

## Staff Handbook

Name	<i>Prof. Ir. Ambar Pertiwinigrum, M.Si., Ph.D., IPM., ASEAN Eng.</i>		
Post	<i>Technology of Leather, By Product and Animal Waste</i>		
Academic career	<i>Professional Engineering (IPM)</i>	<i>Universitas Gadjah Mada</i>	<i>2018</i>
	<i>Professor (Prof)</i>	<i>Universita Gadjah Mada</i>	<i>2019</i>
	<i>Doctorate</i>	<i>Gifu University I Japan</i>	<i>2004</i>
	<i>Graduate degree</i>	<i>Universitas Gadjah Mada</i>	<i>1999</i>
	<i>Undergraduate degree</i>	<i>Universitas Gadjah Mada</i>	<i>1989</i>
Employment	<i>Professor</i>	<i>Universitas Gadjah Mada</i>	<i>2019- present</i>
	<i>Associate Professor</i>	<i>Universitas Gadjah Mada</i>	<i>2009- 2019</i>
	<i>Assistant Professor</i>	<i>Universitas Gadjah Mada</i>	<i>2001-2009</i>
Research and development projects over the last 5 years	<p><i>Research projects:</i></p> <ol style="list-style-type: none"> <li><i>1. Smart Purificator of Portable Biogas for Communal Scale Biodigester (2021)</i> <i>Source of Funds: PTUPT Ristekdikti</i></li> <li><i>2. Study of Microstructural Damage by Microorganism on Tanned Skin (2021)</i> <i>Source of Funds: RTA UGM</i></li> <li><i>3. Effect of Adsorbent Volume and Adsorption Time on Carbon Dioxide Absorption in Biogas (2020)</i> <i>Source of Funds: RTA UGM</i></li> <li><i>4. Development of Storage Devices to Improve Ease of Handling and Transportation in Rural Areas (2020)</i> <i>Source of Funds: PTUPT Ristekdikti</i></li> <li><i>5. Potential of Fortified Biogas Sludge from Milk and Egg Shell Waste as a Mushroom Growing Media and Their Waste Products as Biochar (2020)</i> <i>Source of Funds: Master's Thesis Research, PTNBH- Kemenristekdikti</i></li> <li><i>6. Optimization and Biodegradation of Poultry Feather Waste with Extracellular Keratinase Enzymes from Indigenous Indonesian Strains (2020)</i> <i>Source of Funds: Faculty of Animal Science Universitas Gadjah Mada Postgraduate Research Grants</i></li> <li><i>7. Utilization of Agricultural and Livestock Waste as Carbon Dioxide Adsorbent in Biogas Purification (2019)</i> <i>Source of Funds: RTA UGM</i></li> <li><i>8. Development of Storage Devices to Improve Ease of Handling and</i></li> </ol>		

