

Digestibility Reference list

- Ali, H., Haque, M.M., Chowdhury, M.M.R. & Shariful, M.I.** 2009. In vitro protein digestibility of different feed ingredients in Thai koi (*Anabas testudineus*). *Journal of Bangladesh Agricultural University*, 7(1): 205–210.
- Alam, M.S., Teshima, S.-I., Koshio, S., Uyan, O. & Ishikawa, M.** 2004. Effects of dietary protein and lipid levels on growth and body composition of juvenile Japanese flounder, *Paralichthys olivaceus*, fed diets containing intact proteins or crystalline amino acids. *Journal of Applied Aquaculture*, 14: 3–4.
- Allan, G.L., Rowland, S.J., Parkinson, S., Stone, D.A.J. & Jantrarotai, W.** 1999. Nutrient digestibility for juvenile silver perch *Bidyanus bidyanus*: development of methods. *Aquaculture*, 170: 131–145.
- Allan, G.L., Parkinson, S., Booth, M.A., Stone, D.A.J., Rowland, S.J., Frances, J. & Warner-Smith, R.** 2000. Replacement of fish meal in diets for Australian silver perch, *Bidyanus bidyanus*: I. Digestibility of alternative ingredients. *Aquaculture*, 186(3): 293–310.
- Andrews, J.W., Sick, L.V. & Baptist, G.J.** 1972. The influence of dietary protein and energy levels on growth and survival of penaeid shrimp. *Aquaculture*, 1: 341–347.
- Appleford, P. & Anderson, T.A.** 1997. Effect of inclusion level and time on apparent digestibility of solvent-extracted soybean meal for common carp (*Cyprinus carpio*, Cyprinidae). *Asian Fisheries Science*, 10(1): 65–74.
- Applewhite, T.H.** 1989. *Proceedings of the World Congress on Vegetable Protein Utilization in Human Foods and Animal Feedstuffs*. Champaign, IL: American Oil Chemists' Society, 1989.
- AQUACOP, Cuzon, G., Chou, R. & Fuchs, J.** 1989. 69 Nutrition of the Seabass, *Lates calcarifer*. In *Advances in Tropical Aquaculture, AQUACOP IFREMER Actes de Colloque 9*: 757–763.
- Arslan, M., Rinchar, J., Dabrowski, K. & Portella, M.C.** 2008. Effects of different dietary lipid sources on the survival, growth, and fatty acid composition of South American catfish, *Pseudoplatystoma fasciatum*, surubim, juveniles. *Journal of the World Aquaculture Society*, 39(1): 51–60.
- Asdari, R., Aliyu-Paiko, M., Hashim, R. & Ramachandran, S.** 2011. Effects of different dietary lipid sources in the diet for *Pangasius hypophthalmus* (Sauvage, 1878) juvenile on growth performance, nutrient utilization, body indices and muscle and liver fatty acid composition. *Aquaculture Nutrition*, 17(1): 44–53.
- Bai, S.C., Choi, S.-M., Kim, K.-W. & Wang, X.J.** 2001. Apparent protein and phosphorus digestibilities of five different dietary protein sources in Korean rockfish, *Sebastes schlegelii* (Hilgendorf). *Aquaculture Research*, 32: 99–105.
- Battaglione, S.C., Cobcroft, J., Tasmanian Aquaculture and Fisheries Institute & Aquafin Cooperative Research Centre (Australia).** 2010. *Aquafin CRC enhanced hatchery production of striped trumpeter, *latris lineata*, in Tasmania through system design, microbial control and early weaning*. Hobart, Tasmanian Aquaculture and Fisheries Institute.
- Bhaskar, T.I.C.J. & Ali, S.A.** 1984. Studies on the protein requirement of post-larvae of the penaeid prawns *P. indicus* using purified diets. *Indian Journal of Fisheries*, 31: 74–81.
- Bjerkeng, B., Peisker, M., von, S.K., Ytrestoyl, T. & Asgard, T.** 2007. Digestibility and muscle retention of astaxanthin in Atlantic salmon, *Salmo salar*, fed diets with the red yeast *Phaffia rhodozyma* in comparison with synthetic formulated astaxanthin. *Aquaculture*, 269(1): 476–489.
- Booth, M.A., Allan, G.L., & Anderson, A.J.** 2005. Investigation of the nutritional requirements of Australian snapper *Pagrus auratus* (Bloch & Schneider, 1801): apparent digestibility of protein and energy sources. *Aquaculture Research*, 36(4): 378–390.
