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Education

- ✓ B.Sc, Materials Engineering, Imam Khomeini International University - 1997
- ✓ MS, Materials Engineering, Materials and Energy Research Center - 1999
- ✓ PhD, Materials Engineering, Materials and Energy Research Center - 2004
- ✓ PhD, Materials Engineering, Materials and Energy Research Center - 2004

Courses

- | | |
|---|--------------------------------|
| 1. Materials Characterization | 2. Crystallography and Lab |
| 3. Advanced Characterization of Materials | 4. Phys Chemistry of Materials |

Master Thesis

1. Study of combustion synthesis in the V2O5-B2O3-Al and V2O5-B2O3-Mg systems
[Mahdi Shafiee Afarani, Mahmood Sharifitabar]
نیمسال اول سال تحصیلی 98-99
2. Investigation on sintering behavior of cordierite powders synthesized by solution combustion method
[Mahdi Shafiee Afarani, Ahmad Reza Abbasian]
نیمسال اول سال تحصیلی 98-99
3. Solution combustion synthesis of Fe-Cr-Al-Zn brown pigment for ceramic ink jet printers
[Mahdi Shafiee Afarani, ,]
نیمسال اول سال تحصیلی 98-99
4. Study of self -propagating high-temperature synthesis of TiO2-B2O3-Mg and ZrO2-B2O3-Mg systems
[Mahmood Sharifitabar, Mahdi Shafiee Afarani]
نیمسال اول سال تحصیلی 98-99
5. synthesis of YAG/CdSe hybrid luminescent pigment
[Mahdi Shafiee Afarani, , D D]
نیمسال اول سال تحصیلی 97-98
6. Fatigue behavior study of inconel 625 alloy fabricated via gas metal arc welding additive manufacturing method
[Mahdi Shafiee Afarani, Mahmood Sharifitabar]
نیمسال اول سال تحصیلی 97-98
7. Control of drug release using electrspun nano-polymer fibers on titania nanotubes
[Davod Mohebbi Kalhori, Mahdi Shafiee Afarani]
نیمسال اول سال تحصیلی 97-98
8. Fabrication of stainless steel alloy parts by gas metal arc additive manufacturing
[Mahdi Shafiee Afarani, Mahmood Sharifitabar]
نیمسال اول سال تحصیلی 96-97
9. Fabrication of Ni-based alloy parts by gas metal arc additive manufacturing
[Mahdi Shafiee Afarani, Mahmood Sharifitabar]
نیمسال اول سال تحصیلی 96-97
10. study of the parameters during the synthesis of Li2TiO3 nanostructure via hydrothermal route
[Mahdi Shafiee Afarani, Ahmad Reza Abbasian]
نیمسال اول سال تحصیلی 96-97
11. combustion synthesis of nanostructure mesoporous CeO2 as Corrosion inhibitor reservoir
[Mahdi Shafiee Afarani, ,]
نیمسال اول سال تحصیلی 96-97
12. Railway welding using narrow gap smaw, thermit and flash butt welding processes, microstructure and mechanical properties
[Mahdi Shafiee Afarani, Mahmood Sharifitabar]

نیمسال دوم سال تحصیلی 95-96

13. investigating combustion characteristics of $\text{WO}_3\text{B}_2\text{O}_3\text{MgC}$

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

نیمسال اول سال تحصیلی 95-96

14. synthesis of TiSi system coating on Ti6Al4V

[Mahdi Shafiee Afarani, Mahmood Sharifitabar], فریدون اوکاتی صادق

نیمسال اول سال تحصیلی 95-96

15. combustion synthesis of ZnOZnS quantum dots

[Mahdi Shafiee Afarani,], مجید ظهیری

نیمسال اول سال تحصیلی 95-96

16. Effect of Fuel Type and Concentration on Morphology and Optical Properties of ZnO Nanoparticles Synthesized by Combustion Synthesis Method

[Mahdi Shafiee Afarani,], حسن محمودی

نیمسال دوم سال تحصیلی 95-94

17. Self propagation high temperature synthesis (SHS) of $\text{WC-ZrC-Al}_2\text{O}_3$ composite

[Mahdi Shafiee Afarani, Mahmood Sharifitabar], علیرضا میرابی

نیمسال دوم سال تحصیلی 95-94

18. Self propagation high temperature synthesis of $\text{TiC-ZrC-Al}_2\text{O}_3$ composite

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

نیمسال اول سال تحصیلی 95-94

19. Synthesis of magnetic fluids with nano composite Fe_3O_4 and CuO quantum dots

[Mahdi Shafiee Afarani,], زهرا دستجردی

نیمسال اول سال تحصیلی 95-94

20. Synthesis of ZnO doped TiO_2 nanopowders and study of its photocatalytic properties on Arsenic removal from industrial wastewater

