

CURRICULUM VITAE

Panagiotis Panagakis
Associate Professor

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Personal Information

| | |
|---------------|--|
| First Name | Panagiotis |
| Last Name | Panagakis |
| Date of birth | 20 March 1963 |
| Work address | Agricultural University of Athens School of Environment and Agricultural Engineering Department of Natural Resources Management and Agricultural Engineering Laboratory of Farm Structures |
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Studies

| YEARS | UNIVERSITY | DEGREE |
|-----------|-----------------------------------|---|
| 1980-1985 | Agricultural University of Athens | BSc (specialization in Agricultural Engineering) |
| 1986-1987 | University of Florida | Master of Engineering |
| 1988-1993 | Agricultural University of Athens | PhD |

Publications

| PAPERS | | TOTAL |
|-------------------|------------------------------------|------------|
| Peer reviewed | | |
| I | Dissertations | |
| | <i>MSc</i> | 1 |
| | <i>PhD</i> | 1 |
| II | International Journals | 32 |
| III | International Conferences | 24 |
| IV | National Conferences | 11 |
| V | Chapters in International Editions | 2 |
| Non-peer reviewed | | |
| VI | International Editions | 18 |
| VII | International Workshops | 26 |
| VIII | University Notes | 2 |
| | <i>(revised)</i> | |
| ΣΥΝΟΛΟ | | 117 |

Research Experience

Participation in 28 projects spanning from *Livestock Housing* to *Design of Farm Structures* and from *Energy in Agriculture* to *Education in Agricultural Engineering* related issues.

Recognition

- Associate Editor (Section II: Structures and Environment) of CIGR Journal: Agricultural Engineering International (2010–2020).
- Reviewer for:
 - Applied Engineering in Agriculture
 - Biosystems Engineering
 - Biotechnology and Bioengineering
 - CIGR Journal
 - Computers and Electronics in Agriculture
 - International Journal of Biometeorology
 - Journal of Thermal Biology
 - Science of the Total Environment
 - Solar Energy
 - TRANSACTIONS of the ASABE
- The Institute of Animal Science at the University of Milan invited me for *short-term scientific mission* related to rabbit heat stress (COST Action 848, 2001)
- EurAgEng coordinator for workgroup SE15: '*Farm Building Structures and Environment*'.
- Member of the following workgroups:
 - ASABE- PAFS-40/1 - Animal Physiology and Welfare; Animal Housing Systems*
 - CIGR - Section II: Structures and Environment - Animal Housing in Hot Climate; Education in PLF*
- CIGR coordinator for subgroup *Glossary and Basic Definitions within working group Section II: Animal Housing in Hot Climate*.
- Chapter Editor of *Plant, Animal and Facility Systems* referring to:
 - (1) *Plant Production in Controlled Environments*
https://doi.org/10.21061/IntroBiosystemsEngineering/Plant_Controlled_Environment
 - and
 - (2) *Building Design for Energy Efficient Livestock Housing*
https://doi.org/10.21061/IntroBiosystemsEngineering/Livestock_Housing_Energy

The Chapter is included in *Introduction to Biosystems Engineering*, (Eds.) Holden, Wolfe, Ogejo and Cummins (2021), ASABE, St Joseph, MI and Virginia Tech Publishing, Blacksburg, VA, USA.

Teaching

Graduate Courses

| A/A | COURSE | Π.Μ.Σ. | SEMESTER |
|-----|--|---|-----------------|
| 1 | DESIGN FOR SAFETY (HASP) | INTEGRATED DESIGN AND MATERIALS FOR SUSTAINABLE ENVIRONMENT AND AGRICULTURAL PRODUCTION | 1 ST |
| 2 | ENVIRONMENTALLY FRIENDLY DESIGN OF LIVESTOCK HOUSING UNITS | | 1 ST |
| 3 | NATURAL VENTILATION AND RES IN LIVESTOCK HOUSING | | 2 ND |
| 4 | INDOOR ENVIRONMENTAL CONTROL FOR ANIMAL FACILITIES | DIGITAL TECHNOLOGIES AND SMART INFRASTRUCTURE IN AGRICULTURE | 1 ST |

