

Curriculum Vitae

Mohammad Noor Alhamad



PERSONAL

- **Date and place of birth:** Jordan, 1970
- **Nationality:** Jordanian
- **Marital status:** Married

PRESENT ADDRESS

Dep. of Natural Resources & the Environment
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EDUCATION

- 1999-2002 Ph.D. in Rangeland Ecology & Management. Tex A&M Univ. Texas, USA
1993-1995 M.Sc. in Plant Production/Field crops. University of Jordan. Amman, Jordan
1988-1992 B.Sc. in Plant Production. University of Jordan. Amman, Jordan

TEACHING AND PROFESSIONAL EXPERIENCE

- 2013-present Jordan University of Science and Technology**
- Professor of Natural Resources Ecology & Biodiversity
- 2007-2013 Jordan University of Science and Technology**
- Associate Professor of Natural Resources Ecology & Biodiversity
- 2011-2013 Acting Chairperson, Dep. of Natural Resources & Environment, JUST**
- 2002-2007 Jordan University of Science and Technology (JUST)**
- Assistant Professor of Natural Resources Ecology & biodiversity
- 1996-1999 National Center for Agri. Res. & Extension (NCARE)/ Jordan**
- Researcher/The Mashreq & Magreb (M&M) project
 - Researcher/Low Rainfall Area Program
 - Researcher/Rainfed Agriculture Program
- 1995-1996 The M&M project at ICARDA/regional office, Amman/Jordan**
- Assists in coordination activities of M& M project for the development of integrated crop/livestock production in the low rainfall areas
- 1992-1993 Statistical Researcher at the Dep. of General Statistics/ Jordan**

TEACHING EXPERIENCE

GRADUATE LEVEL

- NR 712 Integrated Ecology
- NR 788 Special Topics: Landscape ecology and analysis
- NR 791 Seminar

UNDERGRADUATE LEVEL

- NR 200 Natural Resources & Man
- NR 331 Range Management
- NR 352 Grazing Management
- NR 363 GIS & Remote Sensing
- NR 451 Range Ecology
- NR 471 Rangeland Sustainable Development & Improvement
- NR 491 Seminar

SUPERVISOR /COSUPERVISOR FOR MASTER THESIS GRADUATE STUDENTS

- Hana I. Athameha. Improving dryland revegetation success using volcanic Tuff. **January, 2014**. Department of Natural Resources and Environment, JUST, Irbid, Jordan
- Nizar S. Obeidat. Integrated management of Al-Yarmouk Nature Reserve. **May 2013**, Department of Natural Resources and Environment, JUST, Irbid, Jordan
- Ahmad H. Albdoor. Integrated honeybee management in Jordan. **May, 2013**. Department of Natural Resources and Environment, JUST, Irbid, Jordan
- Samah A. Jaradat. Community based management of natural resources in dry areas in northeastern Jordan. **Jan. 2013**. Department of Natural Resources and Environment, JUST, Irbid, Jordan
- Ishraf A. Talafhah. Deforestation in Ajloun governorate: problems and solution. **Jan. 2013**. Department of Natural Resources and Environment, JUST, Irbid, Jordan
- Hamza Alzoubi. Estimation of Atriplex shrubs biomass using allometry and digital image technology. **May, 2011**. Dept. of Plant production, JUST, Irbid, Jordan

GRADUATE EXAMINATION ACTIVITIES

- **June 2012** Thesis Examiner; Dep. of Food Technology and Nutrition /JUST
- **June 2007** Thesis Examiner; Dep. of Plant Production /JUST

TECHNICAL EXPERTISE

- Rangeland management and monitoring using Biophysical Modeling aided by time series analysis & remote sensing technology for rangeland monitoring and Ecological forecasting
- Developing ecological indicators for monitoring natural vegetation conditions(rangeland and forestry)
- Statistical ecology and biodiversity modeling (including alpha & beta diversity analysis, species abundance relationships, species interaction, ordination & classification methods, bootstrapping and Monte Carlo simulation)

