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FACULTY OF AGRISCIENCES

AGRICULTURAL ECONOMICS

Journal articles

1. BLANC-BRUDE F, COOKSON G, PIESSE J, STRANGE R. The FDI location decision: Distance and the effects of spatial dependence. *International Business Review* 2014; **23**(4): 797-810.
2. CONRADIE B, PIESSE J. The effect of predator culling on livestock losses: Ceres, South Africa, 1979 to 1987. *African Journal of Agricultural and Resource Economics* 2013; **8**(4): 265-274.
3. HOFFMANN WH, KLEYNHANS TE. Facilitating small grain production system innovation in the Western Cape, South Africa. *International Journal of Agricultural Management* 2014; **3**(2): 79-88.
4. JENSEN HG, VINK N, SANDREY R. The rise of Brazilian agriculture: Some lessons for South Africa. *Agrekon* 2014; **53**(3): 79-100.
5. SALAHUDDIN M, GOW J. Economic growth, energy consumption and CO₂ emissions in Gulf Cooperation Council countries. *Energy* 2014; **73**: 44-58.
6. SARKER MAR, ALAM K, GOW J. Assessing the effects of climate change on rice yields: An econometric investigation using Bangladeshi panel data. *Economic Analysis and Policy* 2014; **44**: 405-416.
7. VINK N, BERGH M, NOVAK B. Rooibos Ltd: Turning Indigenous Products into Business Opportunities. *International Food and Agribusiness Management Review* 2014; **17**(Special Issue B): 43-47.
8. VINK N. Commercialising agriculture in Africa: economic, social and environmental impacts. *African Journal of Agricultural and Resource Economics* 2014; **9**(1): 1-17.
9. VON DODERER CCC, KLEYNHANS TE. Determining the most sustainable lignocellulosic bioenergy system following a case study approach. *Biomass & Bioenergy* 2014; **70**: 273-286

Chapters in books

1. HAM C, KLEYNHANS TE. Socio-Economic Aspects of Rural Bioenergy Production. In: Seifert T (ed.). *Bioenergy from Wood: Sustainable Production in the Tropics*, Springer, Dordrecht, Germany, 2014: 189-209.
2. KARAAN ASM, VINK N. Agricultural and rural development in the postapartheid era. In: Borat H, Hirsch A, Kanbur R, Ncube M (eds). *The Oxford Companion to the Economics of South Africa*, Oxford University Press, United Kingdom, 2014: 393-400.
3. SEIFERT T, ACKERMAN PA, CHIRWA PW, VON DODERER CCC, DU TOIT B, GÖRGENS JF, HAM C, KUNNEKE A, MEINCKEN M. Biomass from Wood in the Tropics. In: Seifert T (ed.). *Bioenergy from Wood: Sustainable Production in the Tropics*, Springer, Dordrecht, Germany, 2014: 1-10.

AGRONOMY

Journal articles

1. LE ROUX M, PHIRI EE, KHAN W, SAKIROGLU M, VALENTINE AJ, KHAN S. Expression of novel cytosolic malate dehydrogenases (cMDH) in *Lupinus angustifolius* nodules during phosphorus starvation. *Journal of Plant Physiology* 2014; **171**: 1609-1618.

2. NGEZIMANA W, AGENBAG GA. Effects of nitrogen and sulphur on seedling establishment, vegetative growth and nitrogen use efficiency of canola (*Brassica napus* L.) grown in the Western Cape Province of South Africa. *Journal of Cereals and Oilseeds* 2014; **5**(2): 4-11.
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4. NGEZIMANA W, AGENBAG GA. The effect of nitrogen and sulphur on the grain yield and quality of canola (*Brassica napus* L.) grown in the Western Cape, South Africa. *South African Journal of Plant and Soil* 2014; **31**(2): 69-75.
5. SHOKO M, PIETERSE PJ, AGENBAG GA. Efficiency of mineral fertilizers and mucuna on the improvement of the yield of maize in Zimbabwe. *Pakistan Journal of Agricultural Sciences* 2014; **51**(1): 17-23.

