



# Professor Esmail Saievar Iranizad

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## WORK EXPERIENCE

44 year

## ABOUT ME

Esmail Saievar-Iranizad is a professor of condensed matter physics at the Tarbiat Modares University, Tehran, I.R. of Iran. He obtained his academic degrees of both a BSc (Bachelor of Science) and an MSc (Master of Science) degrees from Tabriz University of IRAN in 1975 and 1977 respectively and a Ph.D. degree and DIC from Imperial College of Science and Technology (ICST) of London University in 1987 in the field of the Kinetics of Photocollidal Systems. He was awarded three scholarships by the DAAD of Germany, the I. R. of Iranian Government and the Unilever Research Institute of UK. He awarded an Alborz Foundation prize from ministries of education and higher education of IRAN due to the selected first class student in IRAN in 1977. He is founder of three research fields including nano-science and technology, fuel cells systems and solar hydrogen production in IRAN. His current research interests include nanostructured Materials, two-dimensional materials, dye sensitized solar cells, soft matters such as liquid crystals, light emitting devices, proton exchange membrane fuel cells (PEMFC), solid oxide fuel cells (SOFCs), and solar hydrogen generation.



## Education

### Doctor of Philosophy

Physical Chemistry & DIC of Physical Chemistry  
Imperial College of Science and Technology  
University of London, London, UK

Graduated, July 1987

### Master of Science

Physics  
Tabriz University  
Tabriz- I.R. of Iran

Graduated, July 1977

### Bachelor of Science

Physics  
Tabriz University  
Tabriz- I.R. of Iran

Graduated, July 1975



## Employment

- Physics Department, Tarbiat Modarres University, I.R. of Iran, since 1991 (1991-2008)
- Physics Department, Tehran University, Tehran, I.R. of Iran, (1988-1991)
- Physics Department, Tabriz University, Tabriz, I.R. of Iran, (1980-1988)
- Researcher in Solar Energy, Stuttgart University, Germany, (1978 – 1980)
- Physics Department, Razi University, Kermanshah, I.R. of Iran, (1977-1978)



## TEACHING & RESEARCH INTERESTS

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- Nanophysics
- Advanced Solid State Physics
- Advanced Quantum Physics
- Thermodynamics
- Modern Physics
- Fuel Cell Science and Technology
- Renewable Energies
- Solar cells
- Solar Hydrogen Production



## POSITIONS HELD

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- **Director of Energy**  
Plan and Budget Ministry, Tehran, I.R. of Iran (1988 – 1989)
- **Vice- President of Science Faculty**  
Tehran University, Tehran, I.R. of Iran (1989 – 1990)
- **Director of Relationship Office**  
Atomic Energy Organization of IRAN, Tehran, I.R. of Iran (1990 – 1991)
- **Vice- President of Islamic Azad University of North Tehran Branch**  
Tehran, I.R. of Iran (1990-1991)
- **Vice- President of Institute of Science and Technology**  
Tehran, I.R. of Iran (1992-1994)
- **Vice- President of Building & Housing Research Center**  
Tehran, Ministry of House & Urban, I.R. of Iran (1994-1995)
- **Director of Fuel cell Project, SANA, Ministry of Energy**  
Tehran, I.R. of Iran (1995-1996)
- **Director of Fuel Cell Project**  
IKCO, Tehran, I.R. of Iran (2000- 2003)
- **Vice- President of Science Faculty**  
Tarbiat Modarres University, Tehran, I.R. of Iran (2003-2004)
- **Vice- President of Technology Incubator Center**  
Tarbiat Modarres University, Tehran, I.R. of Iran (2004-2005)
- **Vice- President of Modarres Science & Technology Park**  
Tarbiat Modarres University, Tehran, I.R. of Iran (2005-2007)
- **Representative of I.R. of Iran in Cooperation Between Universities**  
Science and Technology Institutes of G8 Countries Work Group (2009-2010)
- **Director of Hitech Industries Projects**  
Ministry of Industry and Mine (2010-2011)
- **President of Technology Incubator Center**  
Tarbiat Modarres University, Tehran, I.R. of Iran (2005-2015)
- **President of Modarres Science & Technology Park**  
Tarbiat Modarres University, Tehran, I.R. of Iran (2008-2015)



