

## **Masoud Hashemi**

Extension Associate Professor (Sustainable food and farming)

[masoud@umass.edu](mailto:masoud@umass.edu)

207 Bowditch Hall, University of Massachusetts, Amherst, MA 01003-9294

Tel: (413) 545-1843, Fax: (413) 545-0260

### **AREAS OF INTERESTS**

Broad interest in the area of sustainable food and farming systems with special emphasis in cover cropping, soil health and enhancement of environmental quality.

### **EDUCATION**

**Ph.D.** Plant and Soil Sciences, 1990, University of Massachusetts Amherst, U.S.A.

**M.S.** Agronomy, 1975. Pahlavi University, Shiraz, Iran.

**B. S.** Agronomy, 1972, Pahlavi University, Shiraz, Iran.

### **PROFESSIONAL EXPERIENCE**

2013 – Present: Extension Associate Professor. Stockbridge School of Agriculture, UMass Amherst

2011 – 2013: Extension Assistant Professor. Stockbridge School of Agriculture, UMass Amherst.

2001 – 2012: Adjunct Associate Professor, Dept. Plant, Soil, and Insects Sciences, UMass Amherst.

2000 – 2011: Extension Educator, University of Massachusetts Amherst, MA.

1995 – 1999: Associate Professor, Shahid Chamran University, Ahwaz, Iran.

1993 – 1997: Director, Ramin Agric. Research Center, Shahid Chamran University, Ahwaz, Iran.

1990 – 1995: Assistant Professor, Shahid Chamran University, Ahwaz, Iran.

1990 – 1992: Dean, Ramin Agric. Research and Education School. Shahid Chamran University, Ahwaz, Iran.

1977 – 1986: Lecturer, Department of Agronomy, Ahwaz University, Ahwaz, Iran.

### **RECENT AWARDS, HONORS, CERTIFICATES**

2015 Certificate; New England Forage and Weed ID and Management Training

2013 Certificate of Online Course; Animal Agriculture and Climate Change. USDA-NIFA.

2004 Certificate of Training. Nutrient Management and Land Treatment Course (*NM/PM Module 7; and CORE4*).  
USDA-NRCS.

2004 Certificate of Training. Conservation Planning Course (*Modules 6-8*). USDA-NRCS.

## **Publications:**

**Summary:** Books (4), Published refereed journal articles (100), Refereed full papers in proceedings (2), Conference papers/posters (58), Research reports (59), Extension newsletter articles (35), Extension factsheets (102), Extension Videos (3).

### **a) Books:**

**Hashemi, M.** and M. Ali Khani. 2000. Seed dormancy and germination. (Translated). 2<sup>nd</sup>. ed. Shahid Chamran University Press.

Meidani, J. and **M. Hashemi**. 1997. Postharvest physiology. 2<sup>nd</sup> ed. Agricultural Education Press.

Koochaki, M. Hosseini, and **M. Hashemi**. 1996. Sustainable agriculture. 8<sup>th</sup> ed. Mashad Univ. Press.

**Hashemi, M.**, A. Koochaki, and M. Banayan. 1995. Maximizing crop yield. (Translated). 10<sup>th</sup>. ed. Mashad Univ. Press.

### **b) Recent Published Peer Reviewed Articles:**

Jahanzad, E., A. Sadeghpour, **M. Hashemi**, R. Keshavarz Afshar, M. B. Hosseini and A.V. Barker. 2015. Silage fermentation profile, chemical composition and economic evaluation of millet and soybean grown in monocultures and as intercrops. *Grass and Forage: accepted*

Jahanzad, Emad, Amir Sadeghpour, Mohammad B. Hoseini, Allen V. Barker, **Masoud Hashemi**, Reza Keshavarz Afshar. 2015. Competition, Nitrogen Use Efficiency, and Productivity of Millet-Soybean Intercropping in Semi-arid Conditions. *Crop Science*. doi:10.2135/cropsci2015.02.0130.