- GIS and remote sensing software (ARC GIS, ERDAS, GS+) for lands use/cover classification & analysis, ecosystem function & structure.
- Univariate & multivariate analysis (SAS, SPSS packages),
- Time series analysis using Box & Jenkins ARIMA modeling & forecasting, spectral analysis and wavelet denoising.
- Landscape and spatial pattern analysis (geostatistics: variogram, kriging & cokriging methods) & patch analysis (FRAGSTAT), mantel test

RESEARCH ACTIVITIES AND INTERESTS

My research interests focus on the ecology of natural resources in dry areas using with the aid of GIS and RS technologies, in particular in ecology of dryland plant communities. My research explores the following areas

- Natural vegetation ecology: biodiversity; productivity- disturbance- diversity relationships; fire impact on community structure, species interactions
- Investigating GIS & remote sensing : monitoring of natural vegetation (forest and rangeland); Land use/cover classification & change; landscape pattern; landscape metrics and domain of scale
- Community-based management of dryland natural resources
- Time series analysis, biophysical modeling and ecological forecasting
- Use of treated waste water in rehabilitation and revegetation of arid and semiarid lands
- Investigating the use of various agricultural byproducts (olive cake, sesame cake and seed coat) and non-traditional feed resources (Carob pods and leaves) as a subsidiary feed resources for grazing animals to alleviate pressure on rangeland & minimize adverse impact of these byproducts on the environment.

HONOR, SCHOLARSHIPS AND AWARDS

- 2010** **The Hisham Hijjawi Award for Applied Science in the Field of: Agriculture, Water and Environment for the year 2010.** The Scientific Foundation of Hisham Adeeb Hijjawi, Amman, Jordan.
- 2009** **Sawsana Award for Agricultural Excellence for the year 2009.** The Technical Consultancy Center, Amman, Jordan
- 2008** Arab Administrative Development Organization (ADDO) prize for “**Environmental Management**”, third prize, (2008), League of Arab States, Cairo, Egypt
- 2007** Arab Organization for Agricultural Development (AOAD) prize for Scientific Innovation in Agriculture “**Developing Natural Resources, Protecting Biodiversity & Environment & Combating Desertification**”, second prize, (2006) League of Arab States, Khartoum, Sudan
- 2000-2001** **ICSC world laboratory scholarship.** ICSC World laboratory/Switzerland
- 1999-2002** **JUST (Jordan University of Science and Technology) scholarship** to pursue Ph.D. education at TAMU, Texas, USA
- 1998** **NCARE distinguished researcher award.** National Center for Agricultural Research and Extension/ Ministry of agriculture, Amman/Jordan

1993-1995 NCARE/USAID scholarship to pursue M. Sc. degree at UoJ, Amman/Jordan

1988-1992 Ministry of Higher Education scholarship to pursue B. Sc degree at UoJ, Amman/Jordan

PROJECT INDEPENDENT REVIEWER

August 2010 –2012

Acting as Individual Independent Reviewer for the services of the evaluation of the Badia Ecosystem Restoration Program (BRB). BRP is being implemented with funds awarded by the United Nation Compensation Commission, aims to restore the Badia ecosystem (rangelands and wildlife habitats), through implementing a package of restoration projects supported with socioeconomic incentives and evaluated by comprehensive performance indicators. Jordan National Focal Point (JNEP)/Ministry of Environment and UNCC.

CONSULTANCIES AND TECHNICAL REPORTS

- Write a report on “ Vegetation Inventory of Rum Nature Reserve and study the foraging behavior of Arbyan Oryx and training the Staff in RNR. July (2012). Sheikh Mohammad Bin Zayed Al Nahyan reintroducing Arabian oryx, Wady Rum Project. Aqaba Special Economic Zone Authority, Aqaba, Jordan
- Evaluate the primary productivity and foraging behavior of Arabian Oryx for sustainable management Rum Nature Reserve. Sheikh Mohammad Bin Zayed Al Nahyan reintroducing Arabian oryx, Wady Rum Project. Aqaba Special Economic Zone Authority, Aqaba, Jordan, 2010
- Preparing rangeland monitoring material for the regional expert consultation on range monitoring in the Near East, 26-28 Nov (2007) FAO, Cairo, Egypt
- Write a report to FAO on ”rangeland monitoring in Jordan” , 58 Pages. FAO, August, 2006

