



CURRICULUM VITAE

Updated: September 20th, 2013



1- Personal Information:

- **Name :** Barat Ghobadian
- **Date of Birth:** 25th. Feb. 1957
- **Nationality:** Iranian
- **Status:** Married, two sons and one daughter
- **Designation:** Associate Professor
- **Affiliation:** University of Tarbiat Modares, Tehran
- **Contact address:**
 - Correspondence : P.O. Box: 14115-336. Jalale Ale Ahmad Express Way.
Opposite to the Nasr Bridge. Tehran, I.R. Iran.
 - Emails:
 - § University: ghobadib@modares.ac.ir
 - § Yahoo: bghobadian2004@yahoo.com
 - § Gmail : bghobadian@gmail.com

-Telephones:

§ Tel- 0098(21)48292308 Chamber: 2308 Lab.: 2562

§ Fax-0098(21)48292308

§ Mobile-0098- 9121135306

2- Academic Qualification:

<u>Country</u>	<u>Degree</u>	<u>University</u>	<u>year</u>
B.E. (Ag. Engg.)	Sukhadia	1986	India
M.E. (F.M.P)	Rajasthan	1988	India
Ph.D. (Mech. Engg.)	I.I.T Roorkee	1994	India

3-Topic of dissertation/Thesis:

- **B.E. Dissertation:** Performance Evaluation of one Tonne Solar Dryer
- **M.E. Dissertation:** Design and Development of a Low Horse Power Land Leveller.
- **Ph.D. Thesis:** A Parametric Study on Diesel Engine Noise.

4- Training Courses:

- Renewable and alternative energy training course.
- A Course on Principles of Organization and Management.
- Training staff course, to improve management practices and incentives.
- Introduction to training methods and practical tools, upgrading the processes.
- Quality management training course.
- Specialized training course on diesel engines.
- Training on application of information technology in research and education.
- A course on NVH in Automotive Industry.
- A Training Course on Operational Modal Analysis.

5- Job Experience:

- Associate Professor, Tarbiat Modarres University – Tehran. Iran.
- Head of the Department - Mechanics of Agricultural Machinery

- Engineering, College of Agr.Tarbiat Modares University, Tehran, Iran(1376-1374).
- Advisor for Scientific Research and the mechanization to the Ministry of Jihad Sazandegi (1376 - 1373).
- Advisor for R&D to Managing Director of the Power Train Manufacturing of Iran Khodro Car Manufacturing Group(1381 - 1374).
- Deputy Director in Research and Development(R&D)-Work Educational Research Complex and University.
- Chancellor of the Shahrekord University - State of Chahar Mahal and Bakhtiari (1380 – 1376).
- Vice president for Planning, Education and Parliamentary Affairs- Atomic Energy Organization of Iran (1383 to 1380).
- Consultant to the president of the Atomic Energy Organization of Iran.
- Member of the Supreme Council of Education in the province of Chahar Mahal & Bakhtiari.
- Member of Committee of Civil- Construction and Machinery - Ministry of Jihad Sazandegi.
- Member of the Board for Atomic Energy Organization of Iran High School.
- Head of Information Council, Atomic Energy Organization of Iran.
- Member of government expert commission for infrastructure, industry and environment.
- A member and Head of Education Council, Atomic Energy Organization of Iran.
- Member of the Faculty Research Council of Tarbiat Modarres University (1380-1388).
- Secretary for Reviewing the Ph.D. Mechanical Engineering courses in Agricultural Machinery.
- Designing the cyllabus for energy in agriculture at PhD level in Mechanics of Agricultural Machinery.
- Designing the courses cyllabus for ME level in Bioenergy - University of Tarbiat Modarres.
- Designing the courses cyllabus for Ph.D. level in Bioenergy - University of Tarbiat Modarres.
- Designing the 25 years Biofuels Strategic Plan upto 1404.

- Designing the National Research Center for Renewable Energies- Tarbiat Modarres University.
- Founder of National Biodiesel Laboratory -Tarbiat Modarres University.
- Founder of the National Biodiesel Workshop -Tarbiat Modarres University.
- Advisor to the Managing Director of Mega Motor Company- affiliated to Saipa Group of Car Manufacturing Industries.
- Member of Board of Directors for Mega Motor Company- Saipa Car Manufacturing Group.
- Vice President for Research and Development (R&D)- Megamotor. Powertrain Manufacturing Company affiliated to Saipa Group of Car Manufacturing Industries.
- Execution of national biofuel projects(biodiesel and bioethanol), 2010, Tehran, Iran.
- Scientific member of national renewable technology development board (2011-2014). Tehran, Iran.
- Planning and execution of the national biofuel program for Automotive section(2011).
- Member of the board for the national agricultural self propelled machines(2011).
- University of Tehran faculty member for the Faculty of New Sciences and Technologies(from, 2011).

6- Membership in Academic Societies:

- Iranian Engine Association.
- Iranian Association of Mechanical Engineers.
- Iranian Combustion Institute.
- Energy Committee of the Islamic Republic of Iran affiliated to the International Energy Council.
- Society of Agricultural Machinery and Mechanization- Iran.
- Member of the Central Council of the Islamic Assembly of Students.
- Deputy Secretary for the General Assembly of Iranian University Graduates.
- Member of the Editorial Board, Journal of Biosystem Engineering- Tehran University.

- Member of the Editorial Board, Journal of Agriculture - Tehran University- Abureyhan Campus.
- Member of the Editorial Board, Journal of Agricultural Engineering Research.
- Member of jury for Khwarizmi Festival of Young Award.
- Member of jury for Khwarizmi Festival of International Award.

7- Journals Referee:

- Modares Journal of Technical and Engineering- affiliated to Tarbiat Modarres University.
- Iranian Journal of Chemistry and Chemical Engineering.
- Journal of Engine Research- Affiliated to motor vehicles Research Company of Iran Khodro Car Manufacturing Industrial Group.
- Journal of Agricultural Sciences and Natural Resources, affiliated to Isfahan University of Technology.
- Journal of Agricultural Sciences and Natural Resources, affiliated to University of Agricultural Sciences and Natural Resources of Gorgan.
- Journal of Agricultural Engineering Research, affiliated to Engineering Institute- Ministry of Jihade Agriculture.
- Journal of Agricultural Sciences, affiliated to Islamic Azad University.
- Journal of Agricultural Sciences, affiliated to Faculty of Agriculture, Tehran University.
- The Journal of Agriculture, affiliated to Ahvaz martyr Chamran University.
- Journal of Agriculture, affiliated to Aburayhan Campus of Tehran University.
- Journal of Agricultural Sciences, affiliated to the University of Tabriz.
- Journal of Computer and Electrical Engineering, affiliated to Jihad of University.
- The Journal of Agriculture, affiliated to Ahvaz martyr Chamran University. (Agricultural Engineering).
- A quarterly in Science and Mechanical Engineering Applied Sciences.
- Journal of Agricultural Sciences, College of Agriculture affiliated to Tehran University (Biosystem Engineering).

- Journal of Biomass and Bioenergy.
- Journal of Energy and Fuel.
- Journal of Fuel Processing Technology.
- International Journal of Exergy (IJEX).
- Journal of Agricultural Science and Technology (JAST).
- Iranian Journal of Science and Technology (IJST).

8- Background and Research Interests:

- 1- Mechanical Engineering: Internal Combustion Engines (Fuels, Combustion, NVH, Pollutions).
- 2- Renewable energies: biomass (Biogas, Biofuels: a- Biodiesel, and b- Bioethanol), Solar energy and Wind energy.
- 3- Agricultural Engineering Machineries: test and evaluation of machineries, sprayers and dryers.

9- Papers Published in Journals:

9-1 Journal papers in english language:

- 1- Chegini, G. R. and **Ghobadian B.** (2005). Effect of Spray Drying Conditions on Properties of Orange Juice Powder. *Drying Technology: An International Journal*. Vol.33, Issue No. 3, 2005.
- 2- Hassan Beygi, S. R. and **Ghobadian, B.** (2005). Noise Attenuation Characteristics of Different Road Surfaces during Power Tiller Transport. *CIGR Journal of Scientific Research and Development*. No. VII, March 2005.
- 3- Roostapour, O. R., Hosseinalipour, M. and **Ghobadian, B.** (2006). An Experimental Investigation of lime Juice Drying in a Pilot Plant Spray Dryer. *Drying Technology: An International Journal*. Vol. 24, Issue No. 2, 2006.
- 4- **Ghobadian, B.** and Khatamifar, M. (2006). Biodiesel Fuel Production using Transesterification of Waste Vegetable Oils. *The Journal of Engine Research*. Number 8-9, 2nd/ 3rd year. Winter/Spring 2006. pp. 24-35.

- 5- Hassan Beygi, S. R., **Ghobadian, B.**, Kianmehr, M.H. and Amiri Chayjan, R. (2007). Prediction of a Power Tiller Sound Pressure Level in Octave Bands Using Artificial Neural Networks. *The International Journal of Agriculture and Biology*. Vol. 9, No.3, 2007.
- 6- Chegini, G.R. and **Ghobadian, B.** (2007). Spray Dryer Parameters for Fruit Juice Drying. *World Journal of Agricultural Sciences* 3 (2) : 230-236, 2007.
- 7- Najafi, G., **Ghobadian, B.**, Yusaf, T.F. and Rahimi, H. (2007). Combustion Analysis of a CI Engine Performance Using Waste Cooking Biodiesel Fuel with an Artificial Neural Network Aid. *American Journal of Applied Sciences* 4(10): 756-764, 2007.
- 8- Jafari, A., Khanali, M., **Ghobadian, B.** and Rafiee, Sh. (2007). Design and Development of a New Pump Based on Linear Induction Motor. *International Journal of Agricultural Technology*. Vol. 3, Number 1, June 2007.
- 9- Amiri Chayjan, R., Montazar, G.A., Tavakoli Hashjin, T., Khoshtaghaza, M.H. and **Ghobadian, B.** (2007). Prediction of Pistachio Thermal Conductivity Using Artificial Neural Network Approach. *International Journal of Agriculture and Biology*. Vol. 9, No. 6, 2007.
- 10- Najafi, B., Pirouzpanah, V., **Ghobadian, B.**, Najafi, G., and Yusaf, T. (2007). Experimental Investigation of Performance and Emission parameters of a Small Diesel Engine using CNG and Biodiesel. *SAE and JSAE Transactions*. SAE Paper No. 320075 and JSAE Paper No. 20076557, 2007.
- 11- Chegini, G.R., Khazaei, J., **Ghobadian, B.** and Goudarzi, A.M. (2008). Prediction of Process and Product Parameters in an Orange Juice Spray Dryer Using Artificial Neural Networks. *Journal of Food Engineering*, Vol. 84, Issue 4, pages 534-543.
- 12- Ameri, M., **Ghobadian, B.** and Baratian, I. (2008). Technical Comparison of a CHP Using Various Blends of Gasohol in an IC Engine. *Journal of Renewable Energy*, Volume 33, Issue 7, July 2008, pp 1469- 1474.
- 13- **Ghobadian, B.**, Tavakoli Hashjin, T. and Rahimi, H. (2008). Production of Bioethanol and Sunflower Methyl Ester and Investigation of Fuel Blend Properties.

Journal of Agricultural Science and Technology. Volume 10, pp 225-232.

- 14- Baratian, I., **Ghobadian, B.** and Ameri, M., (2008). Economical Investigation of ICECHP Using Gasohol- A Case Study for Iran. American Journal of Applied Sciences, 5(9): 1206- 1211, 2008.
- 15- **Ghobadian, B.**, Najafi, G., Rahimi, H. and Yusaf, T. F. (2009). Future of Renewable Energies in Iran. Journal of Renewable and Sustainable Energy Reviews, Vol. 13, pp 689-695.
- 16- Rahimi, H., **Ghobadian, B.**, Yusaf, T., Najafi, G. and Khatamifar, M. (2009). Diesterol: An Environmen Friendly IC Engine Fuel. Journal of Renewable Energy, Volume 34, Issue 1, pp 335- 342.
- 17- Hassan Beygi, S. R., **Ghobadian, B.** and Amiri Chayjan, R. (2009). Prediction of a Power Tiller Noise Levels Using Back Propagation Algorithm. Journal of JAST. Vol.11. No. 2, pp. 147- 160.
- 18- **Ghobadian, B.**, Rhimi, H., Nikbakht, A.M., Najafi, G. and Yusaf, T.F. (2009). Diesel engine performance and exhaust emission analysis using waste cooking biodiesel fuel with an artificial neural network. Journal of Renewable Energy, Volume 34, pp 976- 982.
- 19- Roostapour, O. R., Hosseinalipour, M. and **Ghobadian, B.**, Moghadam, F. and Maftoon Azad, N. (2009). A proposed numerical- experimental method for drying kinetics in a spray dryer. Journal of Food Engineering, Volume 90, Issue 1, pp 20- 26.
- 20- Najafi, G., **Ghobadian, B.**, Tavakoli, T., Buttsworth, D.R., Talal, T.F., and Faizollahnejad, M. (2009). Performance and exhaust emissions of a gasoline engine with ethanol blended gasoline fuels using artificial neural network. Journal of Applied Energy. 86(2009). pp. 630- 639.
- 21- Najafi, G., Yusaf, T.F, **Ghobadian, B.** Najmeddin, V.R. and Yusif, B.F. (2009). Performance and exhaust emissions of a SI engine fuelled with potato waste ethanol and Its Blends with Gasoline. International Energy Journal 10(2009) 215-226.

- 22- Najafi, G., **Ghobadian, B.**, Tavakoli, T., and Yusaf, T.F (2009). Potential of bioethanol production from agricultural wastes in Iran. *Journal of Renewable and Sustainable Energy Reviews*, Vol. 13, pp. 1418- 1427.
- 23- Jafari, h., Idris, M.H., Ourdjini, A., Rahimi, H. and **Ghobadian, B.** (2009). Effect of ethanol as gasoline additive on vehicle fuel delivery system. *Journal of Materials and corrosion*. 2009, 60, No. 9999.
- 24- Kiani Deh Kiani, M., **Ghobadian B.**, Tavakoli, T. Nikbakht, A. M, and Najaf. G. (2010). Application of artificial neural networks for the prediction of performance and exhaust emissions in SI engine using ethanol- gasoline blends. *Journal of Energy*. pp. 65-69.
- 25- Nowroozi Ghaleh Babakhani, A., **Ghobadian, B.**, Salahshoor, K. and Mohtasebi, S. (2010). An innovative design of actuation mechanism for active seat suspension of an off-road vehicle. *Journal of Vibro engineering*. Vol. 12, Issue 1, pp. 57-66.
- 26- Mostafaie Maynagh, B., **Ghobadian, B.**, Jahannama, M. R. and Tavakoli Hashjin, T. (2011). Effect of Electronic Induction parameters on Droplets of Charging for Agricultural Application. *Journal of JAST*. Vol.11. No. 3, pp. 249- 257.
- 27- Nikbakht, A.M., Tavakoli Hashjin, T., Malekfar, R., and **Ghobadian, B.** (2011). Nondestructive Determination of Tomato Fruit Quality Parameters Using Raman Spectroscopy. *Journal of Agricultural Science and Technology (JAST)*, Vol. 13, pp. 517-526.
- 28- Jafari H., Mohd Hasbullah Idris M.H., Ourdjini A., Rahimi H., **Ghobadian B.**(2011). Study of Corrosion Behavior of Metallic Materials in Ethanol Blended Gasoline Containing Water as a Contaminant. *Journal of Fuel*, 90(2011), pp. 1181-1187.
- 29- Najafi G., **Ghobadian B.** (2011). Wind energy resources and development in Iran. *Journal of Renewable and Sustainable Energy Reviews*, Vol.15, pp. 2719-2728.
- 30- Safieddin Ardebili M., **Ghobadian B.**, Najafi G. and Chegeni A. (2011). Biodiesel production potential from edible oil seeds in Iran. *Journal of Renewable and Sustainable Energy Reviews*, Vol.15, pp. 3041-3044.

- 31- Najafi G., **Ghobadian B.**, Talal F. Yusaf (2011). Algae as a sustainable energy source for biofuel production in Iran: A case study. *Journal of Renewable and Sustainable Energy Reviews*, Vol.15, pp .3870-3876.
- 32- Najafi G., **Ghobadian B.** (2011). Geothermal resources in Iran: The sustainable future. *Journal of Renewable and Sustainable Energy Reviews*, Vol.15, pp.3946-3951.
- 33- Azadbakht M., Khoshtaghaza M. H., **Ghobadian B.** and Minaei, S. (2011). Relation of Primitive Moisture Content and Energy Consumption on Soybean Pod Threshing. *Journal of Agricultural Science and Technology B 1* (2011) 1086-1090.
- 34- Mortezapour H., **Ghobadian, B.**, Khoshtaghaza, M. H., Minaei, S. (2012). Performance analysis of a two-way hybrid photovoltaic/thermal solar collector. *Journal of Agricultural Science and Technology (JAST)*. Vol. 14, pp 767-780.
- 35- Safieddin Ardebili M., **Ghobadian B.**, Tavakoli hashjin T. and Najafi G. (2012) Determination of Some Mechanical Properties of Castor Seed (*Ricinus communis* L.) to design and fabricate of oil extraction machine. *Journal of Agricultural Science and Technology (JAST)*. Vol. 14, issue 6, pp 1219-1227.
- 36- **Ghobadian, B.** (2012). Developmental Trends of Sustainable Bioenergy Systems at TMU Laboratories. *Journal of Sustainable Bioenergy Systems*, Vol. 2 No. 2, 2012, pp. 11-18.
- 37- Abbaszadeh Mayvan, A.; Motevali, A.; **Ghobadian, B.**, Khoshtaghaza, M. H., and Minaei, S. (2012). Effect of Air Velocity and Temperature on Energy and Effective Moisture Diffusivity for Russian olive (*Elaeagnus gastifolial* L.) in Thin-Layer Drying. *Iran. J. Chem. Chem. Eng.* Vol. 31, No. 1, 2012. pp 75- 79.
- 38- **Ghobadian, B.** (2012). Liquid biofuels potential and outlook in Iran. *Journal of Renewable and Sustainable Energy Reviews*, Volume 16, Issue 7, pp 4379-4384.
- 39- Motevali, A. Abbaszadeh A., Minaei S., Khoshtaghaza M.H., and **Ghobadian B.** (2012). Effective Moisture Diffusivity, Activation Energy and Energy Consumption in Thin-layer Drying of Jujube (*Zizyphus jujube* Mill). *J. Agr. Sci. Tech.* (2012) Vol. 14: 523-532.