Sadeghpour, A., **M. Hashemi**, E. Jahanzad, S.J. Herbert. 2015. Switchgrass stand density and yield as influenced by seedbed preparation methods in a sandy loam soil.. *BioEnergy Research*. doi: 10.1007/s12155-015-9638-693.

Sadeghpour, A., **M. Hashemi**, S.A. Weis, J. T. Spargo, S. Mehrvarz, S.J. Herbert. 2015. Assessing tillage systems for reducing ammonia volatilization from spring-applied slurry manure. *Communication in Soil Science and Plant Analysis*. doi 10.1080/00103624.2015.1005223.

Gorlitsky, L.E., A. Sadeghpour, **M. Hashemi**, F. Etemadi, S.J. Herbert. 2015. Biomass vs. quality tradeoffs for switchgrass in response to fall harvesting period. *Industrial Crops and Products*. 63:311-315. doi: 10.1016/j.indcrop.2014.10.012.

Keshavarz Afshar, R., M.R. Chaichi, A. Alipour, M. Ansari Jovini, M. Dashtaki, and **M. Hashemi**. 2015. Potential of milk thistle for biomass production in semiarid regions. *Crop Science*. 55:1-7. doi: 10.2135/cropsci2014.10.0678.

Keshavarz Afshar, Reza, Mohammad Reza Chaichi, Mahya Ansari Jovini, Emad Jahanzad, **Masoud Hashemi**. 2015. Accumulation of silymarin in milk thistle seeds under drought stress. *Planta*. doi 10.1007/s00425-015-2265-9.

Keshavarz Afshar, R., Chaichi, M.R., Rezaei, K., Asareh, M. H., **Hashemi, M.**, 2015. Irrigation regime and soil organic fertilizers influence on oil content and fatty acid composition of milk thistle seeds. *Agronomy Journal*. 107(1):187-194. doi:10.2134/agronj14.0368.

Jahansuz, M.R., Keshavarz Afshar, R., Heidari Zooleh, H., **Hashemi, M.** 2014. Evaluation yield and quality of sorghum and millet as alternative forage crops to corn under normal and deficit irrigation systems. *Jordan Journal of Agricultural Sciences*. 10(4): 699-715.

Sadeghpour, A., **M. Hashemi**, M. DaCosta, E. Jahanzad, L.E. Gorlitsky, S.J. Herbert. 2014. Switchgrass establishment and biomass yield response to seeding date and herbicide application. *Agronomy Journal*. 107:142-148. doi:10.2134/agronj14.0288.

Sadeghpour A., **M. Hashemi**, M. DaCosta, LE Gorlitsky, E. Jahanzad, S.J. Herbert. 2014. Assessing winter cereals for weed control in reduced-tillage switchgrass establishment. *Industrial Crops and Products*. 62:522-525. doi: 10.1016/j.indcrop.2014.09.027.

Sadeghpour, A., **M. Hashemi**, S.J. Herbert. 2014. A simple vigor test for adjusting switchgrass seeding rate in fertile and marginal soils. *Grassland Science*. 60: 252-255. doi: 10.1111/grs.12066.

Keshavarz, Afshar, R, Mahya Ansari Jovini, Mohammad Reza Chaichi, **Masoud Hashemi**. 2014. Grain sorghum