## MEMBERSHIPS

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- Invited Membership of New York Academy of Sciences
- International Solar Energy Society (ISES)
- International Association for Hydrogen Energy (IAHE)
- International Energy Foundation (IEF)
- International Association for Solar Energy Education (IASEE)
- Contact Person of IASEE in IRAN
- World Circle of Consensus (CMDC)
- Iranian Solar Energy Society, (Founder of Society)
- Iranian Physics Society
- Iranian Chemistry and Chemical Engineering Society.
- Iranian Crystallography Society
- Iranian Society of Environmentalists
- Iranian Society of Nanotechnology



## AWARDS

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- The Iranian Cultural Alborz Foundation Prize for Selected High Distinction Amongst the Iranian 1st Class Graduated Students, (1977)
- Unilever Plc. Award of Imperial College of Science and Technology. (1986)
- Selected Marquise Who's Who in the World which is Published in the 14th – 17th Editions of Who's Who in the World (1997 – 2000)
- Nominated for a Prestigious seat on the American Biographical Institute (ABI) Research Association's Board of Governors (2000)
- Selected "2000 Outstanding Scientists of the 20th Century" by the International Biographical Centre (IBC), Cambridge, England, Edited by Jocelyn Timothy (2000)
- Nominated as International Scientist of the Year by the International Biographical Centre (IBC), Cambridge, England (2001)
- Nominated for Outstanding Man of the 21st Century by the American Biographical Institute (ABI) Research Association (2001)
- Selected Paper of Top 25 Hottest Articles of more than 2200 Journals on Science Direct within International Journal of Renewable Energy (2005)
- Best Paper award of Tarbiat Modares University, Tehran, I. R. of Iran (2006)
- Best Poster Paper Prize of 10th Grove Fuel Cell Symposium, London, UK (2007)
- Selected Applied Researcher Professor in Tarbiat Modarres University (2016)

I am founder of nano-science and nanophysics in I. R. of Iran since 1984 and published my first paper in Imperial College of Science and Technology of London University (about kinetics study in CdS nanoparticles of about 17nm) was published in J.Chem. Soc Faraday Trans. I , (Vol. 81, pp. 1999-2007.



## PUBLICATIONS

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### I. International Journals

1. W. J. Albery, G. T. Brown, J. R. Darwent, and E. Saievar-Iranizad, Time – Resolved Photo-redox Reactions of Colloidal Semiconductors, J.Chem. Soc Faraday Trans. I , (Vol. 81, pp. 1999-2007. (1985).
2. W. J. Albery, Philip N. Bartlett, t C. Paul Wilde and J. R. Darwent (E. Saievar-Iranizad), A General Model for Dispersed Kinetics in Heterogeneous Systems, J.Am. Chem. Soc, Vol. 107, pp. 1854-1858. (1985).
3. E. Saievar-Iranizad, Application of Laser in chemistry, J. of Chemistry of Roshd, Application of Laser in chemistry, J. of Chemistry of Roshd, Vol, 4, No. 16, pp. 34-39, (1988).
4. Saievar-Iranizad, Advanced Technology for Fuel Cell Vehicles, Int. J. of Renewable Energy, WREC, pp.2473-2476. UK, (1998).
5. J. Mirzazadeh, E. Saievar-Iranizad, L.Nahavandi "An analytical approach on effect of diffusion layer on ORR for PEMFCs", J. Power Sources, Vol. 131, pp. 164-199 (2004). IF; 6.227
6. R. Roshandel, B. Farhanieh and E. Saievar-Iranizad, The Effects OF Porosity distribution variation on PEM Fuel Cell Performance, Renewable Energy, (ScienceDirect's TOP25 Hottest Articles), Vol. 30, pp. 1557-1572, (2005).
7. Sh. Jamali, E. Saievar-Iranizad and S. Farjami Shayesteh, "Investigations on chemically capped CdS nanoparticles", Journal of Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, (IF 0.504), Vol 37, No.5, pp. 381-386, (2007).
8. Sh. Jamali, E. Saievar-Iranizad and S. Farjami Shayesteh, "Synthesis, Optical and Structural Characterization of CdS nanoparticles" International Journal of Nanoscience and Nanotechnology, Vol 3, No. 1, pp. 53-62, (2007).
9. M. H. Majles Ara, Z. Dehghani and E. Saievar-Iranizad, Synthesis, Characterization and Single-Beam Z-Scan Measurement of The Third-Order Optical Nonlinearities of ZnO Nano-Particles, International Journal of Modern Physics B (IJMPB), Vol:22 No: 18/19 pp.3165- 3171, (2008).

