Chemistry and Chemical Engineering
Research Center of Iran

Curriculum Vitae

Dr. Hani Sayahi

Associate professor of Physical Chemistry

Department of physical chemistry, Chemical Process Development Institute, Chemistry and Chemical Engineering Research Center of Iran (CCERCI), Tehran, Iran, P. O. Box. 14335-186

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Personal Information:

Date of Birth: 14th March 1979

Marital Status: Married

Children: one son

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Education:

Ph.D. June 2012: (Physical Chemistry, Solar energy), **Thesis:** **"**Characterization of Electrochemical Synthesized Nano-Structure TiO_2 Electrodes in Dye-Sensitized Solar Cell" **Department of Physical Chemistry, University of Kashan, Kashan, Iran**

M.Sc. March 2006: (Physical Chemistry, photoactivity and electrochemistry), **Thesis: "**Electrodeposition of Nano- Scale Titanium Oxide on Stainless Steel, Graphite and Platinum Electrodes" **Department of Physical Chemistry, University of Kashan, Kashan, Iran**

B.Sc. July 2002: (Applied Chemistry), **Faculty of Science, Azad University (central branch), Tehran, Iran**

Languages:

Farsi: official language

Arabic: mother language

English: very good

Research Interestes:

Nanomaterials and nanoscience (synthesis, electrochemistry, and applications)

Energy conversion and storage (solar cells, supercapacitor, battery)

Physics and chemistry of surfaces

Photocatalysis

Administrative Appointments:

Member of work group of synthesizing chemical material in Chemistry and Chemical Engineering Research Center of Iran (CCERCI) March 2016- Present

Head of the Central Laboratory in Chemistry and Chemical Engineering Research Center of Iran (CCERCI) September 2012- May 2014

Responsible for exhibition stands of CCERCI in 7th Iran Nano international Nanotechnology Festival (October 2014)

Responsible for exhibition stands of CCERCI in 6th Iran Nano international Nanotechnology Festival (October 2013)

Responsible for exhibition stands of CCERCI in 5th Iran Nano international Nanotechnology Festival (October 2012)

Academic Appointments:

October 2020- present

Assistant Professor, Dept. of Physical Chemistry, Chemical Process Development Institute, Chemistry and Chemical Engineering Research Center of Iran (CCERCI), Tehran, Iran.

February 2015- October 2020

Assistant Professor, Dept. of Physical Chemistry, Chemical Process Development Institute, Chemistry and Chemical Engineering Research Center of Iran (CCERCI), Tehran, Iran.

July 2006 – February 2015

Research Assistant, Dept. of Physical Chemistry, Chemical Process Development Institute, Chemistry and Chemical Engineering Research Center of Iran (CCERCI), Tehran, Iran.

September 2010 – August 2012

Invited Lecturer, Dept. of Chemistry, Faculty of Engineering, South Tehran Branch, Islamic Azad University.

Academic Membership:

- Member of Iran Nanotechnology Initiative Council, 2005- present, Tehran, Iran.

- Member of Scanning Probe Microscopy (SPM) Work Group, Iran Nanotechnology Laboratory Network, Iran Nanotechnology Initiative Council, 2011- present, Tehran, Iran.

- Member of Scanning Electron Microscopy (SEM) Work Group, Iran Nanotechnology Laboratory Network, Iran Nanotechnology Initiative Council, 2012- present, Tehran, Iran.

Honors and Awards:

- **2006,** the top student of Physical Chemistry in M.Sc. program of the University of Kashan, Kashan, Iran.
- **2012,** the top student of Physical Chemistry in Ph.D. program of the University of Kashan, Kashan, Iran.
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- **2012,** Awarded as best research associate in Chemistry and Chemical Engineering Research Center of Iran (CCERCI), Tehran, Iran.

Scientific Publication:

1- Aghapoor, Kioumars; Mohsenzadeh, Farshid; Darabi, Hossein Reza Sayahi, Hani; "Choline Chloride-based Eutectic Mixtures for Greener Synthesis of Quinoxaline-2,3-diol Derivatives and Terephthalaldehyde bis-(2-Aminophenylimine)" **Organic Preparations and Procedures International** (2021) 1-10.

2- Abdollahi, Hadi; Maleki, Soudabeh; **Sayahi, Hani**; Gharabaghi, Mahdi; Karimi Darvanjooghi, Mohammad Hossein; Magdouli, Sara;

Kaur Brar, Satinder; “Superadsorbent Fe3O4-coated carbon black nanocomposite for separation of light rare earth elements from aqueous solution: GMDH-based Neural Network and sensitivity analysis” **Journal of Hazardous Materials** 416 (2021) 125655.