	<p><i>Transportation in Rural Areas (2019)</i></p> <p><i>Source of Funds: PTUPT Ristekdikti</i></p> <p>9. <i>Rehabilitation of Tropical Peatland Ecosystems Through Integrated Cycle-Organic Agricultural Systems for Environment and Sustainable Living with Dignity (2019)</i></p> <p><i>Source of Funds: Ristekdikti</i></p> <p>10. <i>Evaluation of the Quality of Mushroom Growing Media with Fortification of Various Livestock Waste (2019)</i></p> <p><i>Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada</i></p> <p>11. <i>Handling of Tanning Industry Liquid Waste in Bantul Regency with a Combination of Physical, Chemical, and Microbiological Treatment (2019)</i></p> <p><i>Source of Funds: Faculty of Animal Science Universitas Gadjah Mada Postgraduate Research Grants</i></p> <p>12. <i>Increased Productivity of Integrated Agricultural Systems Based on Organic Material Cycles to Support Healthy Food Sovereignty and Renewable Energy (2018)</i></p> <p><i>Source of Funds: PTUP), Ristekdikti</i></p> <p>13. <i>Development of Storage Devices to Improve Ease of Handling and Transportation in Rural Areas (2018)</i></p> <p><i>Source of Funds: PTUPT, Ristekdikti</i></p> <p>14. <i>Utilization of Egg Shells and Poultry Farm Slaughterhouse Waste as Materials for Developing White Oyster Mushroom Media (Pleurotus Florida) (2018)</i></p> <p><i>Source of Funds: Laboratory Thematic Grant, Faculty of Animal Science UGM</i></p> <p>15. <i>Screening and Characterization of Keratinolytic Bacteria from Puffer Fish Skin Waste (2017)</i></p> <p><i>Source of Funds: RI Ministry of Industry</i></p> <p>16. <i>Optimization of Methane in Biogas through Carbon Dioxide Adsorption Using a Combination of Natural Zeolite Adsorbent and Charcoal from Chicken Manure or Sludge Biogas (2017)</i></p> <p><i>Source of Funds: UGM Graduate School</i></p> <p>17. <i>Utilization of Chicken Excreta Sludge and Cow Manure Sludge as Bran Substitution for White Oyster Mushroom Growing Media (Pleurotus Florida) (2017)</i></p> <p><i>Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada</i></p> <p>18. <i>Increased Productivity of Integrated Agricultural Systems Based on Organic Material Cycles to Support Healthy Food Sovereignty and</i></p>
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	<p><i>Renewable Energy (Advanced, Year IV) (2017)</i></p> <p><i>Source of Funds: PUPT DIKTI</i></p> <p>19. <i>Technology Engineering for White Snapper Skin Waste Treatment as Export-Based Commercial Leather Products (batch 2) (Sole Researcher) (2016)</i></p> <p><i>Source of Funds: DIKTI (College Excellence Research)</i></p> <p>20. <i>Assembling of Biogas-Gama Absorbent Technology to Increase Methane Storage Capacity to Support Renewable Energy Independence (Member of 4 Researchers) (2016)</i></p> <p><i>Source of Funds: DIKTI (College Excellence Research)</i></p> <p>21. <i>19. Increasing Productivity of Integrated Agricultural Systems Based on Organic Material Cycles to Support Healthy Food Sovereignty and Renewable Energy (Member of 2 Researchers) (2016)</i></p> <p><i>Source of Funds: DIKTI (College Excellence Research)</i></p> <p>22. <i>Formulation of a 4-year Vocational High School Curriculum in the Field of Organic Agriculture in Supporting Food Resilience in Collaboration with the French Government (LeaderH of 4 Researchers) (2016)</i></p> <p><i>Source of Funds: Directorate of Vocational Development, Ministry of Education and Culture</i></p> <p>23. <i>Development of Snapper Skin Creative Products as National Leading Commodities (Leader of 2 Researchers) (2016)</i></p> <p><i>Source of Funds: Higher Education Competency Grant</i></p> <p>24. <i>Development of Sustainable Integrated Coastal Area through Integrated Bio-cycles Farming System for Excellent Commodity of Coconut Processing (Leader of 4 Researchers) (2016)</i></p> <p><i>Source of Funds: Increasing Researcher Capacity in the Preparation of UGM Multidisciplinary Proposals</i></p> <p>25. <i>Eggshell Powder as Biomaterial for Composting Bacteria and Gas Production (Member of 5 Researchers) (2016)</i></p> <p><i>Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada</i></p> <p><i>Community Service over the last 5 years:</i></p> <p>1. <i>The Increasing Women Role, Cattle Farmers' Wives, in Tahunan Village in Circular Economy Scheme by Strengthening Green Entrepreneurship Institution of Milk and Its Derivatives (2021)</i></p> <p><i>Source of Funds: DPKM UGM</i></p> <p>1. <i>Community Empowerment "Development of Agro-Environment Edu Techno Park (AETP) in Sriharjo Village, Bantul (2020)</i></p> <p><i>Source of Funds: YESSA Japan</i></p>
