

DAFTAR PUSTAKA

- Abarghuei, M. J., Y. Rouzbehan, and D. Alipour. 2010. The influence of the grape pomace on the ruminal parameters of sheep. *Livest. Sci.* 132: 73–79. doi: 10.1016/j.livsci.2010.05.002
- Abdo, Z. M. A., R. A. Hassan, A. E. Amal, and A. H. Shahinaz. 2010. Effect of adding green tea and its aqueous extract as natural antioxidants to laying hen diet on productive, reproductive performance and egg quality during storage and its content of cholesterol. *Egypt. Poult. Sci. J.* 30 (4): 1121 – 1149.
- Abdulrazak, S. A., J. O. Ondiek, J. K. Tuitoek, and F. B. Bareeba. 1999. The effects of *Gliricidia sepium* and maize bran as supplementary feed to Rhodes grass hay on intake, digestion and live weight of dairy goats. *Livest. Prod. Sci.* 61(1): 65-70.
- Adamczyk, B., J. Simon, V. Kitunen, S. Adamczyk, and A. Smolander. 2017. Tannins and their complex interaction with different organic nitrogen compounds and enzymes: old paradigms versus recent advances. *ChemistryOpen*. 6: 610-614.
- Afrizal, R. Sutrisna, and Muhtarudin. 2014. Potensi hijauan sebagai pakan ruminansia di Kecamatan Bumi Agung Kabupaten Lampung Timur. *Jurnal Ilmiah Peternakan Terpadu*. 2 (2): 93 – 100. doi:10.23960/jipt.v2i2.493.
- Aguomuo, E., P. Amadi, C. Ogunka-Nnoka, B. Amadi, M. Ifeanacho, and U. Njoku. 2017. Characterization of oils from *Duranta repens* leaf and seed. *OCL*. doi:10.1051/ocl/2017048.
- Alabi, M. H., O. M. Olamide, A. L. Ekojonwa, and O. K. Stephen. 2018. Proximate analysis of *Leucaena leucocephala* (Lam.) de wit, *Parkia biglobosa* (Jacq.) benth and *Prosopis africana* (Guill & Perr.) Taub. *Ann., Food Sci. Technol.* 11(1): 35-38.
- Amarasuriyan, C., K. Raju, and A. Raja. 2014. Phyto-chemical studies and *in vitro* free radical scavenging activity of *Swietenia mahagoni* (L.) Jacq. *IJONS*. 4(23): 1513 – 1519.
- Amstel, A. V. 2012. Methane. A review. *J. Integr. Environ. Sci.* 9 (1): 5-30.
- Ashok, P. K. and K. Upadhyaya. 2012. Tannins are astringent. *J. Pharmacogn. Phytochem.* 1 (3): 45-50.
- Atmaja, Fajar Aji Mukti. 2016. Evaluasi Hijauan Pakan Ternak berdasarkan Produksi Gas Hasil Fermentasi dan Kandungan Tanin. Skripsi. Fakultas Peternakan Universitas Gadjah Mada, Yogyakarta.
- AOAC. 2005. Official Methods of Analysis. 18th ed. AOAC International, Gaithersburg, MD., Maryland, USA.
- Ayssiwede, S. B., A. Dieng, C. Chrysostome, W. Ossebi, J.L. Hornick and A. Missohou. 2010. Digestibility and metabolic utilization and nutritional value of *Leucaena leucocephala* (Lam.) leaves meal incorporated in the diets of indigenous Senegal chickens. *Int. J. Poult. Sci.* 9 (8): 767 – 776.

