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Faculty : Engineering

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Education

- ✓ B.Sc, Materials and Metallurgical Engineering, Azad Islamic- Najfabad Branch - 2004
- ✓ MS, Materials Engineering, Materials and Energy Research Center - 2007
- ✓ PhD, Materials Engineering, Materials and Energy Research Center - 2014
- ✓ PhD, Materials Engineering, Materials and Energy Research Center - 2014

Courses

- | | |
|--|-------------------------------------|
| 1. B.Sc. Project | 2. Scientific and Technical Reports |
| 3. detection of nano particles and their synthesis process | 4. Material characterization |
| 5. Phys Chemistry of Materials | 6. Transport Phenomena |
| 7. nano material1 | 8. Refractories |
| 9. Measurement errors in materials research | 10. Solid State Physics |
| 11. Fundamentals of ceramic engineering | 12. Solid State Physics |

Master Thesis

1. study of the parameters during the synthesis of Li_2TiO_3 nanostructure via hydrothermal route

حورا کاس پور, [Mahdi Shafiee Afarani, Ahmad Reza Abbasian]
نیمسال اول سال تحصیلی 96-97

Journals Papers

2021

1. Synergistic influence of mesoporous spinel nickel ferrite on the electrocatalytic activity of nanostructured palladium

Fariba Kaedi, Zahra Yavari, Ahmad Reza Abbasian, , Kagan Kerman, Meissam Noroozifar

RSC Advances Volume: (11) 11813 - 11820

2. The preparation of Li_2TiO_3 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

2020

3. Salt-assisted solution combustion synthesis of nanostructured ZnFe_2O_4 - ZnS powders

Ahmad Reza Abbasian, Mashaallah Rahmani

INORGANIC CHEMISTRY COMMUNICATIONS Volume: (111) 107629 -

4. 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

5. Isothermal study of asphaltene adsorption over 4A, 13X, ZSM-5, clinoptilolite zeolites, and phoslock

Maryam Baninaam, Seyed Ali Hosseini, Ahmad Reza Abbasian

Applied Petrochemical Research Volume: (10) 49 - 54

6. 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

7. Nano-assembly Pd anchoring in the non-stoichiometric spongy zinc ferrite to catalyze the electro-oxidation of C1 organic compounds

Fariba Kaedi, Zahra Yavari, Ahmad Reza Abbasian, Kagan Kerman, Meissam Noroozifar

CERAMICS INTERNATIONAL Volume: (46) 25741 - 25749

8. The role of Si on solidification behaviour of the NiAl intermetallic cladding produced by the GTAW process

M. Rafiei, M. Javadi, H. Mostaan, Ahmad Reza Abbasian

CANADIAN METALLURGICAL QUARTERLY Volume: (59) 262 - 269

2019

9. Microstructural and mechanical investigation of high alumina refractory castables containing nano-titania

Ahmad Reza Abbasian, Najmeh Omidvar-Askary

CERAMICS INTERNATIONAL Volume: (45) 287 - 298

10. Synthesis of a NiTi₂-AlNi-Al₂O₃ nanocomposite by mechanical alloying and heat treatment of Al-TiO₂-NiO

Reza Beygi, Majid Zarezadeh Mehrizi, Hossein Mostaan, Mahdi Rafiei, Ahmad Reza Abbasian

International Journal of Minerals Metallurgy and Materials Volume: (26) 345 - 349

11. Ethanol electrooxidation on high performance mesoporous ZnFe₂O₄ supported palladium nanoparticles

Fariba Kaedi, Zahra Yavari, Ahmad Reza Abbasian, Meissam Noroozifar

NEW JOURNAL OF CHEMISTRY Volume: (43) 3884 - 3890

12. Microstructural, mechanical and corrosion properties of dissimilar joint between AISI A321 stainless steel and ASTM A537CL1 structural steel produced by GTAW process

Behnam Sadeghi, Hassan Sharifi, Mahdi Rafiei, Ahmad Reza Abbasian, Ehsan Saebnoori

Metallurgical Research and Technology Volume: (116) -

13. Investigation into microstructural evolutions, mechanical properties and thermal analysis of Al(Zn)/Al₂O₃ nano-composite fabricated by mechanical milling and SPS method

M Oraei, H Mostaan, M Rafiei, Ahmad Reza Abbasian, M Zarezadeh

Materials Research Express Volume: (6) -

14. Effect of aluminum to alumina particles size ratio on the microstructural aspects of aluminide coatings by LTHA pack cementation

M Kahkhaei Javan, Adele Azizimoghaddam, M Farvizi, Ahmad Reza Abbasian, K Shirvani, S M M Hadavi, M

