

Professor Mansoor Keyanpour - Rad



Personal Details

Address : Division of Energy, Materials and Energy Research Center, P.O. Box 14155-4777	E- mail address: m.kianpour984@yahoo.com m-keyanpour@merc.ac.ir Fax : (+98) 0261-6201888
Telephone : (+98) 261- 6204131-2	Date of birth : Sep.3.1942 Nationality : Iranian Marital status : Married, 3 children

Education

Year	Qualification	Institution
1963-1968	BS in Chemistry	California State University, USA
1968-1971	MS in Organic Chemistry	California State University, USA
1975-1977	Ph.D in Polymer Chemistry	Liverpool University, UK

Employment

1968-1974	Stanford Research Institute (SRI), Menlo Park, California, USA, Life Science department, Organic and pharmaceutical chemist.
1974-1975	Tehran Polytechnic University, assistant professor.
1977-1978	Parsilon Nylon Company, Lorestan, Iran, Director of control and research labs
1978-1983	Lorestan University, Iran, assistant professor. Head of the chemistry department, President of the university.
1983-1986	Petroleum Research Center, Tehran, Iran. Head of the department of chemical products, Researcher.
1986- till present time	Materials and Energy Research Center, Tehran, Iran, professor, Head of the energy division, Researcher.

Fields of Research: Synthesis and analysis of organic molecules, monomers, polymers; pharmaceuticals; nanomaterials; polymeric and nano composites; dental glass ionomer cements; dental impression materials; lubricant additives; environmental pollution studies; materials in solar heating and cooling systems; fuel cells components; drug delivery systems; electrospinning method of preparation of nanofibers.

Publications

A. Publications in Scientific Journals

- 1 V. H. Brown, M. Keyanpour-Rad J. I. Degraw, "3 and 4- Carbazole dialkylamino carbinols as potential antimalarial", *J. Med. Chem*, 14, 459 (1971).
- 2 E. M. Acton, M. Keyanpour-Rad, J.E. Christensen, H. Tong, R. P. Kwok and L. Goodman, "Potential antitumor agents. some 1,6 - disubstituted galactitol and mannitol derivatives", *J. Carbohydr. Res*, 22, 477 (1972).
- 3 M. Keyanpour-Rad, A. Ledwith, A. Hallam, A. M. North, M. Greton, C. Hoyle and J. E. Guillet, "Some photophysical properties of five new carbazole containing methacrylate polymers", *Macromol*, 11, 1114 (1978).
- 4 M. Keyanpour-Rad, A. Ledwith, "The synthesis and polymerizability of methyl -2-(methacroyloxy) ethyl terephthalate, a useful free radically - polymerizable model for dimethyl terephthalate", *Polymer Bull*, 1 (5), 337 (1979).
- 5 M. Keyanpour-Rad, A. Ledwith and G. Johnson "The synthesis and emission properties of poly (N-ethyl -4-vinylcarbazole)", *Macromol*, 13 (2), 222 (1980).
- 6 M. Keyanpour-Rad, F. Ghaziani, "Reduction of the peroxide formed at the cathode of H₂/O₂ fuel cells with Co, Cu, Fe, Ni phthalocyanines at ambient temperature", *Journal of Chemistry*, 8(1), 36 (1995).
- 7 M. Keyanpour-Rad, F. Trull, "Initial study of energy transfer in phthalocyanine - mesoporphyrine- styrene copolymer", *Journal of Polymer Science and Technology*, 8(1), 26 (1995).
- 8 M. Keyanpour-Rad, "Synthesis of poly {bis-(4, 4'- dibromo) -4" -[2-(methacroyloxy) ethoxycarbonyl] triphenylammoniumyl} hexachloroantimonate (PBDMETH) cation radical, a very convenient and useful one electron oxidizing agent for organic molecules", *Journal of Polymer Science and Technology*, 2, 973 (1994).
- 9 M. Keyanpour-Rad, "Synthesis of a polyester from 2-dodecen -1- yl succinic acid as a rust inhibitor for turbine oil", *Journal of Polymer Science and Technology*, 9(1), 27 (1996).
- 10 M. Keyanpour-Rad, M. Esmaeli, "Application of organic polymers in ceramic materials "binders", *Journal of Polymer Science and Technology*, 9 (2), 91 (1996).
- 11 M. Keyanpour-Rad, R. Salarian, F. Moztarzadeh, "Effect of molecular weight and conc. of itaconic/acrylic acids copolymer liquid on mechanical properties of the formulated glass ionomer dental cements", *Iranian Polymer Journal*, 7(3), 163 (1998).