3- Aghapoor, Kioumars; Mohsenzadeh, Farshid; Darabi, Hossein Reza **Sayahi, Hani;** “Crystalline salicylic acid as an efficient catalyst for ultrafast Paal–Knorr pyrrole synthesis under microwave induction” **J. Chem. Sci.** 133 (2021) 1-8.

4- **Hani, Sayahi**; Kioumars,Aghapoor; Farshid, Mohsenzadeh; Mina, Mohebi Morad; Hossein Reza, Darabi; “TiO2 nanorods integrated with titania nanoparticles: Large specific surface area 1D nanostructures for improved efficiency of dye-sensitized solar cells (DSSCs)” **Journal of Solar energy** 215 (2021) 311-320.

5- Nazarian, R; Darabi, H. R; Aghapoor, K; Firouzi, R; **Sayahi, H**; “A highly sensitive "ON-OFF" optical sensor for the selective detection of cyanide ions in 100% aqueous solutions based on hydrogen bonding and water assisted aggregation induced emission” **Chem Commun (Camb)** 56 (2020) 8992-8995.

6- Aghapoor, Kioumars; Mohsenzadeh, Farshid; Darabi, Hossein Reza **Sayahi, Hani**; Jalali, Mohammad Reza; “ZnCl /Urea Eutectic Solvent as Stable Carbonylation Source for Benign Synthesis of 2–

Benzimidazolones and 2–Imidazolones: An Effective Strategy for Preventing NH3 Gas Evolution" **Chemistry Select** 4(2019) 11093-11097.

7- Assadollahnejad, Nazafarin; Kargar, Maryam; Darabi, Hossein Reza; Abouali, Negar; Jamshidi, Shadi; Sharifi, Ali; Aghapoor, Kioumars; **Sayahi, Hani** ; "A new ratiometric, colorimetric and ''turn-on'' fluorescent chemosensor for the detection of cyanide ions based on a phenol–bisthiazolopyridine hybrid" **New Journal of Chemistry** 43 (2019) 13001-13009.

8- **Sayahi, Hani**; Mohsenzadeh, Farshid; Hossein Reza Darabi; Aghapoor, Kioumars; "Facile and economical fabrication of magnetite/graphite nanocomposites for supercapacitor electrodes with significantly extended potential window" **Journal of Alloys and Compounds** 778 (2019) 633-642.

9- Aghapoor, Kioumars; Mohsenzadeh, Farshid; **Sayahi, Hani**; Rastgar, Saeed; Hossein Reza Darabi; "Green synthesis of 1,3-dihydrobenzimidazol-2-ones from aromatic diamines by microwave in a tetrabutylammonium bromide–ethanol molten salt paste" **Environmental Chemistry Letters** 16(2018) 1109-1116.

10- Hamzehloo, Majid; Karimi, Jahangir; Aghapoor, Kioumars; **Sayahi, Hani**; Darabi, Hossein Reza; "The synergistic cooperation between

MCM-41 and azithromycin: a pH responsive system for drug adsorption and release" **Journal of Porous Materials** 25(2017) 1275-1285.

11- **Hani Sayahi**; "Surface Energy" Energy Encyclopedia, **Iranian Encyclopedia Foundation** (2017).

12- **Hani Sayahi**; "Energy and Creation" Energy Encyclopedia, **Iranian Encyclopedia Foundation** (2017).

13- **Hani Sayahi**; "Gray Energy" Energy Encyclopedia, **Iranian Encyclopedia Foundation** (2017).

14- **Sayahi, Hani**; Mohsenzadeh, Farshid; Hamadanian, Masood; "Cost-effective fabrication of perdurable electrodeposited TiO2 nano-layers on stainless steel electrodes applicable to photocatalytic degradation of methylene blue" **Research on Chemical Intermediates** 45 (2017) 4275-4286.

15- Darabi, Hossein Reza; Rastgar, Saeed; Khatamifar, Ehsan; Aghapoor, Kioumars; **Sayahi, Hani**; Firouzi, Rohoullah; "Practical and theoretical aspects of Wacker oxidation of tolanophanes: Synthesis and characterization of novel diketonic cyclophanes" **Applied Organometallic Chemistry** (2017) e3812.