10. M. H. Majles Ara, Z. Dehghani and E. Saievar-Iranizad, Characterization and Nonlinear Optical Properties of CdS Nano-Particles, *International Journal of Nanotechnology* Volume 6, Numbers 10-11, pp. 1006-1014, (2009).
11. E. Saievar-Iranizad, the Role of Fuel Cell in Energy Economizing and Reduction of Environmental Pollution, *Solar Energy Magazine*, Vol. 14, No. 49, pp. 4-7 (2009).
12. G. R. Argi and E. Saievar-Iranizad, the Effect of Calcinations' Temperature on the Size and Morphology of Zinc Oxide Nanoparticles, *Amirkabir Journal of Dcience and Technology*, Number 70-h, pp. 61-66, (2009).
13. H. Majles Ara Z. Dehghani E. Saievar-Iranizad, Characterization and Nonlinear Optical Properties of CdS Nanoparticles, *Int. J. Nanotechnol.* Vol. 610/11, pp. 1006-1014, (2009).
14. R Farghadan, A Saffarzadeh, E Saievar Iranizad, Spin transport through a triangular graphene flake, *Journal of Physics: Conference Series* Vol. 248, pp. 012014, (2010).
15. M. Molaei, E. Saievar-Iranizad, Z. Dehghani and Taghavinia, Investigation the Nonlinear Optical Responses of Thermochemically Synthesized CdS Nanoparticles, *Journal of Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, Vol. 41, pp. 224-227, (2011).
16. M. Molaei, E. Saievar Iranizad, M. Marandi, and N. Taghavinia, Investigation of the photoluminescence properties of thermochemically synthesized CdS nanocrystals, *AIP ADVANCES* Vol. 1, No. 012113, pp. 1-7, (2011).
17. M. Molaei; E. Saievar Iranizad; Z. Dehghani; N. Taghavinia; M. H. Majles Ara , Investigation of the Photoluminescence Properties and Nonlinear Optical Responses of Thermochemically Synthesized CdS Nanoparticles, *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, (IF 0.504), Vol. 41, No. 2, pp. 224 – 227, (2011).
18. Z. Dehghani, S.Nazerdeylami, E.Saievar-Iranizad, M.H.MajlesAra, Synthesis and investigation of nonlinear optical properties of semiconductor ZnS nanoparticles, *Journal of Physics and Chemistry of Solids* (IF 1.632), Vol. 72, pp. 1008–1010, (2011).
19. M. Molaei, E. Saievar-Iranizad, M. Marandi, N. Taghavinia, R. Amrollahi, Synthesis of CdS nanocrystals by a microwave activated method and investigation of the photoluminescence and electroluminescence properties, *Applied Surface Science*, Vol. 257, pp. 9796– 9801, (2011).
20. Nazerdeylami, E. Saievar-Iranizad, Z. Dehghani, M. Molaei, Synthesis and photoluminescent and nonlinear optical properties of manganese doped ZnS nanoparticles *Physica B*, (ScienceDirect's TOP25 Hottest Articles), Vol. 406 pp. 108–111, (2011).