- response to arbuscular mycorrhiza and phosphorus fertilizer under deficit irrigation. *Agronomy Journal*. 106(4): 1212-1218. doi:10.2134/agronj13.0589.
- Sadeghpour, Amir, **Masoud Hashemi**, Michele DaCosta, Emad Jahanzad, Stephen Herbert. 2014. Switchgrass establishment influenced by cover crop, tillage systems, and weed control. *BioEnergy Research*. 7: 1402-1410. doi 10.1007/s12155-014-9485-x
- Jahanzad, E., A. Sadeghpour, M. B. Hosseini, A. V. Barker, M. Hashemi, and O. R. Zandvakili . 2014. Silage yield and nutritive value of millet–soybean intercrops as influenced by nitrogen application. *Agronomy Journal*. 106 (6): 1993-2000. doi:10.2134/agronj13.0542.
- Javanmard, T., Z. Zamani, R. Keshavarz Afshar, **M. Hashemi**, and P. C. Struik. 2014. Seed washing, exogenous application of gibberellic acid, and cold stratification enhance the germination of sweet cherry (*Prunus avium* L.) seed. *Journal of Horticultural Science & Biotechnology*. 89 (1) 74–78.
- Keshavarz Afshar, R, M.R. Chaichi, M. H. Asareh., **M. Hashemi**, A. Liaghat. 2014. Interactive effect of deficit irrigation and soil organic amendments on seed yield and flavonolignan production of milk thistle (*Silybum marianum* L. Gaertn.). *Industrial Crops and Products*. 58:166-172.
- Sadeghpour, A. L. E. Gorlitsky, **M. Hashemi**, S. A. Weis, and S. J. Herbert. 2014. Response of switchgrass yield and quality to harvest season and nitrogen fertilizer. *Agronomy Journal*. 106: 290-296.
- Sadeghpour, A., E. Jahanzad, A.S. Lithourgidis, **M. Hashemi**, A. Esmaeili, M.B. Hosseini. 2014. Forage yield and quality of barley-annual medic intercrops in semi-arid environments. *International Journal of Plant Production*. 8(1): 77-90.
- Zhou, K.Q., G.D. Wang, Y.H. Li, X.B. Liu, S. J. Herbert, **M. Hashemi**. 2014. Assessing variety mixture of continuous spring wheat (*Triticum aestivum* L.) on grain yield and flour quality in Northeast China. *International Journal of Plant Production*. 8(1): 91-105.
- Sadeghpour, A., L.E. Gorlitsky, **M. Hashemi**, S.A. Weis, and S.J. Herbert. 2014. Response of Switchgrass yield and quality to harvest season and nitrogen fertilizer. *Agronomy Journal*. 106: 290-296.
- Ghasemi Pirbalouti, A., M. Rahmani Samani, **M. Hashemi**, and H. Zeinali. 2013. Salicylic acid affects growth, essential oil and chemical compositions of Thyme (*Thymus daensis* Celak.) under reduced irrigation. *Plant Growth Regulation*. DOI 10.1007/s10725-013-9860-1
- Hashemi, Masoud** and Amir Sadeghpour. 2013. Establishment and production of switchgrass grown for combustion; A review. *International Journal of Plant Biology & Research*. 1: 1002-1013.
- Hashemian, Neda, Abdollah Ghasemi Pirbalouti, **Masoud Hashemi**, Ahmadreza Golparvar, Behzad Hamedi. 2013. Diversity in chemical composition and antibacterial activity of essential oils of cumin (*Cuminum cyminum* L.) diverse from northeast of Iran. *Australian Journal of Crop Science*. 7(11):1752-1760.
- Keshavarz Afshar, R., A. Alipour, **M. Hashemi**, M. Ansari Jovini, D. Pimental. 2013. Energy inputs-yield relationship and sensitivity analysis of pistachio (*Pistacia vera* L.) production in Markazi Region of Iran. *Spanish Journal of Agricultural Research*. 11(3): 661-669.
- Zhang, Q.Y., **M. Hashemi**, S.J. Hebert and Y.S. Li. 2013. Different responses of pre-emergence and early seedling growth to planting depth between vegetable soybean and grain soybeans. *Legume Research*. 36(6) 515-521.
- Sadeghpour, A. E. Jahanzad, A. Esmaeili, M.B. Hosseinei, **M. Hashemi**. 2013. Forage yield, quality and economic benefit of intercropped barley and annual medic in semi-arid conditions: Additive series. *Field Crops Research*. 148: 43-48.
- Li, Y.S., M. Du, Q.Y. Zhang, **M. Hashemi**, X.B. Liu and S.J. Herbert. 2013. Correlation and path coefficient analysis for yield components of vegetable soybean in northeast china. *Legume Research*. 36(4): 284- 288.
- Mehrvarz, S., M.R. Chaichi, **M. Hashemi**, M. Parsinejad. 2013. Yield and growth response of maize (*Zea Mays* L.S.C. 704) to surfactant under deficit irrigation. *International Journal of Plant and Animal Sciences*. 1(3):

