

NAZIR AHMAD KHAN

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ACADEMIC PRESTIGE (AWARDS/HONORS)

- **PhD from Wageningen University, The Netherlands, and Post-doctorate from the University of Saskatchewan, Canada** the world top-ranked Universities in Agriculture Sciences.
- **Won high Citation Award:** My research article was among the top 100 most cited articles in the Journal of Dairy Sciences (JDS), published in JDS since 2014.
- **Won 7 research grants:** Received funding as Principal Investigator from different local and international research funding agencies.
- **Postdoctoral Fellowship:** Awarded by University of Saskatchewan, Canada (2013-14)
- **Junior Research Fellowship:** Awarded by Wageningen Institute of Animal Science, Wageningen University, The Netherlands (2012)
- **Overseas PhD Fellowship:** Awarded by Higher Education Commission (HEC) Pakistan, on basis of strong academic performance and international GRE score (2007-2011)
- **PhD Thesis Distinction:** My thesis chapters were evaluated as “very good” by the academic board of Wageningen University, The Netherlands
- **Gold Medal:** Awarded by The University of Agricultural Peshawar, Pakistan, on basis of excellent academic performance during BSc (2004)
- **Gold Medal:** Awarded by The University of Agricultural Peshawar, Pakistan, on basis of excellent academic performance and research project during MSc (2006)
- **Member of the Academic Council:** Elected member of the Academic Council of the University of Agriculture Peshawar, Pakistan (2013-2016)

EXPERIENCE

NOVEMBER 23, 2018 – TILL DATE

ASSOCIATE PROFESSOR (TENURED), The University of Agriculture Peshawar, KP, Pakistan

NOVEMBER 31, 2011 – NOVEMBER 22, 2018

ASSISTANT PROFESSOR, The University of Agriculture Peshawar, KP, Pakistan

APRIL 1, 2013 – MARCH 31, 2014

POSTDOCTORAL FELLOW, The University of Saskatchewan, Saskatoon, SK, Canada

JANUARY 1, 2005 – JUNE 30, 2007

LIVESTOCK PRODUCTION OFFICER, Livestock and Dairy Development Department, KP, Pakistan

EDUCATION

SEPTEMBER 2011

DOCTOR OF PHILOSOPHY (PhD) ANIMAL NUTRITION, Wageningen University, The Netherlands

MARCH 2007

MSc (Hons) ANIMAL NUTRITION, The University of Agriculture Peshawar, KP, Pakistan

Distinction: Gold medal

JANUARY 2004

BSc (Hons) ANIMAL HUSBANDRY, The University of Agriculture Peshawar, KP, Pakistan

Distinction: Gold medal

PUBLICATIONS

A. PUBLICATIONS IN SCIENTIFIC CITATION INDEXED PEER REVIEWED JOURNALS

Total publications: 61

Total citation: 1015 (Google scholar); 657(Scopus/Web of Science)

H index: 19 (google scholar); 15 (Scopus)

Cite per article: 16.64 (google scholar); 10.77 (Scopus)

Publication in top ranked journals

- ***Journal of Agriculture and Food Chemistry* (impact factor 3.15) = 07 publications**

Rank: #2 of 56 Journals in the Category: Agriculture, Multidisciplinary Sciences according to 2016-Journal Citation Reports

- ***Journal of Dairy Science* (impact factor 2.55) = 03 publications**

Rank: #3 of 58 Journals in the category of Agriculture, Dairy and Animal Science category according to 2016-Journal Citation Reports

- ***Animal Feed Science and Technology* (impact factor 2.59) = 07 publications**
Rank: #11 of 58 Journals in the category: Agriculture, Dairy & Animal Science according to 2016-Journal Citation Reports
- ***Journal of the Science of food and agriculture* (impact factor = 2.463) = 03 Publications**
Rank # 4 of 56 in the Category of Agriculture Multidisciplinary Journals according to 2016-Journal Citation Reports
- ***Spectrochimica Acta-Part A: Molecular and Biomolecular Spectroscopy* (impact factor 2.54) = 03 publications**
Rank: #12 of 41 journals in the Category: Spectroscopy Science according to 2016-Journal Citation Reports
- ***Animal Production Science* (impact factor = 1.03) = 02 publications**
Rank # 13 of 58 in the Category of Agriculture, Dairy and Animal Science category according to 2016-Journal Citation Reports
- ***Livestock Science* (impact factor = 1.10) = 03 publications**
Rank # 17 of 58 in the Category of Agriculture, Dairy and Animal Science category according to 2016-Journal Citation Reports

Five Selected Publications

- (1) Khan, N.A., Yu, P. Ali, M. Cone, J.W., Hendriks, W.H. (2015). Nutritive value of maize silage in relation to dairy cow performance and milk quality. **Invited review. *Journal of the Science of Food and Agriculture***. 95: 238-252. <http://onlinelibrary.wiley.com/doi/10.1002/jsfa.6703/full>
Impact Factor (Web of Science 2015): 1.714
- (2) 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: 446-57. [http://www.journalofdairyscience.org/article/S0022-0302\(13\)00786-8/pdf](http://www.journalofdairyscience.org/article/S0022-0302(13)00786-8/pdf)
Impact Factor (Web of Science 2014): 2.573
Distinction: This article was among the top 100 most cited articles, published in the esteemed Journal of Dairy Sciences (JDS) since 2014.
- (3) 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: 6546-55. <http://pubs.acs.org/doi/abs/10.1021/jf501024j>
Impact Factor (Web of Science 2014): 2.912
- (4) Khan, N.A., Tewoldebrahn T.A., Cone, J.W., Zom R.L.G., Hendriks, W.H. (2012). Effect of corn silage harvest maturity and concentrate type on milk fatty acid composition of dairy cows. ***Journal of Dairy Science***. 95: 1472-83. <http://www.sciencedirect.com/science/article/pii/S002203021200104X>
Impact Factor (Web of Science 2012): 2.566
- (5) 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. <http://www.sciencedirect.com/science/article/pii/S0377840112000533>
Impact Factor (Web of Science 2012): 1.608