TRAINED PROFESSIONAL COURSES

- Develop and teaching training course on **Natural Resources Management & Environment for Local Planners in Iraq, UNDP-JUST, Irbid-Jordan, 19-23July 2009**. Taught materials include formal lectures on natural resources, human impact on natural resources, ecological footprint, living planet index, ecosystem management, Natural resources based planning and review climate change convention and Kyoto protocol. Following the formal lectures groups discussion were organized and trainers were exposed to various exercises on the engagement of stakeholders in planning for natural resources with local community.

PROJECTS AND GRANTS

2010 Community Based Management of Natural Resources in Dry Areas in Northeastern Jordan. Master Thesis Project. Principle investigator. USAID, local currency grant to Jordan/ JEWEL, JUST

2010 Deforestation in Ajloun Governorate: Problems and Solution Master Thesis Project. Co-investigator. USAID, local currency grant to Jordan/ JEWEL, JUST.

2009 7th cycle of National Program “Faculty for Factory”. Principle investigator. Ministry of Planning & European Union Grant

- 2008** Cadmium and lead uptake in tomato, alfalfa, and carrots grown in contaminated soil. Co-investigator. Deanship of Research /JUST Research Grant no. 175/2008
- 2008** Ecocharacterization of carob (*Ceratonia siliqua* L.). Co-investigator. Deanship of Research /JUST Research Grant no.109/2008
- 2007** Response of semi-arid Mediterranean grassland to prescribed burning and fertilization Principle investigator. Deanship of Research /JUST Research Grant no. 214/2007
- 2007** 5th cycle of National Program: Faculty for Faculty. Principle investigator. Ministry of Planning & European Union Grant.
- 2006** 4th cycle of National Program: Faculty for Faculty. Principle investigator. Ministry of Planning & European Union Grant.
- 2002** Monitoring rangeland vegetation. Principle investigator. Deanship of Research /JUST Research Grant no. 33/2003

COMMUNITY SERVICE

- 2012** **Expert reader** for assisting in the screening of application for the 2012 Land for Life Award, in the field of sustainable land management. United Nations Conventions to Combat Desertification (UNCCD).
- 2011** Member of “The Network for Jordanian industry sustainability”
- 2010** Reviewer for “Jordan Journal of Agricultural Sciences”

PROFESSIONAL LOCAL SOCIETY MEMBERSHIP

- 2009** Establisher Member for “Society for GIS and Spatial Technologies in Jordan”. Amman, Jordan
- 1992** Member of “Agricultural Engineer Association, Jordan”. Amman, Jordan

PROFESSIONAL INTERNATIONAL SOCIETY MEMBERSHIP

- 2005-present** Society for Range Management, USA
- 2010-present** International Union for Conservation of Nature/ Committee on Ecosystem Management
- 2010-2011** Society for Ecological Restoration (SER) International, USA
- 2010-present** International Association for Vegetation Science

NATIONAL COMMITTEE MEMBERSHIP

- 2012-present** Rangeland strategy (2001) Updating Committee, Ministry of Agriculture, Jordan
- 2003-2005** Low Rainfall Program Committee, NCARTT, Jordan
- 2002-2003** Rangeland Development & Rehabilitation Consultancy Committee, Ministry of Agriculture, Jordan

ACADEMIC COMMITTEE MEMBERSHIP

UNIVERSITY LEVEL

- 2007-2009** Coordinator for developing “Sustainability Lab” for Jordan Education for Water and Environmental Leadership (JEWEL) project, JUST, University of Michigan, USAID.