ANIMAL SCIENCES

Journal articles

1. BONATO M, MALECKI IA, RYBNIK-TRZASKOWSKA PK, CORNWALLIS CK, CLOETE SWP. Predicting ejaculate quality and libido in male ostriches: Effect of season and age. *Animal Reproduction Science* 2014; **151**: 49-55.
2. BRAND TS, CARSTENS PD, HOFFMAN LC. The effect of dietary energy concentrations on production variables of ostrich chicks (*Struthio camelus* var. domesticus). *British Poultry Science* 2014; **55**(5): 610-618.
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4. BRAND TS, TESSELAAR GA, HOFFMAN LC, BRAND Z. The effect of different dietary vitamin and mineral levels on certain production parameters, including egg shell characteristics of breeding ostriches. *South African Journal of Animal Science* 2014; **44**(5, Suppl. 1): S51 - S57.
5. BRAND Z, CLOETE SWP, MALECKI I, BROWN CR. Embryonic development in the ostrich (*Struthio camelus*) during the first 7 days of artificial incubation. *British Poultry Science* 2014; **55**(1): 68-75.
6. BRIEN FD, CLOETE SWP, FOGARTY NM, GREEFF JC, HEBART ML, HIENDLEDER S, HOCKING EDWARDS JE, KELLY JM, KIND KL, KLEEMAN DO, PLUSH KL, MILLER DR. A review of the genetic and epigenetic factors, affecting lamb survival. *Animal Production Science* 2014; **54**: 667-693.
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8. CLOETE SWP, OLIVIER JJ, SANDENBERGH L, SNYMAN MA. The adaption of the South Africa sheep industry to new trends in animal breeding and genetics: A review. *South African Journal of Animal Science* 2014; **44**(4): 307 - 321.
9. DU PLESSIS L, MALECKI I, BONATO M, SMITH M, CLOETE SWP, SOLEY J. A morphological classification of sperm defects in the ostrich (*Struthio camelus*). *Animal Reproduction Science* 2014; **150**: 130-138.
10. DUBE B, MULUGETA SD, DZAMA K. Investigating maternal effects on production traits in Duroc pigs using animal and sire models. *Journal of Animal Breeding and Genetics* 2014; **131**: 279-293.
11. GELDENHUYS G, HOFFMAN LC, MULLER M. Sensory profiling of Egyptian goose (*Alopochen aegyptiacus*) meat. *Food Research International* 2014; **64**: 25-33.