- Azrul, L. M., R. Nurulaini, M. A. Adzemi, H. Marina, and A. W. M. Effendy. 2014. Tannins quantification in *Terminalia catappa* leaves extract and antihelmenthic potential evaluation. J. Nat. Prod. 7: 98 – 103.
- Bauchemin, K. A., S. M. McGinn, T. F. Martinez, and T. A. McAllister. 2007. Use of condensed tannin extract from quebracho trees to reduce methane emissions from cattle. J. Animal Sci. 85: 1990 – 1996.
- Badriyah, J., Achmadi, dan L. K. Nuswantara. 2017. Kelarutan senyawa fenolik dan aktivitas antioksidan daun kelor (*Moringa oleifera*) di dalam rumen secara *in vitro*. Jurnal Peternakan Indonesia. 19 (3): 116 – 121.
- Bai, S. H., I. Darby, T. Nevenimo, G. Hannet, D. Hannet, M. Poienou, E. Grant, P. Brooks, D. Walton, B. Randall, and H. M. Wallace. 2017. Effects of roasting on kernel peroxide value, free fatty acid, fatty acid composition and crude protein content. PLoS. ONE. doi: 10.1371/journal.pone.0184279.
- Besharati, M. and A. Taghizadeh. 2011. Effect of tannin-binding agents (*polyethylene glycol* and *polyvinyl pyrrolidone*) supplementation on *in vitro* gas production kinetics of some grape yield by products. ISRN. Vet. Sci.. doi: 10.5402/2011/780540.
- Blummel, M. and E.R. Ørskov. 1993. Comparison of *in vitro* gas production and nylon bag degradability of roughages in predicting feed intake in cattle. J. Anim. Feed Sci. Technol. 40: 109-119.
- Boga, Mustafa. 2014. Chemical composition and *in vitro* gas production kinetics of some tree leaves obtained in the Mediterranean Region of Turkey. Anadolu. J. Agr. Sci, 29 (2): 143-146. doi: 10.7161/anajas.2014.29.2.143-146.
- Brown, D. and J. W. Ng'ambi. 2017. Effect of *polyethylene glycol* 4000 supplementation on the performance of yearling male Pedi goats fed dietary mixture levels of *Acacia karroo* leaf meal and *Setaria verticillata* grass hay. Trop. Anim. Health. Prod. 49: 1051–1057. doi: 10.1007/s11250-017-1305-9
- CABI, 2020. Invasive Species Compendium. Wallingford, UK: CAB International. www.cabi.org/isc. Diakses tanggal 25 Agustus 2020.
- Chanchal, D. K., P. Niranjana, S. Alok, S. Singh, and Saurabh. 2015. An update on Ayurvedic herb Kachnar (*Bauhinia purpurea* Linn.)-A Review. IJP. 2(8): 381 – 390.
- Chen, X. 1994. Neway Program. International Feed Resources Unit. Rowett Research Institute. Blackburn, Aberdeen.
- Chen, Ji, S. K. Spear, J. G. Huddleston and R. D. Rogers. 2005. *Polyethylene glycol* and solutions of *polyethylene glycol* as green reaction media. Green. Chem., 7: 64–82.
- Chua, H. P., D. Nicholas, and M. N. A. Yahya. 2015. Physical properties and nutritional values of dabai fruit (*Canarium odontophyllum*) of different genotypes. J. Trop. Agric. and Fd. Sc. 43: 1-10.

