

Staff Handbook

Name	<i>Ir. Andriyani Astuti, S.Pt., M.Sc., Ph.D., IPM.</i>		
Post	<i>Nutrition and Animal Feed</i>		
Academic career	<i>Professional Engineering (IPM)</i>	<i>Universitas Gadjah Mada</i>	<i>2018</i>
	<i>Doctorate</i>	<i>Hiroshima University I Japan</i>	<i>2015</i>
	<i>Graduate degree</i>	<i>Universitas Gadjah Mada</i>	<i>2008</i>
	<i>Undergraduate degree</i>	<i>Universitas Gadjah Mada</i>	<i>1999</i>
Employment	<i>Associate Professor</i>	<i>Universitas Gadjah Mada</i>	<i>2012-present</i>
	<i>Assistant Professor</i>	<i>Universitas Gadjah Mada</i>	<i>2007-2012</i>
Research and development projects over the last 5 years	<p><i>Research projects:</i></p> <ol style="list-style-type: none"> 1. <i>The utilization of poultry manure and sheep faecal as unconventional feed based on fermentation technique (2021)</i> <i>Source of Funds: Agricultural Research and Development Agency, Indonesia</i> 2. <i>Effect of Addition of Nutmeg Cake as a Source of Phenol in a High Ration of Unsaturated Fatty Acids on Rumen Microbial Diversity In Vitro (2021)</i> <i>Source of Funds: College Internal Fund, UGM Faculty of Animal Science Postgraduate Program</i> 3. <i>Effect of Addition of Mineral Premix with High Levels of Zinc (Zn) and Selenium (Se) in Concentrate on Consumption, Digestion, Blood Metabolite Profile and Rumen Fermentation of Female Repeat Breeder (2021)</i> <i>Source of Funds: College Internal Fund, UGM Faculty of Animal Science Postgraduate Program</i> 4. <i>Development of Blended Protein-Mineral Supplements to Increase Productivity of Lactation Dairy Cattle (2nd year) (2021)</i> <i>Source of Funds: Ministry of Research, Technology and Higher Education.</i> 5. <i>Microbial application and level of use of absorbent materials on the quality of poultry manure fermentation (2021)</i> <i>Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada</i> 6. <i>The Role of High-Quality Feed Supplement (HQFS) and Mineral Premix for Improving the Reproductive Status of Repeat Breeder Cattle (2021)</i> <i>Source of Funds: Private sector</i> 7. <i>The Role of HDFS (High-Quality Feed Supplement)-PRO</i> 		