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	<p>2. <i>Women's Empowerment in Annual Village, Tegalombo District, Pacitan Regency to Increase Family Income During the Covid-19 Pandemic through Utilization of Empon-Empon and Cow's Milk into Healthy Dairy Products' in the Education-Based Community Service Scheme for Sustainable Development in 2020 (2020)</i></p> <p>Source of Funds: DKPM UGM</p> <p>3. <i>Design of Appropriate Technology for Livestock Waste Management in UPT Dairy UGM (2020)</i></p> <p>Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada</p> <p>4. <i>Design and Build a Tinning Drum in the Leather Tanning Process for the MSME Scale Tanning Industry (2019)</i></p> <p>Source of Funds: TTG, UGM</p> <p>5. <i>Implementation of Integrated Farming in the Livestock Sector Based on Community Empowerment in Pacitan Regency Annual Villages (2019)</i></p> <p>Source of Funds: ESD, UGM</p> <p>6. <i>Intensification of Livestock Waste Treatment Products Integrated Technical Implementation Unit Faculty of Animal Science, Universitas Gadjah Mada through Improving the Handling and Processing System (2019)</i></p> <p>Source of Funds: Faculty of Animal Science Universitas Gadjah Mada</p> <p>7. <i>Empowerment of Dairy Cattle Farmers through the Implementation of Integrated Farming at the Pacitan Regency Annual Village Cattle Group (2019)</i></p> <p>Source of Funds: Faculty of Animal Science Universitas Gadjah Mada</p> <p>8. <i>Assistance in Increasing Economic Value through Utilization of Organic Waste and Institutional Strengthening of Beef Cattle Groups at TPS Piyungan Bantul (2019)</i></p> <p>Source of Funds: Faculty of Animal Science, Universitas Gadjah Mada</p> <p>9. <i>Application of Maja Fruit Biofermentation in Waste Treatment of Chicken Farm in Banjar Arum Village, Kalibawang District, Kulonprogo Regency (2019)</i></p> <p>Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada</p> <p>10. <i>Bio-Fermentation Technology with Local Raw Materials as a Deodorizing Agent for Cattle Cages and Its Application in the Composting Process (2017)</i></p> <p>Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada</p> <p>11. <i>Bio-Fermentation Technology with Local Raw Materials as</i></p>
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	<p><i>Deodorizing Agent for Cattle Cage and Its Application in the Composting Process (2017)</i></p> <p><i>Source of Funds: Faculty of Animal Science Postgraduate Grant</i></p>
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> <li>1. <i>Project title: Cooperation in the Improvement and Development of Vocational High School Policies in the Form of Grants Compilation of Writing Studies of Norms, Standards, Procedures, Criteria</i></li> </ol> <p><i>Partners: Directorate of Vocational High School Development, Directorate General of Vocational Education, Ministry of Education, Culture, Research and Technology</i></p> <ol style="list-style-type: none"> <li>2. <i>Project title: Cooperation in the Improvement and Development of Integrated Farming in Villages, Disadvantage region and transmigration</i></li> </ol> <p><i>Partners: Ministry of Villages, Development of Disadvantaged Region</i></p> <ol style="list-style-type: none"> <li>3. <i>Project title: Cooperation in research of palm oil biogas</i></li> </ol> <p><i>Partners: PT Knowledge Integration Services (Indonesia), company of Biogas Production</i></p> <ol style="list-style-type: none"> <li>4. <i>Project title: Cooperation in research of biogas potential developing in Indonesia</i></li> </ol> <p><i>Partners: Korea Research Institute on Climate Change</i></p>
Patents and proprietary rights	<ol style="list-style-type: none"> <li>1. <i>Biogas Purification with Charcoal Based on Livestock and Agricultural Waste (<b>Ambar Pertiwiningrum</b>, Cahyono Agus Dwi Koranto, Andang Widi Harto, Rachmawan Budiarto)</i> 2019</li> <li>2. <i>Portable Adsorbent Biogas Cylinder with Cooling Wall (<b>Ambar Pertiwiningrum</b>, Alva Edy Tontowi, Margaretha Arnita Wuri)</i> 2022</li> </ol>
Important publications over the last 5 years	<p><i>Total number of publications: 70</i></p> <ol style="list-style-type: none"> <li>1. <i>Effect of using fresh palm oil and used palm oil as a fat liquoring agent to the chemical quality of leather from tilapia fish skin (<b>A Pertiwiningrum*</b>, K E Nugroho, M A N Roufi, A A Parameswari, and V Pastawan) (2022)</i></li> </ol> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science Volume 951 (2022) 012038 pp. 1-7 pISSN: 1755-1307, eISSN: 1755-1315</i></p> <ol style="list-style-type: none"> <li>2. <i>Production of poultry feather hydrolysate using HCl and NaOH as a growth medium substrate for indigenous strains (N A Fitriyanto*, Y Ramadhanti, Rismiyati, I Rusyadi, <b>A Pertiwiningrum</b>, R A Prasetyo, Y Erwanto) (2022)</i></li> </ol> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science Volume 951 (2022) 012064 pp. 1-7 pISSN: 1755-1307, eISSN: 1755-</i></p>