- 40- Motevali, A. Abbaszadeh A., Najafi, G., Minaei S., and **Ghobadian B.** (2012). Drying of Jujube (zizyphusjujube mill) Fruit: Comparison of Prediction from Mathematical Models and Artificial Neural Networks. *Australian Journal of Crop Science*, 6(2); 210-218, 2012.
- 41- Nematizade P., **Ghobadian B.** and Najafi G. (2012). Investigation of Fossil Fuel and Liquid Biofuel Blend Properties Using Artificial Neural Network. *International Journal of Automotive and Mechanical Engineering (IJAME)* ISSN: 2229-8648 (Print); ISSN: 2180-1606 (Online); Volume 5, pp. 639-647, January-June 2012.
- 42- Morteza pour H., **Ghobadian B.**, Minaei S. and Khoshtaghaza M.H. (2012). Saffron Drying with a Heat Pump–Assisted Hybrid Photovoltaic–Thermal Solar Dryer. *Drying Technology*, 30: 560–566, 2012.
- 43- Fayyazi E., **Ghobadian B.**, Najafi G., Hosseinzadeh B., and Montazeri M. (2012). Modelling and evaluation of some effective parameters on reactor design for optimized utilization of ultrasonic waves. *Journal of Mechanical Engineering, Elixir Mech. Engg.* 49 (2012) 9734-9738.
- 44- Taghizades- Alisaraei A., **Ghobadian B.**, Tavakoli Hashjin T. and Mohtasebi S.S. (2012). Vibration Analysis of a Diesel Engine Using Biodiesel and Petrodiesel Fuel Blends. *Journal of Fuel*. 102 (2012) 414–422.
- 45- Abbaszadeh Mayvan A., **Ghobadian B.**, Omidkhah M.R. and Najafi G. (2012). Current Biodiesel Production Technologies: A Comparative Review. *Journal of Energy Conversion and Management*, 63(2012), 138-148.
- 46- Kiani Deh Kiani M., **Ghobadian B.**, Ommi F., Najafi G., Yusaf T. (2012). Artificial Neural Networks Approach for the Prediction of Thermal Balance of SI Engine Using Ethanol-Gasoline Blends. (A book chapter by Gerald Quirchmayr, Josef Basl, Il sun You, Lida Xu, Edgar Weippl (Eds.): *Multidisciplinary Research and Practice for Information Systems - IFIP WG 8.4, 8.9/TC 5 International Cross-Domain Conference and Workshop on Availability, Reliability, and Security, CD-ARES 2012, Prague, Czech Republic, August 20-24, 2012. Proceedings. Lecture Notes in Computer Science 7465 Springer 2012, ISBN 978-3-642-32497-0. pp 31-43.*

- 47- Shojaeefard M.H., Etghani M.M, Akbari M., Khalkhali A., and **Ghobadian B.** (2012). Comparative study of the combustion, performance, and emission characteristics of a variable compression ratio engine fuelled with diesel, corn oil methyl ester, and palm oil methyl ester. *Journal of Renewable and Sustainable Energy* 4, 063130 (2012); <http://dx.doi.org/10.1063/1.4769200> (19 pages) Online Publication Date: 29 November 2012.
- 48- Shirneshan A., Almassi M., **Ghobadian B.**, Borghei A.M. and Njafi G. (2012). Effects of Biodiesel and Engine Load on Some Emission Characteristics of a Direct Injection Diesel Engine. *Journal of Current World Environment*. Vol. 7(2), 207-212 (2012).
- 49- Azadbakht M., Khoshtaghaza M.H., **Ghobadian B.**, Minaei M. (2012). Mechanical Properties of Soybean Pod as a function of Moisture Content and Energy. *Journal of Agricultural Technology*, 2012 Volume 8(4): 1217-1228.
- 50- Yahyae R., **Ghobadian B.** and Najafi G. (2013). Waste Fish oil Biodiesel as a source of renewable fuel in Iran. *Journal of Renewable and Sustainable Energy Reviews*. 17 (2013) 312–319.
- 51- Shirneshan A., Almassi M., **Ghobadian B.**, Borghei A.M., Najafi G. (2013). Effect of Waste Cooking Oil Methyl Ester, Engine Speed and Engine load on CO and NOx Emissions of a Diesel Engine. *Life Science Journal* 2013; 10 (6s). Available online at <http://www.lifesciencesite.com>.
- 52- Zenouzi A., **Ghobadian B.** and Hejazi M.A. (2013). Harvesting of Microalgae *Dunaliella salina* Using Electroflocculation. *Journal of Agricultural Science and Technology (JAST)*. Vol. 15, No. 5.
- 53- Hematian R., Fayyazi E., Hosseinzadeh B., Najafi G. and **Ghobadian B.** (2013). Study of Shearing Strength of Sugarcane Stem Using Nano-coated Knives. *Technical Journal of Engineering and Applied Sciences*. 2013-3-3/249-258. Available online at www.tjeas.com.
- 54- Heidary B., Hassan-Beygi S. R., **Ghobadian B.** (2013). Ergonomic characteristics and operator body fatigue against two-wheel tractor vibration. *International Journal of Agriculture and Crop Science*. IJACS/2013/5-4/370-376. Available online at www.ijagcs.com.

- 55- Azadbakht M., Khoshtaghaza M.H., **Ghobadian B.**, Minaei M. (2013). Thermal Properties of Soybean Pod as a Function of Moisture Content and Temperature. *American Journal of Food Science and Technology*, 2013, Vol. 1, No. 2, 9-13.
- 56- Nematizade P., **Ghobadian B.**, Ommi F., Najafi G. (2013). Performance and exhaust emissions of a spark ignition engine using G-Series fuel (mixtures of gasoline, bioethanol, biodiesel and diesel). *International Journal of Automotive Engineering and Technologies*. Vol. 2, No 2 (2013).
- 57- Nematizade P., **Ghobadian B.**, Ommi F., Najafi G. (2013). Performance and exhaust emissions of a spark ignition engine using G- Series and E20 fuels. *International Journal of Automotive Engineering and Technologies*. Vol. 2, Issue 2 (2013).
- 58- Hassan-beygi S.R., Istan V., **Ghobadian B.**, Aboonajmi M. (2013). An experimental investigation of Perkins A63544 diesel engine performance using D-Series fuel. *Journal of Energy Conversion and Management*. Volume 76, December 2013, Pages 356–361.
- 59- Rajaei-Far M.A., Akram A., Barat **Ghobadian B.**, Rafiees S., Mohammad Heidari M.D. (2013). Optimization of Energy Consumption for Table Olive Production Using Data Envelopment Analysis (DEA) Approach. *International Journal of Agronomy and Plant Production*. Vol., 4 (8), 1910-1919, 2013.
- 60- Mohamdi M., **Ghobadian B.**, Janzadeh R. and Najafi G. (2013). Micro Combined Heat and Power (MCHP) Technologies and Applications. *Journal of Renewable and Sustainable Energy Reviews*. Volume 28, December 2013, Pages 510–524.
- 61- Mohamdi M., **Ghobadian B.**, Janzadeh R. and Najafi G. (2013). Potential of biogas production in Iran. *Journal of Renewable and Sustainable Energy Reviews*. 28(2013)702–714.
- 62- Khafajeh H., Banakar A., **Ghobadian B.** and Motevali A. (2013). Drying of Orange Slices in CHP Dryer. *Journal of Advances in Environmental Biology*, 7(9): 2326-2331, 2013.
- 63- Samadi S.H., **Ghobadian B.**, Najafi G., Motevali A. (2013). New Method to Save Energy with CHP Dryer in Drying Agriculture Product. *Advances in Environmental Biology*, 7(9): 2332-2340, 2013.
- 64- Samadi S.H., **Ghobadian B.**, Najafi G., Motevali A., and Faal S. (2013). Drying of Apple Slices in Combined Heat and Power (CHP) Dryer: Comparison of

Mathematical Models and Neural Networks. Chemical Product and Process Modeling 2013; 8(1): 1–12.

- 65- Ahmadian, H., Hassan-Beygi, S.R., **Ghobadian, B.** (2013). Power tiller vibration acceleration envelope curves on transportation mode. Journal of Vibroengineering. September 2013, volume 15, issue 3.
- 66- Dehghani M., Sabzi Maleki M.R., **Ghobadian B.**, Najafi G., Tavakoli Hashjin T. (2013). The Feasibility of Using Biolubricants Instead of the Available Lubricants with the Help of the Multi-criteria Decision Making Software, TOPSIS. International journal of Agronomy and Plant Production (IJAPP), Vol., 4 (8), 2054-2060.
- 67- Motevali A., Minaee S., Dehghani Soufi M., **Ghobadian B.**, and Khoshtaghaza M.H. (2013). Investigation of Thermal Utilization Efficiency in Different Drying Methods of Pomegranate Arils. International journal of Agronomy and Plant Production (IJAPP), Vol., 4 (8), 2046-2053.
- 68- Samadi S.H., **Ghobadian B.**, Najafi G. and Faal S. (2013). Modelling of Micro Combined Heat and Power Systems (MCHP) for Residential Application Using a Gas Internal Combustion engine. Journal of Mechanical Engineering and Automation. Scientific and Academic Publishing. Available online at <http://www.Sapub.org>.
- 69- Rajaeifar M.A., **Ghobadian B.**, Heidari M.D. and Fayyazi E. (2013). Energy consumption and greenhouse gas emissions of biodiesel production from rapeseed in Iran. Journal of Renewable and Sustainable Energy, Volume 5, Issue 6 (2013).
- 70- Nematizade P., **Ghobadian B.**, Omni F., Najafi G. (2013). Investigation of some of the properties of fossil fuels and biofuels blends to use in SI engines. International Journal of Automotive Engineering and Technologies. Volume 2, Issue 4, pp.92-103(2013).
- 71- Heidary B., Hassan-Beygi S. R., **Ghobadian B.** (2013). Investigating a power tiller vibration transmissibility using diesel-biodiesel fuel blends on stationary conditions. Technical Journal of Engineering and Applied Sciences, Vol. 3, No. 10, pp. 877-884.
- 72- Heidary B., Hassan-beygi S.R., **Ghobadian B.** and Taghizadeh A. (2013). Vibration analysis of a small diesel engine using diesel-biodiesel fuel blends. September, 2013 Agric Eng Int: CIGR Journal Open access at <http://www.cigrjournal.org> Vol. 15, No.3 117.

- 73-** Mostafaei B., **Ghobadian B.**, Barzegar M., Banakar A. (2013). Optimization of Ultrasonic Reactor Geometry for Biodiesel Production Using Response Surface Methodology. *J. Agr. Sci. Tech.* (2013) Vol. 15: 697-708. 697.
- 74-** Fayyazi E., **Ghobadian B.**, Najafi G., Hosseinzadeh B. and Mostafaie B. (2013). Genetic Algorithm Approach to Optimize Biodiesel Production Using Ultrasonic System. *Journal of Chemical Products and Process Modelling*. Pages 1–12, ISSN (Online) 1934-2659, ISSN (Print) 2194-6159, DOI: [10.1515/cppm-2013-0043](https://doi.org/10.1515/cppm-2013-0043), January 2014.
- 75-** Zare M., Fayyazi E., **Ghobadian B.**, Najafi G. (2013). Microwave-assisted Biodiesel Fuel Production from Waste Cooking Oil. *International Journal of Agriculture and Crop Sciences*. Available online at www.ijagcs.com IJACS/2013/5-12/1314-1317. ISSN 2227-670X ©2013 IJACS Journal.
- 76-** Abbaszadeh A., **Ghobadian B.**, Najafi G. and Motevali A. (2013). Design, Fabrication and Evaluation of a Novel Biodiesel Processor System. *International Journal of Renewable Energy Technology Research* Vol. 2, No. 12, December 2013, PP: 249-255, ISSN: 2325-3924 (Online) Available online at <http://ijretr.org>.
- 77-** Abbaszadeh Mayvan A., **Ghobadian B.**, Najafi G. (2013). High Voltage/Low Amperage Current for Separation of Crude Glycerin from Biodiesel. *Journal of Advances in Environmental Biology*, Vol. 7, No. 13, pp. 4028-4031.
- 78-** Abbaszadeh Mayvan A., **Ghobadian B.**, Najafi G., Motevali A. (2013). Analytical And FEM Design Of Mixing System In STR Biodiesel Production. *Advances in Environmental Biology*, 8(1) January 2014, Pages: 325-334
- 79-** Hemmat Y., **Ghobadian B.**, Loghavi M., Kamgar S. and Fayyazi E. (2013). Biodiesel Fuel Production from Residual Animal Fat as an Inedible and Inexpensive Feedstock. *International Research Journal of Applied and Basic Sciences* © 2013 Available online at www.irjabs.com ISSN 2251-838X / Vol, 5 (1): 84-91 Science Explorer Publications.
- 80-** Samadi S.H., **Ghobadian B.**, Najafi G. (2013). Application of Combined Heat and Power for Drying Agricultural Products (apple slices) to Save Energy. *International Journal of Natural and Engineering Sciences* 7 (2): 86-92, 2013. ISSN: 1307-1149, E-ISSN: 2146-0086, www.nobel.gen.tr.
- 81-** Zarein M., Samadi S.H. and **Ghobadian B.** (2013). Kinetic Drying and Mathematical Modeling of Apple Slices on Dehydration Process. *Journal of Food*

Processing & Technology. 2013, 4:7. Available online at [http:// dx.doi.org /10.4172/2157-7110.1000247](http://dx.doi.org/10.4172/2157-7110.1000247).

- 82-** Montazeri M., Banakar A. and **Ghobadian B.** (2013). Design and Evaluation of a New Absorber Plate for Cascade Solar Still. Technical Journal of Engineering and Applied Sciences Available online at www.tjeas.com ©2013 TJEAS Journal-2013-3-15/1666-1675 ISSN 2051-0853 ©2013 TJEAS.
- 83-** **Ghobadian B.**, Najafi G. and Nayebi M. (2013). A Semi- Empirical Model to Predict Diesel Engine Combustion Parameters. Journal of Mechanical Engineering and Sciences (JMES). Volume 4, pp. 373-382, June 2013.
- 84-** Samadi S.H., **Ghobadian B.**, Najafi G. and Motevali A. (2013). Potential saving in energy using combined heat and power technology for drying agricultural products (banana slices). Journal of the Saudi Society of Agricultural Sciences (2013) xxx, xxx–xxx. Received 3 April 2013; accepted 4 September 2013.
- 85-** Shadidi B., Yusaf T., Haji Agha Alizadeh H. and **Ghobadian B.** (2014). Experimental investigation of the tractor engine performance using diesohol fuel. Journal of Applied Energy, 114 (2014), 874-879.
- 86-** Abbaszadeh Mayvan A., **Ghobadian B.**, Najafi G. (2014). Electrostatic Coagulation for Separation of Crude Glycerin from Biodiesel. Advances in Environmental Biology, 8(1) January 2014, Pages: 321-324.
- 87-** Rajaeifar M.A., **Ghobadian B.**, Safa M. and Heidari M.D. (2014). Energy life Cycle Assessment and CO₂ Emissions Analysis of Soybean Based Biodiesel: A Case Study. Journal of Cleaner Production. Volume 66, 1 March 2014, Pages 233–241.
- 88-** Feizollahnejad M., **Ghobadian B.**, Zenouzi A. and Motevali A. (2014). Comparison of mist circulation biodiesel water washing with traditional methods. Research Journal of Agriculture and Environmental Management. Volume 3(1), pp. 042-048.
- 89-** Gorjian S. Tavakoli Hashjin T. and **Ghobadian B.** and Banakar A. (2014). Thermal Performance Evaluation of a Medium-Temperature Point-focus Solar Collector Using Local Weather Data and Artificial Neural Networks. International Journal of Green Energy. DOI: 10.1080/15435075.2013.848405. Accepted author version posted online: 10 Feb 2014, Published online: 10 Feb 2014.