- Booth, M.A., Allan, G.L., & Anderson, A.J.** 2007. Investigation of the nutritional requirements of Australian snapper *Pagrus auratus* (Bloch & Schneider, 1801): effects of digestible energy content on utilization of digestible protein. *Aquaculture Research*, 38(4): 429–440.

- Booth, M.A., Allan, G.L. & Pirozzi, I.** 2010. Estimation of digestible protein and energy requirements of yellowtail kingfish *Seriola lalandi* using a factorial approach. *Aquaculture*, 307(3): 247–259.
- Bransden, M.P., and Carter, C.G.** 1999. Effect of processing soybean meal on the apparent digestibility of practical diets for the greenback flounder *Rhombosolea tapirina* (Günther). *Aquaculture Research*, 30: 719–723.
- Browder, J.A., Zein-Eldin, Z., Ciales, M.M., Robblee, M.B., Wong, S., Jackson, T.L. & Johnson, D.** 2002. Dynamics of pink shrimp (*Farfantepenaeus duorarum*) recruitment potential in relation to salinity and temperature in Florida Bay. *Estuaries*, 25(6): 1355–1371.
- Brunson, J.F., Romaine, R.P. & Reigh, R.C.** 1997. Apparent digestibility of selected ingredients in diets for white shrimp *Penaeus setiferus*. *Aquaculture Nutrition*, 3: 9–16.
- Bureau, D.P., Kirkland, J.B. & Cho, C.Y.** 1998. In *Energy Metabolism of Farm Animals* K.J. McCracken, E.F. Unsworth, and A.R.G. Wylie, eds. CAB International Press, Wallingford, UK, pp. 163–166.
- Burel, C., Boujard, T., Tulli, F. & Kaushik, S.J.** 2000. Digestibility of extruded peas, extruded lupin, and rapeseed meal in rainbow trout (*Oncorhynchus mykiss*) and turbot (*Psetta maxima*). *Aquaculture*, 188(3–4): 285–298.
- Campana-Torres, A., Martinez-Cordova, L.R., Villarreal-Colmenares, H. & Civera-Cerecedo, R.** 2005. In vivo dry matter and protein digestibility of three plant-derived and four animal-derived feedstuffs and diets for juvenile Australian redclaw, *Cherax quadricarinatus*. *Aquaculture*, 250: 748–754.
- Catacutan, M.R., Eusebio, P.S. & Teshima, S.** 2003. Apparent digestibility of selected feedstuffs by mud crab, *Scylla serrata*. *Aquaculture*, 216(1): 253–261.
- Catacutan, M.R., Pagador, G.E., & Teshima, S.** 2001. Effect of dietary protein and lipid levels and protein to energy ratios on growth, survival and body composition of the mangrove red snapper, *Lutjanus argentimaculatus* (Forsskal 1775). *Aquaculture Research*, 32(10): 811–818.
- Chen, Y.-L.L. & Chen, H.-Y.** 1999. Temperature preferendum of postlarval black tiger shrimp (*Penaeus monodon*). *Marine and Freshwater Research*, 50(1): 67–70.
- Cheng, W. & Chen, J.-C.** 2000. Effects of pH, temperature and salinity on immune parameters of the freshwater prawn *Macrobrachium rosenbergii*. *Fish & Shellfish Immunology*, 10(4): 387–391.
- Cheng, Z.J. & Hardy, R.W.** 2002a. Effect of microbial phytase on apparent nutrient digestibility of barley, canola meal, wheat and wheat middlings, measured in vivo using rainbow trout (*Oncorhynchus mykiss*). *Aquaculture Nutrition*, 8(4): 271–277.
- Cheng, Z.J. & Hardy, R.W.** 2002b. Apparent digestibility coefficients and nutritional value of cottonseed meal for rainbow trout (*Oncorhynchus mykiss*). *Aquaculture*, 21: 361–372.
- Cheng, Z.J. & Hardy, R.W.** 2003. Effects of extrusion and expelling processing, and microbial phytase supplementation on apparent digestibility coefficients of nutrients in full-fat soybeans for rainbow trout (*Oncorhynchus mykiss*). *Aquaculture*, 218(1): 501–514.
- Chong A.S.C., Hashim R. & Ali A.B.** 2000. Dietary protein requirements for discus (*Symphysodon* spp.). *Aquaculture Nutrition*, 6: 275–278.