- Contu, S. 2012. *Bauhinia purpurea*. The IUCN Red List of Threatened Species 2012:e.T19891953A20027617.
<http://dx.doi.org/10.2305/IUCN.UK.2012.RLTS.T19891953A20027617.en>
Diakses tanggal 25 Agustus 2020.
- Das, S., Md. Rizvan, S. P. Basu, and S. Das. 2012. Therapeutic potentials of *Bambusa bambos* Druce. Indo Global J. Pharma. Sci. 2: 85–87.
- Daryatmo, J. 2010. Potensi nutrisi berbagai bahan pakan hijauan yang mengandung tanin dan efektivitasnya sebagai anti parasit dalam mendukung kinerja ternak kambing bligon. Desertasi. Fakultas Peternakan. Universitas Gadjah Mada. Yogyakarta.
- Daryatmo, J dan B.P. Widiarso. 2014. Daun bambu sebagai agen antifertilitas pada ternak. Laporan Penelitian. Sekolah Tinggi Penyuluhan Pertanian (STPP). Magelang.
- Das, S., M. Rizvan, and S.P. Basu. 2012. Therapeutic potentials of *Bambusa bambos* Druce. Indo Glob. J. Pharm. 2: 85–87.
- Duke, J. A. 1981. Handbook of Legumes of World Economic Importance. Plenum Press, New York.
- Ekayanti M., L. Ardiana, S. Z. Najib, R. Sauriasari, B. Elya. 2017. Pharmacognostic and phytochemical standardization of white tea leaf (*Camellia sinensis* L. Kuntze) ethanolic extracts. Pharmacogn. J. 9(2): 221 – 226.
- Ishola, D. T., T. E. Olabiran, M. B. Olajide, O. T. Ishola, A. O. Alejo, I. O. Awonyemi, and O. B. Ajayi. 2018. Comparative evaluation of the proximate composition of raw and fermented seeds of earmarked, *Sesbania spp.* IOSR J. Agric. Vet. Sci.. 11 (6): 20-25.
- Dewi, E. M. K., H. Soetjipto, A. I. Kristijanto. 2014. Karakterisasi dan komposisi kimia minyak tumbuhan kupu-kupu (*Bauhinia purpurea* L.) bunga merah muda. Hlm. 11-17 pada Prosiding Seminar Nasional Sains dan Pendidikan Sains IX. Fakultas Sains dan Matematika. Universitas Kristen Satya Wacana. Salatiga.
- Dhyani, N. and A. Gupta. 2016. Nutritional composition of dehydrated Kachnar leaves (*Bauhinia purpurea*) powder. Int. J. Home Sci.. 2(2): 363-364.
- Duke, J. A. 1983. Handbook of Legumes of World Economic Importance. Plenum Press, New York.
- Divya, Khare, H. Pradeep, K. K. Kumar, V. K. Hari, and Jyothi. 2012. Herbal drug *Swietenia mahagoni* Jacq. - A Review. Global J. Res. Med. Plants & Indigen. Med. 1(10): 557 – 567.
- Elahi, M. Y., M. M. Nia, A. Z. M. Salem, H. Mansouri, J. Olivares-Pérez, M. A. Cerrillo-Soto, and A. E. Kholif. 2014. Effect of *polyethylene glycol* on *invitro* gas production kinetics of *Prosopiscineraria* leaves at different growth stages. Ital. J. Anim. Sci.. 13 (2): 3175.
doi: 10.4081/ijas.2014.3175.

- Eniolorunda, O. O. 2011. Evaluation of biscuit waste meal and *Leucaena leucocephala* leaf hay as sources of protein and energy for fattening “yankassa” rams. *Afr. J. Food Sci.* 5 (2): 57-62.
- Goering, J. K. and J. P. Van Soest. 1970. Forage Fibre Analyses. USDA, ARS. Agricultural Handbook. No. 379. Washington DC.
- Hadi, R. F., Kustantinah, dan H. Hartadi. 2011. Kecernaan *in sacco* hijauan leguminosa dan hijauan non-leguminosa dalam rumen sapi peranakan ongole. *Buletin Peternakan.* 35 (2): 79-85.
- Haque, M. M., Md. R. Hasan, S. Akter, Md. K. U. Sarker, S. A. Eti, and S. Sultana. 2019. Phytochemical screening, proximate composition and heavy metals of *Camellia sinensis* leaves. *Int. J. Adv. Res.* 7(7): 195-201.
- Hess, H. D., M. Kreuzer, T. E. Diaz, C. E. Lascano, J. E. Carulla, and C. R. Soliva. 2003. Saponin rich tropical methanogenesis in faunated and fruits affect fermentation and defaunated fluid. *J. Anim. Feed. Sci. Technol.* 109: 79 – 94.
- Hess, H.D., T. T. Tiemann, F. Noto, J. E. Carulla, M. Kreuzer. 2006. Strategic use of tannins as means to limit methane emission from ruminant livestock. *Int. Congr. Ser.* 1293: 164-167.
- Hidayah, N. 2016. Pemanfaatan senyawa metabolit sekunder tanaman (tanin dan saponin) dalam mengurangi emisi metan ternak ruminansia. *J. Sain Peternak. Indones.* 11 (2): 89 – 98.
- Hossain, M. S., S. N. Talukdar, and M. N. Hossain. 2014. Bانش, the timber of poor, also provides phytotherapeutical shelter: Role of two Bangladeshi bamboo species. The 3rd Ayuns International Ayurvedic & Traditional Medicine Conference in 2014. At Nabab Nawab Ali Chowdhury Senate Bhaban Auditorium of Dhaka University (DU).
doi: 10.13140/RG.2.2.22176.33282
- Huang, T., W. Huang, J. Huang, and P. Ji. 2011. Methane reforming reaction with carbon dioxide over SBA-15 supported Ni–Mo bimetallic catalysts. *Fuel Processing Technology.* 92: 1868-1875.
- Jadhav, R. V., A. Kannan, R. Bhar, O. P. Sharma, A. Gulati, K. Rajkumar, G. Mal, B. Singh, and M. R. Verma. 2018. Effect of tea (*Camelliasinensis*) seed saponins on *invitro* rumen fermentation, methane production and true digestibility at different forage to concentrate ratios. *J. Appl. Anim. Res.* 46(1): 118 – 124.
doi: 10.1080/09712119.2016.1270823
- Jayanegara, A. 2008. Reducing methane emissions from livestock: nutritional approaches. Pages 18–21 in *Proc. of Indonesian Students Scientific Meeting (ISSM)*, Institute for Science and Technology Studies (ISTECS) European Chapter, Delft, the Netherlands.
- Jayanegara, A. dan A. Sofyan. 2008. Penentuan aktivitas biologis tanin beberapa hijauan secara *in vitro* menggunakan ‘Hohenheim gas test’ dengan polietilen glikol sebagai determinan. *Media Peternakan.* 31: 44 – 52.
- Kaikini, A. A., S. R. Dhande, V. J. Kadam. 2013. Overview of Indian medicinal tree: *Bambusa bambos* (Druce). *Int. Res. J. Pharm.* 4: 52–56.