- 90- Abdoli, M. A., Mohamadi, F., **Ghobadian B.** and Fayyazi, E. (2014). Effective Parameters on Biodiesel Production from Feather fat oil as a Cost-Effective Feedstock. *Int. J. Environ. Res.*, 8(1):139-148, Winter 2014 ISSN: 1735-6865.
- 91- Rajaeifar M.A., Akram A, **Ghobadian B.**, Rafiee Sh. and Heidari M.D. (2014). Energy-economic life cycle assessment (LCA) and greenhouse gas emissions analysis of olive oil production in Iran. *Journal of Energy*, Volume 66, 1 March 2014, Pages 139–149.
- 92- Mortezapour H., **Ghobadian B.**, Khoshtaghaza M.H., and MinaeiS. (2014). Drying Kinetics and Quality Characteristics of Saffron Dried with a Heat Pump Assisted Hybrid Photovoltaic-thermal Solar Dryer. *J. Agr. Sci. Tech.* (2014) Vol. 16: 33-45.
- 93- Shirneshan A., Almassi M., **Ghobadian B.**, Borghei A.M., and Najafi G. (2014). Investigating the Effects of Biodiesel from Waste Cooking Oil and Engine Operating Conditions on Emission Characteristics of a Diesel Engine by Response Surface Methodology. *Environmental Engineering and Management Journal*. Accepted for publication. Available online at <http://omicron.ch.tuiasi.ro/EEMJ>.
- 94- Heidary B., Hassan-Beygi S. R., **Ghobadian B.** (2014). Investigating operator vibration exposure time of 13 Hp power tiller fuelled by diesel and biodiesel blends. *Journal of Research in Agriculture Engineering*. IN PRESS, 2014.
- 95- Safieddin Ardebili S.M., Tavakoli Hashjin T., **Ghobadian B.** and Najafi G. (2014) Castor Oil Biodiesel Production by Ultrasonic-Microwave. *Journal of Middle East Applied Science and Technology (JMEAST)*. Issue 6(3), March 2014, pp. 149-155.
- 96- Kiani Deh Kiani M., **Ghobadian B.**, Ommi F. and Najafi G. (2013). Application of Genetic programming to predict an SI engine brake power and torque using ethanol-gasoline fuel blends. *International Journal of Natural and Engineering Sciences* 7 (3): 07-15, 2013.
- 97- Gorjian S. Tavakoli Hashjin T. and **Ghobadian B.** and Banakar A. (2014). Thermal Performance Evaluation of a Proposed Point- Focus Solar Collector for Low Power Application. *IJST, Transactions of Mechanical Engineering*. Vol. 38, No. M1, pp 263- 268.
- 98- Faal S., Tavakoli Hashjin T. and **Ghobadian B.** (2014). Mathematical Modelling of Thin layer Hot Air Drying Apricot with Combined Heat and Power Dryer. *The Journal of Food Science Technology*.
- 99- Motevali A., Minaei S., Banakar A., Ghobadian B. and Khoshtaghaza M.H. (2014). Comparison of Energy Parameters in Various Dryers. *Journal of Energy Conversion and Management*. Accepted for Publication.
- 100- Abbaszadeh A., **Ghobadian B.**, Najafi G. and Yusaf T. (2014). An Experimental Investigation of the Effective Parameters on Wet Washing of

Biodiesel Purification. International Journal of Automotive and Mechanical Engineering (IJAME) ISSN: 2229-8649 (Print); ISSN: 2180-1606 (Online); Volume 9, pp. 1525-1537, January-June 2014 ©Universiti Malaysia Pahang DOI: <http://dx.doi.org/10.15282/ijame.9.2013.4.0126>.

9-2 Journal papers in persian language:

- 1- **Ghobadian, B.**, and Mohammadi Mazrae, H. (1379). Designing a chair for balance charging off-road machines. Journal of Agricultural Science teacher. First period, the third number, Spring 1379.
- 2- **Ghobadian, B.**(2000); “Brain Drain Phenomenon or Brain Rebuttal?”; Journal of Science, Research & Technology. Affiliated to the Ministry of Science, Research and Technology (in Persian).
- 3- Sakenian Dehkordi, N., **Ghobadian, B.**, and Minaei, S. (1380). Evaluation factors soil moisture storage. Journal Science and Agricultural and Natural Resources. Fifth year, the second number, Summer 1380.
- 4- Chegini, Gh. R. , **Ghobadian, B.**, and Barkateyn, M. (1382). Factors affecting the deposition of orange juice powder Spray dryer wall. Journal of Agricultural Sciences and Natural Resources. The seventh / Number IV / Winter 1382.
- 5- **Ghobadian, B.**, Chegini, Gh. R., and Tavakoli Hashjin, T. (1382). Design, construction and evaluation Spray dryer juices. Journal of Agricultural Sciences. In the ninth number (4), Winter 1382.
- 6- Hasanbeygi Bidgoli, S. R., **Ghobadian, B.**, Nasiri, P., and Kamalian, (1383). Analysis and noise prediction models provide a two-wheel tractor. Journal of Agricultural Sciences and Natural Resources. In the eighth, Number IV, Winter 1383.
- 7- Momeni Abkharki, D., **Ghobadian, B.**, Hammat, A., and Minaei, S. (1383). Manufacturing semi-automatic differential lock for Copper Ferguson 382 tractor. Journal of Agricultural Sciences and Natural Resources. In the eighth, Number IV, Winter 1383.
- 8- Hasanbeygi Bidgoli, S. R, **Ghobadian, B.**, and Kamalian, N(2004) Model predicted

noise level Tractor Rim Road in rural soil. Journal of Agricultural Sciences. The tenth, Number II, Summer 1383.

- 9- Sheikh Davoudi, M. J., Minaei, S., Almasi, M., and **Ghobadian, B.** (1384). Construction and evaluation system to measure the full study earth charisma process under controlled conditions. Journal of Agriculture. Volume 28, Number (1), Summer 1384.
- 10- Rostami Kondori, S., and **Ghobadian, B.** (1384). Design, construction and evaluation of differential lock control mechanism. Scientific Research Agricultural Sciences journal. Year XI, No. (1), Spring 1384.
- 11- Roostapour, A. R., **Ghobadian, B.**, Khoshtaghaza, M. H., and Fakhrpour, GH. (1384). Determine the thermal properties - physical sour lemon. Journal of Agricultural Sciences, No. (4), Year 36, 1384.
- 12- Roostapour, A. R., and **Ghobadian, B.** (1384). Determine the thermal conductivity of water with lemon Astvanhhay time axis. Accepted for printing in future volumes of Journal of Agricultural Sciences.
- 13- Younesi Alamouti, M., Khoshtaghaza, M. H., and **Ghobadian, B.** (1385). Damping properties of wheat straw at different levels and Dubai density spraying water spray cone. Journal of Agricultural Engineering Research. Volume 7, Number 27, Summer 1385.
- 14- Imanmehr, A., **Ghobadian, B.**, Minaei, S., and Fardmal, J, Vol. (1385). Determine the physical properties of grain kolza (Lykvrđ varieties). Journal of Agricultural Engineering Research. Volume 7, Number 29, Winter 1385.
- 15- Najafi, G., **Ghobadian, B.**, Nikbakht, A.M. and Rahimi, H. (1385). Compression ignition engine performance analysis using a mixture of diesel fuel - biodiesel with artificial neural networks method. Journal of the engine research. Third year, numbers 10 and 11, summer and autumn of 1385. pp. 6-15.
- 16- Chegini, Gh. R., and **Ghobadian, B.** (1386). Mathematical model to estimate ignition delay period in a small diesel engine direct spraying. International Journal of Science and Technology. No. 3, Volume 18. Autumn 1386.

- 17- Taghizadeh AliSoraei, A., Tavakkoli Hashjin, T., and **Ghobadian, B.** (1386). Universal tractor seat vibration review my 650. Journal of Agricultural Sciences. Volume 38, Year 1386.
- 18- Taghizadeh AliSoraei, A., Tavakkoli Hashjin, T., and **Ghobadian, B.** (1386). Daily exposure to vibration analysis of tractor user with Rim. Journal of Agricultural Engineering Research. Volume 8, Number 4, Winter 1386.
- 19- Najafi, B., Pirooz Panah, V ., and **Ghobadian, B.** Experimental study of performance and emission parameters of diesel engine using alternative fuel biodiesel. Journal of Engineering lecturer. No. 28, Summer 1386, pp 79-91.
- 20- Imanmehr, A., **Ghobadian, B.** and Khoshtaghaza, M. H. Design, construction and evaluation of canola seed pneumatic conveyors. Journal of Agricultural Engineering Research. Volume 8, Number 4, Winter 1386. pp 33-46.
- 21- Agha Mostafaei Meynagh, B., **Ghobadian, B.**, and Jahannama, M. R. Design and Construction and Evaluation of greenhouse electrostatic sprayer drops pregnancy. Journal of Agricultural Science Faculty of Agriculture affiliated to Tabriz University. Number 1, Vol.17, Year 1387. pp 229-242.
- 22- Sadeghi, A., Tavakkoli Hashjin, T, **Ghobadian, B.**, Khoshtaghaza, M. H. and Minaei. S. Heat conductivity coefficient design mass Pvsstgyry not pistachio. Journal of Agricultural Science Faculty of Agriculture affiliated to Tabriz University. Number 1, Volume 17, Year 1387. pp 215-227.
- 23- Zonouzi, A., **Ghobadian, B.** and Tavakkoli Hashjin, T. Impact of waste oil methyl ester function (1386).Tractor engine. Journal - Research "Technical - Engineering affiliated to Tarbiat Modarres University lecturer." Tehran. Iran.
- 24- Zonouzi, A., **Ghobadian, B.** And Tavakkoli Hashjin, T., Feyzollah Nejad, M.. and Bagherpour, H. Impact Combination of diesel and biodiesel fuels derived from waste oils in the engine combustion performance Density (CI). Journal - fuel and combustion research. In the first year, the first number, Persian date Shahrivar 1387, Tehran. Iran. pp. 53-59.
- 25- Kiani Deh Kiani, M., **Ghobadian, B.**, Rahimi. H., and Najafi, Gh. A review of

- pollutants a spark ignition engine using Gazvl. Journal - Research and combustion of fuel. First year, the first number, Persian date Shahrivar 1387, Tehran. Iran. pp 33-40.
- 26- Nikbakht, A.M., Tavakkoli Hashjin, T., Malekfar, R. and **Ghobadian, B.**(1389). Application of Raman spectroscopy to study the non-destructive tomato qualitative parameters. Vol. 7, No. 4, Winter 1389. Iranian Journal of Food Science and Food Technology.
- 27- Zeraatkari Fard, M.H and **Ghobadian, B.** (1387). Designing the land leveler Bucket Suitable for MF258 Tractor. Journals of Agricultural Sciences (Biosystem Engineering Journal), Volume 39, Number 3, Year 1387.
- 28- Feyzollah Nejad, M., **Ghobadian, B.**, Tavakkoli Hashjin, T., Bagherpour, H. and Zonouzi, A. Study effective leaching parameters biodiesel fuel. Journals of Agricultural Sciences (Journal of Biosystem Engineering Journal), Volume 40, Number 2, Year 1388.
- 29- Taghizadeh AliSoraei, A., Tavakkoli Hashjin, T., and **Ghobadian, B.** (1389). Analysis of power tiller vibration at stationary condition. Journals of Agricultural Sciences (Journal of Biosystem Engineering Journal), Volume 41, Number 1, Year 1389.
- 30- Bagherpour, H., **Ghobadian, B.**, Tavakoli Hashjin, T., Mohammadi, Abbas , Feyzollah Nejad, M. and Zonouzi, A. (1389) Optimization of effective parameters in the production of biodiesel fuel using Astryfykasyvn Trans. Journals of Agricultural Sciences (Journal of Biosystem Engineering Journal), Volume 41, Number 1, Year 1389.
- 31- Saiedi, M.R., **Ghobadian, B.**, Tavakoli Hashjin,T. and Khoshbakhti Saraie, R.(1388). An experimental investigation of a diesel engine ignition delay using biodiesel and diesel fuels. Journal of Fuel and Combustion. Vol.2, Number 1. Spring and Suumer 2009, Tehran. Iran. Pp 55-68.
- 32- Saiedi, M.R., **Ghobadian, B.**, Tavakoli Hashjin,T. and Najafi, G.(1388). Experimental investigation of the performance parapeters of a diesel engine using

biodiesel fuel. Journal of the engine research. 5th year, numbers 29, summer and autumn of 1388. Pp 29-35.

- 33-**Rostami S., **Ghobadian B**, Savadkouhi, L. and Ebrahimi R. (2010). Experimental study of the impact of fuel injection pressure on the performance of a diesel engine using biodiesel blended fuels and diesel. Journal of Engine Research. 6th year, number 21, Winter 2010. pp 73- 82.
- 34-**Rahnama, M., Khoshtaghaza, M.H and **Ghobadian, B.** (2011). Absorption and Desorption Equilibrium Moisture Content and Isoteric Heat of Estamaran Date. Iranian Journal of Food Science and Food Technology. Vol. 8, No. 1, Spring 2011.
- 35-**Taghizadeh AliSoraei, A., Tavakkoli Hashjin, T., **Ghobadian, B.** Mohtasebi S.S and Kazemi, M. (2012). Simulation of vibration for a diesel engine with biodiesel and diesel fuel blends using artificial neural networks. Journal of Engine Research. 7th year, number 23, 2012.
- 36-**Moosavian S.A., Najafi G., Ghobadian B., Jafari S.M. Sakhaei B. and Khazae M. (2012). Fault Diagnosis in Engine Spark Plug by Vibration Analysis Using Neural Network. The Journal of Engine Research, Vol. 28 (Autumn 2012), pp. 21-29.
- 37-**Rostami S., **Ghobadian B**, Savadkouhi, L. and Ebrahimi R. (2012). Regression Analysis of a Diesel Engine Performance Using biodiesel and Fuel Injection Time variation. The Journal of Researches in Mechanics of Agricultural Machineries. Vol. 1, No. 1 Autumn and Winter 2012. Pp41-48.
- 38-**Kiani Deh Kiani M., **Ghobadian B.**, Ommi F. and Najafi G.(2012). Modeling of an SI engine performance parameters and emissions using bio-ethanol-gasoline blends by genetic programming. The Journal of Engine Research, Vol. 27 (summer 2012), pp. 47-57.
- 39-**Mousavi S.Y., Tajbaksh, M. and **Ghobadian, B.** (2012). Investigation of yield and yield components of Iranian castor varieties using combined analysis of variance method. Journal of Plant Production Research. Affiliated to Ahwaz Shahid Chamran University. Under press.
- 40-**Zenouzi A., Hejazi M.A. and **Ghobadian B.** (2012). Optimizing Electric

Coagulation parameters to Harvest Micro Algae from Medim for the edible Products Purpose. Journal of Food Science and Food Technology. Iranian Journal of Food Science and Food Technology. Vol. 10, No. 40, Spring 2013.

10- Papers published in Cinfereces:

10-1 Papers in english language:

- 1- **Ghobadian, B.** and Singh P.(1988). Design and Development of a Low Horse Power Land Leveler. Proceeding of National Seminar on Problems in Irrigation Managemant of Command Areas. 20 Feb. 18-20, 1988. Udaipur, India.
- 2- Dubey, O.P., **Ghobadian, B.**, Bhathacharya M., and Mehta, P.S. (1991). An Experimental Investigation of Engine Noise and Exhaust Smoke on a Small DI Diesel. SAE Paper No. 911255, 1991.
- 3- **Ghobadian, B.**, Singh, N., Bhattacharya, M., Mehta, P.S., and Jain, S.C. (1992). An Efficient Instrumentation Scheme for Noise and Vibration Study in an I.C. Engine. All Indi, Applied Instrumentation Conference. Feb.14-15, 1992. Roorkee, India.
- 4- **Ghobadian, B.**, Bhattacharya, M., Singh, N., and Jain, S.C. (1992). Structural Attenuation Characteristics of a Small Single Cylinder DI Diesel Engine. Proceeding of the 7th National Conference on IC Engines and Combustion. Sep.15-18: 1992. Dehra Dun, India.
- 5- Bhattacharya, M., **Ghobadian, B.**, Jain, S.C., Singh, N. and Mehta, P.S. (1992) An Estimation of Combustion and Mechanical Noise Components of A small DI Diesel. Proceeding of the National Symposium on Acoustics (NSA 92), Dec. 13-14 , 1992. Madras, India.
- 6- **Ghobadian, B.**, Jain, S.C., Bhattacharya, M., Singh, N. and Mehta, P.S. (1993). A Comprehensive Solution Approach to Engine Noise Investigation. SETC Conference. SAE Paper No. 931571, 1993. Pisa, Italy.
- 7- **Ghobadian, B.** (1994). The Parametric Dependence of Diesel Engine Noise. The 3rd International Congress on Air- and Structure Borne Sound and Vibration. June 13-15, 1994. Montral, Canada.
- 8- **Ghobadian, B.**, Bhattacharya, M., Jain, S.C. and Mehta, P.S. (1995). A

Parametric Study of Engine Noise and Its Combustion Components. SETC Conference. SAE Paper No. 951759, 1995. Milwaukee, USA.

