



## Esmail Tohidlou Associate Professor

Faculty : Engineering

Departments : Materials Engineering

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University of Sistan and Baluchestan, Daneshgah Ave., Zahedan,  
Iran.

## Education

- ✓ B.Sc, Materials Engineering-Industrial Metallurgy,Ferdowsi University of Mashhad - 2000
- ✓ MS, Materials Engineering,Materials and Energy Research Center - 2003
- ✓ PhD, Materials Engineering,University Magdeburg - 2016
- ✓ PhD, Materials Engineering,University Magdeburg - 2016

## Courses

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| 1. Mechanical Properties of Materials I            | 2. Mechanical Properties of Materials 2            |
| 3. computer programming                            | 4. Simulation in Materials Science and Engineering |
| 5. APPLICATION OF COMPUTER IN MATERIAL ENGINEERING | 6. Fracture Mechanics                              |

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## Master Thesis

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### 1. Preparation of silica-decorated graphene oxide nanohybrid system as a particulate reinforcement for woven jute fabric reinforced epoxy composites

مهناز اميرآبادي زاده, [Hamed Khosravi, Esmail Tohidlou]

نيمسال اول سال تحصيلي 98-99

### 2. An experimental study on the flexural/tensile behavior, interlaminar shear strength and wear properties of E-glass chopped strand mat/epoxy composite containing various CaCO<sub>3</sub> nanoparticle loadings

ريحانه خراساني, [Hamed Khosravi, Esmail Tohidlou]

نيمسال اول سال تحصيلي 98-99

### 3. An investigation on mechanical behavior of multiscale nanozirconia/ graphene oxide/ basalt fiber/ epoxy composites

داود تورچي, [Hamed Khosravi, Esmail Tohidlou]

نيمسال اول سال تحصيلي 97-98

### 4. An investigation on the microstructure and mechanical behavior of Al-Si/graphene nanocomposites modified by erbium

سيدمسعود علوي, [Hamed Khosravi, Esmail Tohidlou]

نيمسال اول سال تحصيلي 97-98

### 5. Numerical and experimental investigation of the effect of perlite layer thickness on the mechanical properties of pearlitic steel

محمد محبي, [Esmail Tohidlou]

نيمسال اول سال تحصيلي 97-98

### 6. On the mechanical behavior and microstructure of graphene-reinforced Al-Mg<sub>2</sub>Si

محمد نجفي راد, [Esmail Tohidlou, Hamed Khosravi]

نيمسال اول سال تحصيلي 97-98

### 7. Modification of microstructure and mechanical properties of insitu Al-15%Mg<sub>2</sub>Si composites through the addition of erbium

زهرا روستا, [Esmail Tohidlou, Hamed Khosravi]

نيمسال اول سال تحصيلي 96-97

### 8. Effect of adding irbium on the microstructure and mechanical properties of Al-7.5Si-0.5Mg alloy

رضا نيازي, [Esmail Tohidlou, Hamed Khosravi]

نيمسال اول سال تحصيلي 96-97

### 9. Microstructure modification of Al-Si alloy via severe plastic deformation

ميلاد علي خاني محمداباد, [Esmail Tohidlou, M Kh]

نيمسال اول سال تحصيلي 96-97

### 10. Mechanical behavior of CaCO<sub>3</sub>/carbon fiber/epoxy multiscale composites

ثريا شه بخش, [Esmail Tohidlou, Hamed Khosravi]

نيمسال اول سال تحصيلي 96-97

### 11. On the Mechanical and tribological properties of silane surface modified graphene nanoplatelets- epoxy nanocomposites

حسام اميريگي عرب, [Esmail Tohidlou, Hamed Khosravi]

نیمسال اول سال تحصیلی 95-96

## 12. the effect of annealing and thickness reduction on the anisotropy behavior

ساره سلطانی نژاد, [Ghodratollah Roudini, Esmail Tohidlou]

نیمسال اول سال تحصیلی 95-96

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## Journals Papers

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### 2022

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1. Flexural and wear properties of E-glass chopped strand mat/epoxy composite laminates containing silanized nano-CaCO<sub>3</sub>

Reyhaneh Khorasani, Esmail Tohidlou, Hamed Khosravi

JOURNAL OF THE TEXTILE INSTITUTE Volume: (113) 541 - 548

2. Enhanced flexural and tribological properties of basalt fiber-epoxy composite using nano-zirconia/graphene oxide hybrid system

