

DR. NAZIR AHMAD KHAN

PUBLICATIONS

PEER REVIEWED PUBLICATIONS IN INTERNATIONAL JOURNALS

1. **Khan, N. A.**, Booker, H., Yu, P. (2014). Molecular structures and metabolic characteristics of protein in brown and yellow flaxseed with altered nutrient traits. *Journal of Agriculture and Food Chemistry*. 62, 6556-6564. (**Impact Factor = 3.01**).
2. S. Alam, Shah, H. U., **N. A. Khan**, Mogan, N. 2014. Effect of calcium propionate, water activity and incubation time on fungal population and aflatoxins production in broiler finisher ration. *Food Additives and Contaminants: Part A*. 31, 1896-1903. (**Impact Factor = 2.34**)
3. **Khan, N. A.**, Peng, Q., Xin, H., Yu, P. (2014). Vibrational spectroscopic investigation of heat-induced changes in functional groups related to protein structural conformation in camelina seeds and their relationship to digestion in dairy cows. *Animal Production Science*. DOI: 10.1071/AN14400. (**Impact Factor = 1.03**)
4. Xin, H.; **Khan, N. A.**, Falk, K. C., Yu, P. (2014) Mid-IR spectral characteristics of lipids molecular structures in Brassica carinata seeds: relationship with oil content, fatty acids profile, glucosinolates, polyphenols and condensed tannins. *Journal of Agriculture and Food Chemistry*. 62, 7977-7988. (**Impact Factor = 3.01**)
5. Peng, Q., **Khan, N. A.**, Wang, Z., Zhang, X., Yu, P. (2014). Effect of Thermal Processing on Estimated Metabolizable Protein Supply to Dairy Cattle from Camelina Seeds: Relationship with Protein Molecular Structural Changes. *Journal of Agricultural and Food Chemistry*. 62, 8263-8273. (**Impact Factor = 3.01**)
6. **Khan, N.A.**, Yu, P. Ali, M. Cone, J.W., Hendriks, W.H. (2014). The use of maize silage in dairy ration: effect on animal performance and milk quality. Invited review. *Journal of the Science of Food and Agriculture*. DOI: 10.1002/jsfa.6703. (**Impact Factor = 1.88**)
7. Yan, X., **Khan, N. A.**, Zhang, F., Yang, L., Yu, P. (2014). Microwave irradiation induced changes in protein molecular structures of barley grains: relationship to changes in protein chemical profile, protein subfractions, and digestion in dairy cows. *Journal of Agriculture and Food Chemistry*. 62, 6546-6555. (**Impact Factor = 3.01**)
8. Peng, Q., **Khan, N. A.**, Wang, Z., Christensen, D. A., Yu P. (2014). Relationship of feeds protein molecular makeup with protein solubility, in situ ruminal degradation and intestinal digestibility. *Animal Feed Science and Technology*. 194, 58-70. (**Impact Factor = 2.09**)
9. Peng, Q., **Khan, N. A.**, Wang, Z., Yu P. (2014). Moist and dry heating-induced changes in protein molecular structure, protein subfractions, and nutrient profiles in camelina seeds. *Journal of Dairy Science*. 97: 446-457. (**Impact Factor = 2.55**)
10. Bezabih, M., Pellikaan, W.F., Tolera, W.F., **Khan, N. A.**, Hendriks, W.H. (2014). Nutritional status of cattle grazing natural pasture in the Mid Rift Valley grasslands of Ethiopia measured using plant cuticular hydrocarbons and their isotope enrichment. *Livestock Science*. 161, 41-52. (**Impact Factor = 1.10**)