- 12 M. Keyanpour-Rad, "Synthesis of polynaphthylene as pour point depressant for lubricating oils from polyethylene wax obtained from polyethylene unit of Arak petrochemical industry", *Iranian Polymer Journal*, 10 (3), 157 (1997).
- 13 M. Keyanpour-Rad, F. Ghaziani, "Synthetic aid chemicals and perfume", *Chem. J. of Iran*, 2,49 (1988).
- 14 M. Keyanpour-Rad, "Synthesis and study of a novel copolymer of acrylic / citraconic acids for self - cured dental glass ionomer cement", *Iranian Journal of Polymer*, 7 (4) , 271 (1998)
- 15 M. Keyanpour-Rad, "Caprolactam and its preparation from direct solar energy flux" *Iranain Journal of Chemistry and Chemical Engineering*, 17 (2),157 (1998).
- 16 M. Keyanpour-Rad, H. Haghgou, F. Bahar , E. Afshari, "Feasibility study of the application of solar heating energy in Iran", *Renewable Energy*, 20, 333 (2000).
- 17 M. Keyanpour-Rad, H. A. Mehrabi ,and Aghajani, " Studing the effect of different ratios of high density polyethylene wax binder on the mechanical strength of ceramic cores made by injection molding process" *Iranian Journal of Polymer*, 13 (4), 233 (2001).
- 18 M. Keyanpour-Rad, "Synthesis of a functionalized polystyrene-bound zinc (II) phthalocyanine and the metal free resin", *polymer Journal*, 10(4), 223 (2001).
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- 20 M. Keyanpour-Rad, "Effect of the size of N-substitution in pyrrole on directing electrophiles to the C-positions of the ring" *Journal of Heterocyclic Chemistry*, 11,67 (2001) .
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- 22 M. Keyanpour-Rad, "Synthesis of microelement ferric ethylenediamine bis-(O-hydroxyphenylacetate) and study its efficiency in agricultural soils of Iran", *Journal of Science of Teacher Training University*, 1(2), 119 (2002).
- 23 F. Moztarzadeh, M. Keyanpour-Rad, V.Shabani, "Synthesis of photocurable dental ionomer cement based on the reaction of acryloyl chloride coupling compound with acrylic/itaconic acids copolymer", *Iranian Polymer Journal* 12(3), 211 (2003).
- 24 M. Keyanpour-Rad, "Toxic organic pollutants from kerosene space heaters in Iran," *Inhalation Toxicology*, 16,155 (2004).
- 25 F. Moztaradeh, M. Keyanpour, A. Rostami and R. Salarian, "the effect of addition of ZrO₂/TiO₂ nucleating agents on setting, working times and compressive strength of a glass ionomer cement" *Journal of Science and Technology*, B₂, 28, 277 (2004).
- 26 M. Keyanpour-Rad, G. Hejazi, "Fraud in science" *Journal of Science and the Future*, 9, 71 (2004).
- 27 A. Eftekhari, M. Kazemzad, M. Keyanpour-Rad, M. Bahrevar, "Quantitative surface analysis of plastic deformation of Pd electrodes in nanoscale", *Applied Surface Science*, 242, 83 (2005).