- Kamal, M., 1994. Nutrisi Ternak I. Fakultas Peternakan. Universitas Gadjah Mada. Yogyakarta.
- Kamalak, A., Ö. Canbolat, Y. Gürbüz, and O. Özay. 2005. Protected protein and amino acids in ruminant nutrition. *KSU. J. Appl. Sci. Eng.* 8(2): 84-88.
- Karabulut, A., O. Canbolat, and A. Kamalak. 2006. Evaluation of carob, *Ceratonia siliqua* pods as a feed for sheep. *Livest. Res. Rural Dev.* 18 (7): 104.
- Katiki, L. M., A. C. P. Gomes, A. M. E. Barbieri, P. A. Pacheco, L. Rodrigues, C. J. Verissimo, G. Gutmanis, A. M. Piza, H. Louvandini, and J. F. S. Ferreira. 2017. *Terminalia catappa*: Chemical composition, *in vitro* and *in vivo* effects on *Haemonchus contortus*. *Vet. Parasitol.* 246: 118–123.
- Kennedy, P. M. and E. Charmley. 2012. Methane yields from Brahman cattle fed tropical grasses and legumes. *Anim. Prod. Sci.* 52: 225-239.
- Kustantinah. 2012. Pengukuran Kualitas Pakan Sapi. Cetakan ke- I. PT Citra Aji Parama, Yogyakarta. 68-69.
- Kustantinah, E. Indarto, Zuprizal, C. T. Noviandi, N. D. Dono, and F. A. Mukti. 2017. Feed Evaluation Based on Gas Production of Twelve Tropical Feedstuffs. Pages 178 – 184 in Proc. The 7th International Seminar on Tropical Animal Production. Faculty of Animal Science, Universitas Gadjah Mada, Yogyakarta.
- Lasut, V. N., P. Yamlean., dan H. S. Supriati. 2012. Uji efektivitas daya antelmintik infus daun ketapeng china (*Cassia alata* L.) terhadap cacing gelang (*Ascaris lumbricoides*) secara *in vitro*. *Pharmakon*.
- Makkar, H.P.S. 2003. Effects and fate tannins in ruminant animals, adaptation to tannins, and strategies to overcome detrimental effects of feeding tannin-rich feeds. *Small Rumin. Res.* 49: 241-256.
- Malangngi, L., S. Meiske, and J. Jessy. 2012. Penentuan kandungan tanin dan uji aktivitas antioksidan ekstrak biji buah alpukat (*Persea americana* Mill). *Jurnal MIPA UNSRAT.* 1 (1): 5-10.
- Mandey S Jet., N. J. Kumajas, J. R. Leke, dan M. N. Regar. 2015. Manfaat daun lamtoro (*Leucaena leucocephala*) dalam pakan ayam pedaging diukur dari penampilan produksi.. *Jurnal Zooteck.* 35(1): 72-77.
- Marimuthu, K. and R. Dhanalakshmi. 2014 A study on phytochemicals in *Bauhinia purpurea* l. leaf and flower. *Int. J. Pharm. Sci. Rev. Res.*, 29. 2 (14): 72-76.
- Mazumder, S. and B. S. Pahaw. 2012. Antidiabetic activity of methanolic extract leaf of Bauhinia Purpurea. *Int. J. Ther. Appl.* 2: 19 – 23.
- McManus, J. P., K. G. Davis, J. E. Beart, S. H. Gaffney, T. H. Lilley, and E. Haslam. 1985. Polyphenol interactions. Part I. Introduction; some observations on the reversible complexation of tannin and cell wall polyphenols with proteins and polysaccharides. *J. Chem. Soc. [Perkins 1]*. 2: 1429 – 1438.
- McSweeney, C., B. Palmer, D. M. McNeill, and D. Krausé. 2001. Microbial interactions with tannins: nutritional consequences for ruminants. *Anim. Feed. Sci. Tech.* 91(1–2): 83-93.