- Ghasemi Pir Balooti, A. **M. Hashemi**, F. Taherian Ghahfarokhi. 2013. Essential oil and chemical compositions of wild and cultivated *Thymus daenensis* Celak and *Thymus vulgaris* L. *Industrial Crops and Product*. 48: 43-48.
- Sadeghpour. A, E. Jahanzad, **M. Hashemi**, A. Esmaeili, S.J. Herbert. 2013. Intercropping annual medic with barley may improve total forage and crude protein yield in semi-arid condition. *Australian Journal of Crop Science*. 7(12): 1822-1828.
- Qiuying Zhang, Zhaolin Li, Bingjin Han, Keqin Zhou, Xingyi Zhang, **Masoud Hashemi**, and Xiaobing Liu. 2013. Immediate responses of cyst nematode, soil-borne pathogens and soybean yield to one-season crop disturbance after continuous soybean in Northeast China. *International Journal of Plant Production*. 7(2): 341-354.
- Hashemi, M.** A. Farsad, A. Sadeghpour, S. Weis, S.J. Herbert. 2013. Cover-crop seeding-date influence on fall nitrogen recovery. *Plant Nutrition and Soil Science*. 176: 69–75.
- Farsad A., S.J. Herbert, **M. Hashemi**, and A. Sadeghpour. 2012. An automated suction lysimeter for improved soil water sampling. *Vadose Zone Journal*. 11(4): doi: 10.2136/vzj2012.0003.
- Herbert, S.J., L. Gorklitsky, **M. Hashemi**, A. Sadeghpour. 2012. Evaluating switchgrass varieties for biomass yield and quality in Massachusetts. SunGrant proceedings of biofuels, New Orleans, LA. October 2-5 (full paper). <http://sungrant.tennessee.edu/NR/rdonlyers/3880A277-C502-4EC9-9DEB-C385186A5C85/3701/29Herbert.pdf>
- Yan-sheng Li , Ming Du , Qiu-ying Zhang, Guang-hua Wang, **Masoud Hashemi**, Xiaobing Liu. 2012. Greater differences exist in seed protein, oil, total soluble sugar and sucrose content of vegetable soybean genotypes [Glycine max (L.) Merrill] in Northeast China. *Australian Journal of Crop Science*. 6(12): 1681-1686.
- Liu Xiaobing, Yansheng Li, Bingjin Han, Qiuying Zhang, Keqin Zhou, Xingyi Zhang, **Masoud Hashemi**. 2012. Yield response of continuous soybean to one-season crop disturbance in a previous continuous soybean field in Northeast China. *Field Crops Research*. 138: 52-56.
- Esmaeili, A., A. Sadeghpour, S.M.B. Hosseini, E. Jahanzad, M.R. Chaichi, and **M. Hashemi**. 2011. Evaluation of seed yield and competition indices for intercropped barley (*Hordeum vulgare*) and annual medic (*Medicago scutellata*). *International Journal of Plant Production*. 5: 395-404.
- Farsad, A., S.J. Herbert, T. Randhir, and **M. Hashemi**. 2011. Spatial modeling of critical planting date for winter rye cover crop to enhance nutrient recovery. *Agronomy Journal*. 103: 1252-1257.
- Liu, B., X. Liu, C. Wang, J. Jin, S.J. Herbert, and **M. Hashemi**. 2010. Responses of soybean yield and yield components to light enrichment and planting density. *International Journal of Plant Production*. 4: 17-26.
- Herbert, S.J., X.B. Liu, G. Baath, J. Jin, Q.Y. Zhang, and **M. Hashemi**. 2010. Seed growth characteristics of some short-season indeterminate soybeans. *Acta Agronomica Sinica*. 36: 496-501.
- Zhang, Q.Y., Q.L. Gao, S.J. Herbert, Y.S. Li, and **M. Hashemi**. 2010. Influence of sowing date on phenological stages, seed growth and marketable yield of four vegetable soybean cultivars in Northeastern USA. *African Journal of Agricultural Research*. 5(18): 2556-2562.
- Nadian, H., **M. Hashemi**, and S. J. Herbert. 2009. Soil aggregates size and mycorrhizal colonization effect on root growth and phosphorus accumulation by Berseem clover. *Communication Soil Science and Plant Analysis*. 40: 2413-2425.

