

Mostafa Rezazadeh Shirdar

PhD in Mechanical Engineering

m_rezazadeh_sh@yahoo.com

Education

Universiti Teknologi Malaysia

Doctor of Philosophy (Ph.D.), Mechanical Engineering, 2012 - 2016

Universiti Teknologi Malaysia

Master of Engineering (M.Eng.), Mechanical Engineering, 2009 - 2012

Experience

Cooling Wall panel at Research Assistant

January 2015 - May 2016 (1 year 5 months)

Gold Prize from Seoul International Invention Fair (SIIF) - 2015

Intellectual Property Corporation of Malaysia (MyIPO)

Patent 1- Cooling wall Sandwich Panel - IP: 2015002693

Patent 2- Method for Stable Suspension of Carbon Materials - IP: 2015002690

Patent 3- Water-based Thermal Conductive Fluid - IP: 2015002692

International Doctoral Fellowship at Universiti Teknologi Malaysia

2012 - 2016 (4 years)

Hydroxyapatite-Titania nanotube composite as a coating layer on Co-Cr-based implant material

Graduate Assistant at Universiti Teknologi Malaysia

September 2013 - November 2013 (3 months)

Publications

In situ synthesis of hydroxyapatite-grafted titanium nanotube composite

Taylor & Francis 2016

Authors: Mostafa Rezazadeh Shirdar, Mohammad Mahdi Taheri, Sudin Izman, Arezou Shafaghat, Ali

Keyvanfar, Muhd Zaimi Abd. Majid

Journal of Experimental Nanoscience

Hydroxyapatite-Titania nanotube composite as a coating layer on Co-Cr-based implants: mechanical and electrochemical optimization

Elsevier 2016

Authors: Mostafa Rezazadeh Shirdar, Mohammad Mahdi Taheri, Hossein Moradifrd, Arezou Shafaghat, Ali

Keyvanfar, Tolou Shokufar, Izman Sudin

Ceramics International

A novel hydroxyapatite composite reinforced with titanium nanotubes coated on Co–Cr-based alloy

Elsevier 2015

Authors: Mostafa Rezazadeh Shirdar, Izman Sudin, Mohammad Mahdi Taheri, Ali Keyvanfar, Zamri Mohd Yusop, Mohammed Rafiq Abdul kadir

Vacuum

Tests and methods of evaluating the self-healing efficiency of concrete: A review

Elsevier 2016

Authors: Nasiru Zakari Muhammad, Arezou shafaghat, Ali Keyvanfar, Mohammad Mahdi Tahri, Hesam Kamyab, Mostafa Rezazadeh Shirdar

Construction and Building Materials

Effect of Electrophoretic Deposition Parameters on the Corrosion Behavior of Hydroxyapatite-Coated Cobalt–Chromium Using Response Surface Methodology

Springer 2016

Authors: Mostafa Rezazadeh Shirdar, Mohammad Mahdi Taheri, Sudin Izman, Mahtab Assadian, Mohammed Rafiq Abdul Kadir

Fluoridated hydroxyapatite nanorods as novel fillers for improving mechanical properties of dental composite: Synthesis and application

Elsevier 2015

Authors: Mohammad Mahdi Taheri, Mohammed Rafiq Abdul Kadir, Tolou Shokuhfar, Azhang Hamlekhan, Mostafa Rezazadeh Shirdar, Farnaz Naghizadeh

Materials & Design

Effect of Post-Treatment Techniques on Corrosion and Wettability of Hydroxyapatite-Coated Co–Cr–Mo Alloy

Springer 2015

Authors: Mostafa Rezazadeh Shirdar, Sudin Izman, Mohammad Mahdi Taheri, Mahtab Assadian

Optimisation of Electrophoretic Deposition Parameters in Coating of Metallic Substrate by Hydroxyapatite Using Response Surface Methodology

Springer 2015

Authors: Mahtab Assadian, Mostafa Rezazadeh Shirdar, Mohd. Hasbullah Idris

Effects of HA-Coating on the Surface Morphology and Corrosion Behavior of a Co-Cr-Based Implant in Different Conditions