- 9- Jain, S.C., Bhattacharya, M., Joshi, N.K., Singh, N. and **Ghobadian, B.** (1995). Estimation of Structure Borne Sound Transmission in a small DI Diesel Using Motored and Running Engine Techniques. SETC Conference. SAE Paper No. 951756, 1995. Milwaukee, USA.
- 10- **Ghobadian, B.**, Bhattacharya, M., Jain, S.C. and Mehta P.S. (1995). Dependence of Engine Noise on Cylinder Pressure and Its Derivatives: An Experimental Study. Proceeding of the 9th ISME Conference. November, 10-1, 1995. Roorkee, India.
- 11- **Ghobadian, B.**, and Araghi M.K. (1996). Subsoiling Practice for Water Harness and Soil Conservation Management. Proceeding of the 5th International Conference on Rainwater Catchment Systems. April 25-29, 1996. Tehran, Iran.
- 12- **Ghobadian, B.**, Bhattacharya, M., Jain, S.C. and Mehta P.S. (1997). Correlation Based Methods to Predict Engine Combustion Noise. International Conference on Advances in Mechanical and Industrial Engineering. February, 6-8' 1997. Roorkee, India.
- 13- **Ghobadian, B.**, and Sakenian N. (2001). A New Approach to Pasture lands Soil Conservation and Run-Off Management. The 2nd International. Iran and Russia Conference. February, 1-2' 2001. Moscow, Russia.
- 14- **Ghobadian, B.** (2002) Iran's Policy on Renewable Energy Development. A two day Conference on Iran Energy Forum, Upstream and Downstream, May 27 – 28' 2002. London, England.
- 15- **Ghobadian, B.** , and Jafari A. , Field Crop Pest and Insect Control-Using Motorcycle Sprayer. The 3rd International Iran and Russia Conference, Sep.18-20th, 2002. Moscow, Russia.
- 16- **Ghobadian, B.** and Rahimi, H.(2004). Biofuels-Past, Present and Future Perspective. The 4th International Iran and Russia Conference. September 8-10, 2004. Shahrkord, Iran.
- 17- **Ghobadian, B.**, and Emami, M.R. (2004). Design of Forest Trees Cutting Mechanism.The 4th International Iran and Russia Conference. September 8-10,

2004. Shahrkord, Iran.

- 18- Chegini, G.R. and **Ghobadian, B.** (2004). Estimating the Regression Based Mathematical Models of Orange Juice Powder Physical Properties with Operating Variable of Spray Dryer. Proceedings of International Workshop and Symposium on Industrial Drying. December 20–33, 2004. Mumbai, India.
- 19- Imanmehr, A., and **Ghobadian, B.** (2004). Range Dissemination Using Motorcycle Seeder. The 4th International Iran and Russia Conference. September 8-10, 2004. Shahrkord, Iran.
- 20- Chegini, G. R. and **Ghobadian, B.** (2005). Study of Physical Properties and Particle Morphology of Orange Juice Powder. ICA, the 9th International Conference on Agrophysics, Environment and Food Safety. Aug. 28-31, 2005. Lublin, Poland.
- 21- Chegini, G. R. and **Ghobadian, B.** (2005). Determination of Basic Design Parameters of Fruit Juice Spray Dryer. Proceeding of XI Polish Drying Symposium. 13-16 Sep. 2005. Poznan, Poland.
- 22- Chegini, G. R., Khazaei, J. and **Ghobadian, B.** (2005). Prediction of Apparatus, process and Product parameters in an Orange Juice Spray Drayer. Proceeding of XI Polish Drying Symposium. 16 Sep. 13- 2005. Poznan, Poland.
- 23- Chegini, G. R., Khazaei, J., **Ghobadian, B.** and Tavakoli Hashjin, T.(2005). Prediction of Orange Properties and Spray Dryer Performance Indices Using Neural Networks. . Proceeding of XI Polish Drying Symposium. 13-16 Sep. 2005. Poznan, Poland.
- 24- Nadi, F. and **Ghobadian, B.** (2005). Mixed – Mode Solar Dryer for Grape. Proceeding of the 9th International Conference on Mechanization and Agriculture Engineering and 27th International Conference on, CIGR Section IV. Sep. 27-29, 2005. Izmir, Turkey.
- 25- Mostafaie Maynagh, B., **Ghobadian, B.**, Hassanpour, D., Chitsaz, M., and Narmani, S. A. (2005). Reduction of Pesticide consumption Using Charged Droplets. The 3rd Iranian Seminar of Biochemistry and Environment. Sep. 29 and 30, 2005. Kurdistan University. Sanandaj, Iran.
- 26- Hassan Beygi, S. R., **Ghobadian, B.**, Amirichayjan, R. and Kianmehr, M.H.

- (2005). Intelligent Prediction of a Power Tiller Noise Levels Using Artificial Neural Networks. Interantional Congress on Information Technology in Agriculture, Food and Environment. October 12-14, 2005. Adana, Turkey.
- 27- Ghobadian, B.,** Hassan Beygi, S. R. and Kamalian, N. (2005). Acquisition and Processing Sound Pressure Signals of a Power Tiller. Interantional Congress on Information Technology in Agriculture, Food and Environment. October 12-14, 2005. Adana, Turkey.
- 28-**Hassan Beygi, S. R. and **Ghobadian, B.** (2005). Estimating of Power Tiller Sound Pressure Levels in 1/3rd Octave and Octave Bands. Interantional Congress on Information Technology in Agriculture, Food and Environment. October 12-14, 2005. Adana, Turkey.
- 29- Ghobadian, B.** (2005). Solar Dryer Design Criteria for Agricultural Products. Interantional Congress on Information Technology in Agriculture, Food and Environment. October 12-14, 2005. Adana, Turkey.
- 30- Ghobadian, B.** and Khatamifar, M. (2005). Biodiesel Fuel Production using Transesterification of Waste Vegetable Oils. Proceedings of the 4th International Conference on Internal Combustion Engines. Nov. 16-18, Tehran, Iran.
- 31-**Kafashan J., **Ghobadian B.,** Kamalian N. (2005). Mouldboard Shape Design using Computer's Graphics, 13th Multi-disciplinary IRCE2005, Leeds University, UK.
- 32- Ghobadian, B.,** Rahimi, H. and Khatamifar, M. (2006). Evaluation of Engine Performance Using Net Diesel Fuel and Biofuel Blends. The 1st Combustion Conference of Iran (CCI1). Feb. 15-16, 2006. Tarbiat Modares University, Tehran, Iran.
- 33-**Hassan Beygi, S. R., **Ghobadian, B.,** Amiri Chayjan and Kianmehr, M. S. (2006). Intelligent Prediction of a Power Tiller Sound Pressure Level in 1/3 Octave Using Artificial Neural Networks. XVI CIGR World Congress: Agricultural Engineering for Better World. Sep. 4-7, 2006. Bonn, Germany.
- 34-**Mostafaei Maynagh, B., **Ghobadian, B.,** Jahannama, M. R. and Chitsaz, M. (2006). Improvement of Pesticide Applications Efficiency and Deposition Using Charged Droplets. The 4th National Congress on Agricultural Machinery

Engineering and Mechanization. University of Tabriz .August 29-30, 2006. Tabriz, Iran.

- 35-** Hassan Beygi, S. R., **Ghobadian, B.**, Amiri Chayjan, R. and Kianmehr, M.H. (2006). Prediction of a Power Tiller Sound Pressure Levels in Octave Frequency Bands Using Artificial Neural Networks. International Conference on: Information Systems in Sustainable Agriculture, Agroenvironment and Food Technology (HAICTA2006). 20-23 September 2006. Xenia Hotel, Volos, Greece.
- 36-** Hassan Beygi, S. R., and **Ghobadian, B.** (2006). Application of Artificial Neural Networks for Prediction of a power Tiller Sound Pressure Levels in Octave Frequency Bands. The 1st Mechanical Engineering Congress. Dec.13, 2006. Islamic Azad University, Majlesi Branch. Isfahan, Iran.
- 37-** Jafari, A., **Ghobadian, B.**, Khanali, M., and Rafiee, Sh. (2006). Design and Development of a New Pump Based on Linear Induction Motor. International Conference on Innovations in Food and Bioprocess Technology. Dec. 12-14, 2006. Bangkok, Thailand.
- 38-** Jafari, A., **Ghobadian, B.**, Khanali, M., and Rafiee, Sh. (2006). Design and Development of Instrumentation for Magnetic Permeability Measurement of Agricultural Materials and Products. International Conference on Innovations in Food and Bioprocess Technology. Dec. 12-14, 2006. Bangkok, Thailand.
- 39-** **Ghobadian, B.**, Najafi, G., and Rahimi, H. (2007). Future of Renewable Energies in Iran. The 6th Iran National Energy Congress. June 12-13, 2007. Tehran, Iran.
- 40-** **Ghobadian, B.**, Najafi, G., Rahimi, H. and Khatamifar, M.((2007). Comprehensive Evaluation of Engine Performance with Diesel and Biodiesel Fuel Blends. The 3rd International Bioenergy Conference and Exhibition. Sep. 3-6, 2007. Finland.
- 41-** **Ghobadian, B.**, Ameri, M. and Baratian,I. (2007). Economic Investigation of ICCHP Using Gasohol- A Case Study for Iran. . The 3rd International Bioenergy Conference and Exhibition. Sep. 3-6, 2007. Finland.
- 42-** Yusaf, T., Najafi, G., **Ghobadian, B.**, Najafi, B. and Pirouzpanah, V. (2007). Experimental Investigation of Performance and Emission Parameters of Small Diesel Engine Using CNG and Biodiesel. The 13th Small Engine Technology

Conference (SETC). October 30- November 1, 2007. Toki Messe, Niigata Convention Center, Niigata, Japan.

- 43- Ghobadian, B.**, Rahimi, H. and Khatamifar, M. (2007). Experimental Evaluation of Engine Performance Using Typical Diesterol. The International Congress on Biodiesel: The Science and the Technology. November, 5-8, 2007. Vienna, Austria.
- 44- Ghobadian, B.**, Khatamifar, M. and Rahimi, H. (2007). Design, Fabrication and Evaluation of a Patent Biodiesel Processor. The International Congress on Biodiesel: The Science and the Technology. November, 5-8, 2007. Vienna, Austria.
- 45- Zenouzi, A. and Ghobadian, B.** (2007). Design and Fabrication of a Multifunction Biodiesel Processor. The International Congress on Biodiesel: The Science and the Technology. November, 5-8, 2007. Vienna, Austria.
- 46- Mohammadi, A., Omidkhah, M. R. and Ghobadian, B.** (2007). Optimization of Biodiesel Production from High Free Fatty Acid Feedstocks (Part I: Continuous Process). The International Congress on Biodiesel: The Science and the Technology. November, 5-8, 2007, Vienna, Austria.
- 47- Mohammadi, A., Omidkhah, M. R. and Ghobadian, B.** (2007). Optimization of Biodiesel Production from High Free Fatty Acid Feedstocks (Part II: Batch/ Semi-continuous Process). The International Congress on Biodiesel: The Science and the Technology. November, 5-8, 2007, Vienna, Austria.
- 48- Ghobadian, B.**, Najafi, G., Rahimi, H. and Nikbakht, A. M. (2007). Analysis of CI Engine Performance Using Biodiesel-Diesel Blend with Artificial Neural Network. The 5th Conference on Internal Combustion Engines. November 20- 22, 2007. Tehran, Iran.
- 49- Zenouzi, A. and Ghobadian, B.** (2007). Design and Development of a Biodiesel Processor for Providing FFVs Reference fuel. The 5th Conference on Internal Combustion Engines. November 20- 22, 2007. Tehran, Iran.
- 50- Ghobadian, B.**, Rahimi, H., Khatamifar, M. and Najafi, G. (2007). Diesterol: An Environment – Friendly IC Engine Fuel. The 5th Conference on Internal Combustion Engines. November 20- 22, 2007. Tehran, Iran.

- 51- Ghobadian, B.**, Karbalaireza, H., Najafi, G., Manteghi, A. and Nikbakht, A. M. (2007). Design and Installation of a Diesel Engine on Nissan Z24. The 5th Conference on Internal Combustion Engines. November 20- 22, 2007. Tehran, Iran.
- 52-** Nikbakht, A.M., Minaei, S. and **Ghobadian, B.** (2007). Study of Soil Mechanical Parameters using Horizontal Sensor. International Agricultural Engineering Conference (IAEC2007), 3 – 6 December, Bangkok, Thailand.
- 53-** Taghizadeh, A., Tavakoli Hashjin, T., **Ghobadian, B.** and Nikbakht, A.M. (2007). Evaluation of Vibration in Power Tiller on the Asphalt Surface. International Agricultural Engineering Conference (IAEC2007), 3 – 6 December, Bangkok, Thailand.
- 54-** Kiani, Dehkiani, M., **Ghobadian, B.**, Tavakoli Hashjin, T., Rahimi, H. and Najafi, G. (2008). The Effect of Ethanol – Gasoline Blends on Thermal Balance of an SI Engine. The Second Combustion Conference of Iran. Islamic Azad University, Mashhad. 12-13 February, 2008. Mashhad, Iran.
- 55-** Najafi, G., **Ghobadian, B.**, Rahimi, H., Nikbakht, A.M. and Kiani Dehkiani, M. (2008). Simulation of Laminar Burning Velocities for Alternative Fuels in SI Engines. The Second Combustion Conference of Iran. Islamic Azad University, Mashhad. 12-13 February, 2008. Mashhad, Iran.
- 56- Ghobadian, B.**, Najafi, G., Rahimi, H., Nikbakht, A.M. and Kiani Dehkiani, M. (2008). Experimental and Theoretical Investigation of Combustion Process and Its Phases in a Diesel Engine. The Second Combustion Conference of Iran. Islamic Azad University, Mashhad. 12-13 February, 2008. Mashhad, Iran.
- 57-** Najafi, G., **Ghobadian, B.** Tavakoli, T. Yusaf, T.F. and Buttsworth, D. (2008). Performance and exhaust emission of an SI engine fuelled with potato waste ethanol and its blends with gasoline. International Conference on Environment 2008 Malaysian conference, December 2008, Penang, Malaysia.
- 58-** Najafi, G., **Ghobadian, B.**, Mior M.S. Buttsworth, D. and Yusaf, T.F. (2008). Theoretical and experimental investigation of SI engine performance and exhaust emissions using ethanol-gasoline blended fuels. International Conference on Sustainable Energy Technologies (IEEE), 24-27 November 2008, Singapore.

- 59- Ghobadian, B.** (2008). Liquid biofuels potential and outlook in Iran. The 3rd Oil and Gas Conference on Energy Management, Policies and Experiences. 30 Nov. – 1 Dec., 2008. Olympic Hotel, Tehran, Iran.
- 60- Zenouzi, A., Saffiedin, M., Ghobadian, B** and Tavakoli Hashjin, T. (2009). Optimization of biodiesel and diesel blend ratio for MF-399 tractor engine using genetic algorithms. The 2nd International congress on biodiesel: the science and the technologies. 15- 17 November 2009, Munich, Germany.
- 61- Zenouzi, A. Mohammadi, A., Ghobadian, B.,** and Minaee, S. (2009). Flexible Batch Pilot Plant for Glycerol Purification in the Biodiesel Production Process., The 2nd International congress on biodiesel: the science and the technologies. 15- 17 November 2009, Munich, Germany.
- 62- Ghobadian, B.** (2009). A Comprehensive Review of the Biodiesel Production and Purification Technologies in Iran. The 2nd International congress on biodiesel: the science and the technologies. 15- 17 November 2009, Munich, Germany.
- 63- Ghobadian, B,** Nayebi, M. and Najafi, G. (2009). A Semi- Empirical model to predict diesel engine combustion parameters. The 6th International Conference on Internal Combustion Engines. November 17-19, 2009. . Olympic Hotel, Tehran, Iran.
- 64- Nikbakht, A.M., Malekfar, R., Tavakoli Hashjin, T** and **Ghobadian, B.** (2009). Nondestructive quantitative analysis of tomato fruit using Raman spectroscopy and chemometrics. 2nd Iranian seminar of Chemometrics, 28-30th of October 2009, Urmia University, Urmia, Iran.
- 65- Saiedi Neicharan, M., Ghobadian, B.** and Tavakoli Hashjin, T. (2009). Effects of biodiesel – diesel blended fuels on diesel engine ignition delay. The 6th International Conference on Internal Combustion Engines. November 17-19, 2009. . Olympic Hotel, Tehran, Iran.
- 66- Jafari, h., Idris, M.H., Ourdjini, A., Rahimi, H.** and **Ghobadian, B.** (2010). Corrosion Study of Metallic Materials of an Automotive Fuel Injection System in Ethanol Blended Gasoline. 24th Symposium of Malaysian Chemical Engineers / 1st International Conference on Process Engineering and Advanced Materials - 1st International Conference on Process Engineering and Advanced Materials. 15- 17th June 2010. Kuala Lumpur Convention Center. Malaysia.

- 67- Abbaszadeh Mayvan A., **Ghobadian B.**, Najafi, G. (2011). Current Biodiesel Production Technologies: A Comparative Review. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 68- Abbaszadeh Mayvan A., **Ghobadian B.**, Najafi, G., Omidkhah, M.R. (2011). Analytical And Fem Design of Mixing System in STR Biodiesel Production. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 69- Rostami S., Savadkouhi L., **Ghobadian B.**, Mostafa Kiani Deh Kiani, M. (2011). Effect of Injection Pressure on Brake Thermal Efficiency and BSFC in a DI Diesel Engine using Biodiesel. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 70- **Ghobadian B.** (2011). Potential of Biodiesel Production from WVO and SVO in Iran. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 71- Nematizade P., Abasian M., Khoshtaghaza M.H., **Ghobadian B.**, Najafi, G. (2011). Drying Kinetics of Asian Pears (*Pyrus Serotina* Rehd) Using Thin-Layer Drying Models and Artificial Neural Networks. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 72- Gorjian S., Tavakkoli T., **Ghobadian, B.** (2011). Seawater Desalination Using Solar Thermal Technologies: State Of The Art (2011). 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 73- Nematizade P., **Ghobadian B.**, Najafi G. (2011). G-Series: as an environmental friendly hybrid fossil-bio transportation fuel. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 74- Abbaszadeh Mayvan A., **Ghobadian B.**, Najafi, G., Omidkhah, M.R. (2011). Design, Fabrication and Evaluation of A Novel Biodiesel Processor System. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.