21. M. Molaei, M. Marandi, E. Saievar-Iranizad, N. Taghavinia , B. Liu, H.D. Sun, X.W. Sun
22. Near-white emitting QD-LED based on hydrophilic CdS nanocrystals, *Journal of Luminescence*, (ScienceDirect's TOP25 Hottest Articles), Vol. 132, No. 2, pp. 467-473, (2012).
23. R. Farghadan, E. Saievar-Iranizad, Spin-polarized edge and magnetoresistance in graphene flake, *Solid State Communication*, Vol. 151, pp. 1763-1766, (2011), in press.
24. M. Molaei, M. Marandi, E. Saievar-Iranizad, N. Taghavinia , Interstitial sulfur photoluminescence in thermochemically synthesized CdS nanocrystals (NCs) *The European Physical Journal Applied Physics*, Vol. 56: 10401 (5 pages) Sept (2011).
25. S. Gholami-Kaliji, E. Saievar-Iranizad, Z. Dehghani, M. H. Majles Ara, Influence of synthesis temperature on linear and nonlinear optical properties of water soluble luminescent Cd<sub>1-x</sub>Zn<sub>x</sub>Te nanocrystals, *Physics Procedia* Vol. 19, pp. 403–407, (2011).
26. S. Gholami-Kaliji, E. Saievar-Iranizad, Z. Dehghani, M. H. Majles Ara, Photoluminescent and nonlinear optical properties of aqueous synthesized Cd<sub>0.6</sub>Zn<sub>0.4</sub>Te nanocrystals in different temperatures, *Micro & Nano Letters*, Vol. 7, Iss. 5, pp. 460-463, (2012).
27. R. Farghadan, E. Saievar-Iranizad, Spin-polarized transport in Zigzag-edge graphene nanoribbon junctions, *Journal of Applied Physics*, Vol. 111, pp. 014304-1-4, Published online 4 Jan., (2011).
28. S. Nazerdeylami, E. Saievar-Iranizad, M. Molaei, Optical Properties of Synthesixed Nanop[articles ZnS Using Meth-acrylic Acid as the Capping Agent, *International Journal of Modern Physics: Conference Series* Vol. 5 pp. 127-133 (2012).
29. S. Pourjafari, E. Saievar-Iranizad, M. Molaei, Ivestigation of Ligands and Temperature ffects on the Size of Aqueos Phase Synthesized CdTe Nanocrystals, *International Journal of Modern Physics: Conference Series* Vol. 5 pp. 242–250 (2012).
30. S. Pourjafari, M. Molaei, E. Saievar-Iranizad, Z. Dehghani, M. H. Majles Ara, Investigation of Photoluminescence and Non-Linear Optical Properties of CdTe Nanocrystals, *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, Vol. 42, pp. 542–547 (2012).
31. F. Azarkharmana, E. Saievar Iranizada, S. A. Sebt, A novel method for synthesis of size-controlled L10 FePt nanoparticles, *Applied Surface Science*, Vol. 258, pp. 5765– 5769 (2012).