[Mahdi Shafiee Afarani,], منصور عرب نژاد

نیمسال اول سال تحصیلی 95-94

21. Synthesis of $\text{Cu (Al}_2\text{O}_3/\text{SiO}_2)$ layer hibrid composite by combination of electrophoresis and hot pressing methods

[Ghodratollah Roudini, Mahdi Shafiee Afarani], حمیدرضا نورزایی

نیمسال اول سال تحصیلی 93-94

22. synthesis of cadmium selenide quantum dots-carbon nano tube composites

[Mahdi Shafiee Afarani,], بهزاد کریمی

نیمسال اول سال تحصیلی 93-94

23. synthesis of copper oxide quantum dots

[Mahdi Shafiee Afarani,], فاطمه پیری

نیمسال اول سال تحصیلی 93-94

24. synthesis of $\text{Al(Al}_2\text{O}_3/\text{SiC)}$ layer hibrid composite by combination of electrophoresis and hot pressing methods

[Ghodratollah Roudini, Mahdi Shafiee Afarani], عاطفه اکبریان

نیمسال اول سال تحصیلی 93-94

25. synthesis of Al(Al₂O₃/SiO₂) layer hibrid composite by combination of electrophoresis and hot pressing methods

هانیة صفاری, [Ghodratollah Roudini, Mahdi Shafiee Afarani]

نیمسال اول سال تحصیلی 93-94

26. prepaion of PCL/OCP composite scaffold using electrospining method for bone tissue engineering

زهرة حیدری, [Davod Mohebbi Kalhori, Mahdi Shafiee Afarani]

نیمسال اول سال تحصیلی 93-94

27. Synthesis of copper oxide ceramic ink for photocatalytic application

مشکاندخت خسروی, [Mahdi Shafiee Afarani, ,]

نیمسال اول سال تحصیلی 93-94

28. fabrication of Al/SiC-Al₂O₃ interpenetratig phases composite

محسن باقری دولت آبادی, [Ghodratollah Roudini, Mahdi Shafiee Afarani]

نیمسال اول سال تحصیلی 93-94

29. synthesis of ZnS:Mn nano-pigment for luminescent ink application

فاطمه اسمعیلی, [Mahdi Shafiee Afarani, ,]

نیمسال اول سال تحصیلی 93-94

30. synthesis of octacalcium phosphate for biomedical applications

سجاد احمدی شاهرخت, [Mahdi Shafiee Afarani, Davod Mohebbi Kalhori,]

نیمسال اول سال تحصیلی 92-93

31. electrospinning of titaniananofibers for bone tissue engineering scaffold

سیدمحمد حسینی, [Davod Mohebbi Kalhori, Mahdi Shafiee Afarani]

نیمسال اول سال تحصیلی 92-93

32. fabrication of functionally graded tortuosity alumina supports via slip casting route for bone tissue engineering scaffold

فاطمه سرحدی, [Mahdi Shafiee Afarani, Davod Mohebbi Kalhori, Masoud Shayesteh]

نیمسال اول سال تحصیلی 92-93

33. fabrication of Al/SiC-Al₂O₃ interpenetratig phases composite

محسن باقری دولت آبادی, [Ghodratollah Roudini, Mahdi Shafiee Afarani]

نیمسال اول سال تحصیلی 92-93

34. combustion synthesis of fluorescence pigment based on aluminate structure

محمد مرادی گل شیخ, [Mahdi Shafiee Afarani, ,]

نیمسال اول سال تحصیلی 91-92

35. Synthesis of nanosize TiO₂ and TiO₂-WO₃ nanocomposite and investigation of their photocatalysis properties

محبوبه دهستانی, [Mahdi Shafiee Afarani, Masoud Shayesteh,]

نیمسال اول سال تحصیلی 89-90

36. The effect of packing on sintered alumina porous supports

محمدجواد قادری, [Mahdi Shafiee Afarani, Ghodratollah Roudini]