In press/Accepted Manuscripts

- (6) Khan, N. A., Sulaiman, S. M., Hashmi, M. S., Rahman, S., Cone, J. W. (2020). Chemical composition, ruminal degradation kinetics and methane production (in vitro) of winter grass species from northern Pakistan. **Journal of the Science of Food and Agriculture**. <https://onlinelibrary.wiley.com/doi/abs/10.1002/jsfa.10628?af=R>
Impact Factor (Web of Science 2019): **2.422**
- (7) Hangshu, X., Khan, N. A., Sun, K., Sun, F., Rahman, S. U., Fu, Q., Li Y., Zhang, Y., Hu, G. (2020). Batch-to-batch variation in protein molecular structures, nutritive value and ruminal metabolism in corn coproducts. **Animal Feed Science and Technology**. <https://www.sciencedirect.com/science/article/pii/S0377840119313227>
Impact Factor (Web of Science 2019): **2.590**
- (8) Hangshu, X., Khan, N.A., Sun, K., Sun, F., Sadeeq, U. R., Fu Q., Li, Y., Zhang Y., Hu G. (2020). Batch-to-batch variation in carbohydrates molecular structures, nutritive value and ruminal metabolism in corn coproducts. **Animal Feed Science and Technology**. <https://www.sciencedirect.com/science/article/pii/S0377840119314130>
Impact Factor (Web of Science 2019): **2.590**
- (9) Qaisrani, S.N., Rizwan, M., Yaseen, G., Bibi, F., Awais, M., Sarfraz, A., Khan, N. A., Naveed, S., Pasha, T.N. (2020). Effects of dietary oxidized oil on growth performance, meat quality and biochemical indices in poultry – a review. **Annals of Animal Science**. <https://content.sciendo.com/view/journals/aoas/ahead-of-print/article-10.2478-aoas-2020-0043/article-10.2478-aoas-2020-0043.xml?language=en>
Impact Factor (Web of Science 2019): **1.57**
- (10) Khan, K., Ullah, I., Khan, N. A., Khan, S. (2020). Evaluation of mulberry (*Morus alba*) leaves as a concentrate substitute in rabbit diet: effect on growth performance and meat quality. **Turkish Journal of Veterinary and Animal Sciences**.
<http://online.journals.tubitak.gov.tr/openAcceptedDocument.htm?fileID=1318045&no=287151>
Impact Factor (Web of Science 2019): **0.552**

Published Manuscripts

- (11) Khan, N. A., Alam, M., Khan, R., Khan, K., Rahman, S. (2020). Evaluating the nutritional value of the newly developed quality protein maize in Pakistan: impact on broiler performance and profitability. **Pakistan Journal of Zoology**. 52: 585-592.
<http://researcherslinks.com/current-issues/Evaluating-the-Nutritional-Value-of-the-Newly/20/1/2661>
Impact Factor (Web of Science 2018): **0.790**
- (12) Khan, N.A., Rehman, S., Cone, J.W. (2020). Chemical composition, ruminal degradation kinetics and methane production (in vitro) potential of local and exotic grass species grown in Peshawar. **Pakistan Journal of Botany**. 52: 161-166, 2020. <http://www.pakbs.org/pjbot/papers/1580199767.pdf>
Impact Factor (Web of Science 2019): **0.690**
- (13) Khan, K., Ullah, I., Khan, N. A., Hashmi, M. S., Islam, Z., Khan, I. (2019). Nutritive value of mulberry (*Morus Alba*) leaves for fattening of rabbits (*Orytolagus Cuniculus*). **Freseniu Environment Bulletin**. 28: 8759-8764.
https://www.prt-parlar.de/download_feb_2019/
Impact Factor (Web of Science 2019): **0.691**

- (14) Khan N.A., Yu, P. (2018). Molecular spectroscopic features of protein in newly developed chickpea: Relationship with protein chemical profile and metabolism in the rumen and intestine of dairy cows. ***Spectrochimica Acta-Part A: Molecular and Biomolecular Spectroscopy***. 196: 168-177.
<https://www.sciencedirect.com/science/article/pii/S1386142518301197>
Impact Factor (Web of Science 2017): 2.536
- (15) Sun, B., Khan, N.A., Sun, M., Prates, L.L., Yu, P. (2018). Curve-linear relationship between altered carbohydrate traits with molecular structure and truly absorbed nutrient supply to dairy cattle in new hullless barley (*Hordeum vulgare* L.). ***Animal Feed Science Technology***. 235: 177-188.
<https://www.sciencedirect.com/science/article/pii/S0377840117302353>
Impact Factor (Web of Science 2017): 1.760
- (16) Khan, I., Khan, U., Khan, K., Nawaz A.M., Khan, N.A., Ali, F. (2018). *In vitro* anti-pseudomonal potential of *Juglans Regia* and *Otostegia Limbata* leaves extract against planktonic and biofilm form of *Pseudomonas aeruginosa*. ***Pakistan Journal of Botany***. 50: 827-833. <https://www.pakbs.org/pjbot/papers/1518737678.pdf>
Impact Factor (Web of Science 2017): 0.659
- (17) Abeysekara, S., Khan, N.A., Yu, P. (2018). Relationship between protein molecular structural makeup and metabolizable protein supply to dairy cattle from new cool-season forage corn cultivars. ***Spectrochimica Acta-Part A: Molecular and Biomolecular Spectroscopy***. 191: 303-314.
<http://www.sciencedirect.com/science/article/pii/S1386142517308235>
Impact Factor (Web of Science 2016): 2.536
- (18) Rehman, S., Ali, T., Ali, I., Khan N.A., Han, B., Gao, J. (2018). The growing genetic and functional diversity of extended spectrum beta-lactamases. ***BioMed Research International***.
Web link: <https://www.hindawi.com/journals/bmri/aip/9519718/>
Impact Factor (Web of Science 2017): 2.476
- (19) Peng, Q. H., Khan, N.A., Xue, B., Yan, T. H., Wang, Z.S. (2018). Effect of different levels of protein concentrates supplementation on the growth performance, plasma amino acids profile and mTOR cascade genes expression in early-weaned yak calves. ***Asian-Australasian Journal of Animal Science***, 31:218-224.
<https://www.ajas.info/journal/view.php?doi=10.5713/ajas.17.0148>
Impact Factor (Web of Science 2016): 0.971
- (20) Khan, K., Khan, S., Khan, N.A., Ahmad, N. (2018). Effect of flaxseed supplementation of feed on growth, carcass yield, meat and fatty acids profile of rabbit carcass. ***Pakistan Journal of Zoology***. 50: 2037-2043.
<http://researcherslinks.com/current-issues/Effect-of-Flaxseed-Supplementation-of-Feed/20/1/1686>
Impact Factor (Web of Science 2017): 0.491
- (21) Rahman, S. U., Abass, N., Khan, N. A., Suleman, M., Ali, A., Rauf, M. (2018). Prevalence of *Mycoplasma gallisepticum* in poultry- and wild life- birds suspected of chronic respiratory disease in Northern Pakistan. ***Pakistan Journal of Zoology***. 50: 1071-1077. <http://researcherslinks.com/current-issues/Prevalence-of-Mycoplasma-gallisepticum-Poultry/20/1/1439>
Impact Factor (Web of Science 2017): 0.491
- (22) Ullah, R., Khan, S., Khan, N.A., Tahir, M., Ahmad N. (2018). Effect of replacement of soybean meal by silkworm meal on growth performance, apparent metabolizable energy and nutrient digestibility in broilers at day 28 post hatch. ***Journal of Animal and Plant Science***. 28: 1239-1246. <http://www.thejaps.org.pk/docs/v-28-05/03.pdf>
Impact Factor (Web of Science 2017): 0.381