16- **Hani Sayahi**; "Specific Energy" Energy Encyclopedia, **Iranian Encyclopedia Foundation** (2016).

17- Hossein Reza Darabi; Maryam Kargar; Roghayeh Hajipoor; Negar Abouali; Kioumars Aghapoor ; Khosrow Jadidi; Behrouz Notash; **Hani Sayahi**; "Synthesis and structure of 2,6-bis(2-methoxyphenyl) dithiazolo[4,5-b:5`,4`-e]pyridine) as a novel fluorescent sensor: different recognition of transition metal ions and proton" **Tetrahedron Letters** 57 (2016) 256–259.

18- Kioumars Aghapoor; Farshid Mohsenzadeh; Hossein Reza Darabi; **Hani Sayahi**; Yadollah Balavar "L-Tryptophan-catalyzed Paal–Knorr pyrrole cyclocondensation: an efficient, clean and recyclable organocatalyst" **Research on Chemical Intermediate** 42 (2016) 407-415.

19- Masood Hamadanian; **Hani Sayahi**; Alireza Zolfaghari; Vahid Jabbari; "The Modified Electrode Position of Uniform and Defect-free TiO2 Nanolayer onto Stainless Steel Substrate with Enhanced Photocatalytic Performance" **Nano Research & Applications** 1 (2015) 1-5.

20- Kioumars Aghapoor; Mostafa M. Amini; Khosrow Jadidi; Farshid Mohsenzadeh; Hossein Reza Darabi; **Hani Sayahi**; Mohammad Reza Jalali "Synthesis and stability of L-tryptophan adsorbed on Ti/MCM-41 as a catalyst for the regioselective aminolysis of styrene oxide" **Solid State Sciences** 49 (2015) 10-17.

21- **Hani Sayahi**; Masood Hamadanian; Farshid Mohsenzadeh; Kioumars Aghapoora; Mohammad Ali Kiani "Enhanced Efficiency of Dye–sensitized Solar Cells Based on Bulk Synthesized TiO_2 Nanorods Annealed at Different Temperatures" **J. Chin. Chem. Soc** 62 (2015) 811-816.

22- Kiani, M. A; Abbasnia Tehrani, M; **Sayahi, H** "Reusable and robust high sensitive non-enzymatic glucose sensor based on $Ni(OH)_2$ nanoparticles" **Analytica Chimica Acta** 839 (2014) 26-33.

23- Hossein Reza Darabi, Atefeh Roozkhosh, Mohammad Jafar Tehrani, Kioumars Aghapoor, **Hani Sayahi**, Yadollah Balavar, Farshid Mohsenzadeh, "Characterization of ester- or thioamide-functionalized single–wall carbon nanotube–azithromycin conjugates" **Applied Surface Science** 288 (2014) 122-129.

24- **Hani Sayahi**, M. A. Kiani, S. H. Kazemi,"Ultrasonic-assisted synthesis of magnetite/carbon nanocomposite for electrochemical supercapacitor" **Journal of Solid State Electrochemistry**, 18 **(**2014) 535-543.

25- M. Rastgar, A. R. Zolfaghar, H. R. Mortaheb, **H. Sayahi**, H. R. Naderi, " Photocatalytic/Adsorptive removal of methylene blue dye by electrophoretic nanostructured TiO2/Montmorillonite composite films" **Journal Advance Oxide Technology**, 16 (2013)292-297.

26- Masood Hamadanian, **Hani Sayahi**, Alireza Zolfaghari, "Modified multistep electrophoretic deposition of TiO_2 nanoparticles to prepare high quality thin films for dye-sensitized solar cell", **Journal of Materials Science**, 47 (2012) 5845-5851.

27- M. Hamadanian, **H. Sayahi**, A. Zolfaghari, "Investigating the effects of post-heat treatment temperatures on the structure of prepared nanorod by hydrothermal method", **Journal of Nanostructures** (JNS), 1 (2012) 237-242.

28- M. Hamadanian, **H. Sayahi**, A. Zolfaghari, "Effect of large TiO_2 Nanoparticles as Light Scatter in Matrix of Small Nanoparticles to Improve the Efficiency in Dye- Sensitized Solar Cell", **Journal of Nanostructures** (JNS), 1 (2012) 139-143.

29- A. Zolfaghari, K. Nasiri Avanaki, H. Z. Jooya, **H Sayahi,** "Optimization of the operational controlling parameters in direct photocatalytic oxidation of water dissolved pollutants on nanostructured TiO_2 thin film electrodes". **J. Semicond. Sci. Technol**. 22 (2007) 653-658.