- Menke, K.H. L. Raab, A. Salewski, H. Steingass, D. Fritz and W. Scheneider. 1979. The estimation of the digestibility and metabolizable energy content of ruminant feedstuff from the gas production when they are incubated with rumen liquor. *J. Agric. Sci.* 93: 217-222.
- Nalule, A. S., J. M. Mbaria, and J. W. Kimenju. 2013. *In vitro* anthelmintic potential and phytochemical composition of ethanolic and water crude extracts of *Euphorbia heterophylla* Linn. *J. Med. Plant Res.* 7 (43): 3202 – 3210.
- Naumann, H. D., J. P. Muir, B. D. Lambert, L. O. Tedeschi, M. M. Kothmann. Condensed tannins in the ruminant environment: a perspective on biological activity. *Int. J. Agric. Sci.* 1(1): 8-20.
- Naveen, Y. P., and A. Urooj. 2015. Phytochemical, proximate composition and antioxidant potential of *Swietenia mahagoni* leaves. *Asian J. Pharm. Res.* 5: 161 – 166.
- Nazreen, S., M. S. Alam, H. Hamid, G. Kaur, M. M. Alam, S. Haider, S. Shafi. 2011. Phytochemical investigation of *Bambusa arundinacea* Retz. *J. Nat. Prod.* 2: 1–7.
- Noorsatiti, M. N. , L. K. Nuswantara dan A. Subrata. 2012. Degradabilitas bahan kering, bahan organik dan serat kasar ransum dengan berbagai level bagasse secara *in sacco*. *Anim. Sci. J.*, Vol. 1(1): 143 – 158.
- Olayinka, O. A., T. F. Owofe, G. I. Olasehinde, D. K. Akinlabu, F. E. Owolabi and O. Y. Audu. 2016. Characterization, proximate composition and evaluation of antimicrobial activity of seed oil of *Bauhinia tomentosa* J. *Biol. Sci.* 16: 102 – 111.
doi: 10.3923/jbs.2016.102.111
- Ørskov, E.R. and I. McDonald. 1979. The estimate of protein degradability in the rumen from incubation measurement weight according to rate of passage. *J. Anim. Sci.* 92: 429-503.
- Osete-Alcaraz, A., A. B. Bautista-Ortin, E. Gomez-Plaza. 2019. The role of soluble polysaccharides in tannin-cell wall interactions in model solutions and in wines. *Biomolecules* 2020, 10: 36
- Packirisamy and Krishnamoorthi. 2014. Evaluation of proximate composition and phytochemical analysis of *Terminalia catappa* L. from Nagapattinam region. *Int. J. Sci. Res.* 3(12): 877 – 880.
- Patra, A. K. 2012. *Dietary Phytochemicals and Microbes*. 1st ed. Springer Netherlands, Dordrecht.
- Piluzza, G., L. Sulas, and S. Bullitta. 2014. Tannins in forage plants and their role in animal husbandry and environmental sustainability: a review. *Grass and Forage Science* 69: 32-48.
- Piñeiro-Vázquez, A. T., J. R. Canul-Solís, J. A. Alayón-Gamboab, A. J. Chay-Canul, A. J. Ayala-Burgosa, C. F. Aguilar-Pérez, F. J. Solorio-Sánchez, and J. C. Ku-Vera. 2015. Potential of condensed tannins for the reduction of emissions of enteric methane and their effect on ruminant productivity. *Arch. Med. Vet.* 47: 263-272.