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3. *Effect of using fresh palm oil and used palm oil as a fatliquoring agent to the physical quality of tilapia fish skin in vegetable tannery (Ambar Pertiwiningrum\*, Kurniawan Eko Nugroho, Muhammad Aziz Nur Roufi, Viagian Pastawan, Ragil Yuliatmo, Mohammad Zainal Abidin and Yuny Erwanto) (2022)*

*Publisher: E3S Web of Conferences Volume 335 (2022) 00008 (1-7)  
The 2nd International Conference on Environmentally Sustainable Animal Industry (The 2nd ICESAI 2021) Malang, Indonesia, October 12, 2021*

4. *The Role of Arbuscular Mycorrhizal Fungi Density and Diversity on the Growth and Biomass of Corn and Sorghum Forage in Trapping Culture (M. Huseina, N. Umamia,\*, A. Pertiwiningrum, M. M. Rahmanb, & D. Anantaa) (2022)*

*Publisher: Tropical Animal Science Journal, March 2022, 45(1):37-43  
DOI: <https://doi.org/10.5398/tasj.2022.45.1.37> p-ISSN 2615-787X e-ISSN 2615-790X*

5. *The Effect of Storage Time to the Leather Microstructure due to Collagenolytic Bacteria Activity (Novita Kurniawati, Viagian Pastawan, Ragil Yuliatmo, Yuny Erwanto, Ambar Pertiwiningrum) (2021)*

*Publisher: Advances in Biological Sciences Research, Volume 18  
Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021)*

6. *The Waste Recycling of Sugarcane Bagasse-Based Biochar for Biogas Purification (Margaretha Arnita Wuri, Ambar Pertiwiningrum, Rachmawan Budiarto, Misri Gozan, Andang Widi Harto) (2021)*

*Publisher: IOP Conferences Series: Earth and Environmental Science 940 (1)*

7. *Pendampingan Pembuatan Kandang Domba Sehat di Desa Sriharjo Imogiri Kabupaten Bantul (Soedarmanto Indarjulianto, Catur Sugiyanto, Lilik Soetiarso, Alva Edy Tontowi, Ambar Pertiwiningrum, Teguh Ari Prabowo, Margaretha Arnita Wuri) (2021)*

*Publisher: IGKOJEI: Jurnal Pengabdian Masyarakat Vol. 2 Issue 3*

8. *The potential of Biogas Sludge Dairy Cattle with Fortification of Expired Milk Powder Waste and Eggshell as a Planting Media of White Oyster Mushroom (Pleurotus Florida) on Mycelium Growth (Sirajuddin, M.M., Muhlisin, Pertiwiningrum, A.) (2021)*

*Publisher: IOP Conference Series: Earth and Environmental Science, 2021, 686(1), 012060*

9. *Improving white oyster mushroom productivity by biogas sludge and its potential as functional foods (Rahmadian, Y., Pertiwiningrum, A.) (2021)*