Research Projects:

1- "Determining the appropriate precursors, manufacturing and characterization of heterogeneous catalysts, for use in the production of acrylonitrile from propylene on laboratory scale" **In press.**

2- “Investigating, control and prevent the germination of sugar beet seed using seed coating method”, **In press.**

3- “Feasibility study of industrial scale cobalt acetate+4H_2O production along with preliminary laboratory-practical studies”, **2021-2021.**

4- “Feasibility study and synthesizing Iron oxide nanostructure (Fe3O4) coated with polysaccharide on laboratory scale”, **2020-2021**.

5- “Investigating the effects of the carbon type electrodes on the prepared graphene structure using electrochemical method to apply in energy storage”. (No. 97008082), Iranian National Science Foundation (INSF), **2019-2021**.

6- “Feasibility study and synthesizing Iron oxide nanostructure (Fe3O4) coated with polysaccharide on laboratory scale”, **2020-2021**.

7- “Synthesize and characterization of magnetic iron oxide nanoparticles / graphite composite by ultrasonic waves to use in supercapacitors compared with magnetite/ carbon black composite”. (No. 94802941), Iranian National Science Foundation (INSF), **2015-2017**.

8- “Investigation of Dye-sensitized solar cells based on modified electrophoretic method”. Chemistry and Chemical Engineering Research Center of Iran (CCERCI), **2014-2015**.

9- “Synthesizing Titanium dioxide nanorods by hydrothermal method and using them in Dye sensitized solar cells (DSSCs)”. (No. 92006755), Iranian National Science Foundation (INSF), **2013-2014**.

10- “Investigation the synthesized composite of magnetic iron oxide nanoparticles with carbon by ultrasonic waves to use in electrochemical capacitors”. (No. 91002349), Iranian National Science Foundation (INSF), **2012-2013**.

11- “Preparation of supercapacitor based on the doping carbon mesoporous”. (No. 90004915), Iranian National Science Foundation (INSF), **2011-2012**.

12- “Preparation of supercapacitor based on the doping carbon mesoporous”. (No. 90004915), Iranian National Science Foundation (INSF), **2011-2012**.

13- “Preparation of supercapacitor based on the doping carbon mesoporous”. (No. 90004915), Iranian National Science Foundation (INSF), **2011-2012**.

14- “Increase the efficiency of Dyes Sensitized Solar Cells: Theoretical and Experimental Investigation”. (No. 90003199), Iranian National Science Foundation (INSF), **2011-2012**.

15- "Attachment of Azithromycin on Carbon Nanotube". (No. 87041861), Iranian National Science Foundation (INSF), **2008-2010**.

16- "Synthesizing Conjugated Superpara Magnetite Nanoparticles for Drug Delivery and MRI Applications". CCERCI and Tehran University of Medical Science (Vice-Chancellor for research), **2008-2010**.

Scientific Conferences and Symposiums:

I participated in many local and international seminars; some of international seminars are as follow:

- H. Sayahi, K. Aghapoor, Z. Mehrvar, F. Mohsenzadeh, H. R. Darabi, "Characterizing the synthesized graphite/magnetite nano-composites using ultrasonic waves" The 19th Iranian Inorganic Chemistry Conference (September 2017).

- M. Fallahnejad, F. Adhami, H. Sayahi, H. R. Darabi, "Investigating the Fenton reaction of Fe3O4@MCM-41 at degradation of aqueous pollutants" The 19th Iranian Inorganic Chemistry Conference (September 2017).

- H. Sayahi, Z. Mehrvar, M. A. Kiani, "Large-scale synthesis of graphene and graphene oxide using electrochemical method" 12th Biennial Electrochemistry Seminar, University of Isfahan (May 2017).

- Armin Najafkhani, Hadi Einaki, H. Sayahi, M.A.Kiani, “Polyvinyl alcohol Electrospun Nanofibers Used as a Substrate in Different aspects in Electrochemical Devices” The 23rd Iranian Seminar of Analytical Chemistry (August 2016).

- Armin Najafkhani, H. Sayahi, Farzaneh Bahmani, S.H. Kazemi, M.A.Kiani, “Synthesis and Characterization of Hierarchical 3D Nanosheets of NiMoO4@graphene for Methanol Electro-Oxidation” The 23rd Iranian Seminar of Analytical Chemistry (August 2016).