Undergraduate Courses

| A/A | COURSE | SEMESTER |
|-----|-----------------------------------|-----------------------------------|
| 1 | AUTOCAD | 3 RD |
| 2 | LIVESTOCK HOUSING | 7 TH , 8 TH |
| 3 | ENVIRONMENTAL CONTROL FOR ANIMALS | 8 TH |
| 4 | WASTE MANAGEMENT | 8 TH |

Graduate and Undergraduate Theses

They refer to:

- (a) Environmental control for productive animals and thermal welfare under various climatic conditions
- (b) Energy efficient design of livestock facilities

Subject Expertise

- Simulation of farm animals' thermal microenvironment
- Experimental design in livestock units
- Collection and processing of data
- Behavioural study of farm animals as related to their micro-environment

Papers

PEER REVIEWED

Dissertations

- I1. Panagakis, P. B. 1987. *Comparison of ventilation systems and protein sources on the performance of young pigs*. University of Florida, Gainesville, Florida, Master of Engineering Thesis.
- I2. Παναγάκης, Π. 1993. *Early weaned pigs' production under various thermal conditions combined to nutrition* (in Greek). Agricultural University of Athens, PhD Thesis.

International Journals

- II1. Panagakis, P. B., R. A. Bucklin, W. R. Walker, P. H. Jones and G. E. Combs. 1989. *Comparison of the effects of ventilation systems on the performance of young pigs reared under summer conditions*. Applied Engineering in Agriculture 5(1): 109-112. <https://doi:10.13031/2013.26487>.
- II2. Panagakis, P.* and S. Kyritsis. 1991. *Effect of air temperature, relative humidity and velocity on early-weaned piglets: a review*. Farm Building Progress 105: 16-19.
- II3. Panagakis, P.*, S. Kyritsis, D. Tambouratzis and G. Papadopoulos. 1991. *Evaluation of a pig annex ventilation system operating under summer conditions*. Applied Engineering in Agriculture 7(3): 353-357. <https://doi:10.13031/2013.26234>.
- II4. Panagakis, P.*, S. Kyritsis, G. Papadopoulos and D. Tambouratzis. 1992. *Spray cooling of early weaned piglets: A first approach*. Applied Engineering in Agriculture 8(1): 106-110. <https://doi:10.13031/2013.26040>.
- II5. Axaopoulos, P., P. Panagakis* and S. Kyritsis. 1992. *Computer simulation assessment of the thermal microenvironment of growing pigs under summer conditions*. TRANSACTIONS of the ASAE 35(3): 1005-1009. <https://doi:10.13031/2013.28694>.
- II6. Panagakis, P. B., R. A. Bucklin, W. R. Walker and G. E. Combs. 1993. *Comparison of heating systems and protein sources on the performance of early-weaned pigs reared under mild winter conditions*. Applied Engineering in Agriculture 9(1): 131-135. <https://doi:10.13031/2013.25975>.
- II7. Axaopoulos, P., P. Panagakis*, G. Pitsilis and S. Kyritsis. 1994. *AGRISIM: A PC user friendly program for growing-finishing swine buildings*. Applied Engineering in Agriculture 10(5): 735-738. <https://doi:10.13031/2013.25907>.
- II8. Panagakis, P.*, P. Axaopoulos and S. Kyritsis. 1996. *Misting control strategy for growing-swine under summer conditions*. Applied Engineering in Agriculture 12(6): 747-751. <https://doi:10.13031/2013.25708>.
- II9. Axaopoulos, P., P. Panagakis* and S. Kyritsis. 1998. *Experimental comparison of a solar assisted heat pump vs. a conventional thermosyphon solar system*. International Journal of Energy Research 22 (13): 1107-1120. [https://doi.org/10.1002/\(SICI\)1099-114X\(19981025\)22:13<1107::AID-ER426>3.0.CO;2-E](https://doi.org/10.1002/(SICI)1099-114X(19981025)22:13<1107::AID-ER426>3.0.CO;2-E).
- II10. Axaopoulos, P., P. Panagakis*, A. Tsavdaris and D. Georgakakis. 2001. *Simulation and experimental performance of a solar-heated anaerobic digester*. Solar Energy 70(2): 155-164. [https://doi.org/10.1016/S0038-092X\(00\)00130-4](https://doi.org/10.1016/S0038-092X(00)00130-4).
- II11. Axaopoulos, P., G. Pitsilis and P. Panagakis*. 2002. *Multimedia education program for an active solar hot water system*. International Journal of Solar Energy 22(2): 83 - 92. <https://doi.org/10.1080/01425910214358>.