- Chong, A.S.C., Hashim, R. & Ali, A.B.** 2002. Assessment of dry matter and protein digestibilities of selected raw ingredients by discus fish (*Symphysodon aequifasciata*) using in vivo and in vitro methods. *Aquaculture Nutrition*, 8: 229–238.
- Clark, D.J., Lawrence, A.L. & Swakon, D.H.D.** 1993. Apparent chitin digestibility in penaeid shrimp. *Aquaculture*, 109: 51–57.
- Cortés-Jacinto, E., Villarreal-Colmenares, H., Civera-Cerecedo, R. & Cruz-Suárez, L.E.** 2004. Studies on the nutrition of the freshwater crayfish *Cherax quadricarinatus* (Von Martens): effect of the dietary protein level on growth of juveniles and pre-adults. *Freshwater Crayfish*, 14: 70–80.

- Cotton, C.F.** 2002. Optimizing growth for aquaculture of juvenile black seabass *Centropomus striatus* L.: effects of temperature, salinity, commercial diet and feeding ration. M.S. Thesis, University of Georgia. Athens, Georgia. 81 pp. (Available at http://marex.uga.edu/uploads/documents/Cotton_2002_Masters_thesis.pdf)
- Cremer, M.C., Jian, Z. & Enhua, Z.** 2001. Production of longnose catfish (*Leiocassis longirostris*) fingerlings in Beijing using the ASA 80:20 pond model and soymeal-based feeds. Results of ASA/China 2001 feeding trial 35-01-108. American Soybean Association. Beijing, China (Available at <http://www.soyaqua.org/reports/production-longnose-catfish-leiocassis-longirostris-fingerlings-beijing-using-asa-8020-pond>).
- Cruz-Suarez, L.E., Tapia-Salazar, M., Villarreal-Cavazos, D., Beltran-Rocha, J., Nieto-Lopez, M.G., Lemme, A. & Ricque-Marie, D.** 2009. Apparent dry matter, energy, protein and amino acid digestibility of four soybean ingredients in white shrimp *Litopenaeus vannamei* juveniles. *Aquaculture*, 29: 87–94.
- Cudmore-Vokey, B.C., Mandrak, N.E. & Great Lakes Laboratory for Fisheries & Aquatic Sciences.** 2004. *Biological synopsis of grass carp (Ctenopharyngodon idella)*. Burlington, ON: Fisheries and Oceans Canada, Great Lakes Laboratory for Fisheries and Aquatic Sciences.
- Daniels, W.H. & Robinson, E.H.** 1986. Protein and energy requirements of juvenile red drum (*Sciaenops ocellatus*). *Aquaculture*, 53(3–4): 243–252.
- Das, T., Pal, A.K., Chakraborty, S.K., Manush, S.M., Sahu, N.P. & Mukherjee, S.C.** 2005. Thermal tolerance, growth and oxygen consumption of *Labeo rohita* fry (Hamilton, 1822) acclimated to four temperatures. *Journal of Thermal Biology*, 30(5): 378–383.
- Davis, D.A. & Arnold, C.R.** 1995. Effects of two extrusion processing conditions on the digestibility of four cereal grains for *Penaeus vannamei*. *Aquaculture*, 133: 287–294.
- Day, O.J. & González, H.G.P.** 2000. Soybean protein concentrate as a protein source for turbot *Scophthalmus maximus* L. *Aquaculture Nutrition*, 6(4): 221–228.
- Deering, M.J., Fielder, D.R. & Hewitt, D.R.** 1995. Effects of temperature on growth and protein assimilation in juvenile leader prawns *Penaeus monodon*. *Journal of the World Aquaculture Society*, 26(4): 465–468.
- Degani, G., Viola, S. & Yehuda, Y.** 1997. Apparent digestibility coefficient of protein sources for carp, *Cyprinus carpio* L. *Aquaculture Research*, 28(1): 23–28.
- Degani, G.** 2002. Availability of protein and energy from three protein sources in hybrid sturgeon *Acipenser guldensadtii* X *A. besteri*. *Aquaculture Research*, 33(9): 725–727.
- De La Noue, J. & Ghoubert, G.** 1985. Apparent digestibility of invertebrate biomasses by rainbow trout. *Aquaculture*, 50: 103–112.