	<p><i>Publisher: IOP Conference Series: Earth and Environmental Science, 2021, 662(1), 012013</i></p> <p>10. <i>Survival ability of Bacillus cereus LS2B in the presence of tannery wastewater (Fitriyanto, N.A., Azhar, I., Prasetyo, R.A., Abidin, M.Z., Erwanto, Y., Kurniawati, N., <b>Pertiwiningrum, A.</b>) (2021)</i></p> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science, 2021, 667(1), 012035</i></p> <p>11. <i>The utilization of biogas sludge biochar to lead zero waste system in biogas implementation: the effect of volume on carbon dioxide and methane content (<b>Pertiwiningrum, A.</b>, Wuri, M.A., Pambudi, W.L., Mira, L., Harto, A.W., Fitriyanto, N.A.) (2021)</i></p> <p><i>Publisher: International Journal of GEOMATE, 2021, 20(79), pp. 119–124</i></p> <p>12. <i>The Effect of Biogas Purification Using Biochar from Biogas Waste on Biogas Combustion (Widyawati Luhur Pambudi, <b>Ambar Pertiwiningrum</b>, Margaretha Arnita Wuri, Lies Mira Yusiati) (2020)</i></p> <p><i>Publisher: Key Engineering Materials Vol. 884 pp. 104-108</i></p> <p>13. <i>The effect of sludge dairy cattle and expired milk powder waste as growth media for white oyster mushroom (PleurotusFloridaa) (Sirajuddin, M.M., Muhlisin, <b>Pertiwiningrum, A.</b>) (2021)</i></p> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science, 2021, 637(1), 012047</i></p> <p>14. <i>Antibacterial effects of Kepok Banana bunch (Musa paradisiaca L.) against Staphylococcus aureus (Maryati, T., Nugroho, T., Bachruddin, Z., <b>Pertiwiningrum, A.</b>) (2021)</i></p> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science, 2021, 637(1), 012046</i></p> <p>15. <i>Tropical Biological Natural Resource Management Through Integrated Bio-Cycles Farming System (C Agus, M Nugraheni, <b>A Pertiwiningrum</b>, MA Wuri, NAI Hasanah, C Sugiyanto, E Primananda) (2021)</i></p> <p><i>Publisher: Sustainable Bioeconomy, 209-238, Springer, Singapore</i></p> <p>16. <i>Pemberdayaan Istri-Istri Peternak Melalui Pengolahan Susu pada Masa Pandemi Covid-19 Di Desa Tahunan, Kabupaten Pacitan (<b>A Pertiwiningrum</b>, TA Prabowo, C Sugiyanto, S Indarjulianto, MA Wuri) (2021)</i></p> <p><i>Publisher: Journal of Empowerment Community 3 (1), 17-22</i></p> <p>17. <i>The exploration of the banana bunch as a new vegetable tanning agent (Maryati, T., <b>Pertiwiningrum, A.</b>, Bachrudin, Z., Yuliatmo, R.) 2020 IOP Conference Series: Materials Science and Engineering, 2020, 980(1), 012019</i></p> <p>18. <i>Rice husk-based biochar for carbon dioxide adsorption in biogas</i></p>
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	<p><b>(Pertiwiningrum, A., Besari, R.N., Wuri, M.A., Harto, A.W., Fitriyanto, N.A., Yanuari, A.A.S.) (2020)</b></p> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 599(1), 012021</i></p> <p>19. <i>How do return sludge increase biogas production from cow manure? (Pertiwiningrum, A., Kusuma Wardani, R., Wintoko, J., Budiarto, R., Arnita Wuri, M., Gozan, M.) (2020)</i></p> <p><i>Publisher: E3S Web of Conferences, 2020, 181, 01006</i></p> <p>20. <i>Technical and social assessment of biogas in Yogyakarta and Gorontalo, Indonesia (Naimah, D.Y.N., Wuri, M.A., Pertiwiningrum, A., Budiarto, R., Handayani, T.P.) (2020)</i></p> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 471(1), 012006</i></p> <p>21. <i>Organic cycle system: The recycling of biogas sludge of cow manure as biochar for biogas purification (Pertiwiningrum, A., Harto, A.W., Wuri, M.A., Gemilang, A., Budiarto, R., Gozan, M.) (2020)</i></p> <p><i>Publisher: International Journal of GEOMATE, 2020, 19(72), pp. 96–101</i></p> <p>22. <i>Can Farmers' Wives Adopt New Technology? Case: Milk Processing during the Covid-19 Pandemic in the Tahunan Village, Pacitan Regency, Indonesia (Sugiyanto, Catur and Indarjulianto, Sudarminto