- (23) Refat, B., Parates, L.L., **Khan, N.A.**, Yaogeng L., David A. C., McKinnon J.J. M., Yu, P. (2017). Physiochemical characteristics and molecular structures for digestible carbohydrates of silages. *Journal of Agriculture and Food Chemistry*. 65:8979-8991. <http://pubs.acs.org/doi/abs/10.1021/acs.jafc.7b01032?journalCode=jafcau>
Impact Factor (Web of Science 2016): **3.154**
- (24) Yaijing, B., **Khan, N.A.**, Yu, P. (2017). Nutritional and metabolic characteristics of *Brassica carinata* co-products from biofuel processing in dairy cows. *Journal of Agriculture and Food Chemistry*. 65: 5994-6001. <http://pubs.acs.org/doi/abs/10.1021/acs.jafc.7b02330?src=recsys>
Impact Factor (Web of Science 2014) = **3.154**
- (25) Ullah, R., Khan, S., Hafiz, A., Sultan, A., **Khan, N.A.**, Chand, N., Ahmad, N. (2017). Silkworm (*Bombyx mori*) meal as alternate protein ingredient in broiler finisher ration. *Pakistan J. Zoology*. 49: 1463-1470. <http://researcherslinks.com/current-issues/Silkworm-Bombyx-mori-Meal-Alternate/20/1/677/html>
Impact Factor (Web of Science 2016) = **0.404**
- (26) Khan, K., Khan, S., Shafi U., **Khan, N. A.**, Khan, I., Ahmad, N. (2017). Nutritive value, fiber digestibility and methane production potential of tropical forages in rabbits: effect of species and harvest maturity. *Journal of Animal and Plant Science*. 27: 75-81. <http://www.thejaps.org.pk/docs/v-27-04/06.pdf>
Impact Factor (Web of Science 2017) = **0.448**
- (27) Khan, K., Khan, S., Khan, R., Sultan, A., **Khan, N. A.**, Ahmad, N. (2017). Production performance of indigenous rabbits under traditional and intensive production systems in northern Pakistan. *Journal of Animal and Plant Science*. 27: 1094-1100. <http://www.thejaps.org.pk/docs/v-27-1/10.pdf>
Impact Factor (Web of Science 2016) = **0.448**
- (28) Khan, A. D., Haleem, SK., Shafiq, M., **Khan, N. A.**, Rahman, S. U. (2017). Seropositivity of brucellosis in human and livestock in Tribal-Kurram Agency of Pakistan indicates cross circulation. *Thai Journal Veterinary Medicine*. 47:349-355. <https://www.tci-thaijo.org/index.php/tjvm/article/view/99987>.
Impact Factor (Web of Science 2016) = **0.20**
- (29) Khan, K., Adnan, M., Khan, H., Kashif, J., Ahmad, S., Gohar, A., Ali, A., Khan, M.A., Shah, S.S.A., Hassan, M.F., Irshad, M., **Khan, N.A.**, Rahman, S.U. 2017. Clonal expansion of Sulfonamide resistant Escherichia coli isolates recovered from diarrheic calves. *Pakistan Veterinary Journal*. 37: 230-232. http://www.pvj.com.pk/abstract/37_2/16-278.htm
Impact Factor (Web of Science 2016) = **0.813**
- (30) Habib, G., **Khan, N.A.**, Sultan, A., Ali, M. (2016). Nutritive value of common tree foliage for livestock in the semi-arid and arid rangelands of Northern Pakistan. *Livestock Science*. 184: 64-70. [http://www.livestockscience.com/article/S1871-1413\(15\)30062-7/fulltext](http://www.livestockscience.com/article/S1871-1413(15)30062-7/fulltext)
Impact Factor (Web of Science 2016) = **1.171**
- (31) Ali, M., Cone, J.W., **Khan, N.A.**, Hendriks, W.H. (2016). Variation between individual cows in in situ rumen degradation characteristics of maize and grass silages. *Netherlands Journal of Life Sciences*. 78: 167-173. <http://www.sciencedirect.com/science/article/pii/S1573521416300331>
Impact Factor (Web of Science 2016) = **0.732**
- (32) Khan, S., Naza, S., Sultan, A., Khan, R. U., **Khan, N.A.**, Ahmad, S. (2016). Worm meal: a potential source of alternative protein in poultry feed. *World's Poultry Science Journal*. 72: 93-102.