12. GÖTZ A, KERWATH SE, SAMAAI T, DA SILVA C, WILKE CH. An exploratory investigation of the fish communities associated with reefs on the central Agulhas Bank, South Africa. *African Zoology* 2014; **49**(2): 253-264.
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14. KANENGONI AT, CHIMONYO M, ERLWANGER KH, NDIMBA B, DZAMA K. Growth performance, blood metabolic responses, and carcass characteristics of grower and finisher South African Windsnyer-type indigenous and Large White x Landrace crossbred pigs fed diets containing ensiled corncoobs. *Journal of Animal Science* 2014; **92**(12): 5739-5749.
15. MADZIMURE JM, MUTEAMA N, CHIMONYO M, BAKARE AG, MAPIYE C. Performance of Mashona doelings supplement with different levels of velvet bean (*Mucuna pruriens* L. DC. var. utilis) seed meal. *Tropical Animal Health and Production* 2014; **46**: 901-904.
16. MAPHOLI OM, MUCHADEYI FC, MAIWASHE A, BANGA CB, MUCHENJE V, MACNEIL MD, CHIMONYO M, DZAMA K. Towards a genomics approach to tick (Acari: Ixodidae) control in cattle: A review. *Ticks and Tick-Borne Diseases* 2014; **5**: 475-481.
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20. MATEBESI-RANTHIMO PAM, CLOETE SWP, VAN WYK JB, OLIVIER JJ. Genetic parameters and relationships of faecal worm egg counts with objectively measured wool traits in the Tygerhoek Merino Flock. *South African Journal of Animal Science* 2014; **44**(2): 178-188.
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24. MULLER CJC, POTGIETER JP, CLOETE SWP, DZAMA K. Non-genetic factors affecting fertility traits in South African Holstein cows. *South African Journal of Animal Science* 2014; **44**(1): 54-63.
25. NEETHLING J, BRITZ TJ, HOFFMAN LC. Impact of season on the fatty acid composition of male and female blesbok (*Damaliscus pygargus phillipsi*) muscle. *Meat Science* 2014; **98**: 599-606.
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27. NKUKWANA TT, MUCHENJE V, MASIKA PJ, HOFFMAN LC, DZAMA K. The effect of *Moringa oleifera* leaf meal supplementation on tibia strength morphology and inorganic content of broiler chickens. *South African Journal of Animal Science* 2014; **44**(3): 228-239.
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29. PETRI RM, MAPIYE C, DUGAN MER, MCALLISTER TA. Subcutaneous adipose fatty acid profiles and related rumen bacterial populations of steers fed red clover or grass hay diets containing flax or sunflower-seed. *PLoS ONE* 2014; **9**(8): e104167, 16 pages.
30. PIETERSE E, PRETORIUS Q, HOFFMAN LC, DREW DW. The carcass quality, meat quality and sensory characteristics of broilers raised on diets containing either *Musca domestica* larvae meal, fish meal or soya bean meal as the main protein source. *Animal Production Science* 2014; **54**(5): 622-628.
31. PIETERSE E, PRETORIUS Q, VAN DER MERWE AJW, ALBERTYN FJH. Nutritional value of larvae meal for poultry production. *AFMA Matrix* 2014; **23**: 30 - 31.
32. PIETERSE E, PRETORIUS Q. Nutritional evaluation of dried larvae and pupae meal of the housefly (*Musca domestica*) using chemical- and broiler-based biological assays. *Animal Production Science* 2014; **54**(3): 347-355.
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34. STEYN L, MEESKE R, CRUYWAGEN CW. Substitution of ryegrass pasture with a high fibre concentrate supplement to grazing Jersey cows to overcome winter roughage shortages. *Animal Feed Science and Technology* 2014; **188**: 36-45.
35. SWANEPOEL M, HOFFMANN LC, LESLIE AJ. The influence of season and sex on the carcass yield of common warthog (*Phacochoerus africanus*). *South African Journal of Wildlife Research* 2014; **2**: 179-188.
36. USENI BA, MULLER CJC, CRUYWAGEN CW. Milk production of dairy cows as affected by the length of the preceding dry period. *South African Journal of Animal Science* 2014; **44**(5, Suppl. 1): S21 - S24.
37. VIVIERS MZ, BURGER BV, LE ROUX NJ, MORRIS J, LE ROUX M. Temporal changes in the neonatal recognition cue of Dohne merino lambs (*Ovis aries*). *Chemical Senses* 2014; **39**(3): 249-262.
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2. DUBE B, DAVIDS AH, DZAMA K. *Does direct genetic selection for production for production traits degrade maternal ability in Landrace pigs?* 10th World Congress of Genetics Applied to Livestock Production, Vancouver, Canada, 2014: 1-3.
3. JORDAAN W, CLOETE SWP, OLIVIER JJ, DZAMA K. *Using Phantom Groups to increase the accuracy of breeding values of Dohne Merinos upgraded from a commercial base to the pedigreed population*. 10th World Congress of Genetics Applied to Livestock Production, Vancouver, Canada, 2014: 1-3.
4. MATEBESI-RANTHIMO PAM, CLOETE SWP, VAN WYK JB, OLIVIER JJ. *Relationships of faecal worm egg count with body weight and male fertility in South African merinos*. 10th World Congress of Genetics Applied to Livestock Production, Vancouver, Canada, 2014: 1-3.

5. MULLER CJC, POTGIETER JP, CLOETE SWP. *The fertility of South African Holstein and Jersey Heifers*. 10th World Congress of Genetics Applied to Livestock Production, Vancouver, Canada, 2014: 1-3.
6. OLIVIER WJ, CLOETE SWP, SNYMAN MA, VAN WYK JB. *Genetic relationships among reproduction and objective wool and conformation traits measured in a fine wool Merino Stud*. 10th World Congress of Genetics Applied to Livestock Production, Vancouver, Canada, 2014: 1-4.
7. VAN WYK JB, CLOETE SWP, OLIVIER JJ. *Genetic parameters and trends for Hogget live weight wrinkle score and scrotal traits in Merino lines divergently selected for the ability of ewes to rear multiples*. 10th World Congress of Genetics Applied to Livestock Production, Vancouver, Canada, 2014: 1-3.
8. WANG MD, DZAMA K, REES J, MUCHADEYI FC. *Preliminary identification and characterization of copy number variations in the genome of South African Nguni*. 10th World Congress of Genetics Applied to Livestock Production, Vancouver, Canada, 2014: 1-3.

