrosion inhibition of nitrogen heterocyclic compounds and the synergistic effect of anionic surfactant on copper corrosion in acidic medium, ', Guidance
- 21- M. Sabouri, 'Organic Coatings Electropolymerization and improving of coating by incorporation of phosphate and Tungstate compounds', Guidance
- 22- V. Baiegi, 'Estimation of time to failure in stress corrosion cracking of 304 stainless steel in aqueous chloride solution using Artificial neural network', Guidance
- 23- L. Mosallai, 'Effect of flowing velocity on cathodic polarization of aluminium alloy 5083-H321 in artificial sea water', Guidance
- 24- M. Sarlak, 'Growth and properties of calcareous scale on Mild steel, Copper and 316L Stainless steel, ', Guidance
- 25- M. Salasi, 'Assessment of inhibition efficiency and mechanism of silicate inhibitors on mild steel corrosion in soft water', Guidance
- 26- M. Zamanzadeh, 'Characterization of calcareous deposits in artificial sea water by pulsed cathodic protection', Guidance
- 27- F. Ronasi, 'Hard chromium plating on aluminium', Adviser

- 28- A. Pakravanfar, 'Hard anodising of 7075 aluminium alloy at room temperature', Adviser
- 29- M.R. Saleh, 'Simulation of corrosion reactions kinetics', Adviser
- 30- A. Rasooli, 'Simulation of sulfidation kinetics', Adviser
- 31- A.Yazdzad, 'Corrosion inhibition action of acetylenic alcohols and hydroxycarboxilate anions on aluminum and evaluation of thier synergistic effects in chloride solutions', Adviser
- 32- S. Razavi, 'Stress corrosion cracking of gas pipeline in carbonate/bicarbonate environments', Adviser
- 33- P. Mohammadian, 'Hard anodizing of 7075 aluminium alloy for hardness of above 800 HV', Adviser
- 34- B. Saeidi, 'High temperature Oxidation behaviour of TBC/MCrAlY coatings', Adviser
- 35- S. Abbasnezhad, 'Electroplating of Fe-Ni and Co-Ni nanowires in the pores of anodizing of aluminium templates', Adviser
- 36- E. Saebnoori, 'Corrosion behaviour of NiTi shape memory alloy thin films', Guidance
- 37- H. Hasannejad, 'Investigation of corrosion resistance of aluminum alloys with nanocoating of cerium oxide by sol-gel method in 3.5% NaCl solution', Guidance
- 38- H. Mashadi Tafreshi, 'Investigation on neucleation and growth of calcareous deposits on aluminum alloys', Guidance
- 39- R. Labbaf, 'Investigation on the effects of microstructures of low alloy steels on CO₂ corrosion in gas pipes', Guidance
- 40- A. Shanaghi, 'Corrosion behaviour of mild steel with nanocoating of titanium oxide by sol-gel', Adviser
- 41- A. Daneshmaslak, 'Structure and corrosion resistance of coatings on aluminum surface by plasma electrolytic oxidation', Adviser
- 42- M. Manavipour, 'Effects of electromagnetic fields on refyning and descaling', Adviser
- 43- H. Jafarian, 'Oxidation and hot corrosion behaviour of aluminide coatings on gama TiAl alloy', Adviser
- 44- S.H. Hedaiat mofidi, 'Characteristics of nanocrystalline compound layer of electroplated hard chromium coatings after pulsed plasma electrolytic nitrocarburizing', Adviser
- 45- S.A. Lajevardi, 'Comparative investigation on morphology and corrosion behavior of Ni-TiO₂ nanocomposite coating by direct and pulse current electrodeposition ', Guidance

- 46- M. Khoshhal, 'Simulation of the design and optimization of impressed current cathodic protection system on offshore structures', Guidance
- 47- R. Kiarasi, 'Corrosion behaviour of low alloy steel in CO₂ aqueous environment containing acetic acid', Guidance
- 48- A. Ghasemi, 'Corrosion protection of stainless steel 316L by nanocoating TiO₂-CeO₂ by sol-gel method', Guidance
- 49- S. Mirzamohamadi, 'Oxidation behaviour of intermetallic compound of titanium aluminide d', Adviser
- 50- S. Noroozi, 'Electrochemical deposition of nanocomposit coating of Ni-Co-Al₂O₃', Adviser
- 51- F. Malekmohamadi, 'Study of microstructure and corrosion resistance of mixed sol-gel silica -tania nano structure coating on AISI 316L in 3.5% NaCl', Guidance
- 52- M. Bozorg, 'Using of non-toxic inhibitor based on amino-acid for controlling of steel corrosion in HCl', Guidance