FACULTY LEVEL

2011-2013	Graduate Studies Committee
2012-2013	Restructuring Faculty Academic Departments
2011-2012	Faculty General Issues Affair Committee
2008-2009	Represent the NRE Depart. at Faculty of Agriculture Council, JUST
2008-2009	Moderator of Library Committee
2007-2008	Cultural & Scientific Workshops & Seminars Committee
2005-2006	Student Affair Committee
2004-2005	Represent the NRE Depart. at Faculty of Agriculture Council, JUST
2002-2004	Cultural & Scientific Workshops & Seminars Committee

DEPARTMENT LEVEL

2011-2013	Chair, Graduate Studies Committee
2009-2010	Department Laborites committee.
2007-present	Prince Hamaza Natural Reserve Management & Development Committee.
2008-2009	Graduate Studies Committee
2008	Committee on preparing and supervising admission test for Integrated Natural Resources Management Program
2007-2008	Committee on Curriculum Development for M.Sc. in Integrated Natural Resources Management
2007-2008	Department Labs Committee
2007	Range & Forestry Graduate Studies Committee
2007	Summer Training Plan for Range & Forestry Senior Students
2006	Committee on Reviewing Current Status of Bachelor Program in Range & Forestry (moderator)
2005-2008	Scientific Research Committee
2004	Committee on Reviewing and Upgrading Range & Forestry Bachelor Program
2004	Committee on Curriculum Development Proposal in New Master's Program in Range & Forestry
2003-2004	Scientific Research Committee
2003-2004	Prince Hamaza Natural Reserve Management & Development Committee
2003	Committee on Reviewing Current Curriculum in Range & Forestry Bachelor Program (moderator)
2002-2005	Courses Equivalency Committee
2002-2006	Academic Advisor for Range & Forestry Senior Students (2001& 2004)

PROFESSIONAL MEETING

- Set the foundation criteria for identifying the natural and introduced plant species in Jordan to establish the "Red List" for plant species in Jordan. 12July, 2010, Royal Botanical Garden. Amman, Jordan
- Standardization of range monitoring- core group meeting, to develop field manual for rangeland monitoring, 20-22 Oct (2008) FAO, Damascus, Syria
- Chaired session" state of monitoring," regional expert consultation on range monitoring in the Near East, 26-28 Nov (2007) FAO, Cairo, Egypt
- Community-based optimization of the management of scarce water resources in agriculture in West Asia and North Africa project (2003). ICARDA, NCARE, Baqqa, Jordan

ATTENDING PROFESSIONAL TRAINING WORKSHOPS

- Self-Evaluation of Academic Programs, 20 June, 2013.
- Workshop on “Technology Entrepreneurship”. Intel’s Global Entrepreneurship Initiative, UC-Berkeley, Arab Science and Technology Foundation, 23 Dec. 2009, JUST, Irbid, Jordan
- Workshop on “Modern Teaching Methods”. 2006, JUST, Irbid, Jordan
- Workshop on “Education Technology: Measurement and Evaluation“, 2003, JUST, Irbid, Jordan

LANGUAGES

- Arabic: (native language)
- English: Fluent (spoken, reading/writing)

COMPUTER SKILLS

- Excellent command of major Microsoft windows based program (WinWord, Excels, power point, email, etc...)
- Excellent command of statistical analysis software (SAS, SPSSW)
- Excellent command of GIS and Remote sensing software(ArcGIS, ERDAS)
- Excellent command of several biodiversity analysis software (Estimate, Poptools, Ecosimulation)

REFEREEING ACTIVITIES

- 2005 International Journal of Remote Sensing
 2005 Rangeland Ecology and Management
 2009 Plant Ecology
 2008 Journal of Vegetation Science
 2012 Arid Land Research and Management

WORKSHOPS, SEMINARS AND CONFERENCES

- International Conference on Mediterranean countries and EU opportunities in research, development and innovation. 22-23 Oct. 2012, MIRA, EU-Jordan Net project. Amman, Jordan.
- The 7th Scientific Agricultural Conference. JUST. 8-10 Oct. 2012. Irbid, Jordan.
- Exploring academic partnerships with industry: a round table discussion to define an approach. The Network for Jordanian industry sustainability (The network), USAID Water Reuse and Environment, Conservation Project. 8 Dec. 2011, Amman, Jordan.
- Forth meeting for outreach team on climate change and biodiversity in Jordan. Royal Society for Conservation of Nature. 21 Nov, 2011, Amman, Jordan.
- 1st Arab-American Frontiers of Science, Engineering, and Medicine symposium. National Science Foundation (NSF), USA, Kuwait Institute for Scientific Research, Kuwait. 17-19 Oct. 2011. Kuwait.
- Findings of BRP baseline study and development of the strategic community action plan (CAP) document for Badia. Ministry of Environment. Badia Restoration Program, 23 Sept 2010, Amman, Jordan.