<https://www.cambridge.org/core/journals/world-s-poultry-science-journal/article/worm-meal-a-potential-source-of-alternative-protein-in-poultry-feed/50F296213E7BADF3A7D4E3775E076700>

Impact Factor (Web of Science 2016) = **1.089**

- (33) Khan, K., Khan, S., Khan R., Sultan, A., **Khan, N.A.**, Ahmad, N. (2016). Growth performance and meat quality of rabbits under different feeding regimes. *Tropical Animal Health and Production*. 48: 1661-1666. <https://link.springer.com/article/10.1007/s11250-016-1140-4>
Impact factor: 0.871
- (34) Bezabih, M., Duncana, A.J., Adiea A., K. Kekonnena, **Khan, N.A.**, Thornea, P. (2016). The role of irrigated fodder production to supplement the diet of fattening sheep by smallholders in Southern Ethiopia. *Tropical and Subtropical Agroecosystems*. 19: 263 – 275.
<http://www.revista.ccba.uady.mx/ojs/index.php/TSA/article/view/2215/1030>
Impact Factor (Web of Science 2017) = **0.31**
- (35) Ullah, K., Ahmad, S.S., Ahmad M.N., Khan, S., Urooj, Iqbal, M.S., Zia, A., **Khan, N.A.** (2015). Biomonitoring of fluoride pollution with gladiolus in the vicinity of a brick kiln field in Lahore, Pakistan. *Foluride*. 48: 174-78. http://www.fluorideresearch.org/482/files/FJ2015_v48_n2_p174-178_pg.pdf
Impact Factor (Web of Science 2016) = **0.629**
- (36) Huang, X., **Khan, N.A.**, Christensen, C., Yu, P. (2015). Effects of canola meal pellet conditioning temperature and time on ruminal and intestinal digestion, hourly effective degradation ratio, and potential N to energy synchronization in dairy cows. *Journal of Dairy Science*. 98: 8836-45.
<http://www.sciencedirect.com/science/article/pii/S002203021500675X>
Impact Factor (Web of Science 2015) = **2.573**
- (37) **Khan, N.A.**, Booker, H., Yu, P. (2015). Effect of heating method on alteration of protein molecular structure in flaxseed: relationship with changes in protein subfraction profile and digestion in dairy cows. *Journal of Agriculture and Food Chemistry*. 63: 1057-1066. <http://pubs.acs.org/doi/abs/10.1021/jf503575y>
Impact Factor (Web of Science 2015) = **2.912**
- (38) **Khan, N.A.**, Hussain, S., Bezabhi, M., Hendriks, W.H., Yu, P., Cone, J.W. (2015). Improving the feeding value of straws with *Pleurotus ostreatus*. *Animal Production Science*. 55: 241-245.
<http://www.publish.csiro.au/AN/AN14184>
Impact Factor (Web of Science 2015) = **1.286**
- (39) Gloria, Q.Y., Thomas D.W., Zhiyuan, N., **Khan, N.A.**, Yu, P. (2015). Molecular basis of processing-induced changes in protein structure in relation to intestinal digestion in yellow and green type pea (*Pisum sativum* L.): A molecular spectroscopic analysis. *Spectrochimica Acta-Part A: Molecular and Biomolecular Spectroscopy*. 155: 980-988. <http://www.sciencedirect.com/science/article/pii/S1386142515007659>
Impact Factor (Web of Science 2015) = **2.353**
- (40) Ali, M., Cone, J.W., **Khan, N.A.**, Hendriks, W.H., Struik, P.C. (2015). Effect of temperature and duration of ensiling on in vitro degradation of maize silages in rumen fluid. *Journal of Animal Physiology and Animal Nutrition*. 99: 251-257.
<http://onlinelibrary.wiley.com.ezproxy.library.wur.nl/doi/10.1111/jpn.12244/abstract;jsessionid=F60FE0866B2915BD948AE8172BDD81C8.f01t04>
Impact Factor (Web of Science 2015) = **1.406**

- (41) Khan, N.A., Peng, Q., Xin, H., Yu, P. (2015). 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**. 55: 201-206. <http://www.publish.csiro.au.ezproxy.library.wur.nl/AN/AN14400>
Impact Factor (Web of Science 2015) = **1.286**
- (42) Sultan, A., Uddin, I., Khan, S., Ullah, R., Khan, H., Khan, N.A., Khan, R.U. (2015). Effect of yeast derived carbohydrate fraction on growth performance, apparent metabolizable energy, mineral retention and gut histomorphology of broilers during starter phase. **Pakistan Veterinary Journal**. 35: 409-413. http://www.pvj.com.pk/abstract/35_4/15-042.htm
Impact Factor (Web of Science 2015) = **1.392**
- (43) Shahid, S., Chand, N., Khan, R. U., Khan, N.A., Suhail, S. M. (2015). Alternations in Cholesterol and Fatty Acids Composition in Egg Yolk of Rhode Island Red x Fyoumi Hens Fed with Hemp Seeds (*Cannabis sativa* L.). **Journal of Chemistry**. Available online. <https://www.hindawi.com/journals/jchem/2015/362936/>
Impact Factor (Web of Science 2015) = **0.772**
- (44) Khan, N.A., Farooq, M.W., Ali, M., Suleman, M., Ahmad, N., Sulaiman, S.M., Cone, J.W., Hendriks, W.H. (2015). Effect of species and harvest maturity on the fatty acids profile of tropical forages. **Journal of Animal and Plant Science**. 25: 739-46. <http://www.thejaps.org.pk/docs/v-25-03/19.pdf>
Impact Factor (Web of Science 2016) = **0.448**
- (45) Saleem M., Ahmand M.N., Khan, B.A., Zia, A., Ahmad, S.S., Khan, N.A., Qazi, M. (2015). Effects of soil fluoride on the growth and quality of two tomato varieties grown in Peshawar, Pakistan. **Foluride**. 48: 174-78. [Weblink: http://www.fluorideresearch.org/482/files/FJ2015_v48_n2_p174-178_sfs.pdf](http://www.fluorideresearch.org/482/files/FJ2015_v48_n2_p174-178_sfs.pdf)
Impact Factor (Web of Science 2015) = **0.629**
- (46) 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: 6556-64. <http://pubs.acs.org/doi/abs/10.1021/jf501284a>
Impact Factor (Web of Science 2015) = **0.448**
- (47) Saleem M., Ahmand M.N., Khan, B.A., Zia, A., Ahmad, S.S., Khan, N.A., Qazi, M. (2015). Effects of soil fluoride on the growth and quality of two tomato varieties grown in Peshawar, Pakistan. **Foluride**. 48: 174-78. http://www.fluorideresearch.org/482/files/FJ2015_v48_n2_p174-178_sfs.pdf
Impact Factor (Web of Science 2015) = **0.629**
- (48) Alam, S., Shah, H.U., Khan, N.A., Mogan, N. (2014). Water availability and calcium propionate affect fungal population and aflatoxins production in broiler finisher feed during storage. **Food Additives and Contaminants: Part A**. 31: 1896-1903. <http://www.tandfonline.com/doi/abs/10.1080/19440049.2014.963699>
Impact Factor (Web of Science 2015) = **2.045**
- (49) Xin, H., Khan, N.A., Falk, K.C., Yu, P. (2014). Mid-infrared spectral characteristics of lipid molecular structures in *Brassica carinata* seeds: Relationship to oil content, fatty acid and glucosinolate profiles, polyphenols, and condensed tannins. **Journal of Agriculture and Food Chemistry**. 62: 7977-88. <http://pubs.acs.org/doi/abs/10.1021/jf502209x>
Impact Factor (Web of Science 2015) = **2.912**