Springer 2015

Authors: Hirbod Maleki Kheimh Sari, Izman Sudin, Mostafa Rezazadeh Shirdar

Journal of Materials Engineering and Performance

Effects of Alkaline Treatment on Corrosion Behavior of Biodegradable Magnesium

Trans Tech Publications 2015

Authors: Mahtab Assadian, Mohd Hasbullah Idris, Mohammad Mahdi Taheri, Mostafa Rezazadeh Shirdar, Davood Almasi

Green synthesis of silver nanoneedles using shallot and apricot tree gum

Elsevier 2015

Authors: Mohammad Mahdi Taheri, Mohammad Rafiq Abdol Kadir, Tolou Shokufar, Noor Kamila Ahmad Shafia, Mahtab Assadian, Mostafa Rezazadeh Shirdar

Transactions of Nonferrous Metals Society of China

The application of surface response methodology to the pretreatment of WC substrates prior to diamond coating

Springer 2014

Authors: Mostafa Rezazadeh Shirdar, Abolfazl Golshan, Danial Ghodsiyeh, Sudin Izman

Journal of Materials Engineering and Performance

Optimizing Material Removal Rate (MRR) in WEDMing Titanium Alloy (Ti6Al4V) Using the Taguchi Method

Maxwell Scientific Organization 2012

Authors: Danial Ghodsiyeh, Mohammadreza Askaripour Lahiji, Mahdi Ghanbari, Mostafa Rezazadeh Shirdar, Abolfazl Golshan

Research Journal of Applied Sciences, Engineering and Technology

Optimizing Rough Cut in WEDMing Titanium Alloy (Ti6Al4V) by Brass Wire Using the Taguchi Method

TextRoad Publication 2012

Authors: Danial Ghodsiyeh, Mohammadreza Askaripour Lahiji, Mahdi Ghanbari, Abolfazl Golshan, Mostafa Rezazadeh Shirdar

Journal of Basic and Applied Scientific Research

Effects of Adding Multiwalled Carbon Nanotube Into Dielectric When EDMing Titanium Alloy

Trans Tech Publications February 10, 2012

Authors: Sudin Izman, Danial Ghodsiyeh, T. Hamed, R. Rosliza, Mostafa Rezazadeh Shirdar

Advanced Materials Research Vols. 463-464 (2012) pp 1445-1449

Optimization of Pre-Treatment Parameters before Diamond Coating using Non-dominated Sorting Genetic Algorithm (NSGA-II)

Trans Tech Publications February 10, 2012

Authors: Abolfazl Golshan, Mostafa Rezazadeh Shirdar, Soheil Gohari, MohammadFarid Alvansaz

Advanced Materials Research Vols. 463-464 (2012) pp 399-405

A Comparison of Optimization Methods in Cutting Parameters Using Non-dominated Sorting Genetic Algorithm (NSGA-II) and Micro Genetic Algorithm (MGA)

CSC Journals, Kuala Lumpur Malaysia May 10, 2011

Authors: Mostafa Rezazadeh Shirdar, Abolfazl Golshan, Sudin Izman

International Journal of Experimental Algorithms (IJE), Volume (2) : Issue (2) : 2011 63

Application of Anfis System In Prediction Of Machining Parameters

Journal of Theoretical and Applied Information Technology 2011

Authors: Mostafa Rezazadeh Shirdar, Mehrbakhsh Nilashi, Sudin Izman, Hossein Moradifard, Othman Ibrahim

Optimization of machining parameters on surface roughness and dimensional accuracy during drilling of 7075 aluminium alloy

International Postgraduate Conference on Engineering (IPCE 2011) 2011

Authors: Mostafa Rezazadeh Shirdar, Abolfazl Golshan, Sudin Izman

Multiple performance optimization of machining operation parameters using Non-dominated Sorting Genetic Algorithm (NSGA-II)

International Postgraduate Conference on Engineering (IPCE 2011) 2011

Authors: Abolfazl Golshan, Mostafa Rezazadeh Shirdar, Sudin Izman

Skills & Expertise

Materials Science

Machining

Design of Experiments

Optimization

Biomaterials

Manufacturing

Engineering

Data Modeling

Machine Tools

Coatings

R&D

Data Analysis

Nanomaterials

Response Surface Methodology

Titanium

Cobalt

Carbon Nanotubes

Research and Development (R&D)

Languages

English

(Full professional proficiency)

Mostafa Rezazadeh Shirdar

PhD in Mechanical Engineering

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