نیمسال اول سال تحصیلی 89-90

37. Synthesis of alomina granules using high shear mixer

احسان بهادری یکتا, [Mahdi Shafiee Afarani, Abdolreza Samimi]

نیمسال اول سال تحصیلی 89-90

Journals Papers

2023

1. Phase transformation of FeCr_2O_4 to $(\text{Fe,Cr})_2\text{O}_3$ solid solution pigment powders: Effect of post-heating temperature

Fatemeh Paborji, Mahdi Shafiee Afarani, Amir Masoud Arabi, Mehdi Ghahari

International Journal of Applied Ceramic Technology Volume: (1) 281 - 293

2. Synthesis of $(\text{Fe,Cr})_2\text{O}_3$ solid solution pigment powders for ink application

Fatemeh Paborji, Mahdi Shafiee Afarani, Amirmasoud Arabi, Ghahari Mehdi

International Journal of Applied Ceramic Technology Volume: (20) 1154 - 1165

2022

3. 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

4. Ceria particles synthesized via combustion method to inspire active protection for epoxy coating on mild steel

Zahra Ghahramani, Amirmasoud Arabi, Mahdi Shafiee Afarani, Mahdavian Mohammad

COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS Volume: (640) 128309-1 - 128309-11

5. Stabilizing nano-Pd on porous Li_2TiO_3 via chemical and electrochemical reduction systems for the electrooxidation of ethylene glycol

Salehe Gomroki, Zahra Yavari, Ahmad Reza Abbasian, Mahdi Shafiee Afarani, Meissam Noroozifar

MATERIALS CHEMISTRY AND PHYSICS Volume: (281) 125896-1 - 125896-9

6. Solution combustion synthesis of high surface area Li_2TiO_3 nanostructure particles: Effect of nitric acid and NaCl addition

Hoora Kaspoor, Ahmad Reza Abbasian, Mahdi Shafiee Afarani

CERAMICS INTERNATIONAL Volume: (48) 10039 - 10047

7. Solution combustion synthesis of FeCr_2O_4 powders for pigment applications: Effect of fuel type

Fatemeh Paborji, Mahdi Shafiee Afarani, Amir Masoud Arabi, Mehdi Ghahari

International Journal of Applied Ceramic Technology Volume: (19) 2406 - 2418

8. Magnetite-Silver Core-Shell Nanoparticles: Synthesis, Characterizes, and Optical Properties

Majid Rashidi Huyeh, Saideh Baloochzahi, Mahdi Shafiee Afarani,

Plasmonics Volume: (17) 2385 - 2390

9. Synthesis of CuO and CuO/ZnO Composite Powders for Antibacterial, Photocatalytic, and Pigment-Related Applications

, Mehdi Ghahari, Mahdi Shafiee Afarani, Arabi Amir Masoud

Advanced Ceramics Progress Volume: (8) 1 - 8

2021

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. The preparation of Li₂TiO₃ powder via solution combustion synthesis for using in fusion reactor as tritium breeder

Hooria Kaspoor, Ahmad Reza Abbasian, Mahdi Shafiee Afarani

Volume: (94) 11 - 20

12. 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

13. 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

2020

14. Solution combustion synthesis of cerium oxide nanoparticles as corrosion inhibitor

Zahra Ghahramani, Amirmasoud Arabi, Mahdi Shafiee Afarani, Mohammad Mahdavian

International Journal of Applied Ceramic Technology Volume: (17) 1514 - 1521

15. Ultrasonic-assisted solvothermal synthesis of self-assembled Copper Ferrite nanoparticles

Ahmad Reza Abbasian, Samira Hoseyni ramaghani, Masoud Shayesteh, Mahdi Shafiee Afarani, Masoud Rafiq

International Journal of Nano Dimension Volume: (11) 130 - 144

16. Synergistic influence of spongy ZnO on catalytic activity of nano-catalyst Pd toward electrooxidation of liquid fuels