- (50) 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: 8263-73. <http://pubs.acs.org/doi/abs/10.1021/jf5013049>
Impact Factor (Web of Science 2014) = 2.912
- (51) Peng, Q., Khan, N.A., Wang, Z., Christensen, D.A., Yu P. (2014). Relationship of feeds protein structural makeup in common Prairie feeds with protein solubility, in situ ruminal degradation and intestinal digestibility. *Animal Feed Science and Technology*. 194: 58-70.
<http://www.sciencedirect.com/science/article/pii/S037784011400159X>
Impact Factor (Web of Science 2014) = 1.997
- (52) 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. [http://www.livestockscience.com/article/S1871-1413\(13\)00561-1/abstract](http://www.livestockscience.com/article/S1871-1413(13)00561-1/abstract)
Impact Factor (Web of Science 2014) = 1.171
- (53) 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*. 69: 635-43. <http://onlinelibrary.wiley.com/doi/10.1111/gfs.12091/abstract>
Impact Factor (Web of Science 2014) = 1.922
- (54) Habib, G., Khan, N.A., Ali, M., Bezabih (2013). *In situ* ruminal crude protein degradability of by-products from cereals, oilseeds and animal origin. *Livestock Science*. 153: 81-87.
[http://www.livestockscience.com/article/S1871-1413\(13\)00072-3/abstract](http://www.livestockscience.com/article/S1871-1413(13)00072-3/abstract)
Impact Factor (Web of Science 2013) = 1.10
- (55) 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: 849-53.
<https://link.springer.com/article/10.1007/s11250-012-0297-8>
Impact Factor (Web of Science 2013) = 0.970
- (56) Habib, G., M. Ali, M., Bezabih, 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: 466-70. http://www.pvj.com.pk/pdf-files/33_4/466-470.pdf
Impact Factor (Web of Science 2013) = 1.390
- (57) 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. <https://link.springer.com/article/10.1007/s11250-012-0074-8>
Impact Factor (Web of Science 2012) = 1.090
- (58) 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: 1041-49.
<http://onlinelibrary.wiley.com/doi/10.1002/jsfa.4279/abstract>
Impact Factor (Web of Science 2011) = 1.436

- (59) Khan, N.A., Cone, J.W., Fievez V., Hendriks, W.H. (2011). Stability of fatty acids during wilting of perennial ryegrass (*Lolium perenne* L.): effect of bruising and environmental conditions. **Journal of the Science of Food and Agriculture**. 91: 1659-66. <http://onlinelibrary.wiley.com/doi/10.1002/jsfa.4363/abstract>
Impact Factor (Web of Science 2011) = 1.436
- (60) 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- 92.
<http://www.sciencedirect.com/science/article/pii/S0377840109002892>
Impact Factor (Web of Science 2009): 1.866
- (61) 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: 160-68.
<http://www.sciencedirect.com/science/article/pii/S0377840109002855>
Impact Factor (Web of Science 2009) = 1.866

B. Publications in International Conference Proceedings and Presentations

Oral presentations: 22

Poster presentations: 15

Presented in: The Netherlands, Belgium, France, UK, USA, Canada, Australia, Malaysia, Turkey, Pakistan

- (1) Khan, N.A., Rehman, S. U., Saleem, M., Cone, J. W. Chemical composition, ruminal degradation kinetics and methane production (*in vitro*) of summer grass species from Northern Pakistan. Proceedings of **7th International and 16th National Conference on Plant Resources: Current Trends, Challenges and Solutions, Islamia University, Peshawar**, March 23-26, 2018. pp-10-11, **Oral Presentation**.
- (2) Shah, A., Khan, N.A., Ibrahim, M.N.M. Effect of seed rate and harvest intervals on dry matter yield, chemical composition and digestibility (*in vitro*) of Rhodes grass (*Chloris Gayana* L.). Proceedings of **7th International and 16th National Conference on Plant Resources: Current Trends, Challenges and Solutions, Islamia University, Peshawar**, March 23-26, 2018. pp. 14, **Oral Presentation**.
- (3) Sulaiman, S., Khan, N.A., Rehman, S. U., Cone, J. W. Chemical composition, ruminal degradation kinetics and methane production (*in vitro*) of winter grass species from Northern Pakistan. Proceedings of **7th International and 16th National Conference on Plant Resources: Current Trends, Challenges and Solutions, Islamia University, Peshawar**, March 23-26, 2018. pp-10, **Oral Presentation**.
- (4) Khan, K., I. Ullah, Khan, N.A.. Nutritive value of mulberry (*Morus Alba*) leaves for fattening rabbits (*Oryctolagus Cuniculus*). Proceedings of **7th International and 16th National Conference on Plant Resources: Current Trends, Challenges and Solutions, Islamia University, Peshawar**, March 23-26, 2018. pp. 156, **Oral Presentation**.
- (5) Cone, J.W., Khan, N.A. The gas production technique to study microbial fermentation processes in the gastrointestinal tract. Proceedings of the **International Livestock Nutrition Summit, University of Veterinary Animal Sciences Lahore, Pakistan**, February 21-22, 2017. pp. 6-7. **Oral presentation**

