

Vol. 9, No. 4, October 2015

ISSN:1735-6814

International Journal of
Plant Production

© Gorgan University of Agricultural Sciences and Natural Resources

International Journal of Plant Production



Gorgan University of Agricultural
Sciences and Natural Resources

Executive Director:

Najafinejad, A., President of GUASNR, Gorgan, Iran

Editor-in-Chief:

Soltani, A., GUASNR, Gorgan, Iran

Editors:

Bagherieh-Najjar, M.B., Golestan University, Gorgan, Iran

Kamkar, B., GUASNR, Gorgan, Iran

Khormali, F., GUASNR, Gorgan, Iran

Sadeghipour, H.R., Golestan University, Gorgan, Iran

Editorial Board Members:

Ehdaie, B., University of California, Riverside, CA, USA

Fallahi, E., University of Idaho, Parma, Idaho, USA

Gholipoor, M., Shahrood University of Technology, Shahrood, Iran

Hashemi, A., University of Massachusetts Amherst, MA, USA

Hoogenboom, G., Washington State University, Prosser, WA, USA

Kashaninejad, M., GUASNR, Gorgan, Iran

Manschadi, A.M., University of Natural Resources and Life Sciences, Vienna, Austria

Montemurro, F., Research Unit for Cropping Systems in Dry Environments (SCA), Metaponto, Italy

Pala, M., Ankara, Turkey

Robertson, M.J., CSIRO, Wembley, Australia

Sepaskhah, A.R., Shiraz University, Shiraz, Iran

Sharifani, M.M., GUASNR, Gorgan, Iran

Shiraiwa, T., Kyoto University, Kyoto, Japan

Siddique, K., the University of Western Australia, Crawley, Australia

Walayar, F., ICRISAT, Bamako, Mali

Yu, Q., University of Technology, Sydney, Australia

Editorial Manager:

Hajarpoor, A., GUASNR, Gorgan, Iran

Executive Manager:

Eimantalab, M., GUASNR, Gorgan, Iran

Aims and Scope: International Journal of Plant Production (IJPP) publishes original research papers and review papers related to physiology, ecology and production of *field crops and forages* at field, farm and landscape level. IJPP does not publish papers with a background in genetics and plant breeding, plant molecular biology, plant biotechnology, as well as soil science, meteorology, product process and post-harvest management unless they are strongly related to plant production under field conditions.

Papers should be original, unpublished and not being considered for publication elsewhere. Papers based on limited data or of local importance, and results from routine experiments will not normally be considered for publication. Field experiments should include at least two years and/or two environments. Papers on plants other than field crops and forages, and papers based on controlled-environment experiments will not be considered.

Preferred topics are: (1) yield gap in cropping systems: estimation, causes and closing measures, (2) ecological intensification of plant production, (3) improvement of water and nutrients management in plant production systems, (4) environmental impact of plant production, (5) climate change and plant production, and (6) responses of plant communities to extreme weather conditions.

Publishing plan: IJPP is published in yearly volumes of four issues on January, April, July and October.

Contact information: Journals Office, Vice-Presidency for Research, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan 49138-15739, Iran.

Website: www.ijpp.info, Email: ijpp@gau.ac.ir, Phone: +98-17-32245884, Fax: +98-17-32225989



Contents

Z. Mut, H. Akay, Ö.D. Erbaş Hay yield and quality of oat (<i>Avena sativa</i> L.) genotypes of worldwide origin	507
R.J. Singh, I.P.S. Ahlawat, N.K. Sharma Resource use efficiency of transgenic cotton and peanut intercropping system using modified fertilization technique	523
M.M. Majidi, F. Rashidi, Y. Sharafi Physiological traits related to drought tolerance in <i>Brassica</i>	541
X.B. Liu, C.L. Sheng, S.J. Herbert, K.L. Chin, Y. Qi Mapping soybean physiology research based on the web of science	561
C. Jiang, Z.F. Wu, J. Cheng, Q. Yu, X.Q. Rao Impacts of urbanization on net primary productivity in the Pearl River Delta, China.....	581
D. Puangbut, S. Jogloy, N. Vorasoot, C.C. Holbrook, A. Patanothai Responses of inulin content and inulin yield of Jerusalem artichoke to seasonal environments	599
A. Azizian, A.R. Sepaskhah, Sh. Zand-Parsa Modification of a maize simulation model under different water, nitrogen and salinity levels.....	609