Fariba Kaedi, Zahra Yavari, Mahdi Shafiee Afarani, Meissam Noroozifar

JOURNAL OF POROUS MATERIALS Volume: (27) 1203 - 1211

17. Synthesis of cobalt ferrite colloidal nanoparticle clusters by ultrasonic-assisted solvothermal process

Ahmad Reza Abbasian, Zahra Lorfasai, Masoud Shayesteh, Mahdi Shafiee Afarani

Journal of the Australian Ceramic Society Volume: (56) 1119 - 1126

18. Hydrothermal synthesis of cadmium selenide quantum dots: effect of reducing agent

Behzad Karimi, Mahdi Shafiee Afarani, Arabi Amir Masoud

APPLIED PHYSICS A-MATERIALS SCIENCE and PROCESSING Volume: (126) 706-1 - 706-9

19. Electrooxidation of single-carbon molecules by nanostructured Pd-decorated spongy ceria

Zahra Yavari, Mahdi Shafiee Afarani, Amir Masoud Arabi, Meissam Noroozifar

KOREAN JOURNAL OF CHEMICAL ENGINEERING Volume: (37) 1669 - 1679

20. 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

21. Microwave-assisted combustion synthesis of ZnAl₂O₄ and ZnO nanostructure particles for photocatalytic wastewater treatment

Mozhgan Shahmirzaee, Mahdi Shafiee Afarani, Iran Nejhad Ahmad, Arabi Amir Masoud

PARTICULATE SCIENCE AND TECHNOLOGY Volume: (37) 110 - 117

22. 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

23. Co-precipitation Synthesis of CdTe/ ZnS, ZnSe, CdS and CdSe Core-Shell Quantum Dots

, Mahdi Shafiee Afarani, Arabi Amir Masoud , Davod Mohebbi Kalhori

Volume: (13) 89 - 98

24. One-step solution combustion synthesis and characterization of ZnFe₂O₄ and ZnFe_{1.6}O₄ nanoparticles

Ahmad Reza Abbasian, Mahdi Shafiee Afarani

APPLIED PHYSICS A-MATERIALS SCIENCE and PROCESSING Volume: (125) -

25. Co-precipitation synthesis of ZnO-TiO₂ nanostructure composites for arsenic photodegradation from industrial wastewater

, Mahdi Shafiee Afarani, Abdolhamid Jafari

International Journal of Environmental Science and Technology Volume: (16) 463 - 468

26. Synthesis of copper oxide quantum dots: effect of surface modifiers

, Mahdi Shafiee Afarani, Amir Masoud Arabi

Materials Research Express Volume: (6) 125006-1 - 125006-9

27. Combustion Synthesis of ZnO/ZnS Nanocomposite Phosphors

Majid Zahiri, Mahdi Shafiee Afarani, Arabi Amir Masoud

JOURNAL OF FLUORESCENCE Volume: (5) 1227 - 1239

28. Surface modification of carbon nanotubes for the synthesis of CNTs/ZnS quantum dot composites via electrophoretic deposition route

Ali reza Avval, Amir Masoud Arabi, Mahdi Shafiee Afarani

Materials Research Express Volume: (6) -

29. Microwave assisted combustion synthesis of photoluminescent ZnAl₂O₄:Eu nano powders

Mohammad Moradi golsheikh, Amir Masoud Arabi, Mahdi Shafiee Afarani

Materials Research Express Volume: (6) 125052 -

30. Synthesis of zinc oxide and zinc oxide/zinc sulfide nano composite via solution combustion route

Majid Zahiri, Mahdi Shafiee Afarani, Amir Masoud Arabi

Materials Research Express Volume: (6) 1250g5 -

2018

31. Effects of porosity and pore size distribution on mechanical strength reliability of industrial-scale catalyst during preparation and catalytic test steps

, Abdolreza Samimi, Mahdi Shafiee Afarani,

PARTICULATE SCIENCE AND TECHNOLOGY Volume: (36) 96 - 103

32. 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

33. CNTCdSe QDs nanocomposites synthesis and photoluminescence studies

Behzad Karimi, Amir masoud Arabi, Farhoud Najafi, Mahdi Shafiee Afarani

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: (29) 13499 - 13507

34. 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

35. Dual functions of thiourea for solution combustion synthesis of ZnO/ZnS composite powders fuel and sulphur source

Majid Zahiri, Mahdi Shafiee Afarani, Amir Masoud Arabi

APPLIED PHYSICS A-MATERIALS SCIENCE and PROCESSING Volume: (124) 663-1 - 663-6

36. On the self-propagating high-temperature synthesis of tungsten boride containing composite powders from WO₃-B₂O₃-Mg system