- 75- Abasian M., **Ghobadian B.**, Najafi G. (2011). Energy Balance Analysis for Potato Production in Hamadan Province of Iran. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 76- Abbaszadeh A., **Ghobadian B.**, Najafi G. (2011). High Voltage/Low Amperage Current For Separation of Crude Glycerin From Biodiesel. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 77- **Ghobadian B.** (2011). Enhancing Biodiesel Production from Waste Cooking Oil with Ultrasonics. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 78- Nematizade P., **Ghobadian B.**, Najafi G., Safieddin Ardebili M. (2011). Optimization of a few fossil fuels and liquid biofuel blend properties using Genetic Algorithm. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 79- Morteza pour H., **Ghobadian B.**, Khoshtaghaza M.H., Minaei S. (2011). Performance Analysis of a Two-way Hybrid PV/Thermal Solar Collector. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 80- Morteza pour H., **Ghobadian B.**, Khoshtaghaza M.H., Minaei S. (2011). Saffron Drying with a Heat-Pump Assisted Hybrid PV-Thermal Solar Dryer. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 81- Najafi G., **Ghobadian B.**, Yusaf T. (2011). Biofuel from Microalgae: Alternative, Sustainable and Renewable Fuel. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 82- Safieddin Ardebili M., **Ghobadian B.**, Najafi G., Chegeni, A. (2011). Biodiesel Production Potential from Edible Oil Seeds in Iran. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.
- 83- Ghafoori M., Layeghi M., **Ghobadian B.**, Najafi G., Rashidi, A. (2011). Effects

of nano-particles on the combustion performance of a diesel engine using biodiesel- diesel blended fuel. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.

84- Gorjian S., Tavakkoli T., **Ghobadian, B.** (2011). Solar Powered Greenhouses. 10th International Conference on Sustainable Energy Technologies. Kumbergaz, Istanbul, Turkey. 4-7 September 2011.

85- Rostami, S., **Ghobadian B.**, Savadkouhi, L. and Ebrahimi, R. (2012). Experimental Analysis of the Injection Timing Effect on a Diesel Engine Performance Using Environmental Friendly Diesel- Biodiesel Blends. The 4th Fuel and Combustion conference of Iran. 8- 9 February 2012. Kasahan University, Kashan, Iran.

86- Gorjian S. Tavakoli Hashjin T. and **Ghobadian B.** (2012). Predicting the Mean Monthly and Hourly Solar Radiation Incident on Moving Surfaces. The 2nd Iranian Conference on Renewable Energy and Distributed Generation (ICRED 2012), March 7th & 8th, University of Tehran, Iran.

87- Ahmadian, H., Hassan-Beygi, S.R., **Ghobadian, B.**, Taghizadeh, A. “characteristic of power tiller vibration on transportation in time domain” 20th Annual International Conference on Mechanical Engineering School of Mechanical Eng., Shiraz University, Shiraz, Iran. May 2012.

88- Samadi S.H., Ghobadian B., NajafiG. And Faal S. (2012). Modeling of Micro Combined Heat and Power Systems (MCHP) for Residential Applications Using the Gas Internal Combustion Engine Proceedings of the Fourth International Conference on Heating, Ventilation and Air-Conditioning. June 12-14, 2012, Olympic Hotel, Tehran, Iran. ICHVAC4-4136.

89- Ahmadian, H., Hassan-Beygi, S.R., **Ghobadian, B.** “Power tiller vibration transmitted to hand and body of operator in transportation mode on asphalt rural road” international conference of agricultural engineering, CIGR-AGENG2012, VALENCIA, SPAIN. July 2012.

90- Kiani Deh Kiani M., **Ghobadian B.**, Ommi F., Najafi G., Yusaf T. (2012). Artificial Neural Networks Approach for the Prediction of Thermal Balance of SI Engine Using Ethanol-Gasoline Blends. (A book chapter by Gerald Quirchmayr, Josef Basl, Ilsun You, Lida Xu, Edgar Weippl (Eds.):

Multidisciplinary Research and Practice for Information Systems - IFIP WG 8.4, 8.9/TC 5 International Cross-Domain Conference and Workshop on Availability, Reliability, and Security, CD-ARES 2012, Prague, Czech Republic, August 20-24, 2012. Proceedings. Lecture Notes in Computer Science 7465 Springer 2012, ISBN 978-3-642-32497-0. pp 31-43.

- 91-** Mourtezapour H., **Ghobadian B.** and Abbaspour A. (2012). Financial investigation of using solar-powered led for park lighting in Iran. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.
- 92-** Mostafaei B., **Ghobadian B.**, Barzegar M., Banakar A., and Fayyazi E. (2012). Optimization of ultrasonic reactor geometry for biodiesel production using response surface methodology. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.
- 93-** Abedi S., Hajinezhad A., **Ghobadian B.** (2012). Biodiesel production potential from indigenous plant sources in Tehran province using GIS software. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.
- 94-** Seyed Reza Hassan-beygi, Bahareh Heidary, **Barat Ghobadian** (2012). Analyzing the vibration of a power tiller fuelled by diesel and biodiesel blends in time domain. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.
- 95-** Hassan-beygi S.R., Istan V., **Ghobadian B.**, Aboonajmi M., Johar A. (2012). Investigating the power, torque and specific fuel consumption of a MF-399 tractor fuelled by pure diesel and diesel-biodiesel-bioethanol blends. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.
- 96-** Shadidi B., Haji Agha Alizadeh H., **Ghobadian B.**, and Yusaf T. (2012). MF 399 Diesel Engine Performance Using Diesohol Fuel. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.
- 97-** Istan V., **Ghobadian B.**, Aboonajmi M., and Johar A. (2012). Investigating the power, torque and specific fuel consumption of a MF-399 tractor fuelled by pure

diesel and diesel-biodiesel-bioethanol blends. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.

98- Shadidi B., Yusaf T., **Ghobadian B.**, and Haji Agha Alizadeh H. (2012). Diesel Engine Environmental Pollution Reduction Using Diesohol Fuel. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.

99- Kiani Deh Kiani M., Ommi F., **Ghobadian B.**, Najafi G., and Yusaf T. (2012). Genetic programming approach to predict brake power and torque in SI engine using ethanol- gasoline blends. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.

100- Emamgholivand A., **Ghobadian B.**, Abbaszadeh A. (2012). Simulation and study of methanol recovery process in biodiesel production. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.

101- Safaei Z., Mostafaei B., **Ghobadian B.**, Zarringhalam Moghadam A. (2012). Optimization of biodiesel production parameters by ultrasonic from Iranian variety of castor oil European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.

102- **Ghobadian B.** (2012). A brief review of biodiesel R&D activities at TMU bioenergy research laboratories. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.

103- Karimi S. and **Ghobadian B.** (2012). Simulation of ethanol dehydration using molecular sieve by artificial neural network application. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.

104- Salahshouri P. and **Ghobadian B.** (Iran). A critical review of liquid biofuel industry development barriers from socio-economic and technical-environmental view points. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.

105- Fayyazi E., **Ghobadian B.**, Najafi G., Hosseinzadeh B., and Zare M. (Iran).

Biodiesel Fuel Production Using Ultrasonic System. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.

- 106-** Zare M., **Ghobadian B.**, Najafi G., Abbaszade A., and Fayyazi E. (Iran). Biodiesel fuel production from waste cooking oil by microwave irradiation. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.
- 107-** Abedi M., Hajinezhad A., and **Ghobadian B.** (2012). A Continuous Laboratory Fuel Bioethanol Production System. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.
- 108-** Ezzati H., **Ghobadian B.**, Abbaszadeh A., Akbarzadeh A., and Samadi S. (2012). Fish oil as potential feedstock for biodiesel production. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.
- 109-** Mohamadi F., Abdoli M.A., **Ghobadian B.**, Safiedin Ardebili M., and Fayyazi E.(2012). Characterization of the poultry feather fat for producing biodiesel. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.
- 110-** Izadi A., **Ghobadian B.**, Abbaszadeh A., and Akbarzadeh A. (2012). Physicochemical properties of biodiesel produced through the use of different oils and alcohols. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.
- 111-** Fayyazi E., **Ghobadian B.**, Najafi G., Mostafaei, and Hosseinzadeh B. (2012). Modelling and evaluation of some parameters effective on reactor design for biodiesel production for optimized utilization of ultrasonic waves. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.
- 112-** Ezzati H., **Ghobadian B.**, Abbaszadeh A., Akbarzadeh A., and Samadi S. (2012). Biodiesel production from castor oil and its characterization. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.

- 113-** Gorjian s. Tavakoli Hashjin T., **Ghobadian B.** and Banakar A. (2012). Study of heat transfer by low- velocity forced convection of parabolic dish solar cylindrical receiver. European Conference and Workshop on Renewable Energy Systems. 17-28 September 2012, Alanya, Antalya, Turkey.
- 114-** Heidary B., Hassan-beygi S.R., **Ghobadian B.**, (2012). Investigating the vibration of power tiller engine in time domain using diesel and biodiesel blends. The 7th National Congress on Agricultural Machinery Engineering and Mechanization. 21-23 Sep 2012, Shiraz university, Shiraz, Iran.
- 115-** Ahmadian, H., Hassan-Beygi, S.R., **Ghobadian, B.**, Abunajmi, M., Characteristic of power tiller vibration transmitted to human body in frequency domain. The 7th National Congress on Agricultural Machinery Engineering and Mechanization. 21-23 Sep 2012, Shiraz university, Shiraz, Iran.
- 116-** Ahmadian, H. Hassan-Beygi, S.R., **Ghobadian, B.**” Determination of a power tiller vibration acceleration envelope curves on transportation mode”. International Conference on Mechanical Engineering and Advanced Technology(ICMEAT). October 2012. Isfahan, Iran.
- 117-** Heidary B., Hassan-beygi S.R., **Ghobadian B.** (2012). Investigating and analyzing the vibration spectrum of power tiller engine fuelled diesel and biodiesel blends infrequency domain, The 1st national conference of internal combustion engine. 14-15 November 2012. semnan University, Semnam, Iran.
- 118-** Ahmadian H., Hassan-Beygi S.R., **Ghobadian B.**, Safepourc A. and Kamalian N. (2012). Ergonomic characteristics of a power tiller Vibration in transportation. The 2nd International Conference on acoustics and Vibration (ISAV 2012). 26-27 December 2012. Sharif University, Tehran, Iran.
- 119-** Ahmadian, H., Hassan-Beygi, S.R., **Ghobadian, B.** (2012). Ergonomic characteristic of a power tiller vibration. The 2nd International Conference on acoustics and Vibration (ISAV 2012). 26-27 December 2012. Sharif University, Tehran, Iran.
- 120-** Gorjian S., **Ghobadian B.**, Teymour T.H., Banakar A. (2013). Thermal performance of a Point-focus Solar Steam Generating System. The 21st Annual International Conference on Mechanical Engineering-ISME2013. 7-9 May, 2013, School of Mechanical Eng., K.N.Toosi University, Tehran, Iran.

- 121-** Gorjian S., **Ghobadian B.**, Teymour T.H., Banakar A. (2013). Modeling Global Solar Radiation over Iran based on Meteorological Data Using ANN Technique. The 11th Iranian Conference on Intelligent Systems (ICIS2013), Kharazmi University, Tehran Campus,, Tehran, Iran.
- 122-** Rajaei-Far M.A., **Ghobadian B.**, Akram A., Fayyazi E. (2013). Life-cycle assessment and CO₂ emissions analysis of sunflower based-biodiesel as an alternative for diesel fuel. The 1st International Conference on Environmental Crisis and its Solutions. 13-14 February, 2013. Kish Iland, Iran.
- 123-** Abbaszaadeh Mayvan A., **Ghobadian B.**, Najafi G., Talal Yusaf. An experimental Investigation of the Effective Parameters on Wet Washing Biodiesel Purification. international conference on mechanical engineering research, 1-3 July 2013 Pahang, Malaysia.
- 124-** Mirnezami S.V., Hasan Beigi S.R., Abdolazade R. and **Ghobadian B.** (2013). Effects of diesel-biodiesel blend types on hand transmitted vibration of a riding power tiller. II. European Conference and Workshop on Renewable Energy Systems. 20-30 September 2013, Antalya, Türkiye.

10-2 Papers in persian language

- 1- **Ghobadian, B.** (1990). The Estimation of Actual Structural Attenuation of Sound in a Direct Injection Diesel Engine. The proceedings of the 1st Annual Conference of Iranian Mechanical Engineering Society on Science and Technology. Technical Faculty of Tehran University. February 2-9, 1371. Tehran. Iran.
- 2- **Ghobadian, B.** (1996). "Design of a Fixed Dome Biogas Plant," The 1st National Biogas Seminar in Iran, Tehran, 3 August 1996. Tehran, Iran
- 3- **Ghobadian, B.**, And Soleimani, M.. A. (1996). Triple relationships between people, industry and university . R & D in a dynamic system. Seminar on industrial research and development. 6 and 7 December, 1375. Mashhad, Iran.
- 4- Sakenian Dehkordi, N., and **Ghobadian, B.** (2000). Factors affecting the use of soil moisture storage in the soil using a subsoiler band mulch maker. The first national conference to deal with water shortage and drought. March 9 and 10, 1379. Kerman, Iran.

- 5- Kalantari, D., **Ghobadian, B.**, and TavakoliHshjin, T. (2002). Design, construction and evaluation of the fixed cone valve cylinder. The 10th Annual Conference (International) of Mechanical Engineering. June 6-3, 1381. Tehran. Iran.
- 6- Chegini, G.R. and **Ghobadian, B.** (2004). Design and construction of a juice spray dryer. Proceedings of the 12th Annual Conference (International) of Mechanical Engineering. 29 to 31 May 1383. Tehran, Iran.
- 7- Imanmhr, A., and **Ghobadian, B.** (2004). Design, construction and testing the motorcycle sprayer. Proceedings of the 12th Annual Conference (International) of Mechanical Engineering. 29 to 31 May 1383. Tehran. Iran.
- 8- **Ghobadian, B.**, and Saiedi, M.R. (2004). Designing a garden type power tiller sprayer. The 3rd National Congress of Agricultural Machinery Engineering and Mechanization. Shahid Bahonar University of Kerman. 10 to 12 September 1383. Kerman, Iran.
- 9- Hssnbeygi bidgly, M.R., and **Ghobadian, B.** (2004). Determination of maximum and minimum range envelope curves of 3/1 octave noise pressure for power tiller in transport mode. The 3rd National Congress of Agricultural Machinery Engineering and Mechanization. Shahid Bahonar University of Kerman. 10 to 12 September, 1383. Kerman, Iran.
- 10- Roostapour, M.R., **Ghobadian, B.**, and Hosseinalipour, S.m.(2004). Coaxial cylinders devices for measuring thermal conductivity of lime juice. The 3rd National Congress of Agricultural Machinery Engineering and Mechanization. Shahid Bahonar University of Kerman, 0.10 to 12 September 1383. Kerman, Iran.
- 11- Imanmhr, A., and **Ghobadian, B.** (2004). Understanding and using the boom type motorcycle sprayer. The 3rd National Congress of Agricultural Machinery Engineering and Mechanization. Shahid Bahonar University of Kerman. 10 to 12 September 1383. Kerman, Iran.
- 12- Sheikh Davoodi, M.J., Minaie S., and **Ghobadian, B.** (2004) Construction and evaluation of a complete set of measurements for traction process under controlled conditions. The 3rd National Congress of Agricultural Machinery Engineering and Mechanization. Shahid Bahonar University of Kerman. 10 to 12 September 1383. Kerman, Iran.
- 13- Hassbeygi Bidgoli, M.R., Amiri Chayjan, B., and **Ghobadian, B.** (2004). Prediction of

overall noise pressure level of a power tiller transportation mode using back propagation error algorithm. The 13th International Conference on Mechanical Engineering. May 29-27, 1384. Isfahan, Iran.

- 14- Nadi, F., and **Ghobadian, B.** (2005). The role of solar drying of raisins in reducing wastes. Proceedings of the 2nd national conference of agricultural waste. Persian date Aban 24, 1384. Tehran, Iran.
- 15- Younes Alamouti, M., Khoshtaghaza, M.H, and **Ghobadian, B.** (2005). Determining the moisture retention properties of wheat straw. Proceedings of the 2nd national conference of agricultural waste. Persian date Aban 24 1384, Tehran, Iran.
- 16- **Ghobadian, B.** and Khatamifar, M. (2005). Biodiesel Fuel Production using Transesterification of Waste Vegetable Oils. Proceedings of the 4th International Conference on Internal Combustion Engines. Nov. 16-18, Tehran. Iran.
- 17- Hassbeygi Bidgoli, M.R., and **Ghobadian, B.** (2005). Power tiller noise, a threat to the health of operators. The 2nd National Conference on Audio, Health and Development. Kashan University. 24 to 26 November, 1384. Kashan, Iran.
- 18- **Ghobadian, B.** (2005). Diesel engine cars in Iran and the world (past, present and future). Proceedings of the 4th International Conference on internal combustion engines. International Olympic Hotel. 25 to 27 November, 1384. Tehran, Iran.
- 19- Najafi, B., Pirouzzpnah, V. and **Ghobadian, B.** (2005). The effect of using biodiesel on diesel engine emissions reduction. The 1st Combustion Conference of Iran. 26 and 27 February, 1384. Tehran, Iran.
- 20- Imanmhr, A., **Ghobadian, B.**, and Esmaili, A. (2006). Comparison of physical properties of different varieties of canola seed. The 4th National Congress of Agricultural Machinery Engineering and Mechanization. University. 7 and 8 Persian date Shahrivar 1385. Tabriz, Iran.
- 21- Momeni Abkharaki, D. **Ghobadian, B.**, Hemat A. and Minaie S. (2006). The optimization of Massey Ferguson 285 tractor differential lock. The 4th National Congress of Agricultural Machinery Engineering and Mechanization. University. 7 and 8 Persian date Shahrivar 1385. Tabriz, Iran.
- 22- Momeni Abkharaki, D. **Ghobadian, B.**, Hemat A. and Minaie S. (2006). The effect of differential lock on wheel slippage of Massey Ferguson 285 tractor. The 4th National

Congress of Agricultural Machinery Engineering and Mechanization. University. 7 and 8 September, 1385. Tabriz, Iran.