CONSERVATION ECOLOGY AND ENTOMOLOGY

Journal articles

1. ALLSOPP E, PRINSLOO E, SMART LE, DEWHIRST DY. Methyl salicylate, thymol and carvacrol as oviposition deterrents for *Frankliniella occidentalis* (Pergande) on plum blossoms. *Arthropod-Plant Interactions* 2014; **8**: 421-427.
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3. ASTON PHILANDER LE, MAKUNGA NP, ESLER KJ. The Informal Trade of Medicinal Plants by Rastafari Bush Doctors in the Western Cape of South Africa. *Economic Botany* 2014; **68**(3): 303-315.
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6. BARTON MG, TERBLANCHE JS. Predicting performance and survival across topographically heterogeneous landscapes: the global pest insect *Helicoverpa armigera* (Hübner, 1808) (Lepidoptera: Noctuidae). *Austral Entomology* 2014; **53**: 249-258.
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8. BENADÉ PC, VELDTMAN R, SAMWAYS MJ, ROETS F. Rapid range expansion of the invasive wasp *Polistes dominula* (Hymenoptera: Vespidae: Polistinae) and first record of parasitoids on this species and the native *Polistes marginalis* in the Western Cape Province of South Africa. *African Entomology* 2014; **22**(1): 220-225.
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10. COCKBURN J, COETZEE H, VAN DEN BERG J, CONLONG DE. Large-scale sugarcane farmers' knowledge and perceptions of *Eldana saccharina* Walker (Lepidoptera: Pyralidae), push-pull and integrated pest management. *Crop Protection* 2014; **56**: 1-9.
11. CROUS CJ, ROETS F. Realising the value of continuous monitoring programmes for biodiversity conservation. *South African Journal of Science* 2014; **110**: 1-5.

12. CROUS CJ, SAMWAYS MJ, PRYKE JS. Grasshopper assemblage response to surface rockiness in Afro-montane grasslands. *Insect Conservation and Diversity* 2014; **7**: 185-194.
13. CROUS CJ, SAMWAYS MJ, PRYKE JS. Rockiness determines meso-scale conservation of butterflies in Afro-montane grassland. *Journal of Insect Conservation* 2014; **18**: 77-83.
14. DA SILVA JM, HERREL A, MEASEY GJ, TOLLEY KA. Sexual Dimorphism in Bite Performance Drives Morphological Variation in Chameleons. *PLoS ONE* 2014; **9**(1): e86846, 12 pages.
15. DA SILVA JM, HERREL A, MEASEY GJ, VANHOOYDONCK B, TOLLEY KA. Linking microhabitat structure, morphology and locomotor performance traits in a recent radiation of dwarf chameleons. *Functional Ecology* 2014; **28**: 702-713.
16. DE VILLIERS AC, ESLER KJ, KNIGHT AT. Social processes promoting the adaptive capacity of rangeland managers to achieve resilience in the Karoo, *South Africa. Journal of Environmental Management* 2014; **146**: 276-283.
17. DREYER LL, MACFARLANE RM, ROETS F, OBERLANDER KC. An unusual night-flowering Oxalis from South Africa (Oxalidaceae). *Systematic Botany* 2014; **39**(4): 1154-1160.
18. ENGELBRECHT A, MATTHEE CA, UECKERMANN EA, MATTHEE S. Evidence of cryptic speciation in mesostigmatid mites from South Africa. *Parasitology* 2014; **141**: 1322-1332.
19. ESTERHUIZEN N, CLUSELLA-TRULLAS S, VAN DAALEN CE, SCHOOMBIE RE, BOARDMAN L, TERBLANCHE JS. Effects of within-generation thermal history on the flight performance of *Ceratitis capitata*: colder is better. *Journal of Experimental Biology* 2014; **217**: 3545-3556.
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21. FERREIRA T, MALAN AP. *Xenorhabdus* and *Photorhabdus*, bacterial symbionts of the entomopathogenic nematodes *Steinernema* and *Heterorhabditis* and their in vitro liquid mass culture: a review. *African Entomology* 2014; **22**: 1-14.
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RADIOLOGY

Journal articles

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UROLOGY

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CENTRE FOR HEALTH PROFESSIONS EDUCATION

Journal articles

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3. VAN SCHALKWYK SC. Evolving Doctoral Identities: Understanding 'complex investments'. In: Bitzer E, Albertyn R, Frick L, Grant B, Kelly F (eds). *Pushing Boundaries in Postgraduate Supervision*, Sun Press, Stellenbosch, South Africa, 2014: 215-227.

CENTRE FOR MEDICAL ETHICS & LAW

Journal articles

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CHEMISTRY & POLYMER SCIENCE

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PHYSICS

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- BEELDERS T, BRAND DJ, DE BEER D, MALHERBE CJ, MAZIBUKO SE, MULLER CJF, JOUBERT E. Benzophenone C- and O-glucosides from *Cyclopia genistoides* (Honeybush) inhibit mammalian alpha-glucosidase. *Journal of Natural Products* 2014; **77**: 2694-2699.
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