- 28 A. Eftekhari, M. Kazemzad, M. Keyanpour-Rad, "Influence of atomic –scale irregularities on fractal analysis of electrode surface", *Applied Surface Science*, 239, 31 (2005).
- 29 M. Keyanpour, "Synthesis and characterization of PMMA with 4-carbazole chromophore substitution", *Journal of Chem and Chem Eng*, 24(2), 11-15 (2005).
- 30 H. Nojehdehyan, H. Mirzadeh, S. Hesaraki, M. Keyanpour-Rad, "The effect of addition of NaHF₂ on physicochemical and mechanical properties of apatite cements", *Journal of Material Science and Engineering*, 2 (2), 28-36 (2005).
- 31 A. Eftekhari, M. Kazemzad, M. Keyanpour-Rad, "Electropolymerization of polyaniline on plastically deformed Pd surface structure at micro and nano-scale", *Polymer Journal*, 38(4), 329 (2006).
- 32 F. Halek, M. Keyanpour-Rad, M. Mirmohammadi, K. Abbaspour, A. Kavousi, "Atmopheric tail-pipe emission from motorcycles in Tehran-Iran," *Journal of Toxicology and Environmental Health*, 88 (1), 1-8 (2006).
- 33 M. Pazouki, M. Keyanpour-Rad, Sh. Shafie and Sh. Shahhoseini, "Efficiency of penicillium chrysogenum PTCC 5037 in reducing low concentration of chromium hexavalent in a chromium electroplating plant wastewater", *Bioresource Technology*, 98, 2116 (2007).
- 34 A. Eftekhari, M. Kazemzad and M. Keyanpour- Rad, "Significant effect of dopant size on nanosclae fractal structure of polypyrrole film," *Polymer Journal*, 38(8), 781 (2006).
- 35 F. Halek, G.H. Nabi, H. Ganjidoust, M. Keyanpour-Rad, M. Mirmohammadi, " Particulate polycyclic aromatic hydrocarbons in urban air of Tehran", *J. Environ. Health Sci. Eng*, 3, 247 (2006).
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- 37 A. Eftekhari, M. Kazemzad, M. Keyanpour-Rad, " A practical approach for sensing surface nano structures in electrochemical experiments" *Surface Review and Letters*, 13(5), 703 (2006).
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- 47 F. Halek, GH. N. Bidhendi, M. Keyanpour-Rad, R. Mostofi Darbani, A. Kavousirahim; "Concentrations and source assessment of some atmospheric trace elements in northwestern region of Tehran, Iran" *Bulletin of Environmental Contamination and Toxicology*, 84 (2), 185 (2010)
- 48 N.M. Torkaman, Y. Ganjkhanelou, M. Kazemzad, H. H. Dabaghi and M. Keyanpour-Rad, "Crystallographic parameters and electro-optical constants in ITO thin films", *Materials Characterization*, 61, 362 (2010).
- 49 M. Keyanpour-Rad, S. Shaghaghi, D. Ebrahimi and S. Keyanpour-Rad, "Qualitative and quantitative characterization of alginate-based dental impression material", *Chemistry and Chemical Engineering Journal*, 28(2), 57 (2010).
- 50 B. N. Akhgar, M.Pazouki, M. Ranjbar, A. Hosseinnia, M. Keyanpour-Rad, "Preparation of nanosized synthetic rutile from ilmenite concentrate", *Minerals Engineering*, 23, 587 (2010).
- 51 A. Hosseinnia, M. Keyanpour-Rad, M. Pazouki, "Photo-catalytic degradation of organic dyes with different chromophore by synthesized of nanosized TiO₂ particles" *World Applied Sciences Journal*, 8(11), 1327 (2010).
- 52 M. Esmailpour Ganji, A. M. Bazargan, M. Keyanpour-Rad, M. A. Bahrevar, "Morphological and optical characterization of electrospun zinc oxide nanofiber", *Functional Materials Letters*, 3 (2), 141 (2010).
- 53 S. Parsa, M. Keyanpour-Rad, H. Haghgoo and P. Parsa, "performance analysis of a solar active crop dryer equipped with transpired flat and sinusoidal air collector" *Journal of Applied Mechanics Research*, 2 (1), 3 (2010).
- 54 A. M. Bazargan, M. Keyanpour-Rad, F. A. Hesari and M. Esmailpour Ganji, "A study on the microfiltration behavior of self supporting electrospun nanofiberous membrane in water using an optical particle counter", *Desalination*, 265, 148-152 (2010)
- 55 A. Hosseinmardi, M. Keyanpour-Rad, "Metal ionic polymer nanocomposites", *World of nano*, 6(18), 42-52 (2010).
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- parameters on the morphology of the nanofibers” *Journal of Nanocomposite Materials Research*, 3 (1), 165-172 (2010).
- 57 A. Hosseinmardi, M. Keyanpour-Rad and F. A. Hesari,” Impedance characteristics of electrospun nylon-6/TiO₂ nanocomposite for humidity sensor”, *Key Engineering Materials*, 471-472 ,542-547(2011)
- 58 S. Khameneh Asl, S. K. Sadrnezhad and M. Keyanpour-Rad “ the seeding effect on the microstructure and photocatalytic properties of ZnO nano powder”, *Materials letters*, 64 ,1935-1938(2010).
- 59 S. Khameneh Asl, M. Keyanpour-Rad, S. K. Sadrnezhad,” Electrochemical synthesis of doped TNT as a nano photocatalyst for color degradation application”, *Desalination and Water Treatment*, 28, 23-27(2011).
- 60 H. Akbari Khorami, M. Keyanpour-Rad, M. R. Vaezi,” Synthesis of SnO₂/ZnO composite nanofibers by electrospinning method and study of its ethanol sensing properties”, *Applied Surface Science*, 257(18),7988-7992 (2011)
- 61 S. Ghashghaie, A. M. Bazargan, M. Esmailpour Ganji, E. Marzban- Rad, C. Zamani, B. Raissi, M. Keyanpour-Rad, M. A. Bahrevar,” An investigation on the behavior of electrospun ZnO nanofibers under the application of low frequency AC electric fields” *J. Mater Sci: Mater Electron* , 22,1303-1307(2011)
- 62 S. Khameneh Asl, M. Keyanpour-Rad, S. K. Sadrnezhaad, R.Vaezi,”The effect of microstructure on the photocatalytic properties of TiO₂“, *Advanced Materials Research*, 264-265, 1340-1345 (2011).
- 63 S. Khameneh Asl, S.K. Sadrnezhaad, M. Keyanpour-Rad, D. Uner,” Comparative photodecolorization of red dye by anatase rutile (TiO₂) using response surface methodology “, *Turk J. Chem*, 35, 1-15 (2011)
- 64 A. Hosseinmardi, N. Shojaee, M. Keyanpour-Rad, T. Ebadzadeh,” A study on the photoluminescence properties of electrospray deposited amorphous and crystalline nanostructured ZnO thin films”, *Ceramics International*, 38, 1975-1980(2012).
- 65 A. Hosseinnia, M. Keyanpour-Rad,”New approaches for photocatalytic reactions of low concentration arylamines in alcohols “ *Research of Chemical Intermediates*,38,1411-1420(2012).
- 66 P. Sowti Khiabani, A. Hosseinmardi, E. Marzban-Rad, S. Ghashghaie, C. Zamani, M. Keyanpour-Rad, B. Raissi,” NO₂ gas sensor fabrication through AC electrophoretic deposition from electrospun In₂O₃ nanoribbons”,*Sensors and Actuators B*,162,102-107 (2012)
- 67 F. Halek, M. Keyanpour-Rad, A. Kavousirahim ,”Parametric evaluation of indoor particulate matters in elementary schools in the central parts of Tehran ,“*Indoor& Built Environment* , 22,580-585(2013).
- 68 A. Moosavi, M. H. Sarrafi, A. R. Aghaei, F. A. Hessari, M. Keyanpour-Rad,” Preparation of mesoporous ZnO/SBA-15 composite via sonochemical route”, *Journal of Micro and Nano Letters*, 7, 2 ,130-133(2012).