- Preparation of Plant Red list in Jordan: Identification of local plant species and the classification of its natural habitats. Royal Botanical Garden, 12 July 2010, Amman, Jordan.
- Forest inventory training workshop in Jordan. Alshajra Society RSCN, US-Forest Services, 13-17 June 2010, Amman Jordan.
- Workshop on reviewing a report on: Financing for sustainable forest management in Jordan, United Nations Forum on Forests (UNFF) and MoA, 26 May 2010 Amman, Jordan.
- Kick-off workshop on Middle East water livelihoods imitative. ICARDA, USDA, 4-5Feb 2010, Amman, Jordan.
- Workshop on: Disi water conveyance project. Ministry of Water and Irrigation, 27 Dec 2009, JUST, Irbid, Jordan.
- Workshop on: reviewing the forth national report on the convention of biodiversity, 27 Nov (2008), Ministry of Environment, Amman, Jordan.
- Workshop on: sanitation and water resources protection, JUST, UINSCO and the National Committee of the International Hydrology Program (IHP), (13Aug 2008), JUST, Irbid, Jordan.
- Regional expert consultation on range monitoring in the Near East, (26-28 Nov 2007), FAO, Cairo, Egypt.
- The third conference on scientific research in Jordan (2007), Amman, Jordan.
- Faculty of Agriculture eighth scientific day (2006), JUST, Irbid, Jordan.
- Conference on: geographical information system users in Jordan. (2005), Irbid, Jordan.
- Faculty of Agriculture sixth scientific day (2003) JUST, Irbid, Jordan.
- Regional workshop on: declaring the Badia benchmark research site West Asia and North Africa in Jordan (2003), Baqq'a, Jordan.
- The Jordanian scientific week (2002), Amman, Jordan.
- Society for Range Management (SRM) annual meeting (2002), Missouri/USA.
- Geographical information system conference (GIS) & Remote Sensing Conference (2001), CO/USA.
- Agricultural growth, sustainable resource management, and poverty alleviation in. the low rainfall areas of West Asia and North Africa (1997), Amman, Jordan.
- Proceedings of the regional symposium on integrated crop-livestock systems in the dry areas of West Asia and North Africa (1995), Amman, Jordan.
- Third Jordanian scientific Week (1995), JUST, Irbid, Jordan.

PUBLICATIONS

THESIS/DISSERTATION

1. Alhamad, M. N. 1995. Variation and covariation in segregating populations in lentil M. Sc. Thesis. Prof A. Eltel (Supervisor) and Prof. N. Haddad (Co-advisor), University of Jordan, Amman, Jordan.
2. Alhamad, M. N. 2002. Integration of Point Biophysical Modeling and NDVI Data to Improve Forecasting of Near Term Forage Conditions in Texas. Ph.D. Dissertation. J. Stuth (Supervisor), Texas A& M University, College Station, Tex, USA.