- Fatemeh Safinia, H. Sayahi, M.A.Kiani, “Electrochemical studies of some anti-pyretic and anti-histamine drugs” The 23rd Iranian Seminar of Analytical Chemistry (August 2016).

- M. Abbasnia Tehrani, M.A. Kiani, H. Sayahi, “Recovery of high pure alumina from aluminum hazardous waste using facile and inexpensive method” Proceedings of Iran International Aluminum Conference (IIAC2016) (May 2016).

- Sayahi. H, Aghapoor, K, Kiani. M. A, Mohsenzadeh, F, “Investigation photocatalytic effects of electrochemical stabilized titanium oxide nano layer on conductive substrates” The 1st Iranian Congress of Chemical Biotechnology Chemistry (March 2016).

- Neda Dianat, M. A. Kiani, H. Sayahi, “Electrodeposition of polydiphenylamine nano-sheets on activated carbon fibers and its application in supercapacitors” The 22rd Iranian Seminar of Analytical Chemistry (January 2016).

- Kh. Ghardashi, A. Tarlani, H. Sayahi, M. Eslami moghadam, “Non-enzymatic glucose nano-biosensor based on copper oxide” The 22rd Iranian Seminar of Analytical Chemistry (January 2016).

- M. A. Kiani, N. Dianat, H. Sayahi, “Supercapcitive behavior of nanostructured polydiphenylamin” Asian Nano Forum Conference, Kish Island, Iran (March 2015).

- H. Sayahi, M. A. Kiani, A. Zolfaghari, Z. Jamshidi, “Systematic Study of Fe3O4/ CB Nanocomposite as Electrode Material for Supercapacitors” 63rd Annual Meeting of the International Society of Electrochemistry Prague, Czech Republic, (August 2012).

- M. Hamadanian, H. Sayahi, A. Zolfaghari, Z. Jamshidi, “Multistep electrophoretic deposition of TiO2 nanoparticles to prepare high quality thin films for Dye-sensitized solar cell”, Proceeding of the 4th International Conference on Nanostructures (ICNS4), Kish Island, Iran (March 2012).

- A. Zolfaghari, H. Naderi, M. Rastegar, H. Sayahi, “Preparation of MnO2/Carbon Black Nanocomposites Using Sonochemistry Method for Electrochemical Supercapacitors”, Proceedings of the International Conference on Nanotechnology: Fundamentals and Applications Ottawa, Ontario, Canada, (August 2010).

- A. Zolfaghari, H. Naderi, M. Rastegar, H. Sayahi, “Synthesis of MnO2/Graphite Nanocomposites using Sonochemistry Method for Electrochemical Supercapacitors. Proceedings of the International Conference on Nanotechnology”, Fundamentals and Applications Ottawa, Ontario, Canada, (August 2010).

- A Zolfaghari, K. Nasiri Avanaki, H. Z. Jooya, H. Sayahi. “Theoretical Models for the Electron Flux and the Quantum Efficiency Characteristics of Nanostructured TiO2 Thin Films in Photoelectrochemical Cells”, Kharkiv, Ukraine (June 2007)

- A. Zolfaghari, F. Ataherian, H. Sayahi, H. Jooya, “Nanostructured Iron Oxide for aqueous electrochemical supercapacitor”, Poster presented in 58th Annual Meeting of International Society of Electrochemistry, Banff, Canada (September 2007).

- A. Zolfaghari, Z. Hariri, F. Roshani, H. sayahi, H. jooya, “Thickness Controlled Electrodeposition of Titanium Oxide Thin Film Electrode”.

Poster presented in 58th Annual Meeting of International Society of Electrochemistry, Banff, Canada (September 2007).

- A. Zolfaghari, H. Z. Jooya, G. Vatankhah, H. Sayahi, K. Nasiri Avanaki, "Study of Titanium Oxide Nanolayer as Photoelectrochemical Solar Material", Florence, Italy (August 2006).

- A. Zolfaghari, H. Sayahi, M. Hamedanian, "Electrodeposition of Titanium Oxide Nanolayer Photocatalyst on Foreign Substrates", Lecture presented in 4th ISE spring meeting, Singapore (April 2006).

