Mahmood Sharifitabar

Associate Professor

Faculty : Engineering

Departments : Materials Engineering

Phone : +9854 - 31132642

Email : msharifitabar@eng.usb.ac.ir

Address : Dept.of Materials Engineering, Faculty of Engineering, University of Sistan and Baluchestan, Daneshgah Ave., Zahedan, Iran.

Education

- B.Sc, Materials Engineering-Industrial Metallurgy,Sistan and Baluchestan University - 2007
- MS, Materials and Metallurgical Engineering,University of Tehran - 2009
- PhD, Materials Engineering,Ferdowsi University of Mashhad - 2015

Courses

1. HEAT TREATMENT
2. Introduction to the history of materials engineering and metallurgy
3. Physical Metallurgy of Materials1
4. Non Destructive Testing
5. Materials Science
6. Metallurgical Phase Transformations
7. Physical Metallurgy of Materials 2
8. Manufacturing Processes of Materials
9. Scientific and Technical Reports
10. principale of surface eng.

Master Thesis

1. Effect of metallic salts as diluent agents on the combustion synthesis of TiO2- B2O3-Mg system

علي ياوري, [Mahdi Shafiee Afarani, Mahmood Sharifitabar]

نيمسال اول سال تحصيلي 00-99

2. investigation of microstructure and mechanical properties of 6063 aluminum alloy parts fabricated by balouch aluminum Co.

راضيه شهرياري, [Mahmood Sharifitabar, Mahdi Shafiee Afarani]

نيمسال اول سال تحصيلي 00-99

3. Study of self -propagating high-temperature synthesis of TiO2-B2O3-Mg and ZrO2-B2O3-Mg systems

سحر خواجه محمودي, [Mahmood Sharifitabar, Mahdi Shafiee Afarani]

نيمسال اول سال تحصيلي99-98

4. Study of combustion synthesis in the V2O5-B2O3-Al and V2O5-B2O3-Mg systems

حسين احمدي, [Mahdi Shafiee Afarani, Mahmood Sharifitabar]

نيمسال اول سال تحصيلي99-98

5. Fatigue behavior study of inconel 625 alloy fabricated via gas metal arc welding additive manufacturing method

قاسم پيروزمنش, [Mahdi Shafiee Afarani, Mahmood Sharifitabar]

نيمسال اول سال تحصيلي 98-97

6. Fabrication of stainless steel alloy parts by gas metal arc additive manufacturing

علي يادگار, [Mahdi Shafiee Afarani, Mahmood Sharifitabar]

نيمسال اول سال تحصيلي 97-96

7. Fabrication of Ni-based alloy parts by gas metal arc additive manufacturing

ابوالفضل صفرزاده, [Mahdi Shafiee Afarani, Mahmood Sharifitabar]

نيمسال اول سال تحصيلي 97-96

8. Railway welding using narrow gap smaw, thermit and flash butt welding processes, microstructure and mechanical properties

مصطفي پاسبان, [Mahdi Shafiee Afarani, Mahmood Sharifitabar]

نيمسال دوم سال تحصيلي 96-95

9. investigating combustion characteristics of WO3B2O3MgC

جعفر قربان تبارعمران, [Mahdi Shafiee Afarani, Mahmood Sharifitabar]

نيمسال اول سال تحصيلي96-95

10. synthesis of TiSi system coating on Ti6Al4V

فريدون اوكاتي صادق, [Mahdi Shafiee Afarani, Mahmood Sharifitabar]

نيمسال اول سال تحصيلي96-95

11. fabrication of FeTic composite on the surface of steel via submeged arc cladding process

حسن زينلي مقدم, [Mahmood Sharifitabar, Ghodratollah Roudini]

نيمسال اول سال تحصيلي96-95

12. Self propagation high temperature synthesis (SHS) of WC-ZrC-Al2O3 composite

عليرضا ميرابي, [Mahdi Shafiee Afarani, Mahmood Sharifitabar]

نيمسال دوم سال تحصيلي94-95

13. Self propagation high temperature synthesis of TiC-ZrC-Al2O3 composite

محسن رضائي زاده, [Mahdi Shafiee Afarani, Mahmood Sharifitabar]