REFEREE JOURNALS

1. **Alhamad, M. N. 2006.** Ecological and Species Diversity of Arid Mediterranean Grazing Land Vegetation. *Journal of Arid Environment*. 66(4): 698-715.
2. Alrababah, M. A., & **M. N. Alhamad. 2006.** Land use/cover classification of arid and semi arid Mediterranean landscapes using Landsat ETM. *International Journal of Remote Sensing*. 27(13): 2703–2718.
3. **Alhamad, M. N.,** J. Stuth, & M. Vannucci. **2007.** Biophysical modeling and NDVI Time series to project near-term forage supply: spectral analysis aided by wavelet denoising and ARIMA modeling. *International Journal of Remote Sensing*. 28(11): 2513–2548.
4. Alrababah, M. A., **M. N. Alhamad,** A. Suwaileh, & M. Al-Gharaibeh. **2007.** Biodiversity of semi-arid Mediterranean grasslands: Impact of grazing and afforestation. *Applied Vegetation Science*. 10(2): 257-264.
5. Alrababah, M. A., **M. N. Alhamad,** M. M. Bataineh, A.F. Suwaileh, & A. S. Al-Horani. **2007.** Arboreal diversity and aboveground biomass in a semi-arid Mediterranean forest ecosystem: Case of Kufur-khal natural reserve. *Jordan Journal of Agricultural Sciences*. 3: 363-375.
6. **Alhamad, M. N.,** & M. A. Alrababah. **2008.** Defoliation and competition effects in a productivity gradient for a semiarid Mediterranean annual grassland community. *Basic and Applied Ecology*. 9(3): 224–232.
7. **Alhamad, M. N.,** M. A. Alrababah, M. M. Bataineh, & A. S. Al-Horani. **2008.** Environmental gradients and community attributes underlying biodiversity patterns of semi-arid Mediterranean grasslands. *Plant Ecology*. 196(2): 289-299.
8. Alrababah, M. A., M. G. Bani-Hani, **M. N. Alhamad** & M. M. Bataineh. **2008.** Boosting seedling survival and growth under semi-arid Mediterranean conditions: Selecting appropriate species under rainfed and wastewater irrigation. *Journal of Arid Environment*. 72(9): 1606–1612.
9. Rababah T. M., K. I. Ereifej, M. A. Al-Mahasneh, **M. N. Alhamad,** M. A. Alrababah, & M. H. AL-u'datt. **2008.** Physiochemical characteristics of Acorns for two Mediterranean Quercus species. *Jordan Journal of Agricultural Sciences*. 4: 131-137.
10. Jaradat, M. A. K., M. A. Al-Nimr & **M. N. Alhamad. 2008.** Smoke modified environment for crop frost protection: a fuzzy logic approach. *Computers and Electronics in Agriculture*. 64(2): 104-110.
11. **Alhamad, M. N.,** B. B. Oswald, M. M. Bataineh, M. A. Alrababah, & M. M. Al-Gharaibeh. **2010.** Relationships between herbaceous diversity and biomass in two habitats in arid Mediterranean rangeland. *Journal of Arid Environments*. 74(2): 277–283.
12. Alu'datt, M. H., I. Alli, K Ereifej, **M. Alhamad,** A. R. Al-Tawaha & T. Rababah. **2010.** Optimisation, characterisation and quantification of phenolic compounds in olive cake. *Food Chemistry*. 123(1):117–122.
13. Eltaif, N.I., M.A. Gharaibeh, F. Al-Zaitawi & **M. N. Alhamad. 2010.** An approximation of the Rainfall Erosivity Factor in USLE and RUSLE in North Jordan. *Pedosphere* 20(6): 711–717.