Davood Toorchi, Esmail Tohidlou, Hamed Khosravi

Journal of Industrial Textiles Volume: (51) 3238 - 3252

### 2021

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3. Preparation of silica-decorated graphene oxide nanohybrid system as a highly efficient reinforcement for woven jute fabric reinforced epoxy composites

Mahnaz Amirabadizadeh, Hamed Khosravi, Esmail Tohidlou

JOURNAL OF APPLIED POLYMER SCIENCE Volume: (138) 49653-1 - 49653-11

4. Viscoelastic and dry-sliding wear properties of basalt fiber-reinforced composites based on a surface-modified graphene oxide/epoxy matrix

, Hamed Khosravi, Alireza Rezvani, Esmail Tohidlou, JA Poulis

Journal of Industrial Textiles Volume: (50) 939 - 953

5. On the low-velocity and high-velocity impact behaviors of aramid fiber/epoxy composites containing modified-graphene oxide

Ali Safamanesh, SEYED MOSTAPHA MUSAVI, Hamed Khosravi, Esmail Tohidlou

POLYMER COMPOSITES Volume: (42) 608 - 617

6. Influence of Erbium Addition on the Microstructural Evolution and Tensile Properties of Al/Mg<sub>2</sub>Si in-situ Metal Matrix Composites

ZAHRA ROOSTA, Esmail Tohidlou, Hamed Khosravi

Iranian Journal of Materials Science and Engineering Volume: (18) 71 - 79

7. Synergistic effect of nano-ZrO<sub>2</sub>/graphene oxide hybrid system on the high-velocity impact behavior and interlaminar shear strength of basalt fiber/epoxy composite

Davood Toorchi, Hamed Khosravi, Esmail Tohidlou

Journal of Industrial Textiles Volume: (51) 277 - 296

8. A comparative study on dry-sliding wear behavior of graphene oxide/epoxy nanocomposites functionalized by amino- and epoxy-silane coupling agents

, Alireza Rezvani, Hamed Khosravi, Esmail Tohidlou

POLYMER COMPOSITES Volume: (42) 5930 - 5935

## 2020

### 9. Influence of modified carbonate calcium nanoparticles on the mechanical properties of carbon fiber/epoxy composites

Soraya Shahbakhsh, Esmail Tohidlou, Hamed Khosravi

JOURNAL OF THE TEXTILE INSTITUTE Volume: (111) 550 - 554

### 10. Simultaneous removal of heavy metals from wastewater using modified sodium montmorillonite nanoclay

Mohammad reza Rezai kahkha, Massoud Kaykhaii, Batool Rezaei Kahkha, Hamed Khosravi, Esmail Tohidlou

ANALYTICAL SCIENCES Volume: (36) 1039 - 1043

### 11. Microstructure-Property Relationships in an Erbium-Modified Al-Si-Mg Alloy

Reza Niazi, Esmail Tohidlou, Hamed Khosravi

Iranian Journal of Materials Science and Engineering Volume: (17) 40 - 48

### 12. Effect of graphene nanoplatelets on the microstructure and mechanical behavior of erbium-modified Al-7.5Si-0.5Mg alloy

Seyed masood Alavi, Hamed Khosravi, Esmail Tohidlou

Journal of Particle Science and Technology Volume: (6) 37 - 45

## 2019

### 13. Reinforcing effects of aminosilane-functionalized graphene on the tribological and mechanical behaviors of epoxy nanocomposites

, Hamed Khosravi, Esmail Tohidlou

JOURNAL OF APPLIED POLYMER SCIENCE Volume: (136) 47410-1 - 47410-8

### 14. Mechanical Properties of Multiscale Graphene Oxide/Basalt Fiber/Epoxy Composites

, Hamed Khosravi, Alireza Rezvani, Esmail Tohidlou

FIBERS AND POLYMERS Volume: (20) 138 - 146

### 15. بهبود استحکام برشی بین لایه ای و خواص خمشی کامپوزیت اپوکسی/الیاف کربن از طریق افزودن نانوذرات کربنات کلسیم اصلاح سطحی شده

Soraya Shahbakhsh, Hamed Khosravi, Esmail Tohidlou

Volume: (6) 343 - 350

### 16. Effect of strain hardening on subgrain formation during ECAP process

Esmail Tohidlou, Albrecht Bertram

MECHANICS OF MATERIALS Volume: (137) 103077-1 - 103077-9

17. Effect of ZrSiO<sub>4</sub> particles on the wear properties of as-cast Al matrix particulate composites fabricated via various casting routes