- Puchala, R., B. R. Min, A. L. Goetsch, and T. Sahlu. 2005. The effect of a condensed tannin-containing forage on methane emission by goats. *J. Anim. Sci.* 83: 182 – 186.
- Puchala, R., G. Animut, and A. K. Patra. 2012. Methane emissions by goats consuming *Sericea lespedeza* at different feeding frequencies. *Anim. Feed Sci. Technol.* 175: 76 – 84.
- Pund, G., Dr. D. C. Kothari, and Dr. P. V. Thorat. 2017. Lab scale extraction of *mimosin* from *Leucaena leucocephala* leaves. *IRJET.* 4(6): 642 – 646.
- Rahayu, S., M. Bata, dan A. Marsudi. 2011. Potensi ekstrak daun bambu sebagai antibakteri. Laporan Penelitian. Kerjasama Kemitraan Penelitian Pertanian dengan Perguruan Tinggi (KKPPT) Universitas Soedirman, Purwokerto.
- Rahayu, S. S. and D. Sukmawati. 2015. Phytochemical composition, antimicrobial and antioxidant activity of manggong bamboo (*Gigantochloa manggong*) leaf extract. *Asian J. Microbiol. Biotechnol. Environ. Sci.* 17 (2): 443 – 450.
- Ravindran, C., M. Manokari, and M. Shekhawat. 2015. Biogenic production of zinc oxide nanoparticles from aqueous extracts of *Duranta erecta* L. *World Sci. News.* 28: 30 – 40.
- Reddy D. V. and N. Elanchezhian. 2008. Evaluation of tropical tree leaves as ruminant feedstuff based on cell contents, cell wall fractions and polyphenolic compounds. *LRRD.* 20: 7.
- Reji, A. F. and R. N. Alphonse. 2013, Phytochemical study on *Sesbania grandiflora*. *J. Chem. Pharm. Res.* 5(2): 196 – 201.
- Rubanza, C. D. K., M. N. Shem, R. Otsyina, T. Ichinohe, and T. Fujihara. 2003. Nutritive evaluation of some browse tree legume foliages native to semi-arid areas in western tanzania. *Asian-Aust. J. Anim. Sci.* 16 (10): 1429-1437.
- Ruiz-García, Y., P. A. Smith, and K. A. Bindon. 2014. Selective extraction of polysaccharide affects the adsorption of proanthocyanidin by grape cell walls. *Carbohydr. Polym.* 114, 102–114.
- Sales, N. and S. Love. 2016. Resistance of *Haemonchus* sp. to monepantel and reduced efficacy of a derquantel / abamectin combination confirmed in sheep in NSW, Australia. *Vet. Parasitol.* 228: 193 – 196.
doi: 10.1016/j.vetpar.2016.08.016
- Santoso, B., E. Saragih, and B. Hariadi. 2013. Effect of water extract of plants containing tannin on in vitro methagonesis and fermentation characteristics of the grass *Pennisetum purpureophoides*. *JITAA.* 38(1): 47 – 54.
doi:10.14710/jitaa.38.1.47-54.
- Silanikove, N., D. Shinder, N. Gilboa, M. Eyal, and Z. Nitsan. 1996. *Polyethylene glycol* binding to plant samples as an assay for the biological effects of tannins: predicting the negative effects of tannins in Mediterranean browse on rumen degradation. *J. Agric. Chem. Food Sci.* 44: 3230-3234.