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- II12. Axaopoulos, P. and P. Panagakis*. 2003. *Energy and economic analysis of biogas heated livestock buildings*. Biomass and Bioenergy 24(3): 239-248. DOI:10.1016/S0961-9534(02)00134-4. [https://doi.org/10.1016/S0961-9534\(02\)00134-4](https://doi.org/10.1016/S0961-9534(02)00134-4).
- II13. Panagakis, P.*, S. Deligeorgis, G. Zervas and G. Laliotis. 2004. *Effects of three different floor types on the posture behaviour of semi-intensively reared Boutsiko breed dairy ewes*. Small Ruminant Research 53(1-2): 111-115. <https://doi.org/10.1016/j.smallrumres.2003.08.021>.
- II14. Panagakis, P.* and P. Axaopoulos. 2004. *Comparison of two modeling methods for the prediction of degree-hours and heat-stress likelihood in a swine building*. TRANSACTIONS of the ASAE 47(2): 585-590. <https://doi:10.13031/2013.16039>.
- II15. Panagakis, P.* and P. Axaopoulos. 2006. *Simulation comparison of evaporative pads and fogging on air temperatures inside a growing swine building*. TRANSACTIONS of the ASABE 49(1): 209-215. <https://doi:10.13031/2013.20240>.
- II16. Panagakis, P.* and P. Axaopoulos. 2008. *Comparing fogging strategies for pig rearing using simulations to determine apparent heat-stress indices*. Biosystems Engineering 99(1): 112-118. <https://doi:10.1016/j.biosystemseng.2007.10.007>.
- II17. Panagakis, P.*, V. Blanes-Vidal, T. Banhazi, J. C. Barbosa, E. Maltz, V. Da Cruz and D. Berckmans. 2009. *Glossary of terms on animal housing: interconnecting engineering, physical and physiological definitions*. Agricultural Engineering International: CIGR Journal, XI.
- II18. Briassoulis, D., P. Panagakis, M. Chionidis, D. Tzenos, A. Lalos, Ch. Tsinos, K. Berberidis and A. Jacobsen, 2010. *An experimental helical-tubular photobioreactor for continuous production of Nannochloropsis sp.* Bioresource Technology 101(17): 6768-6777. <https://doi.org/10.1016/j.biortech.2010.03.103>.
- II19. Panagakis, P.* and E. Chronopoulou. 2010. *Preliminary evaluation of the apparent short-term heat-stress of dairy ewes reared under hot summer conditions*. Applied Engineering in Agriculture 26(6): 1035-1042. <https://doi.org/10.13031/2013.35911>.
- II20. Panagakis, P.* 2011. *Black-globe temperature effect on short-term heat stress of dairy ewes housed under hot climate*. Small Ruminant Research 100 (2-3): 96-99. <https://doi.org/10.1016/j.smallrumres.2011.06.006>.
- II21. Axaopoulos, P., P. Panagakis* and I. Axaopoulos. 2014. *Effect of wall orientation on the optimum insulation thickness of a growing-finishing piggery building*. Energy and Buildings 84: 403-411. <https://doi.org/10.1016/j.enbuild.2014.07.091>.
- II22. Papanastasiou, D. K., T. Bartzanas, P. Panagakis and C. Kittas. 2014. *Assessment of a typical Greek sheep barn based on potential heat-stress of dairy ewes*. Applied Engineering in Agriculture 30(6): 953 - 959. <https://doi.org/10.13031/aea.30.10256>.
- II23. Panagakis P.* 2016. *Potential seasonal heat-stress of sheep: assessment of four husbandry areas in Greece*. Applied Engineering in Agriculture 32(1): 125-129. <https://doi.org/10.13031/aea.32.11451>.
- II24. Skoufos, I., I. Giannenas, D. Tontis, T. Bartzanas, C. Kittas, P. Panagakis and A. Tzora. 2016. *Effects of oregano (Origanum vulgare) essential oil and attapulgate (Magnesium Aluminium Phyllosilicate) on growth performance, and intestinal microbiota and morphometry in broiler chickens*. South African Journal of Animal Science 46(1): 77-88. <https://doi.org/10.4314/sajas.v46i1.10>.
- II25. Papanastasiou, D. K., T. Bartzanas, P. Panagakis, G. Zhang and C. Kittas. 2016. *Study of heat-stress levels in naturally ventilated sheep barns during heat waves: development and assessment of regression models*. International Journal of Biometeorology 60: 1637–1644. <https://doi.org/10.1007/s00484-016-1153-8>.
- II26. Panagakis P.* 2016. *Potential summer heat-stress of sheep at Greek husbandry areas of different landscape*. Agricultural Engineering International: CIGR Journal 18(3): 44-50.