- 23- Nikbakht, A.M., Minaie S., **Ghobadian, B.**, and Zaki Dizaji, H. (2006). Investigating the effective parameters on soil mechanical resistance using horizontal sensor in soil bin. The 4th National Congress of Agricultural Machinery Engineering and Mechanization. University. 7 and 8 September, 1385. Tabriz, Iran.
- 24- Hassan Beigi Bidgoli. S. R., Amiri Chayjan, R., and **Ghobadian, B.** (2006). Using the propagation error algorithm to estimate the 1/3 Octave Sound pressure of power tiller in transport mode. The 4th Annual Conference (International) Mechanical Engineering. Isfahan University of Technology. Persian date 28 to 26 Ordibehesht months, 1385. Isfahan, Iran.
- 25- Mohammadi, A., Omidkhah, M. R., and **Ghobadian, B.** (2006). Conceptual design process for continuous production of biodiesel with high percentage of free fatty acids feedstock. The 11th National Congress of Chemical Engineering. Tarbiat Modarres University. 7 - 9 November, 1385. Tehran, Iran.
- 26- Taghizadeh., Alisaraei, A., Tavakkoli Hashjin, T., and **Ghobadian, B.** (2006). The daily exposure of operator to power tiller vibration. The 1st Regional Conference of Mechanical Engineering, Isfahan. Azad University, Unit of Isfahan Majlesi City. November 22, 1385. Isfahan, Iran.
- 27- Najafi, G., **Ghobadian, B.**, and Rahimi, H. (2007). Comparing the diesel engine pollutants using waste oil biodiesel and diesel fuel. The 3rd Student Conference on Agricultural Machinery Engineering and Mechanization. 29 30 April, 1386. Shiraz, Iran.
- 28- Nikbakht, M.A., **Ghobadian, B.**, and Khatamifar, M. A (2007). Comprehensive review of biodiesel fuel in Iran. The 3rd Student Conference on Agricultural Machinery Engineering and Mechanization. 29 30 April, 1386. Shiraz, Iran.
- 29- **Ghobadian, B.** and Kiani Deh Kiani, M. (2007). Biodiesel production from fuel canola to create employment and increase farmers income for Izeh city farmers. Proceedings of a Conference on Izeh city sustainable development strategies. . April 1, 1386, p. 103-97. Izeh, Iran.
- 30- Imanmehr, A., and **Ghobadian, B.** (2007). Design, construction and evaluation of fine

materials dilute phase pneumatic conveyors. Proceedings of the 15th annual conference (International) Mechanical Engineering. Amir Kabir University. May 22-27, 1386. Tehran, Iran.

- 31- **Ghobadian, B.**, Mohammad Nikbakht, Salehian, A., and Khatamifar, M. (2007). Capacities to use biodiesel as a clean fuel for sustainable development environment. Persian date 21 Khordad months 1386. Tehran University. Tehran, Iran.
- 32- Zenouzi, A., and **Ghobadian, B.** (2007). Comparing the produced biodiesel as renewable energy from four edible oils. The 6th National Congress of energy. 22 and 23 June, 1386. Tehran, Iran.
- 33- Mohammadi, A., Omidkhan, M. R., and **Ghobadian, B.** (2007). Design and optimization of biodiesel production process of food waste industry . The 6th National Congress of energy. 22 and 23 June, 1386. Tehran, Iran.
- 34- Imanmehr, A., **Ghobadian, B.**, Minaei, S. and Khoshtaghaza, M. (2007). Investigating the effect of canola varieties on physical and geometric properties of canola seed. The 1st Symposium of canola and canola oil. Islamic Azad University . ShahreKord unit . 1 Aban, 1386. ShahreKord, Iran.
- 35- Najafi, B., Piroozpanah, V. and **Ghobadian, B.** Experimental investigation of performance and emission parameters of a dual fuel diesel engine using alternative CNG and biodiesel fuels. The 5th Internal Combustion engines Conference . Persian date 29 Aban to Persian date 1 Azar, 1386. Tehran, Iran.
- 36- Najafi, G., **Ghobadian, B.** and Rahimi, H. Potential of bioethanol production from agricultural wastes in Iran. The 3rd National Conference on agricultural products losses. Persian date 30 Aban, 1386, Tehran, Iran.
- 37- Imanmehr, A., and **Ghobadian, B.** Effect of impact force on the germination of some legume cultivars. The 3rd National Conference on agricultural products losses. Persian date 30 Aban, 1386, Tehran, Iran.
- 38- **Ghobadian, B.** and Bagherpour, H. Comparison of alkaline and acidic methods and Glycerol extraction from waste oil in biodiesel fuel production process. The 3rd National Conference on agricultural products losses. Persian date 30 Aban, 1386, Tehran, Iran.
- 39- **Ghobadian, B.** and Feyzollah Nejad, M. Evaluation of biodiesel production washing

- methods from waste vegetable oil. The 3rd National Conference on agricultural products losses. Persian date 30 Aban, 1386, Tehran, Iran.
- 40- Zenouzi, A., **Ghobadian, B.**, Tavakkoli Hashjin, T., Feyzollah Nejad, M. and Bagherpour, H. Combustion of Biodiesel from waste oil in a 6 cylinder Perkins engine. The 2nd Conference of Combustion. Islamic Azad University of Mashhad. 23 and 24 February 1386. Mashhad, Iran.
- 41- **Ghobadian, B.**, Kiani Deh Kiani, M., Rostami, S. and Kianian, H.(1387). Creating employment and increasing income by using straw and stubble grain processing. A Conference on Izeh city Agricultural Avelopment Atrategies. Persian date 26 Ordibehesht month 1387. Izeh, Iran.
- 42- **Ghobadian, B.**, Kiani Deh Kiani, M. and Jamshidi, A.(1387). Energy balance assessment of wheat cultivation for Izeh city. Proceedings of A Conference on Izeh city Agricultural Development Strategies. Persian date 26 Ordibehesht month 1387. Izeh, Iran.
- 43- Kiani Deh Kiani, **Ghobadian, B.**, Rahimi, H. and Najafi; G.(1387). Investigating the Pollutions in a spark ignition engine using Gasohol. National Conference of Fuel, Energy and the Environment. 9-7 June 1387, Materials and Energy Research Institute, Karaj, Iran.
- 44- Hazbavi, A., Minaei, S.and **Ghobadian, B.** (2008). Determination and investigation of some chemical characteristics of waste okra seeds to introduce as a nutrient for poultry. The 3rd National Congress on Animal Sciences - October 1387, Ferdowsi University, Mashhad, Iran.
- 45- Hazbavi, A., Minaei, S., **Ghobadian, B.**, Khoshtaghaza, M. H. and Kazemi, Sh. (2008). The moisture effect on some physical properties of cotton seed. The 18th Congress of Food Science. 25-24 October 1387. Mashhad, Iran.
- 46- Hazbavi, A., Minaei, S., **Ghobadian, B.**, Khoshtaghaza, M. and Kazemi, Sh. (2008). The moisture effect on some physical properties of okra seed. The 5th National Congress of Agricultural Engineering and Mechanization. 6 and 7 Aug. 1387. Mashhad, Iran.
- 47- Minaei, S., Hazbavi, A., **Ghobadian, B.** and Kazemi, Sh. (2008). Standard box design to reduce waste fig fruits during transportation and storage. The 5th National Congress

- of Agricultural Engineering and Mechanization. 6 and 7 Aug. 1387. Mashhad, Iran.
- 48- Minaei, S., Hazbavi, A., **Ghobadian, B.** and Kazemi, Sh. (2008). Studies under the persimmon fruit queries. The 5th National Congress of Agricultural Engineering and Mechanization. 6 and 7 Aug. 1387. Mashhad, Iran.
- 49- Hazbavi, A., Minaei, S., **Ghobadian, B.**, Khoshtaghaza, M. and Mostaan, A. Some physical properties of 6 Iranian variety date seeds. The 5th National Congress of Agricultural Engineering and Mechanization. 6 and 7 Aug. 1387. Mashhad, Iran.
- 50- Imanmehr, A. and **Ghobadian, B.** (2008). Design, construction and evaluation of pneumatic grain conveyors kolza dilute phase. The 5th National Congress of Agricultural Engineering and Mechanization. 6 and 7 Aug. 1387. Mashhad, Iran.
- 51- Abbaszadeh, A. and **Ghobadian, B.** (2008). The effect of working parameters of a diesel engine exhaust smoke opacity levels. The 5th National Congress of Agricultural Engineering and Mechanization. 6 and 7 Aug. 1387. Mashhad, Iran.
- 52- Karimi, S. and **Ghobadian, B.** (2008). Analysis of diesel fuel sample agricultural water pumping. The 5th National Congress of Agricultural Engineering and Mechanization. 6 and 7 Aug. 1387. Mashhad, Iran.
- 53- Mohammad Nikhbakht, A., Tavakkoli Hashjin, T., Malekfar, R. and **Ghobadian, B.** (2008). Using scattering spectroscopy for nondestructive review tomato fruit quality parameters. The 5th National Congress of Agricultural Engineering and Mechanization. 6 and 7 Aug. 1387. Mashhad, Iran.
- 54- Bagherpour, B., **Ghobadian, B.**, Tavakkoli, T., Mohammadi, A., Feyzollah Nejad, M. and Zenouzi, A. (2008). Biodiesel fuel from waste oil using Astryfykasyvn Trans The 5th National Congress of Agricultural Engineering and Mechanization. 6 and 7 Aug. 1387. Mashhad, Iran.
- 55- Hazbavi, A., Minaei, S., **Ghobadian, B.**, and Kazemi, Sh. (2008). Introduced okra seed as a supplement for Poultry feed. The 1st National Conference on Livestock Industry in Golestan Province. 3 - 5 Dey months of Persian date 1387, Gorgan, Iran.
- 56- Hazbavi, A., Minaei, S., **Ghobadian, B.**, and Kazemi, Sh. (2008). Some physical properties of seed cotton under moisture effect. The regional conference on prosperity and innovation in medicine plants. 22 Dey months of Persian date 1387. Azad University, Shabestar Branch, Shabestar, Iran.

- 57- Hazbavi, A., Minaei, S. and **Ghobadian, B.** (2009). Investigating some chemical properties of palm kernel. The 4th National Symposium on Losses of Agricultural Products. 22 Aban months of Persian date 1388. Tarbiat Modares University. Tehran, Iran.
- 58- Hazbavi, A., Minaei, S. and **Ghobadian, B.** (2009). Investigating the mechanical properties of palm kernel to produce recycled powder. The 4th National Symposium on Losses of Agricultural Products. 22 Aban months of Persian date 1388. Tarbiat Modares University. Tehran, Iran.
- 59- Nikbakht, A.M., Malekfar, R., Tavakoli Hashjin, T., and Ghobadian, B. (2008). Raman spectroscopy technique to study the nondestructive fruit quality parameters. The 5th Optics and Photonics Association Conference. 8-10 Bahman months of Persian date 1387. Isfahan, Iran.
- 60- Rahname, M., Khoshtaghaza, M.H., **Ghobadian, B.** and Avalin Chaharsooghy, K. (2009). Investigating the heat treatment of Mostameran Date to reduce the warehouse pest colonies. The 4th National Symposium on Losses of Agricultural Products. 22 Aban months of Persian date 1388. Tarbiat Modares University. Tehran, Iran.
- 61- **Ghobadian, B.**, Rahimi, H., Jafari, H., Shakeri, O. and Jalali, A. (2009). Impact of increased ethanol to gasoline on corrosion behavior of automotive fuel system components. The 6th International Conference on Internal Combustion Engines. Nov. 17-19 2009, International Olympic Hotel, Tehran, Iran.
- 62- Mirzaei, R., **Ghobadian, B.**, Khoshtaghaza, M.H. (2009). A model to predict the Diesel engine combustion noise. The 6th International Conference on Internal Combustion Engines. Nov. 17-19 2009, International Olympic Hotel, Tehran, Iran.
- 63- **Ghobadian, B.**, Rahimi, H., Shakeri, O. and Jalali, A. (2009). To study the approach of world automotive manufacturers in Providing compatible products with renewable bioethanol fuel. The 7th National Energy Congress. 22-23 Dec. 2009, Tehran, Iran.
- 64- **Ghobadian, B.**, Rahimi, H., Shakeri, O. and Jalali, A. (2009). Investigating the impact of the bioethanol fuel on some important characteristics of gasoline fuel. The 7th National Energy Congress. 22-23 Dec. 2009, Tehran, Iran.
- 65- Saiedi, M.R., **Ghobadian, B.**, Tavakoli Hashjin, T. and Najafi, G. (2010). Experimental investigation of performance parameters in a diesel engine using

- biodiesel fuel. The 3rd Combustion Conference of Iran. Amir Kabir University, 2 and 3 February 2010. Tehran, Iran.
- 66- Najafi, G, **Ghobadian, B.**, Tavakoli Hashjin, T. and Rahimi, H. (2010). Investigating the combustion and performance parameters and pollution and simulating the SI engines performance cycle with fuel ethanol and gasoline mixture. The 3rd Combustion Conference of Iran. Amir Kabir University, 2 and 3 February 2010. Tehran, Iran.
- 67- Saffiedin Ardebili, M., **Ghobadian, B.**, and Tavakoli Hashjin, T. (2010). Determination of the Castor oil apparent elastic coefficient to be used for optimum processing. The 3rd Combustion Conference of Iran. The 1st scientific conference on the development of the medicine plants. March 1388. Tehran, Iran.
- 68- Saffiedin Ardebili, M., **Ghobadian, B.**, Azadbakht, M. and Nasiri, A. (2010). Energy balance of canola in Golestan province for biodiesel fuel production. The 3rd Combustion Conference of Iran. Amir Kabir University, 2 and 3 February 2010. Tehran, Iran.
- 69- Karimi, S. and **Ghobadian, B.** (2010). The effect of chloride salt on the operations of the bioethanol fuel distillation. The 3rd Combustion Conference of Iran. Amir Kabir University, 2 and 3 February 2010. Tehran, Iran.
- 70- Abbaszadeh, A., Muhammad, A. and **Ghobadian, B.** (2010). Lipid waste collection management procedures for renewable biodiesel fuel production. The 6th National Congress of Agricultural Machinery Engineering and Mechanization, College of Agriculture and Natural Resources, Tehran University, 1389.
- 71- **Ghobadian, B.** (2010). Current status and future prospects of Iran and world liquid biofuel production. A conference on the role of technology in promoting human life. Persian month Bahman 1389, Kish, Iran.
- 72- Farajzadeh Bibalan S., Sadr Ameli. S.M, **Ghobadian B.** and Maleki, P. (2010). Kinetic modeling of biomass to produce Biofuels (Biodiesel) in the presence of ultrasound. The 1st Annual Conference on Clean Energy. The Center for International Science and technology and Environmental Sciences. 3 and 4 March, Kerman, Iran.
- 73- Zenouzi, A., Hejazi, M.A. **Ghobadian, B.** and Rahneemoon P. (2011). Micro Algae separation from its culture medium using electric coagulation technology. The 1st National Conference of Iranian Studies on algae. Live to learn and learn to live well.

School of Biological Sciences, Shahid Beheshti University. Tehran, Iran.

- 74- **Ghobadian, B.** (2011). The introduction of emerging research ideas of job creation and value addition for sustainable employment in agricultural machinery sector. National. A national conference on employment of graduates in agriculture and natural sector. 2 and 3 December 1390, Tarbiat Modares University, Tehran, Iran.
- 75- **Ghobadian, B.** and Yhayaie R. (2011). The commercializing idea of a portable fish waste processor. A national conference on employment of graduates in agriculture and natural sector. 2 and 3 December 1390, Tarbiat Modares University, Tehran, Iran.
- 76- **Ghobadian, B.** (2011). Biodiesel production from biomass. A conference on energy efficiency in agriculture. Iranian Academy of Sciences, Department of Agricultural Sciences. Persian date Bahman 13 – May 1390. Tehran, Iran.
- 77- Rostami, S., Savadkouhi, L., **Ghobadian, B.** and Ebrahimi, B. (2011). Experimental study of the impact of fuel injection pressure on the performance of a diesel engine using biodiesel and diesel fuel blends. The 4th Conference of fuel combustion. Kashan University. 19 and 20 February 1390. Kashan, Iran.
- 78- Nematizadeh, P., **Ghobadian, B.** , Ommi, F. and Najafi, G. (2011). Investigating the performance and emissions of a spark ignition engine using G- series fuel The 4th Conference of fuel combustion. Kashan University. 19 and 20 February 1390. Kashan, Iran.
- 79- Nematizadeh, P., **Ghobadian, B.** , Ommi, F. and Najafi, G. (2011). Investigating the performance and Emissions of a compression ignition engine using diesel and biodiesel fuel blends. The 4th Conference of fuel combustion. Kashan University. 19 and 20 February 1390. Kashan, Iran.
- 80- Fallah Panah Najmabadi, M., Ghazavi, M.. A., and **Ghobadian, B.** (2011). The effect of adding biodiesel to conventional diesel fuel on some operating parameters of a diesel engine. The 4th Conference of fuel combustion. Kashan University. 19 and 20 February 1390. Kashan, Iran.
- 81- Taghizades- Alisaraei A., **Ghobadian B.** (2011). Tavakoli Hashjin T., Mohtasebi S.S. and Kazemi, M.. (2011). Vibrations of a six-cylinder diesel engine with a mixture of diesel and biodiesel fuels using artificial neural network. The 4th Conference of fuel combustion. Kashan University. 19 and 20 February 1390. Kashan, Iran.