- De Silva, S.S., Gunasekera, R.M., Gooley, G. & Ingram, B.A.** 2001. Growth of Australian shortfin eel (*Anguilla australis*) elvers given different dietary protein and lipid levels. *Aquaculture Nutrition*, 7(1): 53–57.
- Dias, J., Yufera, M., Valente, L.M.P. & Rema, P.** 2010. Feed transit and apparent protein, phosphorus and energy digestibility of practical feed ingredients by Senegalese sole (*Solea senegalensis*). *Aquaculture*, 302: 94–99.
- Dongmeza, E.B., Francis, G., Steinbronn, S., Focken, U. & Becker, K.** 2010. Investigations on the digestibility and metabolizability of the major nutrients and energy of maize leaves and barnyard grass in grass carp (*Ctenopharyngodon idella*). *Aquaculture Nutrition*, 16(3): 313–326.
- Dong, F.M., Hardy, R.W., Haard, N.F., Barrows, F.T., Rasco, B.A., Fairgrieve, W.T. & Forster, I.P.** 1993. Chemical composition and protein digestibility of poultry by-product meals for salmonid diets. *Aquaculture*, 116: 149–158.
- Eid, A.E.** 2010. Protein requirements of fingerlings grey mullet (*mugil cephalus*) (available at <http://en.engormix.com/MA-aquaculture/articles/protein-requirements-fingerlings-grey-t1484/p0.htm>).

- Eguia, By R.V., Kamarudin, M.S. & Santiago, C.B.** 2000. Growth and survival of river catfish *Myxus nemurus* (Cuvier & Valenciennes) larvae fed isocaloric diets with different protein levels during weaning. *Journal of Applied Ichthyology*, 16(3): 104–109.
- Emata, A.C., & Borlongan, I.G.** 2003. A practical broodstock diet for the mangrove red snapper, *Lutjanus argentimaculatus*. *Aquaculture*, 225(1): 83–88.
- Engin, K. & Carter, C.G.** 2002. Ingredient apparent digestibility coefficients for the Australian short-finned eel (*Anguilla australis australis*, Richardson). *Animal Science*, 75: 401–413 (available at <http://eprints.utas.edu.au/871/>).
- Ergun, S., Guroy, D., Tekesoglu, H., Guroy, B., Celik, I., Tekinay, A.A. & Bulut, M.** 2010. Optimum dietary protein level for blue streak hap, *Labidochromis caeruleus*. *Turkish Journal of Fisheries and Aquatic Sciences*. 10: 27–31.
- Ezquerro, J.M., Garcia-Carreno, F.L. & Carrillo, O.** 1998. In vitro digestibility of dietary protein sources for white shrimp (*Penaeus vannamei*). *Aquaculture*, 163(1): 123–136.
- Ferguson, G.** 2006. Fisheries biology of the greenback flounder *Rhombosolea tapirina* (Günther 1862) (Teleostei: Pleuronectidae) in South Australia. Report for PIRSA Fisheries. *SARDI Aquatic Sciences Publication No. RD06/0008-1, SARDI Research report Series No. 156*. 18 pp.
- Fielder, D.S., Bardsley, W.J., Allan, G.L. and Pankhurst, P.M.** 2005. The effects of salinity and temperature on growth and survival of Australian snapper, *Pagrus auratus* larvae. *Aquaculture*, 250(1-2): 201–214.
- Fines B.C. & Holt G.J.** 2010. Chitinase and apparent digestibility of chitin in the digestive tract of juvenile cobia, *Rachycentron canadum*. *Aquaculture*, 303(1–4): 34–39.
- Fountoulaki, E.E., Alexis, M.N. & Nengas, I.** 2002. Protein and energy requirements of gilthead bream (*Sparus aurata* L.) fingerlings: Preliminary results. In Montero, D., Basurco, B., Nengas, I. & Izquierdo-Zaragoza, A.M.: CIHEAM/HCRM. Mediterranean Fish Nutrition. Proceedings of the Workshop on Mediterranean Fish Nutrition, organized by the Mediterranean network on Aquaculture Nutrition, the Hellenic National Centre for Marine Research (HCMR) and the CIHEAM, IAMZ, with the contribution of Perseus Special Food Products S.A., Rhodes, Greece, 1-2 June 2002. 158p. *Série Cahiers Options Méditerranéennes*, 63: 19–26.
