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Faculty : Engineering

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Education

- ✓ B.Sc, Electrical Engineering - Electronics, Ferdowsi University of Mashhad - 1993
- ✓ MS, Electrical Engineering - Electronics, University of Sherbrooke - 2003
- ✓ PhD, Electrical Engineering - Electronics, University of Sherbrooke - 2008
- ✓ PhD, Electrical Engineering - Electronics, University of Sherbrooke - 2008

Courses

- | | |
|---|---|
| 1. Visi Systems Design | 2. nano electronic |
| 3. Electronics I | 4. Fundamentals of Electrical Engineering 2 |
| 5. Fundamentals of Electrical Engineering 1 | 6. Electrical Measurments |
| 7. Fundamentals of Digital Electronics | 8. Microelectromechanical Systems |
| 9. Theory and Technology of Semiconductor Devices | 10. Assessment of optical, magnetic and electronic properties |
| 11. Advanced Measurement Systems | 12. Computational Nanotechnology |
| 13. Selected Topics in Mechatronics | 14. Research methods |

Master Thesis

1. synthesis and Investigation of TiO₂ nanotubes properties for Hydrogen detector Fabrication

نیلوفر سروش, [Tahereh Fanaei Sheikholeslami, Amin Behzadmehr,]

نیمسال اول سال تحصیلی 97-98

2. experimental Investigation of Semiconducting Nanomaterials Application Effects in Methane gas detection

بهتاش اسفندیاری, [Tahereh Fanaei Sheikholeslami, S S]

نیمسال اول سال تحصیلی 95-96

3. Synthesis and Charactrization of Polyvinylidene Fluoride Nanofibers Using Electrospun Method

سهیل منصوری, [Tahereh Fanaei Sheikholeslami, Amin Behzadmehr,]

نیمسال دوم سال تحصیلی 95-94

4. CNT application as thermal interlayer in microelectronic and microelectromechanical systems

محمد ممدوحی, [Ghodratollah Roudini, Tahereh Fanaei Sheikholeslami]

نیمسال اول سال تحصیلی 93-94

5. CdS/CDTE

شمیره زنداستا, [Tahereh Fanaei Sheikholeslami]

نیمسال دوم سال تحصیلی 91-92

6. performance analysis of radio link in nanonetwork antennas

محسن کرمی راد, [Mehri Mehrjoo, Javad Ahmadi Shokouh, Tahereh Fanaei Sheikholeslami]

نیمسال دوم سال تحصیلی 90-91

Journals Papers

2019

1. Investigation on the electrospun PVDF/NP-ZnO nanofibers for application in environmental energy harvesting

, Tahereh Fanaei Sheikholeslami, Amin Behzadmehr

Journal of Materials Research and Technology-JMR and T Volume: (8) 1608 - 1615

2018

2. Effect of Source Solution Components on Quality of Electrospun PVDF Nanofibers for Nanogenerator Application

, Tahereh Fanaei Sheikholeslami, Amin Behzadmehr, Amir hasan Mahdizadeh moghaddam

Journal of Nano- and Electronic Physics Volume: (10) 10001-1 - 10001-7

3. Vibrational and thermoelastic behavior of punched-beam micro resonators containing odd-number of slots

, mahdi moghimi zand, Tahereh Fanaei Sheikholeslami

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE Volume: (232) 2821 - 2829

4. Numerical investigation of heat and mass transfer flow under the influence of silicon carbide by means of plasma-enhanced chemical vapor deposition vertical reactor

Kamel Milani Shirvan, Rahmat Ellahi, Tahereh Fanaei Sheikholeslami, Amin Behzadmehr

NEURAL COMPUTING and APPLICATIONS Volume: (30) 3721 - 3731

2016

5. Band gap study of polyaniline and polyaniline/MWNT nanocomposites with in situ polymerization method

Mohammad Almasi, Tahereh Fanaei Sheikholeslami,

COMPOSITES PART B-ENGINEERING Volume: (96) 63 - 68

6. Effect of Silicon Nanowire on Crystalline Silicon Solar Cell Characteristics

, Tahereh Fanaei Sheikholeslami,

Journal of Ultrafine Grained and Nanostructured Materials Volume: (49) 43 - 47

7. Investigation of External Charges Effects on Piezoelectric ZnO Nanogenerator

Samira Fathi, Tahereh Fanaei Sheikholeslami

Journal of Nano- and Electronic Physics Volume: (8) 2047-1 - 2047-6

8. Effects of slots on thermoelastic quality factor of a vertical beam MEMS resonator

, Tahereh Fanaei Sheikholeslami

MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING
SYSTEMS Volume: (22) 2723 - 2730