, Esmail Tohidlou

Journal of Particle Science and Technology Volume: (5) 171 - 177

## 2018

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18. Comment on Microstructure and mechanical properties of Al-nano/micro SiC composites produced by stir casting technique by K. Amouri et al. Mater. Sci. Eng. A 674 (2016) 569578

Hamed Khosravi, Esmail Tohidlou

MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING Volume: (710) 334 - 335

19. Effect of surface-functionalization of Na-montmorillonite nanoclay using 3-aminopropyltrimethoxy silane on the mechanical properties of E-glass chopped strand mat/epoxy composites

, Hamed Khosravi, Esmail Tohidlou

Journal of Particle Science and Technology Volume: (4) 59 - 65

20. On the mechanical behavior of basalt fiber/epoxy composites filled with silanized graphene oxide nanoplatelets<sup>1</sup>

, Alireza Rezvani, Hamed Khosravi, Esmail Tohidlou

POLYMER COMPOSITES Volume: (39) 2472 - 2482

## 2017

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21. Effect of initial orientation on subgrain formation in nickel single crystals during equal channel angular pressing

Esmail Tohidlou, Albrecht Bertram

MECHANICS OF MATERIALS Volume: (114) 30 - 39

## 2010

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22. Effect of Zn addition on optical properties and microstructure of Y<sub>2</sub>O<sub>3</sub> Eu nanopowders prepared by combustion method

Esmail Tohidlou, , Mahdi Shafiee Afarani

PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS Volume: ( ) 2663 - 2666

## 2008

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23. تاثیر عملیات حرارتی بر خواص کششی و سایشی کامپوزیت Fe-6Vol. TiC

, Esmail Tohidlou,



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and baluchestan

University of Sistan and Baluchestan

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Volume: (35) 11 - 20

## 2020

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### 1. On the interlaminar shear strength of basalt fiber/epoxy composite filled with nano-ZrO<sub>2</sub>/graphene oxide nanohybrid

The Biennial International Conference on Experimental Solid Mechanics (X-Mech 2020)

Davood Toorchi, Hamed Khosravi, Esmail Tohidlou

### 2. Effect of CaCO<sub>3</sub> nanoparticles on the flexural properties of E-glass chopped strand mat/epoxy composites

### 3. On the wear behavior of nano-CaCO<sub>3</sub>/E-glass fiber/epoxy composite

The 7th International Conference on Composites: Characterization, Fabrication and Application (CCFA-7)

## 2018

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### 4. Mechanical properties of epoxy composites filled with silane modified graphene nanoplatelets

The Biennial International Conference on Experimental Solid Mechanics (X-Mech 2018)

## 2017

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### 6. On the dry sliding wear performance of silane surface modified graphene nanoplatelets-epoxy nanocomposites

2nd International Conference on Mechanic and Aerospace Engineering

, Esmail Tohidlou,

### 7. Tensile and flexural properties of E-glass chopped strand mat/epoxy composites enhanced by the addition of silane modified nanoclay

6th International Biennial Conference on Ultra fine Grained and Nano structured Materials (UFGNSM2017)

, Hamed Khosravi, Esmail Tohidlou

### 8. Formation of globular structure in A357 aluminum alloy via a near-liquidus casting (NLC) route

6th International Conference on Materials Engineering and Metallurgical

Esmail Tohidlou, Mohamad Najafi rad, Hamed Khosravi

### 9. Effect of silane-modified nanoclay on the wear behavior of a chopped strand mat-epoxy composite

6th International Conference on Materials and Metallurgical Engineering

Hamed Khosravi, , Esmail Tohidlou

## 2009

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### 10. Effect of Zn addition on optical properties and microstructure of Y<sub>2</sub>O<sub>3</sub> Eu nanopowders by solution combustion method

trends in nanotechnology

Esmail Tohidlou, , , Mahdi Shafiee Afarani

### 11. An Investigation On Effects Of TiO<sub>2</sub> Nano-Particles Incorporated In Electroless NiP On Coatings Properties

2nd International Conference on Ultrafine Grained and Nanostructured Materials

, , Esmail Tohidlou

### 12. Effect of Zn addition on luminescence of Y<sub>2</sub>O<sub>3</sub> Eu nanopowders using solution combustion method

2nd International Conference on Ultrafine Grained and Nanostructured Materials

Esmail Tohidlou, , , Mahdi Shafiee Afarani