نيمسال اول سال تحصيلي94-95

Journals Papers

2024

1. Preparation of a hard AlTiVCr compositionally complex alloy by self-propagating high-temperature synthesis

Zahra Dastjerdi, Mahmood Sharifitabar, Mahdi Shafiee Afarani

INTERNATIONAL JOURNAL OF REFRACTORY METALS and HARD MATERIALS Volume: (5) 106694 -

2. Effects of Heat Treatment on Microstructure and Properties of 347 Stainless Steel Alloy Prepared by Wire Arc Additive Manufacturing

Ali Yadegar, Mahmood Sharifitabar, Mahdi Shafiee Afarani

STEEL RESEARCH INTERNATIONAL Volume: (95) 1 - 12

2023

3. Investigation of microstructure and mechanical properties of aluminum alloy parts manufactured by Balouch Aluminum Co

Razie Shahriari, Mahmood Sharifitabar, Mahdi Shafiee Afarani

Volume: (34) 51 - 66

2022

4. High-temperature oxidation performance of Inconel 625 superalloy fabricated by wire arc additive manufacturing

Mahmood Sharifitabar, Samira Khorshahian, Mahdi Shafiee Afarani, Pravin Kumar, Neelesh Kumar Jain

CORROSION SCIENCE Volume: (197) 110087 -1 - 110087-13

5. Copper nanowires / poly (naphtoquinone chromium (III)) for simultaneous voltammetric detection of para - aminophenol, phenol and para - nitrophenol

Zahra Hashemzaiee, Hamideh Saravani, Mahmood Sharifitabar, Mehdi Shahbakhsh

MICROCHEMICAL JOURNAL Volume: (175) 107210-1 - 107210-12

6. Investigation of microstructure and mechanical properties of dissimilar joints between AISI 321 stainless steel and X65 high-strength low-alloy steel

Mahmood Sharifitabar,

Volume: (33) 71 - 86

7. Characterization of 1050Al/Al3Ni/ZrO2 hybrid surface composites fabricated by friction stir processing

Meysam Salarpour, Mahmood Sharifitabar, Hossein Amirabadi

International Journal of Applied Ceramic Technology Volume: (19) 2379 - 2392

8. Effects of Heat Treatment on the Microstructure, Mechanical Properties and Corrosion Behavior of 2209 Duplex Stainless Steel Parts Manufactured By Wire Arc Additive Manufacturing Process

ALI MOLAZADEH, Mahmood Sharifitabar, Mahdi Shafiee Afarani

Volume: (60) 63 - 75

2021

9. Preparation of composite powders containing TiB2 and ZrB2 particles through combustion synthesis of TiO2-ZrO2-B2O3-Mg system

Sahar Khaje mahmoudi, Mahmood Sharifitabar, Mahdi Shafiee Afarani

CERAMICS INTERNATIONAL Volume: (47) 3911 - 3919

10. Synthesis and kinetic study of Mo(Si,Al)2 coatings on the surface of molybdenum through hot dipping into a commercial Al-12 wt.%Si alloy melt

Mahmood Sharifitabar, Fereydoun Oukati sadeq, Mahdi Shafiee Afarani

Surfaces and Interfaces Volume: (24) 1 -101044 - 7 -101044

11. Fatigue Properties of Inconel 625 Alloy Parts Manufactured by Wire Arc Additive Manufacturing Method

Ghasem Pirouzmanesh, Mahmood Sharifitabar, Mahdi Shafiee Afarani

Volume: (32) 137 - 148

12. Combustion synthesis of sponge-like CeOsub>2/sub> powder for selective determination of uric acid in biological fluids

Zahra Hashemzaiee, Hamideh Saravani, Mahmood Sharifitabar, Mehdi Shahbakhsh

Journal of Particle Science and Technology Volume: (7) 73 - 82

13. Combustion synthesis of sponge-like CeO2 powder for selective determination of uric acid in biological fluids

Zahra Hashemzaiee, Hamideh Saravani, Mahmood Sharifitabar, Mehdi Shahbakhsh

Journal of Particle Science and Technology Volume: (7) 73 - 82

2020

14. On the formation of Al2O3 nanofibers during self-propagating high-temperature synthesis of TiO2-Al-C system in various environments

Mahmood Sharifitabar

CERAMICS INTERNATIONAL Volume: (46) 17053 - 17061

15. Microstructure Investigation and Mechanical Properties of Resistance Upset Butt Welded Ti-6Al-4V Alloy

Mahmood Sharifitabar

International Journal of Advanced Design and Manufacturing Technology Volume: (13) 91 - 97