### Refereed Articles in Proceedings:

- Herbert, S.J., L. Gorklitsky, **M. Hashemi**, A. Sadeghpour. 2013. Evaluating Switchgrass Varieties for Biomass Yield and Quality in Massachusetts. Proceedings from Sun Grant National Conference: Science for Biomass Feedstock Production and Utilization, New Orleans, LA. Retrieved from [www.sungrant.tennessee.edu/NatConference/](http://www.sungrant.tennessee.edu/NatConference/) Science for Biomass Feedstock Production and Utilization, New Orleans, LA. Retrieved from [www.sungrant.tennessee.edu/NatConference/](http://www.sungrant.tennessee.edu/NatConference/).
- Hashemi, Masoud** and Atakan Kadi. 2015. Low Cost Aerated Static Composting Systems for Small Acreage Equine Operations. Waste to worth conference Seattle, WA. March 30-April 3, 2015.

### c) Extension Videos

- Hashemi, Masoud**. 2011. Kenaf: Grow it, Recycle It! UMass Amherst Evaluates it for Use in the Paper Industry. <http://www.umass.edu/researchnext/kenaf-grow-it-recycle-it-umass-amherst-evaluates-it-use-paper-industry>

Herbert, S. J. and **M. Hashemi**. 2011. UMass Research Farm Yields New Energy.

<http://www.youtube.com/watch?v=YEZUZqGpMwA>

Etemadi, Fatemeh, **Masoud Hashemi**, and **Francis Mangan**. 2015. Growing Fava beans in Northeast.

# TEACHING

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Currently teaching responsibilities include “STOCKSCH 350 Sustainable Soil and Crop Management”, “STOCKSCH 211 Pasture Management”, “HONORS 391 Honors Seminar”, “STOCKSCH 691S Journal club; plant-soil microbe interaction”, “Independent Studies” and “co-teaching Biochem 690A Plant Biology Core Course I.” The following courses have been taught:

## *UMass:*

2014-present	Plant Biology Graduate Program Core I	Graduate
2014-present	Journal club (plant-soil microbe interaction)	Graduate
2013-present	Pasture Management	Undergrad
2013-present	Honors Seminar	Undergrad
2009-present	Sustainable soil and Crop Management	Undergrad
2010-present	Independent Study	Undergrad
2013 - 2014	Plant Science	Undergrad

## *Iran:*

1990-1999	Crop Physiology	Undergrad
1990-1999	Advanced Crop Physiology I	Graduate.
1991-1999	Advanced Crop Physiology II	Graduate
1991-1999	Environmental Stresses	Graduate
1992-1999	Recent Topics (MS)	Graduate
1992-1999	Recent Topics (PhD)	Graduate
1991-1996	Plant-Soil-Water Relationship	Undergrad
1992-1996	Advanced Plant-Soil-Water Relationship	Graduate
1993-1999	Physiology of Plants Under Stress	Graduate
1993-1998	Physiology of Plant-Water Relationship	Graduate
1978-1986	Agricultural Botany	Undergrad