- 69 A. M. Bazargan, S. Ghashghai, M. Keyanpour-Rad, M. Esmaeilpour Gangi,” The electroless nickel plating of catalytically graphitized electrospun carbon nanofibers” The Royal Society of Chemistry Advances Journal, 2,1842-1845(2012).
- 70 M. Keyanpour-Rad, A. M. Bazargan, S. Ghashghai and M. Naghavi,”Electroless nickel plating of electrospun carbon nanofibers”, Journal of Surface Science and Engineering, 12, 81-88(2012).
- 71 F. Barandehfard, M. Keyanpour-Rad, A. Hosseinnia, SM. Kazemzad, MR. Vaezi and A. Hassanjani-Roshan,” Sonochemical synthesis of hydroxyapatite and fluoroapatite nanosized bioceramics”, Journal of Ceramic Processing Research, 13(4) , 437-440(2012).
- 72 R. Ghelich, M. Keyanpour-Rad, A. A. Yuzbashi, Z. Khakpour “Preparation and characterization of NiO-Ce_{0.8}Gd_{0.2}O_{1.9} composite nanofibers via electrospinning” , Micro and Nano Letters, 7 ,1316-1319(2012).
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- 74 F.S . Torknik , M. Keyanpour- Rad ,A. Maghsoudipour, G. M. Choi ,”Effect of microstructure refinement on performance of Ni/Ce_{0.8}Gd_{0.2}O_{1.9} anodes for low temperatures solid oxide fuel cells”, Ceramics International , 40,1341-1350(2014).
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- 79 R.Ghelich, M.Keyanpour-Rad , A.A..Yuzbashi,Z. Khakpour ,”Comparative study on the structural properties of NiO-GDC nanocomposites fabricated via electrospinning and gel combustion processes” , Journal of Materials Research Innovations , In press
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82 B.Conference papers