and Pertiwiningrum, Ambar and Prabowo, Teguh Ari and Wuri, Margaretha Arnita and Trisilia, Mustika Septiyas and Fauzi, Ahmad Syahrul (2020)</i></p> <p><i>Publisher: Munich Personal RePEc Archive (MPRA), <a href="https://mpra.ub.uni-muenchen.de/104348/">https://mpra.ub.uni-muenchen.de/104348/</a></i></p> <p>23. <i>Evaluation of methane and carbon dioxide emissions from livestock waste, compost, and biogas sludge (A Pertiwiningrum, MA Wuri, D Setiyana, BH Purwanto, A Widi) (2020)</i></p> <p><i>Publisher: International Journal of GEOMATE, April 2020, Vol.18, Issue 68, pp. 35 – 40 ISSN: 2186-2982 (P), 2186-2990 (O), Japan, DOI: <a href="https://doi.org/10.21660/2020.68.5592">https://doi.org/10.21660/2020.68.5592</a> Special Issue on Science, Engineering and Environment</i></p> <p>24. <i>Empowerment of Tri-Centers Education for Communities Affected by Covid-19 in the Gunung-Sewu Mountainous Village Area (C Agus, BA Surantono, D Wulandari, A Pertiwiningrum, S Rochmiyati) (2020)</i></p> <p><i>Publisher: Psychology and Education Journal, 57 (9), 1238-1246</i></p> <p>25. <i>Increasing economic value of mondo and thorn stingray skin through the processing of commercial leather creative products (Sahubawa, L., Pertiwiningrum, A.) (2019)</i></p> <p><i>Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 404(1), 012084</i></p>
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26. *Improving nutrients in cattle manure by converting it into biogas sludge and compost* (**Pertiwinigrum, A.**, Wuri, M.A., Setiyana, D., Budiarto, R., Koranto, C.A.D., Gozan, M.) (2019)  
 Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 398(1), 012003
27. *The performance of biogas combustion after carbon dioxide absorption using sodium hydroxide (NaOH)* (**Pertiwinigrum, A.**, La'Aliya, I., Yusiati, L.M., Harto, A.W.) (2019)  
 Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012051
28. *Effect of banana and mango waste product as the alic acid source on methane gas production* (Saputro, W.S., Hanim, C., Yusiati, L.M., Bachruddin, Z., **Pertiwinigrum, A.**) (2019)  
 Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012026
29. *Biochemical and physical properties of goat feces liquid biofertilizer fermented with chicken excreta combination and different fermentation conditions* (Fitriyanto, N.A., Priyadi, D.A., Suranindyah, Y., Yusiati, L.M., Erwanto, Y., Kurniawati, N., **Pertiwinigrum, A.**) (2019)  
 Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012108
30. *Lanthanide-dependent methanol dehydrogenase from the legume symbiotic nitrogen-fixing bacterium Bradyrhizobium diazoefficiens strain USDA110* (Wang, L., Sukanuma, S., Hibino, A., Mitsui, R., Tani, A., Matsumoto, T., Ebihara, A., Fitriyanto, N.A., **Pertiwinigrum, A.**, Shimada, M., Hayakawa, T., Nakagawa, T.) (2019)  
 Publisher: Enzyme and Microbial Technology, 2019, 130, 109371
31. *Combustion of Purified Biogas after Carbon Dioxide Absorption Using Sodium Hydroxide* (**Pertiwinigrum, A.**, La'aliya, I., Windiaka, B.U., Yusiati, L.M., Harto, A.W.) (2019)  
 Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 353(1), 012014
32. *Role of watering interval and media composition on the growth of exoticfast-gro species on coal mining soil* (Agus, C., Anggari, P.E., Faridah, E., Wulandari, D, Suginingsiha, Ratnaningrum, Y.W.N., Winarni, W.W., Lestari, T., Sunaryo, Y., **Pertiwinigrum, A.**, Napitupulu, R.P., Primananda, E.) (2019)  
 Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 308(1), 012055
33. *Role of organic soil amendment of paramagnetic humus and compost for rehabilitation of post-tin-mined tropical land* (Agus, C., Hendryan, A., wing Harianja, V., Faridah, E., Atmanto, W., Cahyanti, P.A.B., Wulandarc, D., **Pertiwinigrum, A.**, Suhartanto, B., Bantara, I.,