14. **Alhamad, M. N.**, M. A. Alrababah, R. A. Feagin & A. Gharaibeh. **2011**. Mediterranean drylands: the effect of grain size and domain of scale on landscape metrics. *Ecological Indicators*. 11(2): 611–621.
15. Obeidat, B. S., M. A. Alrababah, A.Y. Abdullah, **M. N. Alhamad**, M.A.Gharaibeh, T.M. Rababah & M.A. AbuIshmais. **2011**. Growth performance and carcass characteristics of Awassi lambs fed diets containing carob pods (*Ceratonia siliqua* L.). *Small Ruminants Research*. 96(2-3):149–154.
16. Alrababah, M. A., **M. N. Alhamad**, A. L. Bataineh, M. M. Bataineh & A. F. Suwaileh. **2011**. Estimating east Mediterranean forest parameters using Landsat ETM. *International Journal of Remote Sensing*. 32(6):1561-1574.
17. Alrababah M. A., A.S. Al-Horani, **M. N. Alhamad** & H. Migdadi. **2011**. Genetic diversity of the easternmost fragmented Mediterranean *Pinus halepensis* Mill. Populations. *Plant Ecology*. 212(5): 843–851.
18. Alu'datt, M. H., I. Alli, K. Ereifej, **M. N. Alhamad**, A. Alsaad & T. Rababeh. **2011**. Optimization and characterization of various extraction conditions of phenolic compounds and antioxidant activity in olive seeds. *Natural Product Research*. 25(9): 876–889.
19. Rababah, T. M., M. A. Al-Mahasneh, I. Kilani, W. Yang, **M. N. Alhamad**, K. Ereifej, M. Al-u'datt. **2011**. Effect of jam processing and storage on total phenolics, antioxidant activity, and anthocyanins of different fruits. *Journal of the Science of Food and Agriculture*. 91(6):1096–1102.
20. Rababah, T. M., S. Yücel, K. I. Ereifej, **M. N. Alhamad**, M. A. Al-Mahasneh, W. Yang, M. H. Al-u'datt & K. Ismaeal. **2011**. Effect of grape seed extracts on the physicochemical and sensory properties of corn chips during storage. *Journal of the American Oil Chemists' Society*. 88(5): 631-637.
21. Rababah, T. M., M. H. Al-u'datt, M. A. Al-Mahasneh, H. Feng, A. M. Alothman, A. Almajwal, W. Yang, I. Kilani, **M. N. Alhamad**, K. Ereifej and M. Abu-Darwish. **2011**. Effect of storage on the physicochemical properties, total phenolic, anthocyanin, and antioxidant capacity of strawberry jam. *Journal of Food, Agriculture & Environment*. 9 (2): 101-105.
22. Rababah, T. M., K. I. Ereifej, **M. N. Alhamad**, K. M. Al-Qudah, L. M. Rousan, M. A. Al-Mahasneh, M. H. Al-u'datt & W. Yang. **2011**. Effect of green tea and grape seed and Tbhq on physicochemical properties of Baladi Goat meats. *International Journal of Food Properties*. 14(6):1208-1216.
23. Alu'datt, M. H., T. Rababah, K. Ereifej, I. Alli, M. A. Alrababah, A. Almajwal, N. Masadeh & **M. N. Alhamad**. **2012**. Effects of barley flour and barley protein isolate on chemical, functional, nutritional and biological properties of pita bread. *Food Hydrocolloids*. 26(1): 135-143.
24. Obeidat, B. S., M.A. Alrababah, M. N. Alhamad, M. A. Gharaibeh, M. A. Abu Ishmais. **2012**. Effects of feeding carob pods (*Ceratonia siliqua* L.) on nursing performance of Awassi ewes and their lambs. *Small Ruminants Research*. 105(1): 9-15.
25. Rababah, T. M., M. A. Al-Mahasneh, W. Yang, R. Esoh, **M. N. Alhamad**, and M. Al-u'datt. **2012**. Optimizing the best concentration of additive flavors to corn chips by evaluating the physicochemical and sensory properties. *Journal of Food Processing and Preservation*. 36(3): 225–231.

26. **Alhamad, M. N.**, M. A. Alrababah, M. A. Gharaibeh. **2012**. Impact of Burning and Fertilization on Dry Mediterranean Grassland Productivity and Diversity. *Acta Oecologica*. 40(April): 19-26.
27. **Alhamad, M.** & M. Al-Rababah. **2013**. The impacts of biologically-induced microhabitats on biodiversity in dry Mediterranean grassland. *Plant Ecology & Diversity*. 6 (2): 279-288.
28. Alu'datt, M. H., Ghaid J. Al-Rabadi, I. Alli, K. Ereifej, T. Rababah, **M. N. Alhamad**, P.J. Torley. **2013**. Protein co-precipitates: a review of their preparation and functional properties. *Food and Bioproducts Processing*, 91(4): 327-335
29. Rababah, T. M., M. Al-Omoush, S. Brewer, **M. Alhamad**, W. Yang, M. Alrababah, A. Al-Ghzawi, M. Al- u'datt1, K. Ereifej, F. Alsheyab, R. Esoh, A. Almajwal. **2014**. Total Phenol, Antioxidant Activity, Flavonoids, Anthocyanins and Color of Honey as Affected by Floral Origin Found in the Arid and Semiarid Mediterranean Areas. *Journal of Food Processing and Preservation*. 38 (3):1119-1124
30. **Alhamad, M. N.**, T. M. Rababah, M. Al-u'datt, K. Ereifej, R. Esoh, H. Feng, and W. Yang. **2012**. The physicochemical properties, total phenolic, antioxidant activities, and Phenolic profile of fermented Olive cake. *Arabian Journal of Chemistry*. In press. Corrected Proof.Dx.doi.org/10.1016/j.arabjc.2012.07.002
31. Alu'datt, M. H., Ghaid J. Al-Rabadi, Khaild M. Al-Ismael, R. M. Althnaibat, K. Ereifej, T. Rababah, **M. N. Alhamad** and P. J. Torley. **2014**. Characterization and Biological Properties of Dry Fermented Product (Jameed) Manufactured from Cow Milk: Comparison of Sun and Freeze Drying. . In press. Corrected Proof. DOI: 10.1111/jfpp.12231