- 1- M. Cory ,D. Henry, M. Keyanpour-Rad and E. Bueding,"Chemotherapeutic nitroheterocycles. Antischistosomal properties of nitrofurylvinyl heterocycles related to SQ18506, Proceedings of 22th annual meetings of the American Society of Tropical Medicines and Hygiene, Texas, Nov. 1973 .
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- 4- M. Keyanpour-Rad, K. Abbaspour,"Evaluation of the capillary action of SiO₂ - Fe₂O₃ tile collectors in solar stills", Presented at the Renewable Energy Joint Conference of the Islamic Republic of Iran and Turkmenistan, Esfegh Abbad, 1993.
- 5- M. Keyanpour-Rad, F. Ghaziani,"Reduction of the peroxide formed at the cathode of H₂-O₂ fuel cells with Co, Fe, Ni, Ca phthalocyanines at low temperatures", Presented at the International Conference of Solar Energy of Iran, Tehran, 1995.
- 6- M. Keyanpour-Rad,"Alkylation and acylation of pyrrolylcadmium chloride", Presented at the 7th conference of Iranian Chemical Society, Isfahan, 1992.
- 7- M. Keyanpour-Rad, , A. Hossain-nia, F. Ghaziani,"Conductive polymers, polypyrroles" Presented at the 7th conference of Iranian Chemical and Chemical Engineering Society, Isfahan, 1992.
- 8- M. Keyanpour-Rad,"Synthesis of Chelate Sodium Iron III EHPG and Study it's Effect on Iranian Soils,"Presented at the 11th Iranian Chemistry and Chemical Eng. Society, Tehran, 1996.
- 9- S.Kheradpir, M. Keyanpour-Rad,"Effects of air pollution on solar energy", Presented at the 1st, Iranian Environmental Expert's Seminar, Tehran, 1996.
- 10- R. Salarian, M. Keyanpour-Rad,"Elementary study and preparation of glass polyalkenate cements" Presented at the 4th Iranian Dental Society Conf, Tehran, 1997.
- 11- M. Keyanpour-Rad, R. Salarian, F. Moztafzadeh,"Synthesis of itaconic/acrylic acids copolymer by emulsion polymerization and formulation of the glass ionomer cement", Presented at the International Seminar on Polymer Science and Technology, Tehran 1997.
- 12- M. Keyanpour-Rad, A. Taghipour, A. Pangh, F. Bahar," Design and fabrication of a polymeric electrolyte fuel cell as a clean source of energy for vehicle applications" Presented at the 3rd. Iran - Turkmenistan Joint Seminar on Renewable Energy Sources, Bojnourd, 1999.
- 13- M. Keyanpour-Rad,"Design, preparation and analysis of CO detector tube" Presented at the 13th Chemistry and Chemical Engineering Conference. Tehran, 1998.