Materials Research Express Volume: (6) 096437 -

15. Investigation on Mechanism of Cordierite Formation from Nano Silica-Magnesium chloride-Reactive Alumina

Ahmad Reza Abbasian, Safora Pakdaman Tehrani, Farideh Tabatabaei

Volume: (8) 1 - 12

16. 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) -

17. Adsorptive removal of arsenic from real sample of polluted water using magnetic GO/ZnFe₂O₄ nanocomposite and ZnFe₂O₄ nanospinel

S. A. Hosseini, Ahmad Reza Abbasian, O. Gholipour, S. Ranjan, N. Dasgupta

International Journal of Environmental Science and Technology Volume: (16) 7455 - 7466

18. Production and characterization of Ni₂AlSi nanocrystalline intermetallic compound via mechanical alloying process

Mahdi Rafiei, Mehrdad Javadi, Hossein Mostaa, Ahmad Reza Abbasian

Volume: (21) 284 - 291

19. Sintering Behavior of Lithium Meta Titanate Nanocrystallites

Ahmad Reza Abbasian, Mohammad Reza Rahimipour, Zohreh Hamnabard

Iranian Journal of Materials Science and Engineering Volume: (16) 43 - 52

20. Controlled synthesis and self-assembly of ZnFe₂O₄ nanoparticles into microspheres by solvothermal method

, Alireza Rezvani, Ahmad Reza Abbasian

Materials Research Express Volume: (6) 1250e5 -

2018

21. Reaction Pathways of Nanocomposite Synthesized in-situ from Mechanical Activated Al-C-TiO₂ Powder Mixture

Majid Zarezadeh Mehrizi, Hossein Mostaana, Reza Beygi, Mahdi Rafiei, Ahmad Reza Abbasian

Russian Journal of Non-Ferrous Metals Volume: (59) 117 - 122

22. Photocatalytic desulfurization of dibenzothiophene by NiCo₂O₄ nanospinel obtained by an oxidative precipitation process modeling and optimization

Seyed Ali Hosseini, vahid majidi, Ahmad Reza Abbasian

Journal of Sulfur Chemistry Volume: (39) 119 - 129

23. The optimization of dispersant content in alumina castable containing nano-titania

Ahmad Reza Abbasian, Najmeh Omidvar-Askary

Advanced Ceramics Progress Volume: (4) 16 - 22

2017

24. Contribution of mechanical activation and annealing in the formation of nanopowders of Al(Cu)/TiC-Al₂O₃ hybrid nanocomposite

hossain mastan, , , Ahmad Reza Abbasian

CERAMICS INTERNATIONAL Volume: (43) 2680 - 2685

25. Remediation of phenol and phenolic derivatives by catalytic wet peroxide oxidation over Co-Ni layered double nano hydroxides

seid ali hossaini, , Ahmad Reza Abbasian

Journal of the Taiwan Institute of Chemical Engineers Volume: (75) 97 - 104

26. Response to comments from M. Sharifitabar on the paper "Contribution of mechanical activation and annealing in the formation of nanopowders of Al(Cu)/TiC-Al₂O₃ hybrid nanocomposite"

, , , , Ahmad Reza Abbasian

CERAMICS INTERNATIONAL Volume: (43) 8544 - 8544

Conferences Papers

2019

1. Incorporated Palladium Nanoparticles on Mesoporous Zinc Ferrite as an Effective Catalyst for Ethanol Electrooxidation

Fariba Kaedi, Zahra Yavari, Ahmad Reza Abbasian, Meissam Noroozifar

2. Synthesis and characterization of meso-porous Ni₂FeO₄ with a novel combustion method: Application as support for Pd nanocatalyst

Fariba Kaedi, Zahra Yavari, Ahmad Reza Abbasian, Meissam Noroozifar

3. A Novel Combustion Method to Fabricate of Porous NiO: Application as Catalyst Support to Immobilize Palladium Nanoparticles for Methanol Electrooxidation

Salehe Gomroki, Zahra Yavari, Ahmad Reza Abbasian, Meissam Noroozifar

4. Synthesis and characterization of nanoparticle BaFe₂O₄ using precursor [Fe(bpy)₃]₂[Ba(acac)₂(SCN)₂(H₂O)₂]

Masoud Rafigh esmaeilzaei, Hamideh Saravani, Ahmad Reza Abbasian

5. Investigation on Mechanism of Cordierite Formation from Nano Silica-Magnesium chloride-Reactive Alumina

The 12th Congress of Iranian Ceramic Society

6. The Effect of Fuel Type on Solution Combustion Synthesis of Lithium Metatitanate

2017

7. Hydrothermal synthesis of monoclinic - cubic Li₂TiO₃ hybrid nanocomposite microspheres

6th International Biennial Conference on Ultrafine Grained and NanoStructured Materials

Ahmad Reza Abbasian, ,