Teaching Experiences:

1- General Chemistry (bachelor degree)
2- Physical Phemistry I and II (bachelor degree)
3- Advanced Physical Chemistry (M.Sc degree)
4- Kinetic (M.Sc degree)
5- Molecular Spectroscopy (M.Sc degree)
6- Electrochemistry and Surface Chemistry (Ph.D and M.Sc degrees)
7- Non-Equilibrium Thermodynamics (Ph.D degree)

Superdvisor Of Graduate Thesis:

1- M.Sc. of physical chemistry, Entitled "large-scale production of graphene and graphene oxide using electrochemical method", **CCERCI**.

2- M.Sc. of physical chemistry, Entitled “Synthesis of magnetic nano-particles (iron/carbon composite and Co-Mn core- sell ferrite spinels) and investigation of dsorption/desorption mechanism of Rare Earth Elements (Ce, La, Nd) from synthetic solution”, **Tehran University**.

3- M.Sc. of physical chemistry, Entitled “preparation of PbO_2-TiO_2 anode using electrochemical method to produce perchlorate reactions”, **CCERCI**.

4- M.Sc. of physical chemistry, Entitled “Investigation the effect of TiO_2 nano layer on stainless steel corrosion”, **CCERCI**.

5- Ph.D of physical chemistry, Entitled “Investigation the effect of graphite/Fe_3O_4 nanostructures if fenton reaction to remove industrial pollutents”, **Azad University**.

6- M.Sc of Mining Enginering, Synthesis of Fe_3O_4/Carbon black nanocomposite for determining rare earth elements…”, **Tehran University/ CCERCI.**

7- M.Sc. of physical chemistry, Entitled “Metal-organic framework and their composites as efficient electrodes for supercapacitor application”, **CCERCI**.

8- M.Sc. of physical/inorganic chemistry, Entitled “Synthesis of metal oxides and their application in supercapacitors”, **CCERCI**.

Advisor Of Graduate Thesis:

1- M.Sc. of analytical chemistry, Entitled "Influence of various carbon materials on TiO_2 nanoparticles-based dye sensitized solar cells efficiency", **CCERCI**.

2- M.Sc. of analytical chemistry, Entitled "synthesizing Poly (diphenylamine)/graphene composite for using in supercapacitors", **CCERCI**.

3- M.Sc. of inorganic chemistry, Entitled "Design of non-enzymatic glucose biosensor based on MWCNT nanocomposite", **CCERCI**.

4- M.Sc. of analytical chemistry, Entitled "Design of non-enzymatic glucose nanobio synsor based on titanium-copper oxide properties", **CCERCI**.

5- M.Sc. of analytical chemistry, Entitled "Investigation of methanol oxidation by nickel oxide based nanostructures", **CCERCI**.

Special Technical Skills:

- Application Packages: MS Office (ICDL), DOS, Oregin, Zview, chemistry software
- Computer Hardware: Adequate knowledge of Computer Hardware

Devices Skills:

I have many experiences to use different devices especially the surface analyzing equipments, such as:

- Uv-Visible spectrophotometer
- Potantio-Galvano state (autolab Co.)
- Surface Tension Equipments (OCA, DCAT, SVT), (Dataphysics Co.)
- SPM techniques (DME Co.)
- SEM (T-scan Co.)
- Particle Size Analyzer (Nanotech Fritsch)
- Digital densitometer (Anton Paar Co.)

Inventions:

- Iranian patent No. 58285, Entitle " Electrochemical deposition of titanium oxide on different substrates for degradation environment pollutants"

Workshops:

1- "**Workshops of Nanotechnology and Nanoscience (generally)**" University of Kashan , Iran (June 2003)

2- "**Workshop of SPM devices including AFM, STM, MFM, ECSTM, LFM methods**" which managed by Mahar Fan Abzar Co as DME Co representative (June 2009)

3- "**Workshop of Surface Tension devices including OCA, DCAT, SVT methods**" which managed by Mahar Fan Abzar Co as Dataphysics Co representative (July 2010)

4- "**1st Application of Novel Electrochemical Methods for Evaluation of Coatings**" by Institute for Color Science and Technology, Tehran Iran (January 2011)

5- "**1st International Workshop on Nanostructured Solar Cells and Solar System**" by university of Kashan, Iran, (April 2011)

6- "**Theoretical and Computational Chemistry**" workshop by Chemistry and Chemical Engineering Research Center of Iran (January 2012)

7- "**4th International Conference on Nanostructures**", Kish Island, Iran, (March 2012)

8- "**High Performance of Liquid Chromatography (HPLC)**" workshop by Chemistry and Chemical Engineering Research Center of Iran (February 2013)