- (6) Khan, N.A., Cone, J. W. Nutritional value of maize silage in relation to dairy cow performance and milk quality- A Meta-Analysis. **Proceedings of the International Livestock Nutrition Summit, Lahore, Pakistan**, February 21-22, 2017. pp. 9-10. **Oral presentation**
- (7) Khan, N., Khan, N. A., Ahmad, N., Qureshi, M. S., Ibrahim, M. N. M. Screening of traditional and novel spring maize cultivars for silage production. **Proceedings of the International Livestock Nutrition Summit, University of Veterinary Animal Sciences Lahore, Pakistan**, February 21-22, 2017. pp. 27-28. **Oral presentation.**
- (8) Khan, N., Khan, N. A., N. Ahmad, M. S. Qureshi, M. N. M. Ibrahim. Chemical composition, ruminal degradation kinetics and methane production (*in vitro*) of winter grass species from Northern Pakistan. **Proceedings of the International Livestock Nutrition Summit, University of Veterinary Animal Sciences Lahore, Pakistan**, February 21-22, 2017. pp. 40-41. **Poster presentation.**
- (9) Shaha, A., Khan, N. A., Ahmad, N., Ibrahim, M.N.M. Effect of seed rate and harvest intervals on dry matter yield, chemical composition and digestibility (*in vitro*) of Rhodes grass (*Chloris gayana* L.). **Proceedings of the International Livestock Nutrition Summit, University of Veterinary Animal Sciences Lahore, Pakistan**, February 21-22, 2017, pp. 72-73. **Poster presentation.**
- (10) Inam, M., Khan, S., Sultan, S., Khan, N. A. Effect of *Saccharomyces cerevisiae* incorporation as partial for replacement for soybean meal on overall performance of broilers at finisher phase. **Proceeding of 4th International Conference on Dairy Science Park November 1-5, 2017, Selçuk Üniversitesi, Konya, Turkey**, pp. 150. **Oral presentation.**
- (11) Nadar, K., Khan, N. A., Ahmad, N., Qureshi, M. S., Ibrahim, M.N.M. Effect of spring maize genotypes harvested at different maturity stages on yield, nutrient composition, fibre digestibility and silage fermentation quality. **Proceeding of 4th International Conference on Dairy Science Park November 1-5, 2017, Selçuk Üniversitesi, Konya, Turkey**, pp. 217. **Oral presentation.**
- (12) Nadar, K., Khan, N. A., Ahmad, N., Qureshi, M. S., Ibrahim, M.N.M. Screening of traditional and novel summer maize cultivars at different harvest maturity for silage production in Northern areas of Pakistan. **Proceeding of 4th International Conference on Dairy Science Park November 1-5, 2017, Selçuk Üniversitesi, Konya, Turkey**, pp. 218. **Oral presentation.**
- (13) Khan, N. A., Brooker, H., Ban, J., Yu, P. (2015). Effect of Heating Method on Alteration of Protein Molecular Structure in Flaxseed: Relationship with Changes in Protein Subfraction Profile and Digestion in Dairy Cows. **Joint Annual Meeting (JAM) of ASAS-ADSA-CSAS, Orlando, Florida, USA**. pp. 482. **Poster presentation.** <http://www.jtmtg.org/JAM/2015/abstracts.asp>.
- (14) Khan, N. A., Brooker, H., Ban, J., Yu, P. (2015). Physico-Molecular Structures and Metabolic Characteristics of Protein in Brown and Yellow Flaxseed with Altered Nutrient Traits for Dairy Cattle. **Joint Annual Meeting (JAM) of ASAS-ADSA-CSAS, Orlando, Florida, USA**. pp. 765. **Poster presentation.** <http://www.jtmtg.org/JAM/2015/abstracts.asp>.
- (15) 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.** <http://www.publish.csiro.au/AN/fulltext/AN14184?subscribe=false>

- (16) **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.** <http://www.publish.csiro.au/AN/AN14400>
- (17) **Khan, N. A.**, Saman, A., David, A.C., Xuwei, 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.** <http://www.jtmtg.org/JAM/2014/abstracts.asp>
- (18) Saman A., David, A.C., **Khan, N. A.**, Xuwei, 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. <http://www.jtmtg.org/JAM/2014/abstracts.asp>
- (19) Xiaogang, Y., **Khan, N. A.**, Xuwei, 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.** <http://www.jtmtg.org/JAM/2014/abstracts.asp>
- (20) Peng, Q., **Khan, N.A.**, Wang, Z., Xuwei, H., Yu, P. (2014). Relationship of protein structural conformation to protein functional property, buffer and water solubility, rumen digestive behaviours, and intestinal availability of common feeds in ruminants. **Joint Annual Meeting (JAM) of ASAS-ADSA-CSAS, Kansas, Missouri, USA.** **Poster presentation.** <http://www.jtmtg.org/JAM/2014/abstracts.asp>
- (21) Ali, M., Sarwar, M., **Khan, N. A.**, Mahmood, S., Manzoor, Z. (2014). Apparent and nitrogen-corrected apparent metabolizable energy of local feedstuffs and by-products. **65th Annual Meeting of the European Federation of Federation of Animal Science**, Copenhagen, Denmark. **Oral presentation.**
- (22) **Khan, N. A.**, Saman, A., David, A.C., Xuwei, 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. **34th Western Nutrition Conference**, Saskatoon, Canada, 24-26 September, 2013 **Poster presentation.**
- (23) Saman, A., David, A. C., **Khan, N. A.**, Xuwei H., Yu, P. Metabolic characteristics and truly metabolizable protein supply to dairy cattle from new cool-season forage corn varieties in western Canada. **34th Western Nutrition Conference**, Saskatoon, Canada, 24-26, September 2013. Poster presentation.
- (24) **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.**
- (25) **Khan, N. A.**, Habib, G., Altafur Rehmad, M. Suleman¹ and G. Ullah (2012). Evaluation of tree leaves as crude protein supplement to the low-quality diets of dairy goats. In proceedings of **1st Asia Dairy Goat Conference** Kuala Lumpur, Malaysia, pp. 88-90. **Oral presentation.** <http://www.fao.org/docrep/017/i2891e/i2891e00.pdf>