32. S. Pourjafari, M. Molaei, E. Saievar-Iranizad, Z. Dehghani, M. H. Majles Ara, Investigation of the Photoluminescence Properties and Nonlinear Optical Responses of CdTe/CdS Core/Shell Quantum Dots, Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, Vol. 42, pp. 1060-1063, (2012).
33. H. S. Bahari, E. Saievar-Iranizad, M. Molaei, Investigation of Optical Properties of Cd<sub>1-x</sub>Se<sub>x</sub> Nanoparticles (NPs) Synthesized by Thermochemical Method, Modern Physics Letters B, Vol. 26, No. 29 pp. 1250193 (7 Pages), (2012).
34. N. Oraee, M. Molaei, E. Saievar Iranizad, Investigation of the photoluminescence properties of ZnSe and ZnSe:Cu nanocrystals (NCs), Modern Physics Letters B, Vol. 26, No. 26, id. 125017, (2012).
35. Fereshteh Azarkharmana, Esmail Saievar Iranizada, Seyed Ali Sebt, Monolayers of spin-coated L10 FePt nanoparticles, The European Physical Journal D, Vol. 67: 71, 6pp. (2013).
36. E. Saievar Iranizad, Z. Dehghani, M. Nadafan, Nonlinear optical properties of nematic liquid crystal doped with different compositional percentage of synthesis of Fe<sub>3</sub>O<sub>4</sub> nanoparticles, Journal of Molecular Liquids, (ScienceDirect's TOP25 Hottest Articles), Vol. 190, pp. 6-9, (2014).
37. Z. Dehghani, E. Saievar-Iranizad, The effect of initial alignment on the optical properties of Fe<sub>3</sub>O<sub>4</sub> nanoparticles doped in nematic liquid crystals, Physica B, Vol. 434, pp. 165-170, (2014).
38. S. E. Mirsalar and E. Saievar-Iranizad. The effect of Cu doping on LPG response of the SnO<sub>2</sub> nanostructure layer. Advanced Materials Research, Vol. 829, pp 391-395, (2014).
39. Z. Dehghani, E. Saievar-Iranizad, A. Faraji Alamouti, M. Nadafan. Optical properties of synthesized Fe<sub>3</sub>O<sub>4</sub> nanoparticles doped in nematic liquid crystal under electric field, Advanced Materials Research, Vol. 829, pp 836-840, (2014).
40. E. Saievar-Iranizad, Z. Dehghani and M. Nadafan,  $\chi(3)$  Measurement of Ferronematic Liquid Crystal Using a Single Beam Method, INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY, Vol. 3, No, 2, pp. 1043-1047, (2014).
41. Z. Dehghani, E. Saievar-Iranizad, M. Nadafan, and Investigation of electric field effect on the third order nonlinear optical properties of Fe<sub>3</sub>O<sub>4</sub> nanoparticles-doped nematic liquid crystal, Optics Communications, (IF 1.542), Vol. 334, pp. 16–21, (2015).
42. Z. Dehghani, E. Saievar-Iranizad, M. Nadafan, Journal of Molecular Liquids, The effect of external applied fields on the third order nonlinear susceptibility of ferro-nematics, Vol. 204 , pp. 70-75 , (2015).
43. S. S. Polkoo, E. Saievar-Iranizad and E. Bayatloo, Fine designing 3-dimensional ZnO nanowalls with TiO<sub>2</sub> nanoparticles for DSSC application, Appl. Phys. A 119(4), pp. 1269-1276, DOI 10.1007/s00339-015-9091-6, (2015).
44. S. Pourjafari, E. Saievar-Iranizad and A. Bayat, Platinum Nanoparticles with Superacid-Doped Polyvinylpyrrolidone Coated Carbon Nanotubes: Electro-catalyst for Oxygen Reduction Reaction in High-Temperature Proton Exchange Membrane Fuel Cell, RSC Advances, ISSN-2046-2069-DOI: bayatloo10.1039/C6RA03509D, Vol. 6, pp. 41937–41946, April (2016).
45. Z. Dehghani, N. Dalir, M. Nadafan, M. H. Majles Ara, E. Saievar-Iranizad, Investigation of electrical and nonlinear optical properties of colloidal composite nematic liquid crystal, Journal of Molecular Liquids, 225, pp. 502–509, (2017).
  - a. Bayat, E. Saievar-Iranizad, Synthesis of blue photo-luminescent WS<sub>2</sub> quantum dots via ultrasonic cavitation, Journal of Luminescence, 185, pp. 236–240, Jan. (2017).
46. Kh. Hemmati Kahradeh, E. Saievar-Iranizad, A. Bayat, Synthesis of green-photoluminescent single layer graphene quantum dots: Determination of HOMO and LUMO energy states, Surface & Coatings Technology, 319 , pp. 318–325, March (2017).
47. Sajedi-Moghaddam, E. Saievar-Iranizad, Martin Pumera, Two-dimensional transition metal dichalcogenide/conducting polymer composites: synthesis and applications, Nanoscale, 9, pp. 8052–8065, May (2017). IF; 7.760
48. Bayat, E. Saievar-Iranizad, Synthesis of green-photoluminescent single layer graphene quantum dots: Determination of HOMO and LUMO energy states, Journal of Luminescence, 192, pp. 180–183, June (2017).
49. Sajedi-Moghaddam, Carmen C. Mayorga-Martinez, Zdeněk Sofer, Daniel Bouša, E. Saievar-Iranizad and Martin Pumera, Black Phosphorus Nanoflakes/Polyaniline Hybrid Material for High-Performance Pseudocapacitors, The Journal of Physical Chemistry, 121 (37), pp 20532–20538, (2017). IF; 4.536. DOI: 10.1021/acs.jpcc.7b06958
50. Bayat, E. Saievar-Iranizad, Kh. Hemmati Kahradeh, Theoretical and experimental study on the wettability behavior of solid films prepared of spherical particles: A study on Gibbs free energy, Environmental Chemical Engineering, (2017).