POCEEDINGS, CONFERENCES, BOASTERS AND REPORTS.

1. **Alhamad, M. N.** and M. A. Alrababah. **2014**. Mediterranean dryland Mosaic: The effect of scale on core area metrics. *Geophysical Research Abstracts:Vol. 16, EGU2014-1270-1, 2014. EGU General Assembly 2014, Vienna, Austria.*
2. **Alhamad, M. N.** and M. A. Alrababah. 2012. Spatial Analysis of Dryland Mediterranean Landscapes in North Jordan. The 7th Scientific Agricultural Conference. 8-10 Oct. 2012. Irbid, Jordan.
3. Alrababah M. A., **M. N. Alhamad**, M. Gharaibeh and B. Obeidat. 2012. Ecogeographic Characterization and Seed Germination of Carob Accessions in Jordan. The 7th Scientific Agricultural Conference. 8-10 Oct. 2012. Irbid, Jordan.
4. **Alhamad, M. N.** **2011**. Landscape monitoring and analysis in dry land ecosystems: remote sensing approach. 1ST ARAB-AMERICAN FRONTIERS OF SCIENCE, ENGINEERING, AND MEDICIN SYMPOSIUM. 17-19 Oct. 2011. Kuwait.
5. **Alhamad, M. N.**, B. S. Obeidat & M. A. Alrababah. **2010**. Carob (*Ceratonia siliqua* L) as non-conventional feed resources for feeding Awassi lambs in Jordan. In; 5th International Food Legumes Research Conference (Ifirc V) and 7th European Conference On Grain Legumes (AEP VII) "Legumes for Global Health; Legume Crops and Products for Food, Feed and Environmental Benefits". 26-30 April 2010–Antalya, Turkey.
6. Alrababah M. A. and **M. N. Alhamad**. **2009**. Remote sensing for Integrated Natural Resources Management. First international conference on integrated natural resources management in jordan. 10 Nov, 2009. Jordan University of Science and Technology, USAID, University of Michigan and Jordan River Foundation. Irbid, Jordan.

7. Gharaibeh, M. A., N.I. Eltaif, M. A. Alrababah, and **M. N. Alhamad. 2009.** Experimental evaluation of four infiltration models for calcareous soil irrigated with treated, untreated grey water and fresh water. In: European Geosciences Union, 19-24 April, 2009, Vienna, Austria. Published in: Geophysical Research Abstracts, Vol. 11, EGU General Assembly 2009-5024.
8. **Alhamad, M. N.** and M. A. Alrababa. **2008.** Land use/cover classification of Mediterranean landscapes in north Jordan using Landsat ETM. In: Seventh Arab Conference “Expansion Of Urban Areas And Developmental Projects And Its Effect On Ecological Footprint Of Arab Cities, 22-24 Dec 2008, Arab Administrative Development Organization (ADDO), Cairo, Egypt.
9. **Alhamad, M. N. 2007.** Rangeland Monitoring in Jordan. In: Report Of The Expert Consultation On Range Monitoring Including Under Forest Systems In The Near East, 26-28 Nov. 2007. FAO, Cairo, Egypt.