	<p><i>Supplements for Improving the Reproductive Status of Beef Cattle (2020)</i></p> <p><i>Source of Funds: PTUPT Kemenristek/BRIN</i></p> <p>8. <i>Feed Supplement Products (Multi-Functional Feed Additive) to Increase Reproductive Productivity and Quality of Livestock Products (2020)</i></p> <p><i>Source of Funds: PRN Kemenristekdikti.</i></p> <p>9. <i>Development of Protein-Mineral Blended Supplements to Increase the Productivity of Lactation Dairy Cattle (2020)</i></p> <p><i>Source of Funds: PTUPT Ristekdikti/BRIN</i></p> <p>10. <i>Effect of Different Storage on Hay and Forage Pellet Quality (2020)</i></p> <p><i>Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada</i></p> <p>11. <i>Effect of Lamtoro (Leucaena leucocephala) Leaf Supplementation on Nutrient Digestibility and Milk Production Appearance of Friesian Holstein Breeds (2019)</i></p> <p><i>Source of Funds: Final Task Recognition Program, UGM</i></p> <p>12. <i>Complete Pellets with Balanced Protein Sources at Different Levels to Increase Rabbit Productivity (2019)</i></p> <p><i>Source of Funds: Final Project Recognition Program, UGM.</i></p> <p>13. <i>Evaluation of Nutritional Status and Improvement Efforts to Increase the Productivity of People's Dairy Farms (2019)</i></p> <p><i>Source of Funds: Leading University Applied Research, Ristekdikti</i></p> <p>14. <i>Additive Effects of Sanrego Leaf and Protein Supplementation on Increasing Libido and Sperm Quality of Fat-tailed Lamb. (2019)</i></p> <p><i>Source of Funds: Leading Higher Education Applied Research, Ristekdikti.</i></p> <p>15. <i>Study of the Potential of Fermented Brown Marine Algae (Sargassum sp) as a Feed Supplement and Its Effects on Productivity and Nutrient Digestibility of Sheep (2019)</i></p> <p><i>Source of Funds Indofood Research Nugraha</i></p> <p>16. <i>Consumption, In Sacco Digestibility and Rumen Fermentation Parameters of Ongole Crossbreed Cattle with Rice Straw Basal Feed with Gaplek Supplementation and Palm Kernel Cake at Different Proportions. (2019)</i></p> <p><i>Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada</i></p> <p>17. <i>Profitable Feeding Strategies For Smallholder Cattle in Indonesia: Response Curves for Weight Gaining of Ongole Male Cattle to Increase in Tree Legume Levels with Gaplek (2018)</i></p>
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	<p><i>Source of Funds: ACIAR, Australia</i></p> <p>18. <i>Evaluation of Nutritional Status and Improvement Efforts to Increase the Productivity of People's Dairy Farms (Year 2) (2018)</i></p> <p><i>Source of Funds: Leading Higher Education Research, PTUPT Ristekdikti</i></p> <p>19. <i>Research "Physical Quality of Mineral Block with Mixture of Water and Salt at Different Levels" (2018)</i></p> <p><i>Source of Funds: Self-funded</i></p> <p>20. <i>Digestibility and Characteristics of In Vitro Fermentation of Rice Straw with Gaplek Supplementation and Protein Meal at Different Levels (2018)</i></p> <p><i>Source of Funds: Self-funded</i></p> <p>21. <i>Additive Effects of Sanrego Leaf and Protein Supplementation on Increasing Libido and Sperm Quality of Fat-Tailed Sheep (2018)</i></p> <p><i>Source of Funds: PTUPT, Ristekdikti.</i></p> <p>22. <i>Additive Effects of Sanrego Leaf and Protein Supplementation on Increasing Libido and Sperm Quality of Fat-Tailed Sheep (2018)</i></p> <p><i>Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada</i></p> <p>23. <i>Nutrient Composition, Physical and Chemical Quality of Complete Fermented Feed Inoculated with Different Commercial Inoculum (2018)</i></p> <p><i>Source of Funds: Laboratory Internal Fund, Faculty of Animal Science UGM</i></p> <p>24. <i>Complete Fermented Feeds: Digestibility Values vs. Conservation (Member of 4 Researchers) (2017)</i></p> <p><i>Source of Funds: Laboratory Thematic Grants, Faculty of Animal Science UGM.</i></p> <p>25. <i>Feeding Strategy for Etawah Crossbreed Goats in People's Farms to Produce Quality Milk in the Business of Providing Healthy Animal Food (Member of 3 Researchers) (2016)</i></p> <p><i>Source of Funds: PUPT DIKTI</i></p> <p>26. <i>Evaluation of Nutritional Status and Improvement Efforts to Increase the Productivity of People's Dairy Farms (Member of 3 Researchers) (2016)</i></p> <p><i>Source of Funds: PTUPT DIKTI</i></p> <p>27. <i>Complete Pellet using Corn and Lamtoro Leaf Flour at Different Levels to Increase Rabbit Meat Productivity (Members) (2016)</i></p> <p><i>Source of Funds: PT Indofood</i></p> <p>28. <i>Effect of Additive Use on Making Forage Silage of Sorghum Vulgare</i></p>
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	<p><i>on the Quality of Silage Produced (Member of 9 Researchers) (2016)</i></p> <p><i>Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science UGM</i></p> <p><i>Community Service over the last 5 years</i></p> <ol style="list-style-type: none"> 1. <i>Formulation And Application Of Rations With Feed Ingredients Local In Ngudi Raharjo Livestock Group, Kadirojo, Palbapang, Bantul (2021).