51. Bayat, E. Saievar-Iranizad, Graphene quantum dots decorated rutile TiO<sub>2</sub> nanoflowers for water splitting application, *Journal of Energy Chemistry*, Vol. 27, pp. 306-310, (2018).
52. Sajedi-Moghaddam and E. Saievar-Iranizad, High-yield exfoliation of tungsten disulphide nanosheets by rational mixing of low-boiling-point solvents, *Materials Research Express*, Volume 5, Number 1, pp. (2018).

## II. Internal Journals

53. E. Saievar-Iranizad, A. Malekifar, The study of flow and proton exchange interactions in the cylindrical solid oxide fuel cell, *Iranian Journal of Energy*, Vol.7, No. 14, ISSN 1028-3706; National Energy Committee of I.R. of IRAN, Tehran, IRAN, Aug. (2002).
54. Sh. Jamali, E. Saievar-Iranizad and S. Farjami Shayesteh, "Synthesis, Optical and Structural Characterization of CdS nanoparticles" *International Journal of Nanoscience and Nanotechnology*, Vol 3, No. 1, pp. 53-62, (2007).
55. E. Saievar-Iranizad, The Role of Fuel Cell in Energy Conservation and Reduction of Environmental Pollution, *Solar Energy Magazine*, Vol. 14, No. 49, pp. 4-7, (2009).
56. G. R. Argi and E. Saievar-Iranizad, the Effect of Calcinations' Temperature on the Size and Morphology of Zinc Oxide Nanoparticles, *Amirkabir Journal of Science and Technology*, Number 70-h, pp. 61-66, (2009).
57. M. Yousefpour, R. Malekfar, S. Nazer Deylami, E. Saievar-Iranizad, N. Hosseinzadeh and B. Varagh, *Quarterly Journal of Physics Molecular and Atomic*, Vol. 1, No. 1, pp. 13-19, (2009).
58. Hadizade Kheirkhah, E. Saeivar Iranizad, Mechanical properties of hydrogen functionalized graphene: A molecular dynamics study, *J. of Modares Mechanical Engineering*, Vol. 13, No. 2, (2013).
59. E. Rahmanian, A. Sajedi Moghaddam, A. Bayat, E. Saievar-Iranizad, R. Malekfar, Optical and Structural Characterization of Molybdenum Disulphide Nanoflakes Based on Solvent Extraction Layer Method, *J. of Nanomeghyas*, Vol, 2, No. 6, pp. 69-73. Winter (2015).
60. Arab Khorasani, E. Saievar-Iranizad, A. Bayat, Investigation of Thickness Effect of Films on the Performance of Dye Sensitized Solar Cell Based on ZnO and SnO<sub>2</sub> Nanoparticle *J. of Nanomeghyas*, Vol, 2, No. 8, pp. 133-138. Summer (2015).
61. Z. Dehghani, E. Saievar-Iranizad, and M. Arab, Optical properties of doped nematic liquid crystal with azo disperse red 2 dye and evaluation of the effect of primary direction of molecules on it, *Applied Physics Journal (AL Zahra University)*, No. 1, Spring and Summer (2016).
62. V. Baroogh Miandoab, E. Saievar Iranizad, K. Hemmati Kahradeh, The effect of concentration and time of hydrothermal process on the fluorescent property of Molybdenum Diselenide nanolayers, *Journal of Optoelectrical Nanostructures*, Autumn, Vol. 1, No. 3, (2016).
63. Bayat, E. Saievar-Iranizad, Photoelectrochemical Hydrogen Generation in Coral-like TiO<sub>2</sub> Photoanode, *Journal of Solar Energy Research (JSER)*, Vol. 12, pp. 36-39, (2016).

## III. Conferences

1. E. Saievar-Iranizad, Interfacial Electron-Transfer Reactions in CdS Colloids, *European Conference in FRS*, Univ. of York, UK, Sept. (1985).
2. E. Saievar-Iranizad, Application of Laser in chemistry, *J. of Chemistry of Roshd*, Vol, 4, No. 16, pp. 34-39, (1988).
3. E. Saievar-Iranizad, Solar Energy in Chemistry. 3rd Annual Iranian Chemistry & Chemical Engineering Congress (1988).
4. Saievar-Iranizad, The Role of Colloidal Semiconductors in Photolysis of Water, 4th Annual Iranian Chemistry & Chemical Engineering Congress P. 140, (1989).
5. Saievar-Iranizad, New Energy, 6th Annual Iranian Physics Conference, (1989).
6. Saievar-Iranizad, The Role of Physics in Development of 3rd World Countries, 6th Annual Iranian Physics Conference (1989).
7. E. Saievar-Iranizad, Colloidal Semiconductors in Solar Hydrogen Production, *Proceeding of Energy and the Environment in to the 1990's* (A. A. M. Sayigh ed.), Vol. 1 pp. 320-324, Pergamon Press, London (1990).
8. E. Saievar-Iranizad, The world of Ultra fine Semiconductors, 7th Annual Iranian Physics Conference (1990).
9. E. Saievar-Iranizad, Water Heating Through Cylindrical Parabolic Concentrator, *Guide – book of Solar Energy Projects in Iran* (A. Haj Saghati ed.) pp. 298 – 300, Iran Science & Tech. Univ. Press, Tehran (1991).
10. E. Saievar-Iranizad, Solar Irradiation Measurement on the Horizontal Surface of Tabriz City, *Guide-book of solar Energy projects in Iran* (A. Haj Saghafi, ed.) pp. 301-303, Iran Science & Tech Univ. Press, Tehran (1991).