- Sreelatha, S., A. Jeyachitra, and P. R. Padma. 2011. Antiproliferation and induction of apoptosis by *Moringa oleifera* leaf extract on human cancer cells. Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association. Food Chem.Toxicol. 49 (6): 1270-5.
doi: 10.1016/j.fct.2011.03.006.
- Sriraman, S., G. M. Ramanujam, M. Ramasany, and G. P. Dubey. 2015. Identification of beta-sitosterol and stigmasterol in *Bambusa bambos* (L.) Voss leaf extract using HPLC and its estrogenic effect *in vitro*. J. Pharm. Biomed. Anal. 115: 55-61.
- Stuart, Godofredo. 2018. Philippine Alternative Medicine. StuartXchange. <http://www.stuartxchange.com/AltMed.html>. Diakses tanggal 13 Oktober 2020
- Suherman, D dan I. Herdiawan. 2015. Tanaman legum pohon *Desmodium rensonii* sebagai tanaman pakan ternak bermutu. Fakultas Pertanian, Universitas Bengkulu. Bengkulu. 4(2): 100 – 104.
- Suryanah, S., A. Rochana, and N. P. Indiriani. 2017. Ramie (*Boehmeria nivea*) plant nutrient quality as feed forage at various cutting ages. Anim. Prod. 19(2): 111 – 117.
- Tan, H.Y., C. C. Sieo, N. Abdullah, J. B. Liang, X. D. Huang, and Y. W. Ho. 2011. Effects of condensed tannins from *Leucaena* on methane production, rumen fermentation and populations of methanogens and protozoa *in vitro*. Anim. Feed Sci. Technol. 169: 185-193.
- Tavendale, M. H., L. P. Meagher, D. Pacheco, N. Walker, G. T. Attwood, S. Sivakumaran. 2005. Methane production from *in vitro* rumen incubations with *Lotus pedunculatus* and *Medicago sativa*, and effects of extractable condensed tannin fractions on methanogenesis. Anim. Feed Sci. Technol. 123–124: 403–419.
- Thamizharasan, S., S. Umamaheswari, H. Rajeswari, and V. Ulagaratchagan. 2015. Quantitative phytochemical analysis of *Bambusa arundinacea* seeds. Int. J. Pharmacogn. Phytochem. Res. 7(5): 980-983.
- Tillman, A. D., H. Hartadi, S. Reksohadiprojo, S. Prawirokusumo. dan S. Lebdoesoekojo. 1998. Ilmu Makanan Ternak Dasar. Edisi Keenam. Gadjah Mada University Press. Yogyakarta.
- Uduakpan, U. I., D. E. Jacob, K. E. Okon, A. D. Olajumoke, and I. U. Nelson. 2020. Proximate analysis of some exotic plant species grown in the tropics. Agricultural Studies. 4: 20 – 26.
doi:<https://doi.org/10.31058/j.as.2020.41002>
- Van Soest, P. J. 1982. Nutritional Ecology of The Ruminant Metabolism Nutritional Strategis, The Cellulolytic Fermentation and The Chemistry of Forages and Plant Fibers. O&B Book, Oregon.
- Vargas-Magaña, J. J., J. F. Torres-Acosta, A. J. Aguilar-Caballero, C. A. Sandoval-Castro, H. Hoste, and J. A. Chan-Pérez. 2014. Anthelmintic activity of acetone-water extracts against *Haemonchus contortus* eggs:

interactions between tannins and other plant secondary compounds. Vet. Parasitol. 206 (3-4): 322 – 327.
doi: 10.1016/j.vetpar.2014.10.008.

Venkateshwarlu, G., T. R. Shanta, N. Shiddamallayya, and K. R. Kishore. 2012. Traditional and ayurvedic medicinal importance of agasthya leaves [*Sesbania grandiflora* (L) Pers.] W.R.T. its pharmacognostic and physicochemical evaluation. IJRAP. 3(2): 193 – 197.

Wati, N. E., J. Achmadi dan E. Pangestu. 2012. Degradasi nutrien bahan pakan limbah pertanian dalam rumen kambing secara *in sacco*. Anim. Agric. J. 1 (1): 485 – 498.

World Health Organization. 2009. Medicinal Plants in Papua New Guinea. WHO Press, World Health Organization, 20 Avenue Appia, 1211 Geneva 27, Switzerland. 52 – 53.

Yusiati, L. M., A. Kurniawati, C. Hanim, and M. A. Anas. 2018. Protein binding capacity of different forages tannin. IOP Conf. Ser.: Earth Environ. Sci. 119. 012007

Zhang L., and Y. M. Lin. 2008. Tannins from *Canarium album* with potent antioxidant activity. J. Zhejiang Univ. Sci. 9: 407 – 415.

Zhong, X., G. Dou, and D. Wang. 2013. *Polyethylene glycol* (PEG-400): an efficient and recyclable reaction medium for the synthesis of *pyrazolo*[3,4-b]*pyridin*-6(7h)-one derivatives. Molecules. 18: 13139-13147.
doi:10.3390/molecules181113139