</i> <p><i>Source of Funds: Faculty of Animal Science, UGM Service Grants Application</i></p> <ol style="list-style-type: none"> 2. <i>Alternative Feed Through Feed Technology in Sumber Rejeki Livestock Group, Tambakrejo, Tempel, Sleman (2021)</i> <p><i>Source of Funds: Faculty of Animal Science, UGM Service Grants</i></p> <ol style="list-style-type: none"> 3. <i>Application of Appropriate Technology for Forage Pellets for Horse Cattle Emergency Response to the Yogyakarta Andong Driver Community Affected by COVID-19 (2020)</i> <p><i>Source of Funds: TTG-UGM</i></p> <ol style="list-style-type: none"> 4. <i>Introduction of a simple ration formulation for beef cattle in the Ngudi Raharjo Blimbingan Group, Tambakrejo, Tempel, Sleman (2020)</i> <p><i>Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada</i></p> <ol style="list-style-type: none"> 5. <i>Feed Technology (Fermented Complete Feed and Mineral Block) as an Effort to Increase Livestock Productivity in the Ngudi Raharjo Guidance Group, Tambakrejo, Tempel, Sleman (2019)</i> <p><i>Source of Funds: TTG Grant, UGM</i></p> <ol style="list-style-type: none"> 6. <i>Training and Assistance for the Integrated Livestock Program in Selobanteng Village, Banyuglugur District, Situbondo Regency, East Java (2019)</i> <p><i>Source of Funds: PT PJB UP Paiton</i></p> <ol style="list-style-type: none"> 7. <i>Introduction of Fermented Complete Feed and Mineral Block as an Effort to Increase Livestock Productivity in the Ngudi Raharjo Blimbingan Group, Tambakrejo Tempel Sleman (2019)</i> <p><i>Source of Funds: Faculty of Animal Science, Universitas Gadjah Mada</i></p> <ol style="list-style-type: none"> 8. <i>Assistance in Feed Management During the Transitional Period of Dairy Cattle in the Ploso Kerep Group, Cangkringan, Sleman (2019)</i> <p><i>Source of Funds: Faculty of Animal Science, Universitas Gadjah Mada</i></p> <ol style="list-style-type: none"> 9. <i>Application of the Mendo Makmur Livestock Farmer Group</i>
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	<p><i>Integrated Livestock System in the Sleman Region of Yogyakarta (2019)</i></p> <p><i>Source of Funds: Faculty of Animal Science, Universitas Gadjah Mada</i></p> <p>10. <i>Community Partnership Program in the “Jogja Feed” Feed Business Group to Support the “Lemu with Sheep Program” at the Yogyakarta Sheep Farmers Union (PPKDY), Turi, Giri Kerto, Sleman, Yogyakarta (2018)</i></p> <p><i>Source of Funds: Community Service (PKM), Ristekdikti</i></p> <p>11. <i>Introduction of Feed Technology in the Ngudi Raharjo Blimbingan Cattle Group, Tambakrejo, Tempel, Sleman (2018)</i></p> <p><i>Source of Funds: Laboratory Thematic Service Grants, Faculty of Animal Science UGM</i></p> <p>12. <i>Utilization of Local Forage Through Forage Banks as an Effort to Improve Livestock Production Systems in the Livestock Group of Sumberharjo Prambanan Village, Sleman, Yogyakarta (2018)</i></p> <p><i>Source of Funds: Postgraduate Grants, Faculty of Animal Science UGM</i></p> <p>13. <i>Development of Self-reliance in Karangobar Village, Karangobar District, Banjarnegara Regency from the Livestock Side in Facing Landslide Disasters: Preparation of Disaster Response Farmers Group (2018)</i></p> <p><i>Source of Funds: Assisted Village Grants, BPPTN BH</i></p> <p>14. <i>Dairy Cattle Feed. Free Lecture Materials For You Our Farmers Serve (2018)</i></p> <p><i>Source of Funds: Faculty of Animal Science UGM</i></p> <p>15. <i>Assistance in the Maintenance of Beef Cattle to Increase Productivity in the Mergo Andhini Makmur Group, Bolu Seyegan Village, Sleman (2018)</i></p> <p><i>Source of Funds: Postgraduate Grants. Faculty of Animal Science UGM</i></p> <p>16. <i>Assistance in Increasing the Income of PE Goat Farmers through Reproductive Technology and Local Feed Processing at the Akursari Samigaluh Cattle Group, Kulonprogo (2017)</i></p> <p><i>Source of Funds: Faculty of Animal Science, UGM Postgraduate Service Grants</i></p> <p>17. <i>Increasing Livestock Productivity Through Group Strengthening and Introduction of Forage Banks in the Livestock Group of Pereng Hamlet, Sumberharjo Village, Prambanan District, Sleman Regency (2017)</i></p> <p><i>Source of Funds: Faculty of Animal Science, UGM Postgraduate Service Grants</i></p>
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	<p>18. <i>Extension of Forage for Livestock for Ngelosari Piyungan Village, Bantul (2017)</i></p> <p><i>Source of Funds: Faculty of Animal Science UGM</i></p> <p>19. <i>Promotion of Basalt Feed Conservation and Introducing Fermented Complete Feed to Andini Gotro's Dairy Farmers Group in Batang Hamlet, Tambakrejo, Tempel, Sleman, Yogyakarta (2016)</i></p> <p><i>Source of Funds: Faculty of Animal Science Service Thematic Grants</i></p> <p>20. <i>Application of Feed Management Based on Local Forage Sources for Sheep Farmers in the Gajah Wong Community, Ledhok, Timoho, Yogyakarta (2016)</i></p> <p><i>Source of Funds: Postgraduate Program Service Grants, Faculty of Animal Science, UGM</i></p> <p>21. <i>Implementation of the Mating and Flushing Communal System to Improve the Performance of Parent Goats in Mitra Manunggal Farmer Group, Giri Sekar Village, Panggang, Gunung Kidul (2016)</i></p> <p><i>Source of Funds: Postgraduate Program Service Grants, Faculty of Animal Science, UGM</i></p> <p>22. <i>Development of Organic Food Agroindustry through Integrated Cattle Farming in the Kalimasodo Cattle Cage Group, Karang Dukuh Village, Jogonalan, Klaten (2016)</i></p> <p><i>Source of Funds: Faculty of Animal Science Universitas Gadjah Mada Postgraduate Research Grants</i></p> <p>23. <i>Improving the Welfare of Farmers and Breeders Through Agricultural Development and Increasing Dairy Cattle Productivity (2016)</i></p> <p><i>Source of Funds: BPPTNBH (Funding Assistance for PTN BH)</i></p>
<p>Industry collaborations over the last 5 years</p>	<p>1. <i>Project title: Application of Supplementary Feed Technology to Increase Repeat Breeder Cattle Productivity (2021)</i></p> <p><i>Partners: Directorate General of Higher Education, Research and Technology, Ministry of Education, Culture, Research, and Technology (Kemendikbud)</i></p> <p>2. <i>Project title: Supplementary Feed Technology for Repeat Breeder Cattle Productivity Improvement Applications (2021)</i></p> <p><i>Partners: CV Fermen Hipro Feed</i></p>
<p>Patents and proprietary rights</p>	<p>1. <i>Controlled Concentrate Formula for High Production Lactation Dairy Cattle Using Agricultural Industrial Waste (Budi Prasetyo Widyobroto, Rochijan, Cuk Tri Noviandi,</i> 2019</p>

