

R A Leng

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55
papers

2,946
citations

30
h-index

54
g-index

55
ext. papers

3,124
ext. citations

3.9
avg, IF

4.84
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 55 | Factors affecting the utilization of poor-quality forages by ruminants particularly under tropical conditions. <i>Nutrition Research Reviews</i> , 1990 , 3, 277-303 | 7 | 328 |
| 54 | Dynamic aspects of ammonia and urea metabolism in sheep. <i>British Journal of Nutrition</i> , 1972 , 27, 177-94 | 3.6 | 219 |
| 53 | Nitrogen metabolism in the rumen. <i>Journal of Dairy Science</i> , 1984 , 67, 1072-89 | 4 | 194 |
| 52 | Rates of production of methane in the rumen and large intestine of sheep. <i>British Journal of Nutrition</i> , 1976 , 36, 1-14 | 3.6 | 167 |
| 51 | Nitrate and sulfate: Effective alternative hydrogen sinks for mitigation of ruminal methane production in sheep. <i>Journal of Dairy Science</i> , 2010 , 93, 5856-66 | 4 | 156 |
| 50 | Metabolism of urea in sheep. <i>British Journal of Nutrition</i> , 1967 , 21, 353-71 | 3.6 | 127 |
| 49 | Contribution of propionate to glucose synthesis in sheep. <i>Biochemical Journal</i> , 1967 , 103, 785-90 | | 112 |
| 48 | Further studies of the dynamics of nitrogen metabolism in sheep. <i>British Journal of Nutrition</i> , 1976 , 35, 127-47 | 3.6 | 106 |
| 47 | Measurement of the rates of production of acetic, propionic and butyric acids in the rumen of sheep. <i>British Journal of Nutrition</i> , 1965 , 19, 469-84 | 3.6 | 103 |
| 46 | Interactions between microbial consortia in biofilms: a paradigm shift in rumen microbial ecology and enteric methane mitigation. <i>Animal Production Science</i> , 2014 , 54, 519 | 1.4 | 90 |
| 45 | Rates of entry and oxidation of acetate, glucose, D(-)-beta-hydroxybutyrate, palmitate, oleate and stearate, and rates of production and oxidation of propionate and butyrate in fed and starved sheep. <i>Biochemical Journal</i> , 1967 , 104, 135-47 | | 86 |
| 44 | The effects of defaunation of the rumen on the growth of lambs on low-protein-high-energy diets. <i>British Journal of Nutrition</i> , 1979 , 42, 81-7 | 3.6 | 83 |
| 43 | The effects of defaunation of the rumen on the growth of cattle on low-protein high-energy diets. <i>British Journal of Nutrition</i> , 1978 , 40, 163-7 | 3.6 | 83 |
| 42 | Metabolism of acetate, propionate and butyrate by sheep-liver slices. <i>Biochemical Journal</i> , 1963 , 86, 319-27 | | 73 |
| 41 | Estimation of the total entry rate and resynthesis of glucose in sheep using glucoses uniformly labelled with ¹⁴ C and variously labelled with ³ H. <i>Australian Journal of Biological Sciences</i> , 1972 , 25, 1313-32 | | 72 |
| 40 | Simultaneous measurements of the rates of production of acetic, propionic and butyric acids in the rumen of sheep on different diets and the correlation between production rates and concentrations of these acids in the rumen. <i>British Journal of Nutrition</i> , 1966 , 20, 541-52 | 3.6 | 68 |
| 39 | Determination of the energy expenditure of penned and grazing sheep from estimates of carbon dioxide entry rate. <i>British Journal of Nutrition</i> , 1971 , 26, 277-91 | 3.6 | 62 |

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| 38 | Effects of exercise and level of dietary protein on digestive function in horses. <i>Equine Veterinary Journal</i> , 1985 , 17, 386-90 | 2.4 | 59 |
| 37 | The contribution of propionate to glucose snythesis in sheep given diets of different grain content. <i>British Journal of Nutrition</i> , 1968 , 22, 69-75 | 3.6 | 56 |
| 36 | Dynamics of protozoa in the rumen of sheep. <i>British Journal of Nutrition</i> , 1982 , 48, 399-415 | 3.6 | 53 |
| 35 | THE METABOLISM OF ACETIC ACID, PROPIONIC ACID AND BUTYRIC ACID IN SHEEP. <i>Biochemical Journal</i> , 1963 , 88, 248-52 | | 52 |
| 34 | Protein nutrition of growing lambs. 1. Responses in growth and rumen function to supplementation of a low-protein-cellulosic diet with either urea, casein or formaldehyde-treated casein. <i>British Journal of Nutrition</i> , 1979 , 42, 289-302 | 3.6 | 51 |
| 33 | Isotope techniques for studying the dynamics of nitrogen metabolism in ruminants. <i>Proceedings of the Nutrition Society</i> , 1974 , 33, 1-8 | 2.9 | 47 |
| 32 | Studies on the control of gluconeogenesis in sheep: effect of propionate, casein and butyrate infusions. <i>British Journal of Nutrition</i> , 1973 , 29, 175-95 | 3.6 | 47 |
| 31 | Secondary fermentation in the runen of a sheep given a diet based on molasses. <i>British Journal of Nutrition</i> , 1979 , 41, 393-7 | 3.6 | 40 |
| 30 | Studies on the control of gluconeogenesis in sheep: effect of glucose infusion. <i>British Journal of Nutrition</i> , 1973 , 29, 159-74 | 3.6 | 36 |
| 29 | Protein nutrition of growing lambs. 2. Effect on nitrogen digestion of supplementing a low-protein-cellulosic diet with either urea, casein or formaldehyde-treated casein. <i>British Journal of Nutrition</i> , 1979 , 42, 303-15 | 3.6 | 35 |
| 28 | Rates of production of volatile fatty acids in the rumen of grazing sheep and their relation to ruminal concentrations. <i>British Journal of Nutrition</i> , 1968 , 22, 57-68 | 3.6 | 34 |
| 27 | Kinetics of large ciliate protozoa in the rumen of cattle given sugar cane diets. <i>British Journal of Nutrition</i> , 1981 , 46, 371-84 | 3.6 | 33 |
| 26 | Effects of level of dietary protein and exercise on growth rates of horses. <i>Equine Veterinary Journal</i> , 1985 , 17, 381-5 | 2.4 | 32 |
| 25 | Dynamics of large ciliate protozoa in the rumen of cattle fed on diets of freshly cut grass. <i>British Journal of Nutrition</i> , 1986 , 56, 455-62 | 3.6 | 28 |
| 24 | Effect of added dietary nitrate and elemental sulfur on wool growth and methane emission of Merino lambs. <i>Animal Production Science</i> , 2013 , 53, 1195 | 1.4 | 27 |
| 23 | Utilization of ¹⁴ C-labelled Bacillus subtilis and Escherichia coli by sheep. <i>British Journal of Nutrition</i> , 1970 , 24, 129-44 | 3.6 | 26 |
| 22 | The roles of energy- or protein-rich supplements in the subtropics for young cattle consuming basal diets that are low in digestible energy and protein. <i>Journal of Agricultural Science</i> , 1983 , 100, 657-666 | 1 | 24 |
| 21 | Metabolism of urea in late pregnancy and the possible contribution of amino acid carbon to glucose synthesis in sheep. <i>British Journal of Nutrition</i> , 1970 , 24, 905-15 | 3.6 | 17 |