16. Effects of heat treatment on microstructure and mechanical properties of Inconel 625 alloy fabricated by wire arc additive manufacturing process

Abolfazl Safarzade, Mahmood Sharifitabar, Mahdi Shafiee Afarani

TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA Volume: (30) 3016 - 3030

2019

17. Microstructure and wear properties of Fe-TiC composite coatings produced by submerged arc cladding process using ferroalloy powder mixtures

Hassan Zeinali Moghaddam, Mahmood Sharifitabar, Ghodratollah Roudini

SURFACE and COATINGS TECHNOLOGY Volume: (361) 91 - 101

18. Self-propagating high-temperature synthesis of (Zr,W)C/WC/Al2O3 composite powders from WO3-ZrO2-Al-C system

, Mahmood Sharifitabar, Mahdi Shafiee Afarani

INTERNATIONAL JOURNAL OF REFRACTORY METALS and HARD MATERIALS Volume: (82) 279 - 286

19. Synthesis and Evaluation of Properties and Detachment Mechanism of Ti(C,N) Coatings Produced on the Surface of Ti-6Al-4V Alloy by Pack Nitro-Carburizing Process

Mahmood Sharifitabar

Volume: (39) 59 - 67

20. Synthesis of porous Mg-doped CeO2 powders via self-propagating high-temperature synthesis route

Zahra Hashemzaiee, Mahmood Sharifitabar, Hamideh Saravani, Meissam Noroozifar

ADVANCED POWDER TECHNOLOGY Volume: (30) 2947 - 2956

2018

21. Effect of extra carbon addition on the self-propagation high-temperature synthesis characteristics of WO3-H3BO3-Mg-C system

, Mahdi Shafiee Afarani, Mahmood Sharifitabar

CERAMICS INTERNATIONAL Volume: (44) 20115 - 20121

22. On the self-propagating high-temperature synthesis of tungsten boride containing composite powders from WO 3 B 2 O 3 Mg system

, Mahmood Sharifitabar, Mahdi Shafiee Afarani

CERAMICS INTERNATIONAL Volume: (44) 14355 - 14362

23. Fast synthesis of MgAl2O4W and MgAl2O4WW2B composite powders by self-propagating high-temperature synthesis reactions

, Mahdi Shafiee Afarani, Mahmood Sharifitabar

CERAMICS INTERNATIONAL Volume: (44) 6508 - 6513

24. Effects of Ti addition on the microstructure and mechanical properties of multi-pass E6010 high-cellulosic electrode weld metal

, Mahmood Sharifitabar, Ghodratollah Roudini

APPLIED PHYSICS A-MATERIALS SCIENCE and PROCESSING Volume: (124) 1-772 - 12-772

25. Synthesis of TiSiAl coatings on the surface of Ti6Al4V alloy via hot dip siliconizing route

Fereydoun Oukati sadeq, Mahmood Sharifitabar, Mahdi Shafiee Afarani

SURFACE and COATINGS TECHNOLOGY Volume: (337) 349 - 356

2017

26. Comment on the article Contribution of mechanical activation and annealing in the formation of nanopowders of Al(Cu)/TiC-Al2O3 hybrid nanocomposite H. Mostaan et al. Ceramics International 43 (2017) 26802685

Mahmood Sharifitabar

CERAMICS INTERNATIONAL Volume: (43) 8543 - 8543

27. WCTiCAl2O3 composite powder preparation by self-propagating hightemperature synthesis route

, Mahdi Shafiee Afarani, Mahmood Sharifitabar

CERAMICS INTERNATIONAL Volume: (43) 15685 - 15693

2016

28. Microstructure and wear resistance of in-situ TiC - Al 2 O 3 particles reinforced Fe-based coatings produced by gas tungsten arc cladding

Mahmood Sharifitabar, J. Vahdati Khaki,

SURFACE and COATINGS TECHNOLOGY Volume: (285) 47 - 56

29. Fabrication of Fe-TiC-Al2O3 composites on the surface of steel using a TiO2-Al-C-Fe combustion reaction induced by gas tungsten arc cladding

Mahmood Sharifitabar, Jalil Vahdati Khaki,

International Journal of Minerals Metallurgy and Materials Volume: (23) 193 - 204

30. Effect of friction stir processing pass sequence on properties of MgZrSiO4Al2O3 surface hybrid micro/nano-composites

Mahmood Sharifitabar, ,

MATERIALS and DESIGN Volume: (108) 1 - 7

31. Formation mechanism of TiC-Al2O3-Fe3Al composites during self-propagating high-temperature synthesis of TiO2-Al-C-Fe system

