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Assistant Professor
Bandar Abbas Campus
Materials & Corrosion

Supervised MSc Theses

#	Thesis title	By	Date
1	Study of the surface morphology and corrosion behavior of alloy coating Ni-Cu-P on steel substrate	Marziye Karimi Haje Khadmi & Seyed Haman Hedaiatmofidi	September 2021
2	Investigation of corrosion resistance and structure of vanadium conversion coating in the presence of phosphate coating on mg microstructure of vanadium _based conversion coating on AZ31 Mg Alloy	Afsaneh Shekari & Seyed Haman Hedaiatmofidi	September 2021
3	Investigation of corrosion inhibition of copper-nickel alloy by 2-mercaptobenzothiazole in near-neutral and acidic solution	Farzane Iranmaneshbahri & Seyed Haman Hedaiatmofidi	March 2021
4	Application and Evaluation of Corrosion Properties of TiO ₂ / Hydroxyapatite Nanocomposite Coating via Anodizing Method	Atena Salehi Nodej & Seyed Haman Hedaiatmofidi	September 2020
5	The effect of copper, molybdate and manganese salts on corrosion behavior of vanadium-based conversion coating on magnesium alloy substrate	Sara Zakeri Baghestani & Seyed Haman Hedaiatmofidi	February 2020
6	An investigation on AZ91 nanocomposite reinforced by carbon nanotubes	Behrouz Mohammad Hasani Zadeh & Seyed Haman Hedaiatmofidi	February 2020
7	Study of corrosion performance and morphology of cerium conversion coating in the presence of copper and tungsten ions on aluminum alloy AA2024-T3	Abbas Mortezaei Torbehbar & Seyed Haman Hedaiatmofidi	May 2019

8	Study of the surface morphology and corrosion resistance of nickel nano composite coating on magnesium alloy substrate	Marziye Ali Akbari Karimi Sheykh Abadi & Seyed Haman Hedaiaimofidi	March 2019
9	Corrosion properties of Mg/Al ₂ O ₃ composite layer fabricated by friction stir process on Mg alloys	Sohrab Aghevlian & Seyed Haman Hedaiaimofidi	March 2019
10	study the effect of three industrial concrete corrosion inhibitors for steel in concrete/ simulated concrete solution	Naeim Malekpour & Seyed Haman Hedaiaimofidi	March 2019
11	Study of the effect of Migratory Corrosion Inhibitor (MCI) for Steel in Concrete simulated solution	Leyla Rezaee & Seyed Haman Hedaiaimofidi	March 2018
12	Study of corrosion resistance and microstructure of vanadium-based conversion coating on the zinc substrate	Mahmoud Torkamani & Seyed Haman Hedaiaimofidi	February 2018

Journal Papers

Portal Records

- 1 Mahmoud Torkamani, Aliasghar Sarabi Daryani, Seyed Haman Hedaiaimofidi, "Optimizing Corrosion Resistance Behavior of Vanadium Conversion Coating on Hot-Dip Galvanized Steel Substrate", , February 2018 Vol. 26, Num. 16, Page 31-37, February 2018,
- 2 Mahmoud Torkamani, Aliasghar Sarabi Daryani, Seyed Haman Hedaiaimofidi, "Optimizing Corrosion Resistance Behavior of Vanadium Conversion Coating on Hot-Dip Galvanized Steel Substrate", , November 2017 Vol. 26, Num. 16, Page 31-41, November 2017,






Conference Papers

Portal Records

- 1 Atena Salehi Nodej, Arman Zarebidaki, Seyed Haman Hedaiaimofidi, "Investigation of the corrosion behavior of nanotubes produced via anodizing process on commercial pure titanium ", 8th Iran International Conference & Exhibition on Materials Science & Metallurgical Engineering, October 2019
- 2 Behrouz Mohammad Hasani Zadeh, Seyed Haman Hedaiaimofidi, Arman Zarebidaki, "Investigation of the effect of microstructure on the corrosion behavior of AZ91 magnesium based alloy after stir friction process ", 8th Iran International Conference & Exhibition on Materials Science & Metallurgical Engineering, October 2019
- 3 Naeim Malekpour, Mohammad Reza Mohammadzadehattar, Seyed Haman Hedaiaimofidi, "Study the effect of adding calcium nitrite to simulated concrete pore solution on corrosion behavior of carbon steel ", 7th international conference on materials engineering and metallurgy, October 2018
- 4 Sohrab Aghevlian, Arman Zarebidaki, Seyed Haman Hedaiaimofidi, "Investigating the effect of friction process on the microstructure and corrosion properties of AZ31 alloy ", 7th International Conference on Materials Engineering and Metallurgy, October 2018
- 5 Leyla Rezaee, Mohammad Reza Mohammadzadehattar, Seyed Haman Hedaiaimofidi, "The corrosion inhibition effect of phytic acid and sodium nitrite on mild steel in simulated concrete pore solution ", International color & coating congress, ICC2017, December 2017

Taught Courses

#	Course title	Description	Headlines	Date
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1	Welding Defects and Non-Destructive Testing of Materials	An introduction to fundamentals of non destructive test methods used in assessment of industrial workpieces		Spring 2021
2	Protection Principle Laboratory	In this laboratory course students would get acquainted with concepts like cathodic and anodic protection, electroplating and electroless, anodizing, conversion coating, inhibitors and other corrosion controlling techniques.		Spring 2021
3	Anodic & Cathodic Protection	An introduction to concepts of cathodic and anodic protection as two common method to prevent corrosion in industry		Spring 2021
4	Advanced Kinetic of Materials	a description on kinetic theories and abilities and limitations of thermodynamics and kinetics science		Spring 2021
5	New Method of Materials Study & Lab	In this course the most popular methods used in order to study and analyze materials are described. Conventional and modern methods are studied by knowing about fundamental concepts, the mechanism of the working device and finally interpreting the re		Fall 2020