	<p>Hutahaeen, B., Suparto, B., Llestari T.)(2019)  <i>Publisher: International Journal of Smart Grid and Clean Energy, 2019, 8(5), pp. 556–561</i></p> <p>34. <i>Mapping of resources and potential development for food-secure region in east seram, Maluku province, Indonesia (Pertiwiningrum, A., Setianto, A., Supriadi,, Wuri, M.A., Prabowo, T.A.) (2019)</i>  <i>Publisher: International Journal of Recent Technology and Engineering, 2019, 8(2), pp. 4143–4147</i></p> <p>35. <i>Carbon Dioxide Adsorption on Chicken Manure or Biogas Sludge derived Biochar and its modification to enrich Methane Composition in Biogas (Wuri, M.A., Pertiwiningrum, A., Budiarto, R., Gozan, M.) (2019)</i>  <i>Publisher: Research Journal of Chemistry and Environment, 2019, 23(2), pp. 91–98</i></p> <p>36. <i>Heating value enhancement by biogas purification using natural zeolite and rice straw-based biochar (Pertiwiningrum, A., Wuri, M.A., Harto, A.W., Budiarto, R., Gozan, M.) (2019)</i>  <i>Publisher: International Journal of GEOMATE, 2019, 16(55), pp. 80–85</i></p> <p>37. <i>The role of soil organic amendment of humus paramagnetic and compost for remediation of post tin mining tailing media and their growth of Reutealis trisperma seedling (C Agus, A Hendryan, V Harianja, E Faridah, WD Atmanto, PAB Cahyanti, D Wulandari, A Pertiwiningrum, B Suhartanto, I Bantara, BP Hutahaeen, B Suparto, T Lestari) (2019)</i>  <i>Publisher: International Journal of Smart Grid and Clean Energy (IJSGCE) 8 (5), 556-561</i></p> <p>38. <i>Potency of different banana bunches cultivar (Musa sp) as vegetable tanning agents (T Maryati, T Nugroho, Z Bachruddin, A Pertiwiningrum) (2019)</i>  <i>Publisher: International Seminar on Tropical Animal Production (ISTAP), 253-257</i></p> <p>39. <i>Kualitas Fisik Antimicrobial Edible Film (AmEF) dengan Ekstrak Daun Teh (Camellia sinensis) dari Gelatin Limbah Tulang Ayam (L Windyasmara, A Pertiwiningrum, Y Erwanto, NW Asmoro, A Afriyanti) (2019)</i>  <i>Publisher: Jurnal Ilmu Peternakan dan Veteriner Tropis (Journal of Tropical Animal and Veterinary Science), 9(1): 6-11</i></p> <p>40. <i>Potential Baggage and Molasses Waste Sugar Factory For Mixed Substrates With Cow Manure In Fermentation Process Methanogenic (L Windyasmara, A Pertiwiningrum) (2019)</i>  <i>Publisher: Jurnal Ilmu Peternakan dan Veteriner Tropis (Journal of Tropical Animal and Veterinary Science) 8(2): 66-70</i></p>
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41. *The Effects of Tanning with Kepok Banana (Musa Paradisiaca L) Bunch on the Physical Quality of Rabbit Skin (T Maryati, **A Pertiwiningrum**, Z Bachruddin)(2019)*  
 Publisher: *Int. J. Recent Technol. Eng.* 8, 12564-7
42. *Characterization of Natural Zeolite and Chicken Manure Derived Biochar for Carbon Dioxide Adsorption in Biogas (Arnita Wuri, M., **Pertiwiningrum**, A., Budiarto, R., Agus Dwi Koranto, C.) (2018)*  
 Publisher: *E3S Web of Conferences*, 2018, 43, 01008
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	<p><i>Peternakan Menyongsong Era Industri 4.0". Fakultas Peternakan Universitas Gadjah Mada, Yogyakarta, 5 November 2018. Hal. 248-252. ISBN: 978-979-1215-33-6</i></p> <p>56. <i>Chemical Quality of Chicken Bone Waste Gelatin Extracted using Chloride Acid (Ludfia Windyasmara, Ambar Pertiwiningrum, Novian Wely Asmoro) (2018)</i></p> <p><i>Publisher: Buletin Peternakan Vol. 42 No. 4, hal. 322-326, 2018. ISSN-0126-4400/E-ISSN-2407-876X.</i>  <a href="https://journal.ugm.ac.id/buletinpeternakan/article/view/29104/22955">https://journal.ugm.ac.id/buletinpeternakan/article/view/29104/22955</a>.</p> <p>57. <i>Intangible Costs Resulting from Inefficient Feeding and Water Usage in Smallholder Dairy Farm in Indonesia (Author 5 of 5) (2017)</i></p> <p><i>Publisher: International Journal of Dairy Science Volume 12, Number 3, 211-217, 2017. Published by: Academic Journal Inc. ISSN: 1811-9751, pISSN: 1811-9743. DOI: 10.3923/ijds.2017.211.217</i></p> <p>58. <i>Potential Test on Utilization of Cow's Rumen Fluid to Increase Biogas Production Rate and Methane Concentration in Biogas (The first author of six) (2017)</i></p> <p><i>Publisher: Asian Journal of Animal Sciences Vol. 11 No. 2:82-87, 2017. ISSN 1819-1878. Published by: Knowledge Scientific. DOI: 