## **Graduate Committee (2000-present):**

Chair	PhD (In progress)	UMass	Samantha Glaze	Cover Cropping
Chair	PhD (In progress)	UMass	Caroline Wise	Malting Barley
Chair	MSc (In progress)	UMass	Julie Stultz-Fine	Cover Cropping
Chair	PhD (In progress)	UMass	Fatemeh Etemadi	Sustainable Ag.
Co-Chair	PhD (In progress)	U. Ahwaz	Saeed Zaker-Nejad	Crop Physiology
Member	PhD (In progress)	UMass	Omid Zandvakili	Cover cropping
Member	PhD (In progress)	UMass	Parisa Akbari	Cover cropping
Member	PhD (In progress)	UMass	Hoveizeh Karimi	Cover cropping
Member	PhD (In progress)	UMass	Zoe Gardner	Medicinal Plants
Member	PhD (In progress)	UMass	Suzan Sheibani	Autism
Member	MSc (In progress)	UMass	Kun Jia	Turf Physiology
Co-Chair	PhD (Graduated)	UMass	Amir Sadeghpour	Biofuels
Member	PhD (Graduated)	UMass	Emad Jahanzad	Crop Nutrition
Member	PhD (Graduated)	UMass	Emily Cole	Biochar
Member	PhD (Graduated)	UMass	Ganisher Abbasov	Medicinal Plants

Member	PhD (Graduated)	U. Tehran	Soodeh Mehrvarz	Biofertilizers
Member	PhD (Graduated)	U. Tehran	Reza Keshavarz	Medicinal Plants
Member	PhD (Graduated)	UMass	Ali Farsad	Cover Cropping
Member	PhD (Graduated)	UMass	Xiaobing Liu	Crop Physiology
Member	PhD (Graduated)	UMass	Leryn Gorlitski	Biofuels
Member	MSc (Graduated)	UMass	John Dudula	Climate Change
Member	MSc (Graduated)	UMass	Keith Toffling	Climate Change
Member	MSc (Graduated)	UMass	Misa Cady	Phosphorus and Env.
Member	MSc (Graduated)	UMass	Daniel Forberg	Biofuels
Member	MSc (Graduated)	UMass	Tianchuan Li	Crop Nutrition
Member	MSc (Graduated)	UMass	Katherine Nelson	Nutrient Management
Member	MSc (Graduated)	UMass	Cynthia Barstow	Agric. Marketing

## SERVICE

### I. Service to University, College, Department, Extension

#### *University of Massachusetts*

- 2012- present Academic Priorities Council
- 2012- present Admissions and Records Committee
- 2001- 2002 Board of Directors, UMass Alumni Association.

#### *College of Natural Sciences*

- 2013- present AG/ENV Scholarships Committee
- 2014- present Plant Biology Graduate Program Steering Committee
- 2015- present ECo/GeoSci/Stockbridge Ad-hoc Graduate Program Committee

#### *Center for Agriculture, Food, and Environment*

- 2001- present Crops and Animals Research Center Committee
- 2010- 2011 Reorganizing and restructuring of Center for Agriculture, Food, and Environment Ad-hoc Committee
- 2011-2013 Agricultural Learning Center Committee

#### *Stockbridge School of Agriculture*

- 2012- present Graduate policy committee
- 2012- present Equine program committee
- 2013- present Chair, Gerald O. Mott Award committee
- 2014- present Personnel committee
- 2015- present Seminar committee
- 2012- 2014 Project committee

#### *UMass Extension*

- 2000- present Nutrient/manure management contact person for UMass Extension. Annually, receiving 100 phone calls, 150 e-mail, 10 office visits, and 15 farm visits (on average).
- 2003- present Vegetable Team member. Agriculture and Landscaping Program. UMass Extension.
- 2006- present UMass Research Farm operations committee.
- 2009- present Team Leader, Crops, Dairy, Livestock, and Equine, Agriculture and Landscape Program
- 2009- present Agronomy and pasture management contact person for UMass Extension. Annually, receiving 90 phone calls, 60 e-mail, 6 office visits, and visited 15 farms (on average).
- 2009- present Editor, Crops, Dairy, Livestock, Equine Newsletter.
- 2009- present Editor, Massachusetts Agronomy Research Report.