- II27. Axaopoulos, P., P. Panagakis* and I. Axaopoulos. 2017. *Optimization of external walls and roof insulation thickness of a growing-finishing piggery building*. TRANSACTIONS of the ASABE 60(2): 489-495. <https://doi:10.13031/trans.12009>.
- II28. Papanastasiou, D. K., P. Panagakis, V. Anestis, T. Bartzanas, I. Skoufos, A. Tzora and C. Kittas. 2018. *Environmental conditions, potential heat-stress state and their relations in a sheep barn under hot climate*. Agricultural Engineering International: CIGR Journal Special issue - Animal Housing in Hot Climate: 87-100.
- II29. Axaopoulos, P., P. Panagakis* and I. Axaopoulos. 2018. *Optimization of ventilation rates for growing-finishing piggeries*. Agricultural Engineering International: CIGR Journal 20(3): 71-77.
- II30. Manolakos, D., P. Panagakis, T. Bartzanas and K. Bouzianas. 2019. *Use of heat pumps in HVAC systems for precise environment control in broiler houses: system's modeling and calculation of the basic design parameters*. Computers and Electronics in Agriculture 163: 104876. <https://doi.org/10.1016/j.compag.2019.104876>.
- II31. Tzanidakis, Ch., P. Simitzis, K. Arvanitis and P. Panagakis. 2021. *An overview of the current trends in precision pig farming technologies*. Livestock Science 249: 104530. <https://doi.org/10.1016/j.livsci.2021.104530>.
- II32. Panagakis*, P., D. Manolakos and P. Axaopoulos. 2021. *Optimal financial insulation thickness of a broiler house*. Agricultural Engineering International: CIGR Journal 23(2): 99-110.