11. Bezabih, M., Pellikaan, W.F., Tolear, A. **Khan, N.A.**, Hendriks, W. H. (2014). Chemical composition and in vitro total gas and methane production of forage species from the Mid Rift Valley grasslands of Ethiopia. *Grass and Forage Science*. DOI: 10.1111/gfs.12091. (**Impact Factor = 1.93**)
12. Bezabih, M., Pellikaan, W.F., Tolear, A. **Khan, N.A.**, Hendriks, W. H. (2013). Chemical composition and in vitro total gas and methane production of forage species from the Mid Rift Valley grasslands of Ethiopia. *Grass and Forage Science*. DOI: 10.1111/gfs.12091. (**Impact Factor = 1.93**)
13. Ali, A., Khan, S., Inam M., Khan, N. A., Ali, M., Khan, H. (2014). Effect of different levels of organic acids supplementation on feed intake, milk yield and milk composition of dairy cows during thermal stress. *Journal of Agriculture Sciences*. (**Impact Factor = 0.79**)
14. Habib, G., **Khan, N.A.**, Ali, M., Bezbih (2013). In situ ruminal crude protein degradability of by-products from cereals, oilseeds and animal origin. *Livestock Science*. 153: 81-87. (**Impact Factor = 1.10**)
15. Khan M.T., **Khan N. A.**, Qureshi, M. S., Rahman A. (2013).The nutritional value of peanut hay (*Arachis hypogaea* L.) as an alternate forage source for sheep. *Tropical Animal Health and Production*. 45: 849-853. (**Impact Factor = 1.00**)
16. Habib, G., M. Ali, M., Bezbih, **Khan, N.A.** (2013). In situ assessment of ruminal dry matter degradation kinetics and effective rumen degradability of feedstuffs originated from agro-industrial by-products. *Pakistan Veterinary Journal*. 33: 466-470. (**Impact Factor = 1.39**)
17. **Khan, N.A.**, Tewoldebrahn T.A., Cone, J.W., Zom R.L.G., Hendriks, W.H. (2012).Effect of silage maize maturity and concentrate type on milk fatty acid composition of dairy cows. *Journal of Dairy Science*. 95: 1472-1483. (**Impact Factor = 2.55**)
18. **Khan, N.A.**, Habib, G., Ullah, G. (2012). Assessment of *Grewia Oppositifolia* leaves as feed supplement: nutrient composition, protein degradability, N metabolism and growth rate in sheep. *Tropical Animal Health and Production*. 44:1375-81. (**Impact Factor = 1.00**)
19. **Khan, N.A.**, Cone, J.W., Fievez V., Hendriks, W.H. (2012). Causes of variation in fatty acid content and composition in grass and maize silages. *Animal Feed Science and Technology*. 174:36-45. (**Impact Factor = 2.09**)
20. **Khan, N.A.**, Cone, J.W., Pellikaan, W.F., Khan M.A., Struik P.C., Hendriks, W.H. (2011). Changes in fatty acid content and composition in silage maize during grain filling. *Journal of the Science of Food and Agriculture*. 91:1041-1049. (**Impact Factor = 1.88**)
21. **Khan, N.A.**, Cone, J.W., Fievez V., Hendriks, W.H. (2011). Stability of fatty acids during wilting of perennial ryegrass (*Loliumperenne*L.): effect of bruising and environmental conditions. *Journal of the Science of Food and Agriculture*. 91: 1659-1666. (**Impact Factor = 1.88**)
22. **Khan, N.A.**, Habib, G., Ullah, G. (2009). Chemical composition, rumen degradability, protein utilization and lactation response to selected tree leaves as substitute of cottonseed cake in the diet of dairy goats. *Animal Feed Science and Technology*. 154: 160-168. (**Impact Factor = 2.09**)
23. **Khan, N.A.**, Cone, J.W., Hendriks, W.H. (2009). Stability of fatty acids in grass and maize silages after exposure to air during the feed out period. *Animal Feed Science and Technology*.154: 183 - 192. (**Impact Factor = 2.09**)

BOOKS

Book Chapters

- **Khan, N. A.**, Theodoridou K., Yu, P. Role of fiber in dairy cow nutrition and health. In: Dietary Fiber: Production Challenges, Food Sources and Health Benefits; ISBN: 978-1-63463-655-1; Editor: Marvin E. Clemens; pp 69-91. Published by Nova Science Publishers, Inc. New York, USA.