- 82- **Ghobadian, B.** (1390). The alternative fuels and other energy sources. National Conference on Optimization of Fuel for self propelled machines in agriculture. Persian date Bahman 26 May 1390. The Institute of Agricultural Engineering. Karaj, Iran.
- 83- **Ghobadian, B.** (2011). Predicting the effect of injection pressure on the performance of a diesel engine using of diesel – biodiesel fuel blends. The 2nd National Conference on Renewable Energy and Distributed Generation. 16 to 18 February 1390, Tehran, Iran.
- 84- Karimi, S., and **Ghobadian, B.** (2011). Investigating the effective parameters on dewatering operations of bioethanol as a gasoline substitute biofuel. The 2nd National Conference on Renewable Energy and Distributed Generation. 16 to 18 February 1390, Tehran, Iran.
- 85- Emamgholivand, A., **Ghobadian, B.**, Daghbndan, A., and Abbasszadeh Myvan A. (1390). Parameters affecting the recovery of methanol in the biodiesel production process. The 2nd National Conference on Renewable Energy and Distributed Generation. 16 to 18 February 1390, Tehran, Iran.
- 86- Samadi S.H., **Ghobadian B.**, Njafi G. and Faal S. (2012). Modeling micro-scale heat and power systems, using the internal combustion gas engine for home application(MCHP). Proceedings of the 4th International Conference on heating, cooling and air conditioning (ICHVAC4-4136). 23- 25 Persian date Khordad 1391, Olympic Hotel, Tehran, Iran.
- 87- Montazeri, M., Bnakar, A. **Ghobadiaan. B.** and Hemmatian, R. (2012). Investigating the effect of various factors on the cost of desalinating. A onference on desalinating brackish water, saltwater and wastewater. Persian date Khordad 30 June to 1. Power and Water University of Technology, Tehran. Iran.
- 88- Abedi, M., Hajinjad, A., and **Ghobadiyan B.** (2012). Production potential of biodiesel as a renewable clean fuel from plant seed oils using GIS software in Kerman province. The 2nd Annual Conference on Clean Energy. The Center for International Science and Technology and Environmental Sciences. 21-22 July 1391. Kerman, Iran.
- 89- Abedi, S., Hajinjad, A., and **Ghobadiyan B.** (2012). Estimating bioethanol production of wheat straw in the northern Khorasan province and locating its production center. The 2nd Annual Conference on Clean Energy. The Center for International Science and

Technology and Environmental Sciences. 21-22 July 1391. Kerman, Iran.

- 90- Ahmdaghaie N., **Ghobadian B.**, Shahvelayati, A., Abbasszadeh, A. and Saffiedin Ardebili M. (2012). Three species of indigenous castor oil, an important feature of as Byvrvankar. National Congress of Chemical Engineering. The 14th Iranian national chemical engineering congress (Ichech 14) Oct 2012, Sharif University, Iran.
- 91- Zarif Y., **Ghobadian B.**, Abbasszadeh Myvan A., Mobarhan M. and Mohamadi M.R. Methods of separating glycerin from biodiesel production process. The 14th Iranian national chemical engineering congress (Ichech 14) Oct 2012, Sharif University, Iran.
- 92- Ahmadian B., Hassan Beygi S.R. and **Ghobadian B.** (2012). Investigating the vibration transmitted to the power tiller user in the frequency domain. The 7th National Congress on Agricultural Machinery Engineering and Mechanization, Shiraz university, Shiraz, Iran, 21-23 Sep 2012).
- 93- Heidary B., Hassan-Beygi S. R., **Ghobadian B.** (2012). Investigating the vibration of a power tiller in the time domain. The 7th National Congress on Agricultural Machinery Engineering and Mechanization, Shiraz university, Shiraz, Iran, 21-23 Sep 2012).
- 94- Istan V., Hassan-Beygi S. R., **Ghobadian B.** Abu Najmi M. and Johar A. (2012). Investigating the MF 399 Tractor Performance Parameters using Diesel-Biodiesel and Bioethanol Fuel Blends. The 7th National Congress on Agricultural Machinery Engineering and Mechanization, Shiraz university, Shiraz, Iran, 21-23 Sep 2012).
- 95- Hassan-Beygi S. R., Johar A. **Ghobadian B.** Abu Najmi M. and Istan V. (2012). Measurement and Analysis of A 6 Cylinder Diesel Engine Vibration Signals using Diesel Biofuels in the Time domain. The 7th National Congress on Agricultural Machinery Engineering and Mechanization, Shiraz university, Shiraz, Iran, 21-23 Sep 2012).
- 96- Safaie Z., **Ghobadian B.**, Zaringhalam Moghadam A. and Mostafaie B.(2012). Kinetics of Biodiesel Production from three Iranian Castor Oil Varieties. The 14th National Chemical Engineering Congress & Exhibition (IChEC 2012), Sharif University of Technology, Tehran, Iran.
- 97- Heidary B., Hassan-Beygi S. R., **Ghobadian B.** (2012). Investigation and Analysis of a Power Tiller Vibration Using Diesel and Biodiesel Fuels in the Frequency Domain. 24-25 Persian date Aban 1391, Semnan, Iran.

- 98- Heidary B., Hassan-Beygi S. R., **Ghobadian B.** (2012). Investigation of the Exposure Time of the user of a Power Tiller with Diesel and Biodiesel fuel Blends. 2nd International Conference on Acoustics and Vibration (ISAV 2012). December 26-27, 2012. Sharif University of Technology, Tehran, Iran.
- 99- Rajaei-Far M.A., **Ghobadian B.**, Akram A. and Heidary M.D.(2012). Biodiesel Production from Olive Pomace Oil as an alternative fuel To Diesel Fuel and the reduction of Environmental Pollutions. The 1st International Conference on Environmental Crises and its Solutions. 13-14 February 2013. Kish Iland, Iran.
- 100- Samadi S.H., **Ghobadian B.**, Njafi G. and Faal S. (2012). Design and Construction of A micro-scale heat and power (MCHP) System, Using Gas Internal Combustion Engine. Iranian Conference on Combined Cooling, Heating and Power Generation(CCHP 2013). 28-29 August 2013. Energy Research Institute, University of Kashan, Kashan, Iran.
- 101- Salahshouri P. and **Ghobadian B.** (2013).The Social, Economical and Environmental Barriers and Challenges of Small Scale Liquid Biofuels Production in Iran. The 3rd National Conference of Fuel, Energy and Environment 17-18 Sep 2013. Karaj, Iran.
- 102- **Ghobadian B.** (2013).The Role of Alternative and advanced Fuels on Engine exhaust Emissions Reduction. The 3rd National Conference of Fuel, Energy and Environment 17-18 Sep 2013. Karaj, Iran.
- 103- Javaheri S., **Ghobadian B.**, Sadeghi H. and Mohseni R. (2013).Cost - Benefit Analysis of Biodiesel Production from *Salvia Leriifolia*. The 3rd National Conference of Fuel, Energy and Environment 17-18 Sep 2013. Karaj, Iran.
- 104- Javaheri S., Sadeghi H. and **Ghobadian B.** (2013). The Potential of Liquid Biofuels Production from Agricultural Crops in Iran. The 3rd National Conference of Fuel, Energy and Environment 17-18 Sep 2013. Karaj, Iran.
- 105- Abedi S., Hajinezhad A., and **Ghobadian B.** (2013). Biodiesel Production from Non Edible Canola (*Brassica Carinata*) by Ultrasounics. The 3rd National Conference of Fuel, Energy and Environment 17-18 Sep 2013. Karaj, Iran.
- 106- Abedi S., **Ghobadian B.**, Hajinezhad A., Abedi S. and Tahamipour M.(2013). Economic Evaluation of Biodiesel Production from Norouzak (*Salvia lerifolia*). The 3rd National Conference of Fuel, Energy and Environment 17-18 Sep 2013. Karaj, Iran.

- 107- Abedi S., Hajinezhad A., **Ghobadian B.**, Abedi S. and Mostafaie B. (2013). Biodiesel Production from Norouzak (*Salvia lerifolia*) Indigenous plant of Arid Region of Iran. First National Conference on Clean Energy, 2013. Hamedan, Iran.

11- Completed and ongoing research projects:

11-1 Completed research projects:

- Educational Master Plan for Ghesm Island International University.
- Design, Construction and Evaluation of a motorcycle sprayer.
- Feasibility studies of diesel cars in Iran.
- Aluminum engine cylinder head design Peykan 1600 Car Engine.
- Technical - Economic feasibility studies of Iran Khodro Engine Research Center.
- Diesel engine installed on the Nissan pick-Zamyad Jr. Co.
- Design of Forest Tree Processing Mechanism
- Application of Bioethanol In Pride Car Engine.
- A Plan for laboratory production of biodiesel from edible oil waste.
- Testing and evaluation of bioethanol in a small diesel engine.
- Application of biodiesel in a small diesel engine.
- 25-years Strategic Development Plan and Application of biofuel production in Iran.
- Design of the Cyllabus for Ph.D. – Courses, energy in agricultural.
- Establishment of the bioethanol laboratory.
- Establishment of the biodies laboratory.
- Establishment of semi-industrial production of biodiesel workshop.
- Establishment of laboratory and workshop for engines and tractors.

11-2 Ongoing research projects:

- Establishing and commissioning the Bioenergy National Research Center.
- Design and construction of 5000 liter capacity biodiesel production plant.
- A plan for mass manufacturing the family type biodiesel processors.
- Design and manufacture of biodiesel production units for rural areas.
- Biodiesel national farm.
- Feasibility study of biodiesel fuel production in Iran and its possible use in current engines/ motor vehicles.

- Feasibility study of bioethanol fuel production in Iran and its possible use in current vehicles.
- Designing the syllabus for the master courses of engineering in bioenergy.
- Designing the syllabus for Ph.D. courses of engineering in bioenergy.

12- Books Book title, Publisher, Year Published:

12-1 Compiled books:

- 1- **Author** : Book; “Internal Combustion Engines” (Theoretical and Practical Principles). University of Shahrekord Publication; 2001.
- 2- **Author** : Book; “Biodiesel Production and Application Technology”. Tarbiat Modares University Publications(in press). Tehran, Iran. 2009.
- 3- **Co-Author** : Book; “Fuel Delivery System Technology”. AAienh Nama Publisher- Tehran, Iran. 2009.
- 4- **Co-Author** : Book; “Bioethanol Production and Application Technology”. AAienh Nama Publisher- Tehran, Iran. 2009.
- 5- **Scientific Editor:** Rangeland Equipments , Part 1: land Preparation and Sowing M.K. Araghi , Technical Publication No137,Research Institute of Forests and Rangelands 1995.
- 6- **Co-Author of Book Chapter:** Kiani Deh Kiani M., **Ghobadian B.**, Ommi F., Najafi G., and Yusaf T. (2012). Artificial Neural Networks Approach for the Prediction of Thermal Balance of SI Engine Using Ethanol-Gasoline Blends. A book titled: “Multidisciplinary Research and Practice for Information Systems”.Series: “Title Lecture Notes in Computer Science Series Volume 7465 Series ISSN 0302-9743 Publisher Springer Berlin Heidelberg Copyright Holder IFIP International Federation for Information Processing. pp 31-43.

12-2 Translated books(ongoing work):

- Dan Carter, Dave Darby, Jon Halle, Phillip Hunt. (2005). How to Make Biodiesel. Published by Low- Impact Living Initiative (LILI). Printed in Great Britain. ISBN 0-9549171-0-3
- Jefferson W. Tester, Elisabeth, M. Drake, Michael J. Driscoll, Michael W. Golay, William A. Peters. (2005). Sustainable Energy Choosing Among

Options. Original Edition Published by Asoke K. Ghosh, Prentice- Hall of India. ISBN 81-2032903-1

- Joshua Tickell. (2003). From the Fryer to the Fuel Tank. Published by Tickell Energy. Printed in the United State of America. ISBN 0-9707227-0-2
- Stan Gibilisco. (2007). Alternative Energy Demystified. Published by McGraw Hill ComPanies. ISBN 978-0-07-147554-9.

13- Titles of Thesis / Dissertation Supervised/supervising:

13-1 ME Dissertation:

S.N.	Title	Student	Year
1	Design and Fabrication of Boom-Type Power Tiller Sprayer	Seyed Esmail Omidkhoda	1996
2	Design and Development Power Tiller Operated Garden Sprayer	Mohammad Reza Saiedi	1996
3	Design of Motorcycle Sprayer	Ali Jafari	1996
4	Computer Graphics for Moldboard Design	Jalal Kafashan	1997
5	An Ignition Delay Model for the small DI diesel Engine	Gholamreza Chegini	1997
6	DI Diesel Engine Block Design	Seyed Reza Hassan Beygi	1997
7	Prediction Model of a Diesel Engine Combustion Pressure	Mohammad reza Nayebi	1997
8	Design of Levelable Seat for off-Road Machines	Hossein Mohammadi Mazraeh	1997
9	Design of Planetary Gear Final Drive	Aliagha Ahmady	1998
10	Investigation and Evaluation of Effective Factors on Distribution Uniformity in Tractor-mounted Sprayer Nozzle	Farid Amir Shaghaghi	1998
11	Design, Development and Testing of Row Crop Planter with Hydraulic System	Saieed Salehi	1998

12	Design and Fabrication of an Apparatus for MF 399 Tractor Starter Endurance Test	Seyed Abbas Seyed Alizadeh	1998
13	Prediction Model of a Diesel Engine Combustion Noise	Ramezan Mirzaie	1998
14	Design and Development of Semi-Automatic Differential Lock for MF 285 Tractor	Dawood Momeni Abkharaki	2001
15	Design, Development and Evaluation of Fixed Cone Sleeve Valve	Dawood Kalantari	2001
16	Design of Forest Trees Processing Apparatus Mechanisms and Manufacturing Method of Its Feeding System	Mohammad reza Emami	2001
17	Design, Fabrication and Evaluation of Garden Type Motorcycle Sprayer	Abbasali Arshanwar	2002
18	Optimization, Testing and Evaluation of Boom-Type Motorcycle Sprayer	Abdollah Imanmehar	2002
19	Design, Fabrication and Evaluation of a Rotary Piston Type Pump	Abbasali Taghipoor Bafghi	2002
20	Design, Fabrication, Testing and Evaluation of Mechanical Control Differential Locking System for MF 285 Tractor	Sajad Rostami Kondori	2002
21	Design, Development and Evaluation of a Land Leveler with Laser System for 75 hp Tractor	Mohammad Hadi Zeraatkarifard	2004
22	Performance Evaluation of a Diesel Engine Using Bioethanol produced from Potato Waste	Hadi Rahimi	2005
23	Design, Development and Evaluation of Indirect Active Grapes Solar Dryer	Fatemeh Nadi	2005
24	Design, Development and Evaluation of a Greenhouse Electrostatic Sprayer	Buyuk Mostafaie Maynagh	2005
25	Design, Development and Evaluation of Biodiesel Processor	Mehdi Khatamifar	2006
26	An Approximation Model of Fuel Consumption for MF285 Tractor	Elshan Neusha	2006
27	Economics and Techincal Investigation of CHP Using	Iman Baratian	2006

	Biofuel in an Internal Combustion Engine		
28	Performance Evaluation of MF399 Tractor Using Diesel- Biodiesel Fuel Blends	Ali Zenouzi	2007
29	Biodiesel Processor Waterwashing Tank Improvement	Mehdi Feyzullah Nejad	2007
30	Reactor Improvement of Biodiesel Processor	Hpssein Bagherpoor	2007
31	Investigating the Temperature Balance of an IC engine Using Gasoline- Bioethanol Blends	Mostafa Kiani Deh Kiani	2007
32	Design, Development and Evaluation of a Bioethanol Unhydrous Laboratory Apparatus	Samira Marimi	2010
33	Design, Fabrication and Evaluation of Castor Oil Processing Unit for Biodiesel Production	Mohammad Saffieddin Ardebili	2010
34	Design, Development and Evaluation of a Biodiesel Purification System	Ahmad Abbasszadeh	2010
35	Design, fabrication and evaluation of an oil extraction system to produce biodiesel from waste fish	Reza Yahyaie	2010
36	Design, fabrication and evaluation of laboratory System to produce sugar from potato waste for bioethanol purpose	Mohammad Abbassian	2011
37	Investigating the pollution of two types of internal combustion engines using fossil fuel and bioduel blends	Pegah Nematizadeh	2011
38	Investigating the lubrication properties of three native castor oil varieties in Iran	Narges Ahmadaghaie	2011
39	Evaluating the performance of MF-399 tractor engine using diesel – ethanol fuel blends	Behdad Shadidi	2011
40	Glycerin purification of the residual oil with along with biodiesel	Reza Mohamadi Tajani	2011
41	Separation of glycerin from waste vegetable oil	Yusof Zarif Talasaz	2011
42	Comparison of a power tiller vibration with diesel and biodiesel fuels	Bahareh Heydari	2011
43	Recycling of methanol in the biodiesel production process	Azadeh Emamgholivand	2011

44	Kinetics of the production of biodiesel from three castor oil varieties in Iran	Zahra Safaie	2011
45	Investigating the process of continuous biodiesel production using microwave irradiation	Mehdi Zare	2012
46	Biodiesel production using ultrasounic system	Ebrahim Fayyazy	2012
47	Investigating the biodiesel production using three plant oil types with methanol and ethanol alcohols	Arash Izadi	2012
48	Tehno- economic and Environmental Feasibility Study of Biodiesel Production from RestaurantsWaste Cooking Oils(Case Study: Tehran)	Maryam Azhdarzadeh	2012
49	Dynamic modelling and verification of MCHP with biogas	Hashem Samadi Rikandeh	2012
50	Design, construction and evaluation of micro-scale heat and power co-generation heat exchanger system	Maryam Mohamadi Moghanaki	2012
51	Biodiesel production from poultry feathers	Fatemeh Mohamadi	2012
52	Investigationg the bioethanol production from waste potato	Maryam Abedi	2012
53	Investigating the native plant oil yields for biodiesel production and introduction of superior varieties	Sepideh Abedi	2012
54	Investigating Performance and Pollution of a Diesel Engine by Diesel-Biodiesel Blends (Case Study of Caster Seed Oil Biodiesel)	Reza Janzadeh Galogah	2013
55	Energy Analysis of Biodiesel Production from Olive Pomace Oil	Mohamad Ali Rajae-Far	2013
56	Experimental Investigation of the Effect of Biolubricant on Performance and Exhaust emissions of a Two Stroke Engine	Masoud Dehghani Soofi	2013
57		Mohamad Reza Sabzi Maleki	2013
58	Design, Fabrication and optimization of Castor Oil Extractor and Evaluation of its Performance to Produce Biodiesel	Noorullah Ghasemi	2013
59	Experimental Investigation of Performance and	Ali Rahimi	2014