- Fuss, C.M. & Ogren, L.H.** 1966. Factors affecting activity and burrowing habits of the pink shrimp *Penaeus duorarum* Burkenroad. *Biological Bulletin*, 130: 170–191 (available at <http://www.journals.uchicago.edu/doi/10.2307/1539695>).
- Garling, D.L.J. & Wilson, R.P.** 1976. Optimum dietary protein to energy ratio for channel catfish fingerlings, *Ictalurus punctatus*. *The Journal of Nutrition*, 106(9): 1368–1375.
- Gaylord, T.G. & Gatlin, D.M.** 1996. Determination of digestibility coefficients of various feedstuffs for red drum (*Sciaenops ocellatus*). *Aquaculture*, 139(3–4): 303–314.
- Gaylord, T.G., Rawles, S.D. & Gatlin, D.M.** 2004. Amino acid availability from animal, blended, and plant feedstuffs for hybrid striped bass (*Morone chrysops* X *M. saxatilis*). *Aquaculture Nutrition*, 10, 5, 345–352.
- Ghulam, A., Khalid, J., Rukhsana, A., & Lin, H.** 2005. Effects of dietary protein level on growth and utilization of protein and energy by juvenile mangrove red snapper (*Lutjanus argentimaculatus*). *Journal of Ocean University of China*, 4(1): 49–55.
- Giri, N.A.** 2008. Dietary lysine requirement for growth of juvenile coral trout grouper *Plectropomus leopardus*. World Aquaculture 2008, Busan, Korea.
- Glencross, B.D., Carter, C.G., Duijster, N., Evans, D.R. Dodse, K., McCafferty, P., Hajen, W.E., Higgs, D.A., Beames, R.M. & Dosanjh, B.S.** 1993. Digestibility of various feedstuffs by post-juvenile chinook salmon (*Oncorhynchus tshawytscha*) in sea water. 2. Measurement of digestibility. *Aquaculture*, 112(4): 333–348.
- Hart, P.R., Hutchinson, W.G. and Purser, G.J.** 1996. Effects of photoperiod, temperature and salinity on hatchery - reared larvae of the greenback flounder (*Rhombosolea tapirina*, Gunther, 1862). *Aquaculture*, 144(4): 303–311.

- Heng, N.** 1999. *The Effects of Varying Dietary Protein Levels on Growth Performance of the Mekong River Catfish Pangasius Hypophthalmus Fries*. Master's thesis, University Putra Malaysia.
- Glencross, B.** 2011. A comparison of the digestibility of diets and ingredients fed to rainbow trout (*Oncorhynchus mykiss*) or barramundi (*Lates calcarifer*) - the potential for inference of digestibility values among species. *Aquaculture Nutrition*, 17(2): e207–e215.
- González-Félix, M.L., Davis, D.A., Rossi, W. & Perez-Velazquez, M.** 2010. Evaluation of apparent digestibility coefficient of energy of various vegetable feed ingredients in Florida pompano, *Trachinotus carolinus*. *Aquaculture*, 310(1): 240–243.
- Green, A.J., Jones, C.L.W. & Britz, P.J.** 2011. The protein and energy requirements of farmed South African abalone *Haliotis midae* L. cultured at optimal and elevated water temperatures. *Aquaculture Research*, 2011: 1–11. Early View, Article first published online: 9 FEB 2011.
- Guimaraes, I.G., Pezzato, L.E. & Barros, M.M.** 2008. Amino acid availability and protein digestibility of several protein sources for Nile tilapia, *Oreochromis niloticus*. *Aquaculture Nutrition*, 14(5): 396–404.
- Haran, N.S. & Fenucci, J.L.** 2008. Effects of lecithin on cholesterol digestibility in the prawn, *Artemesia longinaris* (Crustacea, Penaeidae). *Israeli Journal of Aquaculture - Bamidgeh*, 60(1): 13–19.
- Habashy, M.M.** 2009. Growth and body composition of juvenile freshwater prawn, *Macrobrachium rosenbergii*, fed different dietary protein/starch ratios. *Global Veterinaria*, 3(1): 45–50.
- Hawkins, W.E., Maasb, R. & Sipsas, S.** 2004. A comparison of the digestibility of a range of lupin and soybean protein products when fed to either Atlantic salmon (*Salmo salar*) or rainbow trout (*Oncorhynchus mykiss*). *Aquaculture*, 237: 333–346.