- (26) Khan, S., Khan, N. A., Habib, G., Qureshi, M.S. and Sultan A. (2012). Assessment of *Grewia Oppositifolia* leaves as crude protein supplement go the low quality diets of goats. In proceedings of **1st Asia Dairy Goat Conference** Kuala Lumpur, Malaysia, pp. 91-92. **Oral presentation.**
- (27) Sarzamin Khan, Shah Hussain, Asad Sultan, Naila Chand, Rafi Ullah, Khan, N. A. (2012). Antibiotic residues in poultry products. **XXIV World Poultry Congress Brazil**, Salvador, Brazil. pp. 56. **Oral presentation.**
- (28) Qureshi, M.S., S. Khan, N.A. and Marwat, K.B. (2012). Dairy goats, a potential candidate of the dairy science park Peshawr, Pakistan. In proceedings of **1st Asia Dairy Goat Conference** Kuala Lumpur, Malaysia, pp. 88-90. **Oral presentation.** <http://www.fao.org/docrep/017/i2891e/i2891e00.pdf>
- (29) Zom, R.L.G., Goselink, R.M.A., Khan, N.A, Bannink A. (2012). Effect of harvest maturity of maize silage on dairy cow performance and enteric methane emission estimated using the Dutch Tier 3 approach. In: proceedings of **60th Annual Meeting of the European Association for Animal Production**, Barcelona, Spain, 24-27 August 2009, pp. 312. **Oral presentation.** <http://old.eaap.org/Previous Annual Meetings/2009Barcelona/Book Abstracts.pdf>
- (30) 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.** **Oral presentation.**
- (31) 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, The Netherlands.** **Oral presentation.**
- (32) 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.** Pp. 545. **Poster presentation.**
- (33) 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.** Pp 73-74. **Oral presentation.**
- (34) 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.** Pp. 242–243. **Poster presentation.**
- (35) 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. **Oral presentation.**
- (36) 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.** Pp. 312. **Oral presentation.**
- (37) 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.** Pp. 53–54. **Oral presentation.**

C. Books and Book Chapters

Books

Co-edited the **Recommendation Book of *International Workshop on Dairy Science Park***, Volume II, 2012. Faculty of Animal Husbandry and Veterinary Sciences, The University of Agriculture Peshawar, (ISBN-978-969-422-001-7).

Book Chapters

- **Khan, N. A.**, Theodoridou K., Yu, P. (2015). 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.**
- **Khan, N. A.** Chapter 2: *Physiology of Dairy Cow Digestive System*. In: *Applied dairy nutrition*; Editor: M. A. Mirza, M. Ali and K. Batajoo. In press at University of Agriculture Faisalabad, with the financial support of Higher Education Commission, Islamabad, Pakistan. In press.
- **Khan, N. A.** Chapter 4: *Voluntary Feed Intake*. In: *Applied dairy nutrition*; Editor: M. A. Mirza, M. Ali and K. Batajoo. In press at University of Agriculture Faisalabad, with the financial support of Higher Education Commission, Islamabad, Pakistan. In press.
- **Khan, N. A.** Chapter 8: *Lipids*. In: *Applied dairy nutrition*; Editor: M. A. Mirza, M. Ali and K. Batajoo. In press at University of Agriculture Faisalabad, with the financial support of Higher Education Commission, Islamabad, Pakistan. In press.
- **Khan, N. A.** Chapter 9: *Minerals and Vitamins*. In: *Applied dairy nutrition*; Editor: M. A. Mirza, M. Ali and K. Batajoo. In press at University of Agriculture Faisalabad, with the financial support of Higher Education Commission, Islamabad, Pakistan. In press.

STUDENT SUPERVISION

A. PhD Thesis Supervised

	Student Name	Supervisor/ Member	Dissertation Title	Session	Status
1	Kamran Khan	Co-Supervisor	Growth traits, production performance and meat quality of indigenous rabbits of Khyber Pakhtunkhwa Pakistan	2013-16	Degree awarded
2	Rafiullah Khan	Member	Replacement of soybean meal with silkworm meal in poultry rations	2014-17	Degree awarded
3	Muhammad Inam Khan	Member	Effect of yeast (<i>Saccaromyces cerevisiae</i>) incorporation as partial replacement for soybean meal in broilers	2014-18	Degree awarded
4	Naseer Ahmad	Member	Comparative growth performance, immune status, carcass and egg quality traits of Naked Neck, Rhode Island Red and Black Astralorpe chicken in open house production systems	2016-18	Degree awarded

5	Nadar Khan	Supervisor	Optimizing the nutritive value of maize silages in relation to dairy cow performance and milk quality	2014-18	Thesis approved
6	Syed Muhammad Sulaiman	Supervisor	Exploiting the genetic diversity of traditional and novel cultivars/ germplasm of wheat to optimize the nutritional value of wheat forage and wheat straws for ruminant livestock	2015-18	Thesis approved
7	Khalid Farooq	Supervisor	Optimizing the utilization of maize silage in smallholders and commercialization dairy and fattening rations in relation to feed-use efficiency, animal performance and farm profitability	2016-19	Synopsis approved
8	Muhammad Tahir	Member	Investigating the potential white rot fungi treated low quality roughages as a basal diet for beef cattle in Northern Pakistan	2014-17	Research work in progress
9	Saima Bibi	Member	Tannin extraction from biomaterials: application on ensiled clover for improving its fermentation and feeding quality	2014-17	Thesis in progress
10	Abu Bakar Sufyan	Member	Improving the feeding value of poor-quality straws through fungal treatment: impact on production performance of small ruminants	2017-20	Thesis in progress

B. MSc Thesis Supervised

1.	Shahid Hussain	Supervisor	Improving the feeding value of low quality roughages with the help of white rot fungi (<i>Pleurotus ostreatus</i>)	2012	Degree awarded
2	Muhammad Waseem Farooq	Supervisor	Quantifying the nutritional value and fatty acid content of indigenous forages	2012	Degree awarded
3	Syed Muhammad Suliman	Supervisor	Chemical composition, ruminal degradation kinetics and methane production potential of winter forages: effect of forage species and maturity	2014	Degree awarded
4	Muhammad Shafi-Ullha	Supervisor	Digestion of various fiber sources in rabbits	2015	Degree awarded
5	Muhammad Saqib	Supervisor	Nutritive value, protein subfraction composition and digestibility (in vitro) of indigenous legume seeds	2015	Degree awarded
6	Mian Nazir Shah	Supervisor	Nutritive value of Rhodes grass: effect of genotype, soil type and harvest maturity	2015	Degree awarded