2015

9. تاثیر تغییرات فرکانس بر ارتعاشات دیافراگم میکروپمپ الکترومغناطیسی

, Tahereh Fanaei Sheikholeslami,

Volume: (4) 58 - 63

10. Carbon Nanotube Receiver Antennas in MHz Band

, Mehri Mehrjoo, Javad Ahmadi Shokouh, Tahereh Fanaei Sheikholeslami, Saied Mohammad Ranjbaran

Current Nanoscience Volume: (11) 669 - 675

11. Experimental and numerical investigation of a shaped microchannel evaporator for a micro Rankine cycle application

, s. arsalan, Amin Behzadmehr, Tahereh Fanaei Sheikholeslami, , L.G. Frechette

INTERNATIONAL JOURNAL OF THERMAL SCIENCES Volume: (96) 191 - 200

12. Functionalized Carbon Nanotubes Produced by APCVD using Camphor

Amir hasan Mahdizadeh moghaddam, Tahereh Fanaei Sheikholeslami

Transport Phenomena in Nano and Micro Scales Volume: (3) 62 - 67

13. Water evaporation phenomena on micro and nanostructured surfaces

, Amin Behzadmehr, Tahereh Fanaei Sheikholeslami, S.M.H. Sarvari, L.G. Frechette

INTERNATIONAL JOURNAL OF THERMAL SCIENCES Volume: (90) 112 - 121

2014

14. طراحی و شبیه سازی کنترل کننده میکروپمپ تحویل دارو با استفاده از همبسته کننده موج صوتی سطحی

Tahereh Fanaei Sheikholeslami, Mehri Mehrjoo

Volume: (7) 1347 - 1353

15. Numerical Study of Operating Pressure Effect on Carbon Nanotube Growth Rate and Length Uniformity

Babak Zahed, Tahereh Fanaei Sheikholeslami, Amin Behzadmehr, Hossein Atashi

Transport Phenomena in Nano and Micro Scales Volume: (2) 78 - 85

16. A novel silicon bi-textured micropillar array to provide fully evaporated steam for a micro-Rankine cycle application

, Amin Behzadmehr, Tahereh Fanaei Sheikholeslami, S M H Sarvari, L G Fr chette

JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: (47) 475301-1 - 475301-7

2013

17. Numerical analysis of inlet gas-mixture flow rate effects on carbon nanotube growth rate

Babak Zahed, Tahereh Fanaei Sheikholeslami, Hossein Atashi

Transport phenomena in nano and micro scales Volume: (1) 37 - 44

18. Analysis of SiC deposition rate in a tubular hot wall reactor with polymeric source using DOE method

, Tahereh Fanaei Sheikholeslami, Amin Behzadmehr

JOURNAL OF ELECTRONIC MATERIALS Volume: (42) 931 - 938

19. Analysis of SiC Deposition Rate in a Tubular Hot-Wall Reactor with Polymeric Source Using the DoE Method

, Tahereh Fanaei Sheikholeslami, Amin Behzadmehr

JOURNAL OF ELECTRONIC MATERIALS Volume: () 931 - 938

2008

20. Electrical Characterization of Amorphous Silicon Carbide Thin Films Deposited Via Polymeric Source Chemical Vapor Deposition

Tahereh Fanaei Sheikholeslami, , , , ,

THIN SOLID FILMS Volume: () 3755 - 3760

2004

21. Passivation of GaAs using $P_2S_5(NH_4)_2S+Se$ and $(NH_4)_2S+Se$

Tahereh Fanaei Sheikholeslami, C. Aktik

JOURNAL OF VACUUM SCIENCE and TECHNOLOGY A Volume: (22) 874 - 878

Conferences Papers

2018

1. Synthesis of Titanium Oxide Nanotube and Investigation of Its Performance in Ionization Gas Sensor

First National Conference on Micro/Nanoscale Technologies

, Tahereh Fanaei Sheikholeslami

2017

2. Effect of The Source Component Fraction on Quality of The Synthesized PVDF Nanofibers using Electrospinning Method

4th International Conference on Nanotechnology Nanomaterials

, Tahereh Fanaei Sheikholeslami, Amin Behzadmehr, ah Mahdizadeh Moghaddam

2015

3. Investigation of Electrostatic Effect to Improve the Performance of a Piezoelectric Nanogenerator

3rd International Conference on Nanotechnology

Samira Fathi, Tahereh Fanaei Sheikholeslami

2014

4. Study of Operating Pressure to Control the CNTs Growth Behavior

5th International Congress on Nanoscience

2010

5. CFD Analysis of Deposition Rate of SiC in a Hot-Wall Tubular CVD Reactor

International Conference on Nanotechnology Fundamentals and Applications

, Tahereh Fanaei Sheikholeslami, Amin Behzadmehr

Research Project

2016

1. Design and Fabrication of Methane Gas Nanosensor

Tahereh Fanaei Sheikholeslami - 2016

2014

2013

2. Technology Demonstration, Design and Fabrication of Ocean Wave Energy to Electricity Converter

Tahereh Fanaei Sheikholeslami - 2013