Ph.D. Thesis Supervised

1. A. Salehi, 'Effect of nitrogen ion implantation on the tribological behaviour of hard chromium plating, ', Guidance
2. M. Ehteshamzadeh, 'Investigation on inhibition mechanism of organic inhibitors on copper and mild steel in acidic media and chloride containing environments, ', Guidance
3. K. Jafarzadeh, 'Effect of flowing velocity on corrosion and cathodic protection of aluminium alloy 5083-H321 in 3.5 wt.% NaCl Solution', Guidance

Professional Experiences

- 1- Assistant professor in Corrosion science, Tarbiat modarres university, Tehran, 01/01/1991 - 08/01/2005
- 2- Head of Materials engineering department in Tarbiat Modarres University, 01/01/1992 - 01/01/1995

- 3- Establisher and organizer of the corrosion and protection division in Tarbiat Modarres university, 01/01/1991 -
- 4- Head of Corrosion and protection division in Tarbiat Modarres university, 01/01/1994 - 01/01/1998
- 5- Senior failure analyst in corrosion lab. In sharif university of Technology, 01/01/1981 - 01/01/1984
- 6- Senior research consultant in corrosion science, Iranian petroleum research centre, 01/01/1991 - 01/01/1992
- 7- Senior consultant in corrosion engineering, Iran radiator company, 01/01/1992 - 01/01/1997
- 8- Senior corrosion consultant, Iran petrochemical company, 01/01/1992 - 01/01/1993
- 9- Senior research consultant in corrosion science, Iranian power research centre, 01/01/1995 - 01/01/1998
- 10- Senior corrosion consultant, the port and shipping organization, 01/01/1995 - 01/01/1998
- 11- Establisher of corrosion and protection laboratory in Tarbiat modarres university, 01/01/1999 -
- 12- Head of Materials engineering department in Tarbiat Modarres university, 01/01/2001 - 01/01/2003
- 13- - Head of Corrosion and protection division in Tarbiat Modares university, 01/01/2003 - 01/01/2005
- 14- Publishing "the cathodic protection standards for buried and immersed structures including concrete, 01/01/1999 - 01/01/2002
- 15- Head of corrosion and protection division in Tarbiat Modarres university, 01/01/2007 - 01/01/2009.

Others

- 1- SHORT COURSES PERFORMED, One week course on "Corrosion in airplane industries and its control" in Iran air company, June 1998. - Two day course on "Cathodic Protection in Power Plants" in Neka Power Plant, July 1998. - One day course on "Principles of Corrosion and

Protection" in national Iranian oil company, Ahwaz, 1999. - One day course on "Cathodic Protection of Pipelines" in yazd power Plant, June 2002. - Two day course on "Cathodic Protection of Pipelines" Kazeroon Power plant, July 2002. - Four day course on "design of cathodic protection systems" in sugar industries, Ahwaz, 2002. - Two day Course on "design and installation of cathodic protection systems", kavosh Hamayesh, November 2002. - Two day Course on "Cathodic Protection of Marine Structures", in port and Shipping organization, December 2002. - two day course on, "design and istallation of cathodic protection for buried pipeline" Tehran, September, 2005. - Two day course on "Stray current corrosion and its prevention" Tehran, November 2005. - Two day course on "cathodic protection of Marine Structures", Iranian corrosion society, October, 2005.

2- RESEARCH STUDENTS COLLABORATED , . An investigation of hard anodizing on aluminium alloy AA7075 for hardnesses above 800HV, P.Mohamadian, MSc student, 1998. 2. Oxidation of MCrAly coating by HVOF method, R. Rastgoo, MSc student, 1999. 3. Optimization of high temperature coatings on the basis of hot corrosion resistance, S.Pahlevanyali, PhD student, 2003. 4. Investigation on hot corrosion resistance of MCrAly coating, N. Farajpoor, MSc student, 2002. 5. Optimization of cathodic protection design of offshore structures, H. Shoorabi, MSc student, 2003. 6. Development of thin film of TiAlBN by PACVD and investigation of different parameters on its performance, S. Ahangarani, PhD Student, 2005. 7. High temperature oxidation behaviour and thermal shock resistance of TBC/MCrAlY coatings, B. Saeedi, MSc student, 2005. 8. Electroplating of Fe-Ni and CO-Ni nanowires in the pores of anodizing aluminium template, S. Abbasnezhad, MSc Student, 2004.