7	Asif Shah	Supervisor	Effect of seed rate and harvest intervals on dry matter yield, chemical composition and digestibility (in vitro) of Rhodes grass	2015	Degree awarded
8	Zeenath Hussain	Supervisor	Effect of step-wise replacement of berseem fodder with maize silage in traditional dairy ration on milk production and milk composition of buffalo	2016	Degree awarded
9	Saeed-ul-Islam	Supervisor	Effect of seed rate and regrowth intervals on biomass yield and nutritive value of Rhodes grass	2016	Degree awarded
10	Mian Amir Seyab	Supervisor	Effect of cultivars and post silking maturity on yield, nutrient composition and cell walls degradability (in vitro) of maize stovers	2016	Degree awarded
11	Syed Asad Khan	Supervisor	Investigating the potential of annual ryegrass as winter fodder in Northern Pakistan: effect of soil type, growing condition and cultivars	2016	Degree awarded
12	Bashir Ahmad	Supervisor	Effect of maize silage and concentrate types on milk production and composition of Holstein dairy cows	2017	Degree awarded
13	Muhammad Zeeshan	Supervisor	Effect of supplementing oil seed cakes on the milk yield, milk and milk fat composition of lactating Damani goats	2017	Degree awarded
14	Muhammad Amin	Supervisor	Nutritive value and ruminal degradation kinetics of fodder from commonly grown wheat cultivars in Khyber Pakhtunkhwa	2017	Degree awarded
15	Faizur Rehman	Supervisor	Nutritive value and ruminal degradation kinetics of straws from commonly grown wheat cultivars in Khyber Pakhtunkhwa	2017	Degree awarded
16	Mujahid Khan	Supervisor	Evaluation of nutritional value and methane production potential of indigenous forage tree leaves	2018	Degree awarded
17	Ishfaq Ali	Supervisor	Ruminal degradation kinetics of wheat forage: variation among selected high yielding novel genotypes	2018	Degree awarded
18	Shah Saood	Supervisor	Ruminal degradation kinetics of wheat straws: variation among selected high yielding novel genotypes	2018	Degree awarded

19	Muhammad Bilal	Supervisor	Weekly changes in nutrient composition and ruminal degradation characteristics berseem (<i>Trifolium alexandrinum L.</i>): from day 14 to day 56 of a second re-growth	2018	Degree awarded
20	Syed Ziaud Din	Supervisor	Changes in whole crop yield, nutrient composition and digestibility (in vitro) of spring maize hybrids during post-flowering maturity	2019	Degree awarded
21	Muhammad Shiraz	Supervisor	Changes in whole crop yield, nutrient composition and digestibility (in vitro) of summer maize hybrids during post-flowering maturity	2019	Thesis in progress
22	Sher Azam Khan	Supervisor	Influence of nitrogen level on annual ryegrass (<i>Lolium multiflorum</i>) biomass yield, nutritional value and digestibility under climatic condition of swat valley	2019	Thesis approved
23	Rahat shah	Supervisor	Changes in stover and grain yield, chemical composition and digestibility (<i>in vitro</i>): effect of spring maize hybrids and post flowering maturity	2019	Thesis approved
24	Ihsan Uddin	Member	Replacement of soybean meal with yeast single cell protein in broiler ration	2013	Degree awarded
25	Ali Rasool	Member	Effect of different added levels of <i>Saccharomyces Cervisiae</i> on milk production and composition in lactating dairy cows	2013	Degree awarded
26	Asma Khan	Member	Impact of frying on the stability of fatty acids composition of vegetable oils and ghee	2013	Degree awarded
27	Ziaul Islam	Member	Fatty acid profile and cholesterol contents of eggs produced under different farming systems	2014	Degree awarded
28	Humera Obaid	Member	Production of omega-3 enriched eggs by laying hen using different levels of flaxseed	2014	Degree awarded
29	Muslim Ghaffar Khan	Member	Effect of short chain fatty acids on digestibility and growth performance of broilers	2015	Degree awarded
30	Abubakkar Sadiq	Member	The effects of genotype and soil type on nutritional value of irrigated Rhodes grass hay	2015	Degree awarded
31	Mumtaz Riaz	Member	Effect of graded levels supplementation of <i>Cassia Fistula</i> Linn leaves on feed intake, nutrients digestibility and plasma lipids profile of growing rabbits	2015	Degree awarded

32	Rehmath Saeed	Member	Quantitative changes in silage of sorghum planted under different N rates and harvested early and late in season	2015	Degree awarded
33	Waqas Alam	Member	Effect of animal blood plasma on broiler performance	2015	Degree awarded
34	Rabia Ali	Member	Effect of phytase enzyme on the nutrients digestibility, mineral retention and energy utilization of sorghum varieties by broiler	2016	Degree awarded
35	Mudassir Alam	Member	Effect of replacing conventional maize with various maize hybrids in poultry ration	2017	Degree awarded
36	Irfanullah	Member	Effect of different sowing date on the yield and nutritive value of two oat varieties at different stages of maturity	2017	Degree awarded
37	Mustaq Ahmad	Member	Competitive effect of maize silage with Inoculating Sorghum Silage on Nutrient Intake, Digestibility, Milk yield and Composition in Azikhali Buffaloes	2017	Degree awarded
38	Shakirullah kahn	Member	Effect of replacing different levels of normal maize with high protein maize in broiler ration on birds production performance and profitability of small scale farmers	2017	Degree awarded
39	Hajmeeda Bibi	Member	To study changes in the nutritive values and mineral profile of different forage species when treated differently and at different stages of maturity	2017	Degree awarded
40	Mahboob ul Haq	Member	Effect of blend of carbohydrate enzymes on overall performance and economics of broiler chicks in energy deficient diet at finisher phase	2018	Thesis in progress
41	Muhammad Younas	Member	Effect of blend of carbohydrate enzymes on overall performance and economics of broiler chicks in energy deficient diet at starter phase	2018	Thesis in progress

C. Doctor of Veterinary Medicine (DVM) internship Supervised

1	Nisar ul Haq	Supervisor	Nutritional value of peanut hay as protein supplement for grazing sheep	2013	Completed
2	Amir Seyab	Supervisor	Chemical profile, protein subfraction composition and estimated metabolizable energy of winter legumes fodder	2013	Completed

3	Shakiruallah	Supervisor	Chemical composition, rumen degradability and estimated metabolizable energy content of winter forages	2013	Completed
4	Muhammad Shuaib	Supervisor	Nutritive value of maize silage and its importance in animal fee	2015	Completed
5	Abid Iqbal	Supervisor	Effect of Feeding Commercially Available Maize Silage on Milk Production and Composition of Nili Ravi Buffaloes in Peshawar	2015	Completed
6	Muhammad Azam	Supervisor	Broiler Management Rado farm (Pvt) Ltd	2017	Completed
7	Salman Khan	Supervisor	Feeding management of dairy cows	2017	Completed