- 14- H. Haghgou, M. Keyanpour-Rad, F. Bahar and E. Afshari," Study of the economical strategy of the application of solar heating systems in Iran" Presented at the 2nd. National Seminar on Energy, Tehran, 1999.
- 15- F. Hesari, F. Bahar,. M. Keyanpour-Rad,"Energy recovery from kitchen waste" Presented at the 3rd. Iran - Turkamenistan Joint Seminar on Renewable Energy Sources, Bojnourd, 1999.
- 16- M. Keyanpour-Rad, H.Haghgou, F. Bahar, E.Afshari,"Priorities in energy policy for application of solar heating systems" Presented at the 3rd. Iran, Turkamenistan Joint Seminar on Renewable Energy Sources. Bojnourd,1999.
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- 18- M. Keyanpour-Rad," A comparative study of the efficiency of solar cells powered by metal phthalocyanines and their polymeric forms" Presented at the International Energy Conference; GlobeEX 2000. Las Vegas, USA, July 2000.
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- 22- M. Kazemzad, M.Keyanpour, A.Hossain-nia,"Synthesis of bifluoride doped polypyrrole via an electrochemical process", Presented at the 2nd International symposium on Macro-and Supramolecular Architectures and Materials (MAM-04),Montana, USA, June 2004.
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- 24- F. Halak , M . Keyanpour , K . Abbaspour and Kavousi," Motorcycles emission and the effects on Tehran air quality", Proceedings of the third International Symposium on Air Quality Management at Urban, Regional and Global Scales , Sep. 26 , 2005 , Turkey .
- 25- A. Hosseinnia, M. Keyanpour-Rad, M. Pazouki, M. Banifatemi,"Preparation of titania nanoparticles for anti bacterial applications ", Proceedings of Iran – India Joint Conf. on Technology Nano, Tehran, April 2008 .

- 26- M. Keyanpour – Rad , S . Keyanpour –Rad ,” Nanofilled resin modified photocurable glass ionomer dental lining cement” , Proceedings of Iran – India Joint Conf. on Nano—Technology , Tehran , April 2008
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- 30- H. Hosseinnia, M. Pasouki, M. Kazemzad and M. Keyanpour-Rad,” Modification in synthesis of anatase titanium oxide and comparison of the synthesis methods”, Nanotechnology and its Applications, First Sharjah International Conference, 2007.
- 31- M. Ahmadifard, M. Keyanpour-Rad,” Direct preparation of epoxy-silica nanocomposite from nanoscale colloidal silica”, 2nd International Congress on Nanoscience and Nanotechanology, Tabriz, Iran, 28-30 October 2008.
- 32- S. H. Aboutalebi, Z. Gholamvand, M. Keyanpour-Rad, F. Hesari,”Characterization of electrospun fibers derived carbon nanofibers”, Presented at National Nanochemistry Conference, Islamic Azad University of Ghods, Shahreyar, Winter 2009.
- 33- M. Ahmadifard, M. Keyanpour-Rad,” Direct preparation of highly loaded nanosilica-epoxy nanocomposite with enhanced mechanical and thermal properties”, Presented at the First International Conference on Multifunctional Hybrid and Nanomaterials, Tours, France, 15-19 March 2009.
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- 75- S.M. Pourkiaii , M. Keyanpour-Rad , “ Simulation of solid oxide fuel cell via neural network ,” Presented at the 3rd National Conference on Fuel , Energy and Environment , MERC , Iran , 2013.
- 76- M.Kiani , A.Zamzamian , M.Keyanpour-Rad,” Increase the efficiency of solar water heater with copper nanofluid” , Presented at the 2nd National Conference on Building and Optimizing Energy Consumption , Tehran, 2013

B. Published Books

- 1- Author of the book,”Precious Metals”, M.E.R.C. Publishing Center, Iran,1988.
- 2- Translator of the book,”Chemical Principals, Vol. 1”, Masterton and Slowinski, University Publishing Center, 1992.
- 3- Translator of the book,”Chemical Principals, Vol. 2,”Masterton and Slowinski”,.University Publishing Center, 2003.
- 4- Translator of the book,”College Chemistry”, Scheum's Outline Series, Amir Kabir Publisher , 2003.
- 5- Author of the book,”NMR Spectroscopy”, Sharif University Publisher, 1998.
- 6- Translator of the book " Air Pollution" University Publishing Center,1992.
- 7- Author of the book " Ceramics Encyclopedia", Azad University Publisher, Tehran 1999.

Memberships

1. Member of the American Chemical Society
2. Member of the Iranian Chemistry and Chemical Engineering Society
3. Member of the Iranian Solar Energy Society
4. Member of the Iranian Polymer Society
5. Member of the Iranian Chemical Engineering Society

6. Member of the American Electrochemical Society
7. Editorial member of International Journal of Engineering
8. Editorial member of Iranian Journal of Materials Science and Engineering
9. Editorial member of the Journal of Materials and Advanced Technology

Awards

1. Distinguished chemist of the year 1972 (Stanford Research Institute , SRI, Menlo Park, California,USA)
2. Distinguished faculty member of the Materials and Energy Research Center, 1992
3. Distinguished professor of Iranian universities and research centers, 1999.