PERSONAL INFORMATION:

Name: **MEHDI DEHGHANI**
Sex: Male
Address:No.42 ,Pasdaran St., Tehran, IRAN

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EDUCATIONAL RECORDS:

2009-current **BS Student in Materials Science and Engineering.**
Sharif University of Technology, Tehran, Iran
Advisor: Prof. AbdolrezaSimchi
Average: 13.52(till now) ,**Last 2 years average** : 15

2004-2008 **High School Diploma in Mathematics Science and Physics**
Din vaDanesh High School, Tehran, Iran.
Cumulative GPA: 3.70 .

AREAS OF INTEREST:

Biomaterials:Drug Delivery,Tracking,Bio imaging, MRI.
Anti-bacterial coating , Drug – Eluting Coating ,
Material Toxicity
Electronics and Photonics:Solar Cells,Sensors, Lasers.
Nanomaterial's:Nano composites , Nanomaterial's Synthesis ,
Environmental Nanotechnology
Ceramics
Casting
Material characterization : SEM,TEM,AES

RESEARCH EXPERIENCES:

1. Surface bonding effect of PEG grafted SPIONs on colloidal behavior(Volunteerresearcher)
2. Oxygen scavenger for food packaging (Course research)
3. Drug delivery. (Laboratory experience)
4. Anti-Bacterialcoating. (Laboratory experience)

5. Nano composite film. (Laboratory experience)
6. Drug eluting coating. (Laboratory experience)
7. Electrophoretic.(Laboratory experience)
8. Auger electron spectroscopy – AES – (Course research)
9. Electrophoretic : (Laboratory experience)
Method for coating of TITANIUM

10. Primary knowledge of :
1. AAS/ICP 2. EDS/WDS 3. DTA/DSC/TGA/TMA

4. SPM/STM/AFM 5.LEED 6. OpticalFluorescence Microscopy

11. TEM:(Working experience/ knowledge of function and components)

12. XRF:(Working experience/ knowledge of function and components)

13. X-ray diffraction:(Working experience/ knowledge of function and components)

14. Sample preparation of TEM.

15. Corrosion laboratory (Cooperation for one term)

16. Electron microscopy (Limited knowledge and experience)

17. Knowledge about some tests:(Through thesis project)

1. Degradation 2. Drug loading 3. Drug release 4. UV

5. SEM 6. STA 7. Anti-Bacterial test 8. FTIR

9. Wetting 10. Polarization 11. AFM 12.Zeta potential

PUBLICATIONS:

Working on a concept of drug delivery of biomaterials (Thesis):

(Chitosan – laponite – vancomycin) coating of TITANIUM(ModifiedDrug Delivery)

- we are in the final stage of our research and we started writing of our article
- **Advisor**: Prof. Abdolreza Simchi

SKILLS:

Computer Skills : Beginner level in: PASCAL, MATLAB, AUTOCAD

Advanced levelin:MS Word, Excel, PowerPoint, and Access

Medium levelin:Expert(Software of Analysis of X-ray)

AWARDS AND HONORS:

. Accepted in the first step of annual student mathematical Olympiad competition.
2007

. Ranked in the top 1% in nationwide B.Sc. Entrance Exam out of 333503Participants.

2009

. Dean's award for programs on executive member of Department's Student's Science and Research Committee. 2011

. Organizer of 3rd annual ceramics competition in Sharif University of Technology:2011

1. Choose as best of student competitions in 2011 in country.
2. Award from president of the university as an organizer of 3rd annual ceramics competition.
3. Dean's award as an organizer of 3rd annual ceramics competition.
4. Award from deputy minister of science for 3rd annual ceramics competition.

. Certificate from nanotechnology and analysis of nanomaterial's workshop in the 10th material science and technology national conference.2011

. Organizer of the last three annual meeting of material science and engineering department of SharifUniversity of Technology. 2010-2011-2012

WORK EXPERIENCE AND ACTIVITY :

Teaching :

University :

…….. Peer tutor of Physical Metallurgy and Mechanical Metallurgy for Universitystudents.

…….. Teacher assistant of Mathematic for university students.

High school :

…….. Mathematical teacherin 3 different schools. 2008 - present

…….. Educational adviser in schools.2010 - present

…….. Establisher and originator of "GRAPH"academy(EducationalGroup). 2011 - present

…….. Tutor of MATHEMATICS for high school student. 2008 - present

Working in factory :

..... Working at PARS METAL for six months (casting factory) 2012

Editor :

…….Marzdaneh: A scientific magazine published department of Materials Sci. And Eng.Sharif University of Technology, Tehran, Iran.2011 – Present

…….Writing articles for the department's quarterly magazine," Marzdaneh", 2010-present.

Memberships:

……..Executive member of Department's Scientific and Supplementary Association2010-2012

…….. Administrator ofScientific and Supplementary Association.2012

Sports:

……. Member of soccer team of Sharif University of Technology . 2011 - 2012

..... Member of soccer team of

Materials Sci. and Eng. Department. 2009 -present

Other Sports

Basketball .Swimming. Ping Pong. MountainClimbing . Volleyball

Arts: painting

LANGUAGE SKILLS:

ENGLISH : Fluent

. TOEFL: 88

Reading : 22 Listening : 23 Speaking : 22 Writing : 21

(In my ticket confirmation starting time was : 10AM but when i went there the test was started at 9 AM and this mistake by ETS affected my exam and ETS apologize from me because of this mistake also)

. GRE :

Verbal reasoning : 147 Quantitative reasoning : 170 Writing :3.5

PERSIAN : Native