	Emissions of Air-cooled Single Cylinder Diesel Engine Using Diesel- Biodiesel Fuel Blends		
60		Esmaiel Ranjbar	2014
61	Investigating the Biolubricant Production from Waste edible Oil	Shima bashiri Harsini	2014
62	Investigating the Biolubricant Production from non-edible Brassica napus by Epoxidation Method	Zahra Zamani	2014

13-2 Ph.D. Thesis:

S.N.	Title	Student	Year
1	Investigation of the Effective Parameters on Soil Water Conservation Using a Designed Modified subsoiler	Nader Sakenian Dehkordi	2000
2	Study of the Effect of Spray Dryer Operating Parameters on Physical Properties of Orange Juice Powder	Gholam Reza Chegini	2003
3	Investigation and Analysis of Power Tiller Noise	Seyed Reza Hassan Beygi	2003
4	Study of Drying Kinetics of Lime Juice in Spray Dryer and Its Thermophysical Properties Under Different Conditions	Omid Reza Roustapour	2006
5	Investigating the Effect of Important Parameters on Pneumatic Conveying of Canola Seed	Abdollah Immanmehr	2007
6	Investigation of the Combustion Parameters in an Internal Combustion Engine Using Bioethanol	Gholamhassan Najafi	2009
7	Measurement and Analysis of a Diesel Engine Ignition Delay Using Diesel-Biodiesel Fuel Blends	Mohammad Reza Saiedi Nicharan	2010
8	Design, Development and Evaluation of a Laboratory Type Tractor Chair Vibration Control System	Ali Nowroozi Ghaleh Babakhani	2010
9	Investigating the MF-399 tractor vibration signal parameters with diesel and biodiesel fuels	Ahmad Taghizadeh Alisaraie	2011

10	Theoretical model and experimental investigation of the effects of fuel pressure and injection timing on the performance characteristics of a diesel engine fueled with biodiesel	Sajad Rostami Kondori	2011
11	Design, Development and Evaluation of a Micro Algae Hybrid Separator System from its Media to Improve the Biodiesel Energy Balance	Ali Zenouzi	2011
12	Design, Development and Evaluation of a hybrid Thermal- PV Solar Dryer Equipped with Heat Pump	Hamid Mortezapour	2012
13	Investigating the effects of density and sulfur on yield and yield components of Iranian castor oil, bio-fuel production and determination technical properties for use in automotive and aircraft	Seyed Yaghoob Mousavi	2012
14	Investigation of the Ultrasound Technology for Biodiesel Production	Buyuk Mostafaie Maynagh	2012
15	Investigation and Optimization of Performance and Emission Characteristics of Developed OM 314 Diesel Engine Using Diesel-Biodiesel Fuel Blends by Response Surface Methodology	Alireza Shirneshan	2012
16	Theoretical Model and Performance Evaluation of an IC Engine Using Biofuels Blends	Mostafa Kiani Deh Kiani	2012
17	Optimization of Diesterol Fuel Blends in MF 399 Tractor Using Honey Bee Mating Optimal Routing Algorithm	Zeinab Shabani	2013
18	Construction and Evaluation of a solar laboratory dissalination with parabolic focal point	Shiva Gorjian	2013
19	Modeling and Optimization of the Growth of Micro Algae Biodiesel Production Using Agricultural Wastes	Mohamad Ali Mirzaie Bafghi	Ongoing
20	Process Intensification in Continuous Biodiesel Production by Research Spinning Hydrodynamic Cavitation Reactor	Ahmad Abbasszadeh Myvan	Ongoing
21	Bioethanol Dehydration by Surface Adsorption	Samira Karimi	Ongoing

	Method with Nanostructural Adsorbents		
22	Vibration Analysis of MF 399 Tractor Engine Using Diesel and Bioethanol Fuel Blends.	Mehdi Ayazi	Ongoing
23	Investigating the Effect of Diesel- bioethanol Fuel Blends on Perkins A63544 Diesel Engine	Taghipour Bafghi	Ongoing
23		Farzad Jalilian Tabar	Ongoing

14- Co-Advisor of Dissertation/ Thesis:

14-1 ME Dissertation:

S.N.	Title	Student	Year
1	Design and Fabrication of an Automatic Control Unit for Dryers of Agricultural Products	Mehrdad Khosh-hal	1996
2	Design and Fabrication of Hole Digger Attached to Power Tiller	Mohammad Reza Alizadeh	1997
3	Design, Fabrication and Evaluation of Disc-Type Nozzle for Centrifuge Sprayer	Mehdi Aryan	2003
4	Study of Soil Strength Mechanical Parameters Using Horizontal Sensor	Ali Mohammad Nikbakht	2005
5	Investigating the Practical Performance of the Power Tiller Vibration on Operators	Ahmad Taghizadeh Alisaraie	2005
6	Conceptual Design of a Non-Continuous Process Pilot for Biodiesel Fuel Production from High FFA Feedstock	Abbass Mohamadi	2006
7	Economics Investigation of Bioethanol Production to Substitute MTBE in Iran	Alireza Golzar	2009
8	Prediction of Edible Oil Consumption and Economic Evaluation of Biodiesel Production from Waste Cooking Oil	Ahmad Chegeni	2010
9	Feasibility Study of Bioethanol Fuel Production from Sugarcane in Iran	Sara Garousi	2010
10	Investigating the effects of nanoparticles on the	Mehdi Ghafouri	2010

	performance of rapeseed oil based on inedible biofuels in engines	wasksi	
11	Kinetic modeling of biofuel produced from sunflower oil by ultrasound systems	Safa Farajzadeh Bibalan	2010
12	Investigating the performance of a diesel engine using various diesel and biodiesel blends	Majid Fallahi Panah Najm Abadi	2010
13	Experimental Investigation of the Combustion in XU7JP Engine Using Environmental Friendly Fuel Of Gasoline and ETBE fuel to Reduce Fuel Consumption and Pollutions	Soheil Babazadeh Shayan	2011
14	Measurement, analysis and evaluation of power tiller vibration in transportation mode	Hossein Ahmadian	2011
15	Design, construction and evaluation of an automatic photovoltaic solar desalination	Mehdi Montazeri	2012
16	Investigating the D- Series fuel properties and its effect on MF-399 tractor engine performance and exhaust emissions	Vahideh Istan	2012
17	Investigation and vibration analysis of MF-399 tractor with biodiesel and diesel fuel blends	Aboulfazl Johar	2012
18		Saeed Faal	2012
19	Biodiesel Production as a Diesel Fuel Substitute from Potato Chips Waste Oils by Ultrasonic Method	Nabiolla Ghobadi	2012
20	Construction of Biogas Units in Iran(Case study: Biogas from animal wates)	Farzaneh Ghaemi	2013
21	The Feasibility of Using Biomass Iran's Energy Sector	Shima Javaheri	2013
22	Separation of Biodiesel and Glycerol Using Membrane	Mohammad Reza Shamlou Aliabadi	2013
23		Mani Ghanbari	2013
24	Design, Fabrication and Evaluation of Castor Oil Seed Stripper	Ahmad Nabizadeh	2013
25			2013

14-2 Ph.D. Thesis:

S.N.	Title	Student	Year
1	Investigating the Soil Compaction Effective Parameters by the Disc Plough and Moldboard Plough	Seadat Kamkar	2001
2	Evaluation of the Effective Parameters on Power Consumption, Force ...	Ezatollah Asgari Asli Ardeh	2001
3	Investigating the Liquid Pesticides Behavior in the Vicinity of the Magnetic and Electrical Fields of Agricultural Sprayers	Ali Jafari	2002
4	Study on the Traction Mechanics of Small Rubber Tires	Mohammad Javad Sheikhdavoodi	2003
5	Design, Development and Evaluation of Urea Enrichment Cereal Straw Machine	Mohammad Younesi Alamouti	2006
6	Investigation of the Thermophysical Properties of the Pestachio befor Drying Process	Ahmad Sadeghi	2006
7	Cobustion Process and Exhaust Emissions of a Dual Fuel Engine Using CNG and Biodiesel Fuels	Bahman Najafi	2006
8	Determination of Intelligent Prediction Model and Non-destructive Qualitave Properties of a Tomato Cultivar with Scattering Spectroscopy	Ali Mohammad Nikbakht	2009
9	Design, Construction and Evaluation of Solar Dryer with Temperature Control to Maintain the Quality Properties of Estameran Cultivar Dates	Majid Rahnema	2010
10	Design, Construction and Farm Assessment of Pre-Dryer on Soyabean Pods Combine	Mohsen Azadbakht	2011
11	Variable Rate Orchard Sprayer with Mechatronic Target using Ultrasonic Sensors	Hossein Maghsoudi	Ongoing
12	Mathematical Model and Empirical Analysis OF Hydraulic Load Sensor in Hydrostatic Power Transmission System	Peyman Nik Andish	Ongoing
13	The Effect of Nutrition Systems and Planting Arrangement on Grain Yield and Quality Standards	Arefeh Razzazi	Ongoing

	of Castor Oil for Biodiesel Production		
14	Investigating the Feasibility of Continuous Biodiesel Production with Ultrasonic-cum-Microwave	Mohamad Saffiedin Ardebili	Ongoing

15 - Courses taught:

15-1 Courses taught at under graduate level:

- Internal Combustion Engines
- Statistics and Probability
- Undergraduate student Projects

15-2 Courses taught at graduate level:

- Advanced Internal combustion Engines.
- Testing and Evaluation of Farm Machineries and Equipments.
- Farm Machinery Design
- Project and seminars(1 & 2)
- Special problems
- Research Methodology

15-3 Courses taught at Ph.D. level:

- Energy in Agriculture.
- Farm Machinery Design (2).
- Research Methodology and Project.
- New Topics in Agriculture.
- Energy Mnagement

16 - Three specialists familiar with the expert activities(professors in this field):

- Dr. Lotfullah Savadkoohi- Chief of Mechanical Research Institute, the Scientific and Industrial Research of Iran. Tehran, Iran. Tel:+98 130 4529
- Dr. Fathollah Ommi- Department of Mechanical Engineering. Faculty of Engineering, Tarbiat Modares University. Tehran, Iran. Tel:+98 1324767

- Dr. Kiamars Mazaheri- Department of Mechanical Engineering. Faculty of Engineering, Tarbiat Modares University. Tehran, Iran. Tel:+98 539 6792

17 – The other Activities (Awards, patents, etc.):

17-1 Management Eward

Best Chancellor Eward By the President of Islamic Republic of Iran
(During Chancellorship of the University of Shahrekord), 2001.

17-2 Superier Researcher Eward:

- Superier Researcher Eward – Tarbiat Modares University, 2005.
- Superier Researcher Eward – Tarbiat Modares University, 2006.
- Superier Researcher Eward – Tarbiat Modares University, 2007.
- Superier Researcher Eward – Tarbiat Modares University, 2008.
- Superier Researcher Eward – Tarbiat Modares University, 2009.
- Superier Researcher Eward – Tarbiat Modares University, 2010.
- Superier Researcher Eward – Tarbiat Modares University, 2011.
- Superier Researcher Eward – Tarbiat Modares University, 2012.
- Superier Researcher Eward – Tarbiat Modares University, 2013.
- Superier Researcher Eward – Tarbiat Modares University, 2014.

17-3 National patents:

- 1- Jafari, A. and **Ghobadian, B.** (1997). Design and Manufacture of Motorecycle Sprayer (1997). Patent No. 25690, dated September 17, 1997.
- 2- Imanmehr, A. and **Ghobadian B.** (2006). Pneumatic Conveyer for Canola Seed. Patent No. 34804, dated May 19, 2006.
- 3- Imanmehr, A. and **Ghobadian B.** (2006). Boom- Type Pneumatic Seeder. Patent No. 35426, dated June 19, 2006.
- 4- Mostafaie, B. and **Ghobadian, B.** (2006). Ultrasonic Nozzle. Patent No. 35557, dated July 2, 2006.
- 5- Mostafaie, B. and **Ghobadian, B.** (2006). Electrostatic Sprayer Equipped with Ultrasonic Nozzle. Patent No. 35558, dated June 2, 2006.
- 6- Khatamifar, M. and **Ghobadian B.** (2006). Biodiesel processor, BDI-80. Iranian Patent No. 36781(2006).

- 7- Khatamifar, M. Rahimi, H. and **Ghobadian B.** (2006). Biodiesel processor for rural areas. Iranian Patent No. 38714(2006).
- 8- Zenouzi, A. **Ghobadian B.** and Khatamifar, M. (2006). Full automatic research apparatus and multi- function. Iranian Patent No. 39373(2006).
- 9- Rahimi, H., **Ghobadian B.** and Khatamifar, M. (2006). Diesterol fuel. Iranian Patent No. 39407(2006).
- 10- Rahimi, H., and **Ghobadian B.** (2006). Warning System with Water-Ethanol Phase in Automotive Ethanol - Gasoline Fuel Tank. patent number: 43746, date of patent: 8/8/1386.
- 11- Bagherpour, H. Feizollahnejad, M. and **Ghobadian, B.** (2008). Semi-continuous process of biodiesel fuel processor - Iranian Patent No. 50380 (2008).
- 12- Zenouzi, A., Mohamadi, A., **Ghobadian, B.** and Minaie, S. (2008). Glycerin purification apparatus from waste vegetable oil. Iranian Patent No. 56463 (2008).
- 13- Rahnama, M., Khoshtaghaza, M.H. and **Ghobadian, B.** (2008). Solar Dryer Equipped with Moisture Absorbent. Patent No.: 57381, date of patent: 4/12/1387
- 14- Abbasszadeh, A. and **Ghobadian, B.** (2009). Batch type two tons biodiesel processor. Iranian Patent No. 63670 (2009).
- 15- Abbasszadeh, A. **Ghobadian, B.** and Omidkhah, M.R. (2009). The dual purpose biodiesel production and purification Apparatus. Iranian Patent No. 63672(2009).
- 16- Saffiedin Ardebili, M. and **Ghobadian, B.** (2009). Laboratory oil extruder machine with variable speed and temperature. Iranian Patent No. 6363476(2009).
- 17- Rostami Kondori, S. and **Ghobadian, B.** (2010). The car exhaust gas heating system. Patent Number: 65054, date of patent: 03.18.1389.
- 18- Ghafouri, M. Layeghi, M. and **Ghobadian, B.** (2010). Bio-nano-carbon fuel for diesel engines. Iranian Patent No. 67896(2010).
- 19- Ghafouri, M. Layeghi, M. and **Ghobadian, B.** (2010). Bio-nano-silver fuel for diesel engines. Iranian Patent No. 67897(2010).
- 20- Zenouzi, A., **Ghobadian, B.** and Hejazi, M.A. (2011). The Micro algae separation by electric current. Iranian Patent No. 68595(2010).
- 21- Zonouzi, A., **Ghobadian B.** and Hejazi. M.A. (2011). The micro algae hybrid harvesting system. Patent Number: 68598, Date of Patent: 12/01/1389.
- 22- Yahyaie, R. and **Ghobadian, B.** (2011). The oil extracting machine from waste fish for biodiesel production. Iranian Patent No. 70290(2011).

- 23- Mortezapour, H. and **Ghobadian, B.** (2011). Photovoltaic solar hybrid dryer equipped with heat pump. Patent Number: 70879, date of patent: 05.09.1390.
- 24- Mortezapour, H. and **Ghobadian, B.** (2011). Drying air conditions controller in th agricultural crop dryers. Patent Number: 70884, date of patent: 05.09.1390.
- 25- Montazeri, M., Bnakar, A. and **Ghobadian. B.** (2012). Solar-powered water desalination design equipped with an absorption for maximum energy and double condenser plate. Patent Number: 74246, Date of Patent: 17/12/1390.
- 26- Shadidi B., **Ghobadian B.** and Haji Agha Alizadeh H. (2012). Diesohol Fuel. Patent Number: 75411, Date of Patent: 22/03/1391.
- 27- Ahmdaghaie A. and **Ghobadian, B.** (2012). Biolubricant from castor plant species in Dezful region called Mousavi using its lubricant properties. Patent Number: 76395, Date of Patent: 18/05/1391.
- 28- Ahmdaghaie A. and **Ghobadian, B.** (2012). Biolubricant from castor plant species in Kerman region. Patent Number: 76395, Date of Patent: 5/06/1391.
- 29- Ahmdaghaie A. and **Ghobadian, B.** (2012). Biolubricant from castor plant species in Izeh region called “Ghobadian” using its lubricant properties. Patent Number: 76562, Date of Patent: 12/06/1391.
- 30- Abedi S., Hajinezhad A., and **Ghobadian B.** (2012). Biodiesel Production from Norouzak (*Salvia lerifolia*) Indigenous Plant of Hot and Arid regions of Iran. Patent Number: 78366, Date of Patent: 3/11/1391.
- 31- Abedi S., Hajinezhad A., and **Ghobadian B.** (2012). Biodiesel Production from Gaz(*Moringa perengrina*) Endemic plant of Iran. Patent Number: 79131, Date of Patent: 20/01/1392.