, Mahmood Sharifitabar, Mahdi Shafiee Afarani

CERAMICS INTERNATIONAL Volume: (44) 14355 - 14362

37. Synthesis of ZnS-Mn nano-luminescent pigment for ink applications

, Mehdi Ghahari, Mahdi Shafiee Afarani, Atasheh Soleimani

Journal of Coatings Technology and Research Volume: (15) 1325 - 1332

38. 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

39. Synthesis of Fe₃O₄ and Fe₃O₄-CuO Magnetic Nanopigments by Precipitation Method

, amirmasoud aarabi, Mahdi Shafiee Afarani,

Volume: (11) 287 - 295

40. FABRICATION OF HIGH VOLUME FRACTION ALUMINA/ALUMINUM COMPOSITES VIA REACTION SINTERING ROUTE

Keyvan Piry, Mahdi Shafiee Afarani, Ghodratollah Roudini

Journal of Chemical Technology and Metallurgy Volume: (52) 12 - 18

41. In situ crystallization of ZnAl₂O₄/ZnO nanocomposite on alumina granule for photocatalytic purification of wastewater

Mozhgan Shahmirzaee, Mahdi Shafiee Afarani, ,

RESEARCH ON CHEMICAL INTERMEDIATES Volume: (43) 321 - 340

42. Synthesis of carbon nanotube-cadmium selenide luminescent nanocomposites using electrophoretic deposition technique

Behzad Karimi, , Mahdi Shafiee Afarani

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: (28) 1247 - 1252

43. Interaction between Weibull parameters and mechanical strength reliability of industrial-scale water gas shift catalysts

, Abdolreza Samimi, Mahdi Shafiee Afarani,

Particuology Volume: (32) 160 - 166

44. Microbial fuel cell (MFC) using commercially available unglazed ceramic wares Low-cost ceramic separators suitable for scale-up

, Davod Mohebbi Kalhori, Mahdi Shafiee Afarani

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: (42) 8233 - 8241

45. WCTiAl₂O₃ composite powder preparation by self-propagating hightemperature synthesis route

, Mahdi Shafiee Afarani, Mahmood Sharifitabar

CERAMICS INTERNATIONAL Volume: (43) 15685 - 15693

46. Synthesis and investigation of antimicrobial properties of SiO₂Cu rods with core-shell structure

Meysam Araghi, mahdi ghahai, Mahdi Shafiee Afarani

Journal of Environmental Chemical Engineering Volume: (5) 1780 - 1790

47. Engineered electrospun polycaprolactone (PCL)/octacalcium phosphate (OCP) scaffold for bone tissue engineering

, Davod Mohebbi Kalhori, Mahdi Shafiee Afarani

Materials Science and Engineering C-Materials for Biological Applications Volume: () 127 - 132

2016

48. Fabrication of alumina porous scaffolds with aligned oriented pores for bone tissue engineering applications

Fateme Sarhadi, Mahdi Shafiee Afarani, , Masoud Shayesteh

Volume: (122) 1 - 8

49. Fabrication of alumina porous scaffolds with aligned oriented pores for bone tissue engineering applications

Fateme Sarhadi, Mahdi Shafiee Afarani, Davod Mohebbi Kalhori, Masoud Shayesteh

APPLIED PHYSICS A-MATERIALS SCIENCE and PROCESSING Volume: (122) 1 - 8

50. Synthesis of titania—alumina multilayer nanomembranes on performance-improved alumina supports for wastewater treatment

Masoud Shayesteh, Abdolreza Samimi, Mahdi Shafiee Afarani,

Desalination and Water Treatment Volume: (20) 9115 - 9122

51. Determination of mefenamic acid in urine and pharmaceutical samples by HPLC after pipette-tip solid phase microextraction using zinc sulfide modified carbon nanotubes

, Massoud Kaykhaii, Mahdi Shafiee Afarani,

Analytical Methods Volume: (8) 5978 - 5983

2015

52. Persian turquoise glazed bodies reproduction and optical properties

Mahdi Shafiee Afarani, Alimohamad Mesbahinia, Majid Rashidi Huyeh

APPLIED PHYSICS A-MATERIALS SCIENCE and PROCESSING Volume: (118) 1183 - 1188

53. In situ synthesis and electrophoretic deposition of CNT ZnS Mn luminescent nanocomposites

Ali Naeimi, , Mahdi Shafiee Afarani,

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: (26) 1403 - 1412

54. Synthesis of titania-gama-alumina multilayer nanomembranes on performance-improved alumina supports for wastewater treatment