	<p>Andriyani Astuti)</p> <p>2021</p> <p>2. <i>Formula and Process for Making Alternative Supplements in High Protein Pellet Form for Lactation Dairy Cattle (Budi Prasetyo Widyobroto, Rochijan, Andriyani Astuti, Lies Mira Yusiati)</i></p>
<p>Important publications over the last 5 years</p>	<p><i>Total number of publications: 66</i></p> <ol style="list-style-type: none"> 1. <i>Effect of mycorrhizal provision and watering frequency on productivity and fresh material of forage sorghum (Sorghum bicolor (L.) Moench) (Mbeong, Y.S.N., Umami, N., Hanim, C., Astuti, A., Muhlisin, Rahayu, E. R.V.) (2022)</i> <i>Publisher: IOP Conference Series: Earth and Environmental Science Volume 951 (2022) 012005.</i> 2. <i>Physical and chemical quality of forage feed pellets with different types of materials and compositions (Suwignyo, B., Subagya, R.D., Astuti, A.) (2022).</i> <i>Publisher: IOP Conference Series: Earth and Environmental Science Volume 951 (2022) 012035\</i> 3. <i>Effect of forage Legetan (Synedrella nodiflora) fresh and hay on the physical quality of forage pellets (Suwignyo, B., Subagya, R.D., Astuti, A. Umami, N., Agus, A.) (2022).</i> <i>Publisher: Advances in Biological Sciences Research, Volume 18, Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021)</i> 4. <i>Effect of Fermented Concentrate on Growth Performance of Brahman Crossbred Steers: A Preliminary Study (Anam, M.S., Hanim, C., Astuti, A., Agus, A.) (2022).</i> <i>Publisher: Advances in Biological Sciences Research, Volume 18, Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021)</i> 5. <i>Evaluating of Nutrient Composition and Pellet Durability Index on Pellet Supplement with Different Proportion of Protected Soybean Meal (P-SBM) and Selenium (Se) (Astuti, A., Rochijan, Widyobroto, B.P., Yusiati, L.M.) (2022).</i> <i>Publisher: Advances in Biological Sciences Research, Volume 18, Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021).</i> 6. <i>Forage Pellets Quality from Weed Legetan with Different Composition (Suwignyo, B., Subagya, R.D., Astuti, A., Umami, N., Agus, A.) (2022).</i> <i>Publisher: Advances in Biological Sciences Research, Volume 18, Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021).</i>