- 2011- present Stockbridge Equine Program.  
2000- 2009 Crops, Dairy, Livestock, and Equine Team. Agriculture and Landscape Program. UMass Extension.  
2005- 2011 Chair, Water Resource Protection Issue Group, UMass Extension.

## **II. Service to State and Regional Organizations**

- 2000- present Massachusetts USDA/Extension Nutrient Management Advisory Committee.  
2000- present Central Massachusetts Dairy Producers Committee.  
2002- present State contact person for National Grain Corn Contest.  
2003- present New England Green Pasture Committee.  
2006- present Technical reviewer for Northeast SARE.  
2009- present State Coordinator and State Host, New England Green Pastures  
2013- present USDA-NRCS State Technical Committee member  
2014- present Industrial Hemp Research Promoting Group  
2014- present MDAR-UMass Nutrient Management Regulations Committee  
2015- present Northeast Cover Crop Council Committee member  
2000- 2005 USDA-NRCS State Committee EQIP grants to farmers.  
2005- 2015 NE-1024 Multistate Regional Research Project. Whole Farm Dairy and Beef Systems for Environmental Quality.  
2009- 2014 NE-1041 Multistate Regional Research Project: Environmental Impacts of Equine Operations.  
2015- 2019 NE-1441 Multistate Regional Research Project: Environmental Impacts of Equine Operations.

## **III. Service to Profession/Discipline**

### ***Membership to Professional Societies***

- 1987- present American Society of Agronomy  
1987- present Crop Science Society of America  
2001- present Soil Science Society of America  
1990-1999 Iranian Society of Agronomy and Plant Breeding

### ***Editorial Boards***

- 2007- present Editorial Board *International Journal of Plant Production*.  
2009- present Editor, *Crops, Dairy, Livestock, Equine Newsletter*.  
2009- present Editor, *Massachusetts Agronomy Research Report*.  
2010- present Editorial Board *Iranian Journal of Sustainable Agriculture*.  
2012- present Editorial Board *Iranian Journal of Crop Sciences*  
2012- present Editorial Board *Scientific Journal of Agronomy and Plant Breeding*.

### ***Manuscript Reviewer***

Ad hoc reviewer for several scientific journals including (on average, reviewing 10 manuscripts annually):  
*Agronomy Journal, International Journal of Plant Production, Crop Science, Journal of Horticultural Science and Biotechnology, Field Crops Research, World Applied Science Journal, Journal of Agricultural Science and Technology, Canadian Journal of Soil Science, Archives of Agronomy and Soil Science, Egyptian Journal of Applied Agriculture, Research, Ground Water Monitoring & Remediation, International Journal of Agronomy.*

### **International services:**

- 2010 - present Hosting faculty to spend their sabbatical in my lab; Egypt (2), Austria (1), Ukraine (1), Iran (4)  
2007 Invited as keynote speaker and conducted workshop on nutrient management. Agricultural Research Institution. Chengdu, P.R. China.  
1994- 1999 Chair, Editorial Committee, Scientific Publications, Ramin Agric. Res. Center, Iran.

- 1995- 1999 Chair, Agricultural Research Evaluation Committee, Ministry of Agriculture, Iran.
- 1995- 1998 Technical Committee member, Iranian Sugar Beet Research Organization.
- 1996- 1998 Chair, Iranian Society of Crop Production and Breeding.
- 1993- 1997 Research Council, Shahid Chamran University, Ahwaz, Iran.
- 1990- 1992 Dean, Ramin Agricultural Research and Education Center, Shahid Chamran University, Ramin, Iran.