10.3923/ajas.2017.82.87</i></p> <p>59. <i>Making Organic Fertilizer Using Sludge from Biogas Production as Carrier Agent of Trichoderma harzianum (The first author of 6) (2017)</i></p> <p><i>Publisher: Journal of Biological Sciences, Vol. 17, No. 1, 2017: 21-27 ISSN: 1727-3048. Published by: ANSInet. DOI:10.3923/jbs.2017.21.27</i></p> <p>60. <i>Screening and Characterization of Keratinolytic Bacteria from Puffer Fish Skin Waste (6th author of 6) (2017)</i></p> <p><i>Publisher: Pakistan Journal of Nutrition Vol. 16 (7): 488-496, 2017. ISSN: 1680-5194. Published by: ANSInet. DOI: 10.3923/pjn.2017.488.496.URL: <a href="http://scialert.net/abstract/?doi=pjn.2017.488.496">http://scialert.net/abstract/?doi=pjn.2017.488.496</a>.</i></p> <p>61. <i>Semi Purification and Identifications Molecule Protein Weigh of Alkaline Protease Enzyme from Bacillus cereus LS2B (Author 2 of 4) (2017)</i></p> <p><i>Publisher: International Journal of Bio-Science and Bio-Technology, Vol. 9, No. 3, 2017: 89-100. Indexed by Scopus, Impact Faktor: 0,22 (SJR). Published by: Science &amp; Engineering Research Support Society. ISSN: 2233-7849.</i></p> <p>62. <i>Implementation of Upflow Anaerobic Sludge Blanket Digester to Produce Household-scale Biogas (first author of four) (2017)</i></p> <p><i>Publisher: Journal of Applied Sciences Vol. 17 No. 8, 2017. Page No.: 392-399. eISSN: 1812-5662. ISSN: 1812-5654. DOI: 10.3923/jas.2017.392.399</i></p> <p>63. <i>The Mapping of Resources and Development Potentials of Food-</i></p>
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	<p><i>Secure Region in Kupang District, Province of Nusa Tenggara Timu (single author) (2017)</i></p> <p><i>Publisher: Seminar The 23rd Annual International Sustainable Development Research Conference (ISDRC) di Bogotá, Colombia, 14 - 16 June 2017</i></p> <p>64. <i>Isolation of Bacteria Producing Enzyme Collagenase from Waste of Pufferfish (Arothon reticularis) Skin (Second author of six) (2017)</i></p> <p><i>Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 374-379. ISBN: 978-979-1215-29-9</i></p> <p>65. <i>Utility of Biogas Sludge as Media for White Oyster Mushroom (Pleurotus Florida) (The first author of four) (2017)</i></p> <p><i>Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 485-495. ISBN: 978-979-1215-29-9</i></p> <p>66. <i>Effect of adding the chicken feces meal into the biogas sludge as the bran mixture on the white A4-040 oyster mushroom (Pleurotus Florida) productivity (The first author of four) (2017)</i></p> <p><i>Publisher: The 2nd International Conference on Tropical Agriculture (ICTA), 2017. Program and Abstract Book. UGM, Yogyakarta, Indonesia, 26–27 October 201. Page: 71.</i></p> <p>67. <i>Biosorption of metals ion on methanol dehydrogenase activity test of Bradyrhizobium japonicum USDA110 (Second author of five) (2017)</i></p> <p><i>Publisher: The 2nd International Conference on Tropical Agriculture (ICTA), 2017. Program and Abstract Book. UGM, Yogyakarta, Indonesia, 26–27 October 201. Page: 96</i></p> <p>68. <i>Characterization of Pseudomonas sp. LS3K as nitrate removal agent at different C/N ratios under aerobic condition (Second author of five) (2017)</i></p> <p><i>Publisher: The 2nd International Conference on Tropical Agriculture (ICTA), 2017. Program and Abstract Book. UGM, Yogyakarta, Indonesia, 26–27 October 201. Page: 99</i></p> <p>69. <i>Sistem Pertanian Terintegrasi dalam Mendukung Pengembangan Kawasan Tangguh Pangan (Penulis tunggal) (2017)</i></p> <p><i>Publisher: Program Penguatan Agroekologi Berbasis Local Wisdom untuk mendukung Pengembangan Kawasan Tangguh Pangan, 19 – 21 Juli 2017, Hotel Forriz, Yogyakarta</i></p> <p>70. <i>Adopsi Inovasi Peternakan Terintegrasi Studi Kasus: Desa Argorejo dan Argosari Kecamatan Sedayu, Kabupaten Bantul Provinsi D.I Yogyakarta (Penulis ke-6 dari 6) (2017)</i></p> <p><i>Publisher: Buletin Peternakan Vol. 41 (3): 238-248, Agustus 2017 ISSN-0126-4400 E-ISSN-2407-876X DOI:</i></p>
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Activities in specialist bodies over the last 5 years	<i>Dewan Guru Besar</i>	<i>Secretary</i>	<i>2021-2026</i>
	<i>Indonesian Engineers Association (PII) Yogyakarta</i>	<i>Secretary</i>	<i>2021-2024</i>
	<i>Center for Animal Development Studies</i>	<i>Head</i>	<i>2014-2017</i>