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| 20 | Antiprotozoal effects of surfactant detergents in the rumen of sheep. <i>New Zealand Journal of Agricultural Research</i> , 1980 , 23, 287-291 | 1.9 | 15 |
| 19 | Dynamics of protozoa in the rumen of cattle. <i>British Journal of Nutrition</i> , 1988 , 59, 429-36 | 3.6 | 13 |
| 18 | The effects of monensin on the pool size and turnover rate of protozoa in the rumen of sheep. <i>Journal of Agricultural Science</i> , 1984 , 102, 609-613 | 1 | 13 |
| 17 | Unravelling methanogenesis in ruminants, horses and kangaroos: the links between gut anatomy, microbial biofilms and host immunity. <i>Animal Production Science</i> , 2018 , 58, 1175 | 1.4 | 11 |
| 16 | Loss of methyl tritium from [3H]. <i>Nature</i> , 1965 , 207, 760-1 | 50.4 | 9 |
| 15 | Glucose metabolism in cattle given sugar cane based diets supplemented with varying quantities of rice polishings. <i>British Journal of Nutrition</i> , 1979 , 42, 341-7 | 3.6 | 8 |
| 14 | Utilization of tropical feeds by ruminants 1980 , 621-640 | | 7 |
| 13 | The effect of supplementation with protein, lipid and propionate on nutrient partitioning in roughage-fed lambs. <i>Animal Science</i> , 1993 , 56, 341-349 | | 6 |
| 12 | Studies of fatty liver and kidney syndrome in chickens: dynamics of glucose metabolism. <i>British Journal of Nutrition</i> , 1977 , 38, 329-34 | 3.6 | 6 |
| 11 | GLUCOSE AND ACETATE METABOLISM BY ISOLATED SHEEP WOOL FOLLICLES. <i>Archives of Biochemistry and Biophysics</i> , 1965 , 110, 8-15 | 4.1 | 6 |
| 10 | Protein, acetate and propionate for roughage-fed lambs. 2. Nutrient kinetics. <i>Animal Science</i> , 1993 , 56, 369-378 | | 5 |
| 9 | Factors affecting food efficiency and body composition of growing ruminants offered straw-based diets: supplementation with lipids with and without protein meal. <i>Animal Science</i> , 1990 , 51, 321-331 | | 4 |
| 8 | Ketone body metabolism in normal and underfed pregnant sheep and in pregnancy toxaemia. <i>Research in Veterinary Science</i> , 1965 , 6, 433-41 | 2.5 | 4 |
| 7 | Fenbendazole as a method for measuring supplement intake in grazing sheep. <i>Animal Production Science</i> , 2012 , 52, 1142 | 1.4 | 3 |
| 6 | Protein, acetate and propionate for roughage-fed lambs. 1. Body and blood composition. <i>Animal Science</i> , 1993 , 56, 359-368 | | 3 |
| 5 | A note on the effects of high levels of dietary calcium, phosphorus and sodium on nutrient utilization by sheep offered a roughage-based diet. <i>Animal Science</i> , 1991 , 53, 249-252 | | 3 |
| 4 | An in vitro assay for compounds toxic to rumen protozoa. <i>New Zealand Journal of Agricultural Research</i> , 1982 , 25, 535-540 | 1.9 | 3 |
| 3 | Sheep productivity in the Ethiopian Highlands on a diet supplemented with urea-molasses block and/or noug cake. <i>Tropical Animal Health and Production</i> , 1989 , 21, 183-90 | 1.7 | 1 |

- 2 Voluntary intake of a medicated feed block by grazing sheep is increased by gastrointestinal nematode infection. *Animal Production Science*, **2012**, 52, 1136 1.4 ○
- 1 Carbon precursors of methane synthesis in the rumen of sheep dosed with ionophores. *Animal Production Science*, **2014**, 54, 1787 1.4