PUBLICATIONS IN INTERNATIONAL CONFERENCE PROCEEDINGS

1. **Khan, N. A.**, Hussain, S., Bezabhi, M., Hendriks W. H., Yu P., Cone, J. W. (2014). Improving the feeding value of straws with *Pleurotus ostreatus*. **International Symposium on the Nutrition of Herbivores**, Canberra Australia, 8-12 September 2014. **Poster Presentation.**
2. **Khan, N. A.**, Peng, Q., Xin, H., Yu, P. (2014). Vibrational spectroscopic investigation of heat-induced changes in functional groups related to protein structural conformation in camelina seeds and their relationship to digestion in dairy cows. **International Symposium on the Nutrition of Herbivores**, Canberra Australia, 8-12 September 2014. **Poster Presentation.**
3. **Khan, N. A.**, Saman, A., David A. C., Xuewei H., Yu P. (2014) Relationship between protein structural characteristics and the supply of metabolizable protein to dairy cattle from new cool-season forage corn varieties in western Canada. **Joint Annual Meeting (JAM) of ASAS-ADSA-CSAS, Kansas, Missouri, USA. Poster presentation.**
4. Saman A., David, A. C., **Khan, N. A.**, Xuewei H., Yu, P. (2014) Metabolic characteristics and truly metabolizable protein supply to dairy cattle from new cool-season forage corn varieties in western Canada. **Joint Annual Meeting (JAM) of ASAS-ADSA-CSAS, Kansas, Missouri, USA. Poster presentation.**
5. Xiaogang Y., **Khan, N. A.**, Xuewei H., Yu, P. (2014). Microwave irradiation induced changes in protein inherent structure, protein chemical profile, protein subfractions and digestive behavior of different types of new hullless barley in the rumen and intestine of dairy cows. **Joint Annual Meeting (JAM) of ASAS-ADSA-CSAS, Kansas, Missouri, USA. Poster presentation.**
6. Peng, Q., **Khan, N. A.**, Wang, Z., Xuewei H., Yu, P. (2014). Relationship of protein structural conformation to protein functional property, buffer and water solubility, rumen digestive behaviors, and intestinal availability of common feeds in ruminants. **Joint Annual Meeting (JAM) of ASAS-ADSA-CSAS, Kansas, Missouri, USA. Poster presentation.**
7. **Khan, N. A.**, Peng, P., Christensen D. A., P. Yu. (2013). Optimizing the utilization oil-seeds derived protein in ruminants: camelina seeds. **34th Western Nutrition Conference**, Saskatoon, Canada, 24-26 September, 2013. **Poster presentation.**
8. **Khan, N. A.**, Habib, G., Altafur Rehmad, Qureshi, S., Khan S., Sultan, A. (2012). Evaluation of tree leaves as crude protein supplement to the low quality diets of dairy goats. **1st Asia Dairy Goat Conference** Kuala Lumpur, Malaysia. **Oral Presentation**
9. **Khan, N. A.**, Cone, J.W., Fievez, V., Hendriks, W. H. (2011). Causes of variation in fatty acid content and composition in maize silages. In: proceedings of **International Workshop on Dairy Science Park**, Khyber Pakhtunkhwa, Pakistan, 21-23rd November 2011. **Oral Presentation**

10. Cone, J. **Khan, N. A.** (2011). Fate of fatty acids in grass and maize silages from harvest to milk. In: proceeding of **Dairy Symposium Wageningen**, Wageningen, 17th November 2011. The Netherlands. **Oral presentation.**
11. **Khan, N. A.**, Cone, J.W., Fievez, V., Hendriks, W.H. (2011). Causes of variation in fatty acid content and composition in grass silages. In: proceedings of **8th International Symposium on the Nutrition of Herbivores**, Aberystwyth, UK, 5-9 September 2011. **Poster Presentation**
12. **Khan, N. A.**, Cone, J.W., Fievez, V., Hendriks, W.H. (2011). Causes of variation in fatty acid content and composition in grass silages. In: proceedings of **36th Animal Nutrition Research Forum**, Leuven, Belgium, 19th April 2011, pp. 73–74. **Oral Presentation**
13. **Khan, N. A.**, Cone, J.W., Hendriks, W.H. (2009). Stability of fatty acids in grass and maize silages after exposure to air during the feed out period. In: proceedings of the **11th International Symposium of Ruminant Physiology**, Clermont-Ferrand, France, 6-9 September 2009. pp 242–243. **Poster Presentation**
14. **Khan, N. A.**, Cone, J.W., Hendriks, W.H. (2009). Stability of fatty acids in grass and maize silages after exposure to air during the feed out period. In: proceedings of **34th Animal Nutrition Research Forum**, Melle, Belgium, pp. 13–14. 3rd April 2009, **Oral Presentation**
15. **Khan, N. A.**, Cone, J.W. and Hendriks, W.H. (2009). Stability of fatty acids in grass and maize silages after exposure to air during the feed out period. In: proceedings of **60th Annual Meeting of the European Association for Animal Production**, Barcelona, Spain, 24-27 August 2009, pp. 312. **Oral Presentation**
16. **Khan, N. A.**, Cone, J.W., Pellikaan, W.F., Fievez, V., Hendriks, W.H. (2008). Improving milk fatty acid profile of dairy cows through silages. In: proceedings of **33rd Animal Nutrition Research Forum**, Wageningen, The Netherlands, 25th April 2008 pp. 53–54. **Oral Presentation.**