Mahmood Sharifitabar, ,

CERAMICS INTERNATIONAL Volume: (42) 12361 - 12370

2015

32. Fabrication of in situ Al2O3 reinforced nanostructure 304 stainless steel matrix composite by self-propagating high temperature synthesis process

, , , Mahmood Sharifitabar,

Materials Volume: (84) 325 - 330

2014

33. Effects of Fe additions on self propagating high temperature synthesis characteristics of TiO2-Al-C system

Mahmood Sharifitabar, j v,

INTERNATIONAL JOURNAL OF REFRACTORY METALS and HARD MATERIALS Volume: (47) 93 - 101

2013

34. Synthesis of Ti(C, N) ceramic layer on surface of Ti-6Al-4V alloy via pack nitro-carburizing route

Mahdi Shafiee Afarani, , Mahmood Sharifitabar

SURFACE and COATINGS TECHNOLOGY Volume: (219) 94 - 100

2012

35. Gas tungsten arc welding of CP-copper to 304 stainless steel using different filler materials

, MOHSEN NAZARZADEH, Mahmood Sharifitabar, Mahdi Shafiee Afarani

TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA Volume: (22) 2937 - 2942

2011

36. Microstructure and mechanical properties of friction stir welded Al/Mg2Si metal matrix cast composite

Mahmood Sharifitabar

materials design Volume: (32) 976 - 983

37. Fabrication of 5052Al/Al2O3 nanoceramic particle reinforced composite via friction stir processing route

Mahdi Shafiee Afarani, Mahmood Sharifitabar, Asma Sarani,

materials design Volume: () 4164 - 4172

2010

38. Resistance upset butt welding of austenitic to martensitic stainless steels

Mahmood Sharifitabar

materials design Volume: (31) 3044 - 3050

Conferences Papers

2020

1. تهيه پودرهاي كامپوزيتي حاوي ذرات TiB2 از طريق سنتز احتراقي سيستم Ti

9th International Conference Exhibition on Materials Science Metallurgical Engineering (iMat2020)

Sahar Khaje mahmoudi, Mahmood Sharifitabar, Mahdi Shafiee Afarani

2. Fabrication of Al/VB2/Al2O3 composites via combustion synthesis route

9th International Conference Exhibition on Materials Science Metallurgical Engineering (iMat2020)

Hossein Ahmadi, Mahmood Sharifitabar, Mahdi Shafiee Afarani

3. Self-propagation high temperature synthesis: A new route for fabrication of porous Mg-doped cerium oxide

5th International Conference on Researches in Science Engineering 2nd International Congress on Civil, Architecture and Urbanism in Asia

Zahra Hashemzaiee, Mehdi Shahbakhsh, Sabere Narouie, Hamideh Saravani, Mahmood Sharifitabar

2019

4. Synthesis and identification of the nickel dimethylformamide and thiocyanate [Ni (SCN) 2 (DMF) 4] complex by hydrothermal method

Zahra Hashemzaiee, Hamideh Saravani, Mahmood Sharifitabar

2017

5. Synthesis of titanium silicide ceramic layer on the surface of Ti-6Al-4V alloy by dip coating process

11th Biennial Congress of the Iranian Ceramic Society 2nd International Conference on Ceramic

Fereydoun Oukati sadeq, Mahdi Shafiee Afarani, Mahmood Sharifitabar

6. Fabrication of Fe-TiC composite on the surface of steel by submerged arc cladding process

The 6th international conference on materials engineering and metallurgy

Hassan Zeinali Moghaddam, Mahmood Sharifitabar, Ghodratollah Roudini

7. بررسي واكنش سنتز احتراقي خود پيشرونده سيستم C-Mg-B2O3-W

the 6th international conference on materials engineering and metallurgy

, Mahdi Shafiee Afarani, Mahmood Sharifitabar

Executive activities

مشاوره دانشجويان كارشناسي

from 1402/07/01 - now

فرصت مطالعاتي ارتباط با صنعت

from 1400/11/15 - to 1401/04/31

Research Project

2021

1. مطالعه و طراحي بهبود واحد توليدي تعاوني 3889 لوله و پروفيل سي بل زاهدان

Mahmood Sharifitabar, Hossein Rahmani - 2021

2017