11. E. Saievar-Iranizad, Hydrogen Production through Photo-colloidal System, ECO World'92 Conference, Washington, (1992).
12. E. Saievar-Iranizad, Solar Generation of Hydrogen from H<sub>2</sub>S in Aqueous Semiconductor Dispersions, 7th Annual Iranian Chemical Engineering Congress (1992).
13. E. Saievar-Iranizad, The Role of Q-Particles in Hydrogen Production, Proceeding of 1st Joint Iranian-Turkmen Seminar on Renewable Energy Sources, pp. 93-96, Bojnord, I.R. of IRAN (1992).
14. E. Saievar-Iranizad, Photo-evolution of Hydrogen at Colloidal semiconductor / Liquid Interface, Proceeding of 1st Joint-Turkmen Scientific Seminar on Renewable Energy Sources, pp. 97-102, Bojnord, I.R. of IRAN, (1992).
15. E. Saievar-Iranizad, Solar Energy Conversion Through Semiconductor Photo-electrochemical cell, Proceeding of 2nd Turkmen-Iranian Scientific Seminar on Renewable Energy Sources, pp. 190-201, Ashgabat, Turkmenistan, (1993).
16. E. Saievar-Iranizad, Sun, Hydrogen and Semiconductor, Proceedings of Energex, 93, pp. 327-334 Vol. III, Seoul, Korea, (1993).
17. E. Saievar-Iranizad, Solar Energy Conversion Through Photovoltaic Systems, Proceeding of Energy, Economy and Ecology Congress, Baku, Azerbaijan Republic, (1993).
18. E. Saievar-Iranizad, Solar Generation of Electricity and Through Amorphous Silicon Solar cells, Proceeding of Iranian Energy Society Seminar, 1. Generation and Application of Solar Electricity, pp. 109-121, Tehran, I.R. IRAN, (1995).
19. E. Saievar-Iranizad, A Photovoltaic Solar Hydrogen System for Rural Utilization, Proceeding of Hydrogen Power Systems International Symposium, Cassino, Italy, (1995).
20. E. Saievar-Iranizad, Photovoltaic and Conduction Properties of Efficient Thin Film Solar Cells, Proceeding of Solar World Congress " In Search of the Sun ", Zimbabwe, (1995)
21. E. Saievar-Iranizad, Energy Conservation of the Second Economical-Social and Cultural Development plan of Islamic Republic of IRAN, Proceeding of International Conference on Solar Energy & the Islamic Countries, Vol. 2, pp. 727-741, Tehran, I.R. of Iran (1995).
22. E. Saievar-Iranizad, Solar Hydrogen Power Generation, Proceeding of the 6th International Energy Conference, Energex, 96, Beijing, China (1996).
23. E. Saievar-Iranizad, Fuel Cell and Hydrogen, Proceeding of Euro Sun, 96, Freiburg, Germany (1996).
24. E. Saievar-Iranizad, Reduction of Greenhouse Effect Through Hydrogen and Fuel Cell, Proceeding of the Symposium on the Environment and Sustainable of Development pp. 151-134, I.R. of IRAN, Nov. (1996).
25. E. Saievar-Iranizad, Hy-solar, Fuel cell and Energy Storage, Proceeding of International Conference & Exhibition on Village Electrification Through Renewable Energy, New Delhi, India. March (1997).
26. E. Saievar-Iranizad, Solar Hydrogen and Environment, Proceeding of the 1st National Energy Conference, Vol. 2, pp. 156-164, Tehran, I.R. of IRAN, May (1997).
27. E. Saievar-Iranizad, Evaluation of New Technologies of Fuel Cells in Generating Clean Energy, Proceedings of the 1st National Energy Congress, Vol.III, pp.79-87, Tehran, I.R. of IRAN, May (1997).
28. E. Saievar-Iranizad, Solar Fuel Cells, Proceedings of 1997 Solar World Congress of the ISES, Taejon, Korea, August (1997).
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\* These reports have been prepared by members of the fuel cell project in IKCO under supervision of Dr. E. Saievar-Iranizad

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 1st Edition 2001  
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## Declaration

I, Esmail Saievar Iranizad, hereby declare that the information contained herein is true and correct to the best of my knowledge and belief