International Conferences

- III1. Panagakis, P.* and S. Kyritsis. 1993. *Reduced temperature effects on the performance of early-weaned pigs*. Paper: 93-4576. In: ASAE International Winter Meeting, Chicago, IL.
- III2. Axaopoulos, P., P. Panagakis*, G. Pitsilis and S. Kyritsis. 1994. *Design and optimization of a growing-finishing swine building using transient simulation*. Paper: 94C-042. In: AgEng'94 International Conference on Agricultural Engineering, Milan, Italy.
- III3. Panagakis, P.*, P. Axaopoulos and S. Kyritsis. 1996. *Stochastic assessment of a misting control strategy for growing-swine under summer conditions*. Paper: 96B-080. In: AgEng'96 International Conference on Agricultural Engineering, Madrid, Spain.
- III4. Panagakis, P.*, M. Soundra-Nayagam, O. Benchikh, L. Freris and S. Kyritsis. 1996. *Development of a renewable energy education programme*. In: Fifth International Symposium on Renewable Energy Education, Oldenburg, Germany.
- III5. Panagakis, P.*, D. Briassoulis, E. Dimas, K. Berberidis and P. Karaivazoglou. 2000. *Early-weaned piglets weight estimation using image analysis*. Paper: 00-AE-019. In: AgEng2000, Agricultural Engineering into the Third Millennium, Warwick, UK.
- III6. Panagakis, P.* and P. Axaopoulos. 2004. *Prediction of cooling degree-hours and heat-stress likelihood using steady-state and transient method in a swine building*. Paper: FB04-616. In: New Trends in Farm Buildings, International Symposium of the CIGR 2nd Technical Section, Evora, Portugal.
- III7. Panagakis, P.* and P. Axaopoulos. 2006. *Simulation comparison of fogging strategies based on growing swine apparent heat-stress indices*. Paper: 440119580405. In: AgEng'06 Agricultural Engineering for a Better World, Bonn, Germany.
- III8. Briassoulis, D., P. Panagakis* and E. Nikopoulos. 2006. *University studies of Agricultural Engineering in Europe: in a crucial transition from Agricultural to Biosystems Engineering*. Paper: 440119580903. In: AgEng'06 Agricultural Engineering for a Better World, Bonn, Germany.
- III9. Martino, P. A., C. Lazzaroni, F. M. G. Luzi, P. Panagakis and M. Verga. 2006. *Evaluation of the microbial environment of rabbit cages with and without enrichment strategies*. In: EAAP 2006, Session 5: Interaction between management, animal and farmer health, Antalya, Turkey.

- III10. Briassoulis, D., P. Panagakis*, E. Nikopoulos and F. Ayuga. 2008. *The emerging evolution from Agricultural Engineering to Biosystems Engineering studies in Europe*. Paper: 868. In: Inted 2008, International Technology, Education and Development Conference, Valencia, Spain.
- III11. Panagakis, P.* and S. Deligeorgis. 2008. *Preliminary evaluation of the short-term thermal comfort of dairy ewes reared under Greek summer conditions*. Paper: OP-705. In: AgEng'08, Agricultural and Biosystems Engineering for a Sustainable World, Crete, Greece.
- III12. Panagakis, P.*, D. Briassoulis, E. Nikopoulos, J. P. Douzals, G. Scarascia-Mugnozza, P. Febo, A. Comparetti, J. Fehrmann, F. Ayuga, S. Mostaghimi, M. L. Wolfe, G. Riskowski, K. C. Ting and R. Kanwar. 2008. *Policy oriented measures in support of the evolving Biosystems Engineering studies in USA – EU*. Paper: OP-1885. In: AgEng'08, Agricultural and Biosystems Engineering for a Sustainable World, Crete, Greece.