7. *Supplementation Effects of Ground Cassava and Cassava Leaves with Different Ratios on In Vitro Digestibility of Rice Straw Based-Diet* (Daulay, M.R.H., Paradhita, D.H.V., Noviandi, C.T., Agus, A., **Astuti, A.**, Harper, K.) (2022).
Publisher: Advances in Biological Sciences Research, Volume 18, Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021).
8. *The Effect of Fermented Completed Feed and Silage as a Forage Replacement in the Production and Milk Quality of Friesian Holstein Crossbred* (Legawa, M.M., Utomo, R., Noviandi, C.T., **Astuti, A.**) (2022)
Publisher: Advances in Biological Sciences Research, Volume 18, Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021).
9. *The Effect of Fermentation Time on the Nutritional Value of Sago Hampas* (Wardono, H.P., Agus, A., **Astuti, A.**, Ngadiyono, N., Suhartanto, B.) (2022)
Publisher: Advances in Biological Sciences Research, Volume 18, Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021).
10. *Effect of Protected Corn Oil Supplementation Ratio on Ruminal Fatty Acids Profile* (Anam, M.S., Yusiati, L.M., Hanim, C., Bachruddin, Z., **Astuti, A.**) (2022)
Publisher: Advances in Biological Sciences Research, Volume 18, Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021).
11. *Growth and biomass production of chicory (Cichorium intybus L) planted in the intercropping system with Pennisetum purpureum cv. Mott and cut at different ages* (2021)
Publisher: IOP Conference Series: Earth and Environmental Science Volume 667 (2021) 012012
12. *The Effect of Sorghum Varieties (Sorghum bicolor (L.) Moench) and Protein Levels on Chemical Composition and In Vitro Digestibility of Fermented Complete Feed* (2021)
Publisher: Key Engineering Materials, 881(11): 171-177
13. *Chemical Quality and Digestibility Value in Silage of Pennisetum purpuphoides and Pennisetum purpureum Gamma with Different Levels of Molasses Supplementation* (2021)
Publisher: Key Engineering Materials, 881(11): 204-211
14. *Growth and biomass production of chicory (Cichorium intybus L) planted in an intercropping system with Pennisetum purpureum cv. Mott and cut at different ages* (Zaini, N., Umami, N., Hanim, C., **Astuti, A.**, Suwignyo, B.) (2021)