, Abdolreza Samimi, Mahdi Shafiee Afarani,

Desalination and Water Treatment Volume: () 1 - 8

55. Persian turquoise glazed bodies: reproduction and optical properties

, Majid Rashidi Huyeh, Mahdi Shafiee Afarani

APPLIED PHYSICS A-MATERIALS SCIENCE and PROCESSING Volume: (118) 1183 - 1188

56. High-volume-fraction Cu/Al₂O₃–SiC hybrid interpenetrating phase composite

Hesam Saidi, Ghodrattollah Roudini, Mahdi Shafiee Afarani

APPLIED PHYSICS A-MATERIALS SCIENCE and PROCESSING Volume: (121) 109 - 113

57. A novel method for fabrication of alumina foams with ellipsoidal aligned oriented pores

Mozhgan Zahed, Mahdi Shafiee Afarani, Davod Mohebbi Kalhori

APPLIED PHYSICS A-MATERIALS SCIENCE and PROCESSING Volume: (120) 215 - 220

58. Synthesis of Hollow Tadpole-Like Silica Particles

Motahare Mozaffari naiini, , Mahdi Shafiee Afarani

PARTICULATE SCIENCE AND TECHNOLOGY Volume: (33) 456 - 462

59. In situ synthesis and electrophoretic deposition of CNT-ZnS:Mn luminescent nanocomposites

, , Mahdi Shafiee Afarani,

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: (26) 1403 - 1412

2014

60. In Situ Solvothermal Crystallization of TiO₂ Nanostructure on Alumina Granules for Photocatalytic Wastewater Treatment

Emad Khaksar, Mahdi Shafiee Afarani, Abdolreza Samimi

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE Volume: (23) 92 - 100

61. Co-precipitation synthesis of nanoY₂O₃ Eu₃ with different morphologies

, , Mahdi Shafiee Afarani

CERAMICS INTERNATIONAL Volume: (40) 10877 - 10885

62. In Situ Solvothermal crystallization of TiO₂ Nanostructure on Alumina Granules for photocatalytic wastewater treatment

Emad Khaksar, Mahdi Shafiee Afarani, Abdolreza Samimi

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE Volume: (23) 92 - 100

2013

63. Effect of ammonium nitrate on microstructure and permeability characteristics of tubular alumina support using slip casting fabrication method

, Masoud Shayesteh, Mahdi Shafiee Afarani, Abdolreza Samimi

JOURNAL OF CERAMIC PROCESSING RESEARCH Volume: (14) 1 - 4

64. Synthesis of alumina granules by high shear mixer granulator Processing and sintering

Mahdi Shafiee Afarani, Abdolreza Samimi,

POWDER TECHNOLOGY Volume: (237) 32 - 40

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

Mahdi Shafiee Afarani, , M. Sharifitabar

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

66. Preparation of Y-alumina and peritectization of affecting factors on the crystallite size using Taguchi method

Masoud Shayesteh, Mahdi Shafiee Afarani, Abdolreza Samimi, Mohammad Khorram

Transport Phenomena in Nano and Micro Scales Volume: (1) 45 - 52

67. Effect of ammonium nitrate on microstructure and permeability characteristics of tubular alumina support using slip casting fabrication method

, Masoud Shayesteh, Mahdi Shafiee Afarani, Abdolreza Samimi

JOURNAL OF CERAMIC PROCESSING RESEARCH Volume: () 472 - 475

68. Preparation of γ - Al_2O_3 and prioritization of affecting factors on the crystallite size using Taguchi method

, Mahdi Shafiee Afarani, Abdolreza Samimi,

Transport Phenomena in Nano and Micro Scales Volume: () 45 - 52

69. Synthesis of alumina porous supports via different compaction routes: vibration and pressing

, Mahdi Shafiee Afarani, Ghodratollah Roudini

Journal of Chemical Technology and Metallurgy Volume: (3) 289 - 295

2012

70. 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

71. Fabrication of 5052Al/ Al_2O_3 nanoceramic particle reinforced composite via friction stir processing route

Mahdi Shafiee Afarani, Mahmood Sharifitabar, Asma Sarani,

materials design Volume: () 4164 - 4172

2010

72. Effect of Zn addition on optical properties and microstructure of Y_2O_3 Eu nanopowders prepared by combustion method

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2017

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the 6th international conference on materials engineering and metallurgy

, Mahdi Shafiee Afarani, Mahmood Sharifitabar

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11. Effect of Zn addition on luminescence of Y₂O₃ Eu nanopowders using solution combustion method

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