- III13. Panagakis, P.*, V. Blanes-Vidal, J. C. Barbosa, T. Banhazi, V. F. Da Cruz, E. Maltz and D. Berckmans. 2008. *Glossary and basic definitions for animal housing in hot climates*. Paper: PAP0205. In: CIGR - International Conference of Agricultural Engineering, Iguassu Falls City, Brazil.
- III14. Panagakis, P.* and E. Chronopoulou. 2009. Preliminary evaluation of the apparent short term heat-stress of dairy ewes reared under hot summer conditions. Paper: 095969. In: ASABE Annual International Meeting, Reno, Nevada, USA.
- III15. Briassoulis, D., P. Panagakis*, K. Navickas. 2010. *Structural developments towards the Biosystems Engineering programs of studies in Europe*. REF: 444. In: AgEng'10, Towards Environmental Technologies, Clermont-Ferrand, France.
- III16. Aguado, P., F. Ayuga, D. Briassoulis, P. Panagakis, P. Febo, A. Comparetti, G. Scarascia-Mugnozza, C. O' Donell, K. Navickas and J. Fehrmann. 2011. *The transition from Agricultural to Biosystems Engineering University studies in Europe*. In: The 9th International Conference on Education and Information Systems, Technologies and Applications: EISTA 2011, Orlando, Florida, USA.
- III17. Wolfe, M. L., P. Panagakis, T. Wynn Thompson, F. Gentile, G. Danao, A. Ramirez, C. O'Donnell and C. Whysong. 2012. *Introduction to Biosystems Engineering in the era of the bio-based economy: teaching resources development*. Paper: 121337900. In: ASABE Annual International Meeting, Dallas, Texas, USA.
- III18. Papanastasiou, D. K., T. Bartzanas, P. Panagakis and C. Kittas. 2012. *Preliminary findings on seasonal heat-stress of sheep*. Paper: ILES12-0214. In: The 9th International Livestock Environment Symposium (ILES IX), ASABE, Valencia, Spain.
- III19. Papanastasiou, D. K., G. Zhang, T. Bartzanas, P. Panagakis, T. Norton and C. Kittas. 2013. *Development of models to assess potential sheep heat-stress during heat waves*. In: 6th European Conference on Precision Livestock Farming (EC-PLF 2013), Leuven, Belgium, pp. 391-396.
- III20. Balafoutis, A. T., F. Baptista, D. Briassoulis, L. L. Silva, P. Panagakis and S. J. R Marques. 2013. *Energy efficiency enhancement and greenhouse gas emissions reduction from traditional to organic vineyard cultivations in Greece and Portugal*. In: The First International Symposium on Agricultural Engineering (ISAE—2013), Belgrade, Serbia, pp: VII-27 – VII-36.
- III21. Balafoutis, A., F. Baptista, D. Briassoulis, L. L. Silva, P. Panagakis and D. Murcho. 2014. *Comparative studies on energy efficiency and GHG emissions between traditional and organic olive groves in Greece and Portugal*. C0344. In: AgEng'14, Engineering for improving resource efficiency, Zurich, Switzerland.
- III22. Bartzanas, T., D. K. Papanastasiou, I. Skoufos, A. Tzora, D. Fidaros, C. Baxevanou, P. Panagakis and C. Kittas. 2015. *Environmental friendly poultry production using novel precision livestock techniques*. In: 7th European Conference on Precision Livestock Farming (EC-PLF 2015), Milan, Italy, pp. 811-819.