Publisher: IOP Conference Series: Earth and Environmental Science, 2021, 667(1), 012012.

15. *Effect of Leucaena leucocephala and corn oil on ruminal fermentation, methane product, ion, and fatty acid profile: An in vitro study (Irawan, A., Noviandi, C.T., Kustantinah, Widyobroto, B.P., Astuti, A., Ates, S) (2021)*

Publisher: Animal Production Science, 2021, 61(5), pp. 459–469.

16. *Determination of in vitro Gas Production Kinetics by Adding Leucaena leucecephala and Corn Oil to the Ration in Different Ratios (Noviandi, C.T., Kustaantinah, K., Irawan, A., Widyobroto, B.P., Astuti, A.) (2021)*

Publisher: Iranian Journal of Applied Animal Science, 2021, 11(1), pp. 23–31

17. *The Effects of Cassava Pomace and Protected Soybean Meal on Dairy Milk Production and Quality (Sabastian, B, Widyobroto, B.P., Astuti, A.) (2021)*

Publisher: Bulletin of Animal Science 45(2):116-122.

18. *Nutrient Intake, Feed Digestibility, and Growth Performance of Thin-Tailed Sheep Fed Complete Feed Containing Fermented Sargassum sp. (Budi, D.S., Astuti, A., Utomo, R.) (2021)*

Publisher: Bulletin of Animal Science 45(3):177-182.

19. *Effect of Different Pre-Freezing Time on Quality of Frozen Fat-Tailed Ram Semen (Bintara, S., Astuti, A., Panjono, Kusumastuti, T.A.) (2021)*

Publisher: Bulletin of Animal Science 45(3):155-158.

20. *Blood Biochemical Profiles and Pregnancy Rate of Brahman Crossbred Cows Supplemented with Mineral Mixture (Anam, M.S., Agus, A., Yusiati, L.M., Hanim, C., Astuti, A., Bintara, S., Anas, M.A.)(2021)*

Publisher: American Journal of Animal and Veterinary Sciences 16 (3):176-184.

21. *In vitro ruminal and post-ruminal nutrients degradation due to varying proportions of Leucaena leucocephala added with corn oil in the ration (Irawan, A., Noviandi, C.T., Kustantinah, Widyobroto, B.P., Astuti, A.) (2021)*

Publisher: Songklanakarin Journal of Science and Technology (SJST) 43(4): 1197-1203.

22. *Nutrient status, hematological and blood metabolite profile of mid-lactating dairy cows during wet and dry seasons raised under Indonesian tropical environmental conditions (Astuti, A., Rochijan, Widyobroto, B.P., Noviandi, C.T.) (2021).*

Publisher: Journal of Animal Behaviour and Biometeorology

10(1): 1-6.

23. *Gamma Radiation Effect on Growth, Production and Lignin Content of Sorghum sudanense at Different Harvest Ages* (Nayanda, M., **Astuti, A.**, Suwignyo, B., Muhlisin, Umami, N.)(2021)

Publisher: Bulletin of Animal Science 43(3):183-188.

24. *Potensi dan Nilai Tambah Tanaman Melalui Teknologi Pengawetan Pakan untuk Peningkatan Pendapatan Peternak di Samigaluh Kulonprogo Yogyakarta* (Kusumastuti, T.A., **Astuti, A.**, Noviandi, C.T., Widiati, R.) (2021)

Publisher: Jurnal Peternakan Indonesia

25. *The Effect of Harvest Age on Different Regrowth on Chicory (Cichorium intybus L.) Forage Yield by Intercropped with Pennisetum purpureum cv. Mott.* (Zaini, N., Umami, N., Hanim, C., **Astuti, A.**, Suwignyo, B.)(2021)

Publisher: Bulletin of Animal Science 45(2):103-108.

26. *Effect of different level of nitrogen fertilizer on growth and production of Chicorium intybus at the eight regrowth* (Tilova, A.M., Umami, N., Suhartanto, B., **Astuti, A.**, Suseno, N.) (2021)

Publisher: IOP Conference Series: Earth and Environmental Science 788 (2021) 012163.

27. *Effects of different levels of defoliation on growth and production of Chicorium intybus* (Prajana, H.O., Umami, N., Suhartanto, B., Suseno, N., Hanim, C., **Astuti, A.**, Agus, A., Tilova, A.M.) (2021)

Publisher: IOP Conference Series: Earth and Environmental Science Volume 788 (2021) 012166

28. *Effect of Harvesting age of Chicory (Chicorium intybus) on the pattern of planting intercropping dwarf elephant grass in the second regrowth on production and quality* (Zaini, N., Tilova, A.M., Umami, N., Hanim, C., **Astuti, A.**, Suwignyo, B.) (2021)

Publisher: IOP Conference Series: Earth and Environmental Science Volume 788 (2021) 012173.

29. *Determinants of rice by-product utilization as a potential local feed for ruminants in Magelang Regency, Indonesia* (Widarni, N.A., **Astuti, A.**, Andarwati, S., Kusumastuti, T.A., Putra, A.R.S.) 2021)

Publisher: IOP Conference Series: Earth and Environmental Science Volume 902 (2021), 012049.