- III23. Panagakis, P* and P. Axaopoulos. 2019. *Comparison of heating and cooling loads in a controlled environment growing-finishing piggery under different climatic conditions*. In: Technologies and Materials for Renewable Energy, Environment and Sustainability: TMREES19Gr, ISBN: 978-0-7354-1937-7, Athens, Greece. <https://doi:10.1063/1.5138515>.
- III24. Norton, T., T. Brown-Brandl, P. Panagakis, V. Cruz, H. Diefes-Dux and S. Calvet. 2022. *Educating for Precision Livestock Farming: The knowledge, skills and abilities to meet future industry and societal needs*. In: 10th European Conference on Precision Livestock Farming (EC-PLF 2022), Vienna, Austria, *in press*.

National Conferences

- IV1. Αζαόπουλος, Π., Π. Παναγάκης και Σ. Κυρίτσης. 1996. *Πειραματικές επιδόσεις ηλιοβοηθούμενης αντλίας θερμότητας και ηλιακού θερμοσιφωνικού συστήματος*. 5^ο Εθνικό Συνέδριο για τις Ήπιες Μορφές Ενέργειας, Τόμος Α, Αθήνα, σελ: 385-392.
- IV2. Παναγάκης, Π.*, Κ. Μπερμπερίδης, Δ. Μπριασούλης, Π. Καραϊβάζογλου και Ε. Δήμας. 2000. *Εκτίμηση βάρους νεαρών χοιριδίων με χρήση τεχνικών επεξεργασίας εικόνας*. 2^ο Εθνικό Συνέδριο Γεωργικής Μηχανικής, Βόλος, σελ: 449-456.
- IV3. Παναγάκης, Π.*, Σ. Δεληγεώργης, Γ. Ζέρβας, Γ. Λαλιώτης, Γ. Ζαμπέλη, Κ. Κουτσοτόλης και Α. Μάντζιος. 2002. *Η επίδραση του τύπου του δαπέδου στην επιφανειακή εδαφική υγρασία και στη συμπεριφορά προβατίνων*. 18^ο Ετήσιο Επιστημονικό Συνέδριο της Ελληνικής Ζωοτεχνικής Εταιρείας (ΕΖΕ), Ιωάννινα.
- IV4. Μπριασούλης, Δ., Π. Παναγάκης και Μ. Χιονίδης. 2008. *Σχεδιασμός κλειστού ελικοειδούς φωτοαντιδραστήρα για συνεχή παραγωγή *Nannochloropsis* sp.* 4^ο Πανελλήνιο Συνέδριο Ελληνικής Φυκολογικής Εταιρείας, Σύγχρονες Τάσεις της Έρευνας στην Οικολογία, Βόλος, σελ: 54.
- IV5. Παναγάκης, Π.* 2011. *Επίδραση των θερμοκρασιών μαύρης σφαίρας στη βραχυπρόθεσμη θερμική καταπόνηση προβατίνων*. Άρθρο 5.5. 7^ο Πανελλήνιο Συνέδριο της ΕΓΜΕ, Αθήνα.
- IV6. Papanastasiou, D.K., T. Bartzanas, P. Panagakis and C. Kittas. 2013. *Εποχιακή διακύμανση των συνθηκών θερμικής καταπόνησης εντατικά εκτρεφόμενων προβάτων στο εσωτερικό φυσικής αεριζόμενου στάβλου*. 8^ο Πανελλήνιο Συνέδριο της ΕΓΜΕ, Βόλος, σελ: 451-455.
- IV7. Papanastasiou, D.K., G. Zhang, T. Bartzanas, P. Panagakis and C. Kittas. 2013. *Δημιουργία μακράς χρονοσειράς κλιματικών συνθηκών στο εσωτερικό κτηνοτροφικών κτιρίων – εφαρμογή στη μελέτη της πιθανής θερμικής καταπόνησης εντατικά εκτρεφόμενων προβάτων κατά τη διάρκεια ημερών με καύσωνα*. 8^ο Πανελλήνιο Συνέδριο της ΕΓΜΕ, Βόλος, σελ: 382-385.
- IV8. Balafoutis, A., D. Briassoulis, P. Panagakis and G. Papadakis. 2013. *Βελτίωση ενεργειακής αποδοτικότητας και μείωση αερίων του θερμοκηπίου από συμβατικούς σε βιολογικούς ελαιώνες και αμπελώνες*. 8^ο Πανελλήνιο Συνέδριο της ΕΓΜΕ, Βόλος, σελ: 316-320.
- IV9. Παπαναστασίου, Δ. Κ., Ι. Σκούφος, Θ. Μπαρτζάνας, Μ. Μαρκούση, Γ. Μπαλτογιάννης, Κ. Μίχας, Π. Παναγάκης, Α. Τζώρα και Κ. Κίττας. 2015. *Επίπεδα αμμωνίας και αιωρούμενων σωματιδίων εντός πτηνοτροφείων ορνίθων κρεοπαραγωγής*. 9^ο Πανελλήνιο Συνέδριο της ΕΓΜΕ, Θεσσαλονίκη, σελ: 316-320.
- IV10. Παπαναστασίου, Δ. Κ., Ι. Σκούφος, Θ. Μπαρτζάνας, Γ. Μπαλτογιάννης, Κ. Μίχας, Π. Παναγάκης, Α. Τζώρα και Κ. Κίττας. 2015. *Χρονικές διακυμάνσεις της συγκέντρωσης ρύπων του αέρα σε πτηνοτροφεία*. 13^ο Πανελλήνιο Κτηνιατρικό Συνέδριο, Αθήνα.
- IV11. Tzanidakis, Ch., P. Simitzis, K. Arvanitis and P. Panagakis. 2019. *Precision livestock farming (PLF) techniques in pig husbandry*. 11^ο Πανελλήνιο Συνέδριο της ΕΓΜΕ, Βόλος.

Chapters in International Editions

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<https://doi.org/10.1016/B978-0-444-88681-1.50022-3>
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