30. *Local forage development strategies based on beef cattle farmer's preferences* (Pratama, I.W., Agustine, R., **Astuti, A.**, Kasmiyati, Noviandi, C.T., Agus, A., Putra, A.R.S.) (2021)

Publisher: IOP Conf. Series: Earth and Environmental Science 782 (2021) 022080.

31. *An ISM approach for identifying and analyzing the complexity of beef*

	<p>cattle farming problems in Central Java(Pratama, I.W., Muzayyanah, M.A.U., Astuti, A., Budisatria, I.G.S., A., Putra, A.R.S.) (2021)</p> <p><i>Publisher: IOP Conf. Series: Earth and Environmental Science 905 (2021) 012133.</i></p> <p>32. <i>Effect of Dietary Rumen Undegraded Protein (RUP) Level on Nutrient Intake and Digestion of Lactating Dairy Cattle (Astuti, A., Widyobroto, B.P., Rochijan) (2020)</i></p> <p><i>Publisher: Bulletin of Animal Science, 44(4): 228-232</i></p> <p>33. <i>Drinking and feeding behavior of Ongole Crossbred Heifer with water-free access at Mergo Andhini Makmur Farmer Group, Yogyakarta, Indonesia (Baliarti, E., Astuti, A., Wiandita, A., Listia Astrini, A.) (2020)</i></p> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 518(1), 012010</i></p> <p>34. <i>Adoption of the mixed crop and livestock farming technology in Magelang Regency, Central Java (Ain Afrilia Widarni, N., Astuti, A., Andarwati, S., Anggraeni Kusumastuti, T., Romadhoni Surya Putra, A.) (2020)</i></p> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 518(1), 012046</i></p> <p>35. <i>The Effect of Supplementation of Leucaena leucocephala Leaves on Digestibility of Dry Matter and Organic Matter in Friesian Holstein Dairy Cows Rations (Nugroho, D.F., Suranindyah, Y.Y., Astuti, A.)(2020)</i></p> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 478(1), 012008</i></p> <p>36. <i>Effect of Combination of Protected and Non-Protected Corn Oil Supplementation on in Vitro Nutrient Digestibility (Anam, M.S., Yusiati, L.M., Hanim, C., Bachruddin, Z., Astuti, A.) (2020)</i></p> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 478(1), 012026</i></p> <p>37. <i>Nutrient content of Alfalfa (Medicago sativa L.) regrowth in different fertilizers and lighting (Suwignyo, B., Izzati, F., Astuti, A., Rini, E.A.) (2020)</i></p> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 465(1), 012035</i></p> <p>38. <i>Determinants of the mixed crop and livestock farming practice among smallholder farmers in Magelang Regency, Central Java Province (Widarni, N.A.A., Astuti, A., Andarwati, S., Kusumastuti, T.A., Putra, A.R.S.) (2020)</i></p> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 454(1), 012010</i></p>
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39. *Physical and chemical characteristics of rabbit complete pellet feed containing different levels of Leucaena leaf meal (Prayoga, J., **Astuti, A.**, Kurniawati, A.) (2020)*
Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 425(1), 012088
40. *Carcass characteristics of male New Zealand white rabbits fed complete pellet containing different levels of Leucaena leaf meal (Al-Amin, N., **Astuti, A.**, Widi, T.S.M.) (2020)*
Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 425(1), 012087
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<p>Activities in specialist bodies over the last 5 years</p>	<table border="1"> <thead> <tr> <th><i>Organisation</i></th> <th><i>Role</i></th> <th><i>Period</i></th> </tr> </thead> <tbody> <tr> <td><i>the Indonesian Association of Feed and Nutrition Experts</i></td> <td><i>Member</i></td> <td><i>2016-2019</i></td> </tr> <tr> <td><i>Association of Indonesian Animal Husbandry Graduates, Yogyakarta Special Region</i></td> <td><i>Treasurer</i></td> <td><i>2020-2024</i></td> </tr> </tbody> </table>	<i>Organisation</i>	<i>Role</i>	<i>Period</i>	<i>the Indonesian Association of Feed and Nutrition Experts</i>	<i>Member</i>	<i>2016-2019</i>	<i>Association of Indonesian Animal Husbandry Graduates, Yogyakarta Special Region</i>	<i>Treasurer</i>	<i>2020-2024</i>
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