- He, J-x., Wang, Z-g., Mei, L., Yao, C-h., Dong, J-j. & Huang, X.** 2009. Studies on the appropriate protein requirement and energy to protein ratio in feed for *Procambarus clarkii*. *Journal of Hydroecology (Reservoir Fisheries)*, 2009-03 (available at http://en.cnki.com.cn/Article_en/CJFDTOTAL-SCAN200903018.htm).
- Hettler, W.F.** 1992. Correlation of winter temperature and landings of pink shrimp *Penaeus duorarum* in North Carolina. *Fishery Bulletin, U.S.*, 90: 405–406.
- Hossain, M.A. & Jauncey, K.** 1989. Studies on the protein, energy and amino acid digestibility of fish meal, mustard oilcake, linseed and sesame meal for common carp (*Cyprinus carpio* L.). *Aquaculture*, 83: 59–72.
- Houlihan, D., Boujard, T. & Jobling, M.** 2001. *Food intake in fish*. Oxford: Blackwell Science.
- Hrubec, T.C., Robertson, J.L., Smith, S.A.** 1997. Effects of temperature on hematologic and serum biochemical profiles of hybrid striped bass (*Morone chrysops* x *Morone saxatilis*). *American Journal Veterinary Research*, 58(2): 126–30.
- Huner, J.V. & Meyers, S.P.** 1979. Dietary protein requirements of the red crawfish, *Procambarus clarkii* (Girard) (Decapoda, Cambaridae), grown in a closed system. *Proceedings World Mariculture Society*, 10(1-4): 751–760.
- Imsland, A.K., Foss, A., Conceição, L.E.C., Dinis, M.T., Delbare, D., Schram, E., Kamstra, A., Rema, P. & White, P.** 2003. A review of the culture potential of *Solea solea* and *S. senegalensis*. *Reviews in Fish Biology and Fisheries*, 13(4): 379–408.
- Irvin, S.J. & Williams, K.C.** 2007. Apparent digestibility of selected marine and terrestrial feed ingredients for tropical spiny lobster *Panulirus ornatus*. *Aquaculture*, 269(1): 456–463.
- Jackson, C.J. & Wang, Y-G.** 1998. Modelling growth rate of *Penaeus monodon* Fabricius in intensively managed ponds: effects of temperature, pond age and stocking density. *Aquaculture Research*, 29: 27–36.
- Jafri, A.K. & Anwar, M.F.** 1995. Protein digestibility of some low-cost feedstuffs in fingerling Indian major carps. *Asian Fisheries Science*, 8: 47–53.

- Jafri, A.K. & Hassan, M.A.** 1999. Energy digestibility coefficients of commonly used feedstuffs in different size-classes of Indian major carps, *Labeo rohita* (Hamilton) and *Cirrhinus mrigala* (Hamilton). *Asian Fisheries Science*, 12(2): 105–205.
- Jiang, K-y., Li, Y., Li, J., Wang, L., Wang, Y-j.** 2005. Eco-nutrition requirement of protein for juvenile turbot (*Scophthalmus maximus* L.). *Marine science*, 2005-09 (available at http://en.cnki.com.cn/Article_en/CJFDTOTAL-HYKX200509014.htm).
- Jobling, M.** 1994. *Fish bioenergetics*. London: Chapman & Hall.
- Johnson, R.B., Rust, M.B., Cook, M.A. & Nicklason P.M.** 2009. Determination of apparent protein digestibility of live *Artemia* and a microparticulate diet in 8-week-old Atlantic cod *Gadus morhua* larvae. *Aquaculture*, 288(3–4): 290–298.
- Jonassen, T.M., Imsland, A.K., Kadowaki, S. & Stefansson, S.O.** 2000. Interaction of temperature and photoperiod on growth of Atlantic halibut *Hippoglossus hippoglossus* L. *Aquaculture Research*, 31(2): 219–227.
- Jones, C.M.** 2009. Temperature and salinity tolerances of the tropical spiny lobster, *Panulirus ornatus*. *Journal of the World Aquaculture Society*, 40(6): 744–752.
- Kalita P., Mukhopadhyay P.K. & Mukherjee A.K.** 2008. Supplementation of four non-conventional aquatic weeds to the basal diet of *Catla catla* and *Cirrhinus mrigala* fingerlings: Effect on growth, protein utilization and body composition of fish. *Acta Ichthyologica et Piscatoria*, 38(1): 21–27.
- Kausar & Salim, M.** 2006. Effect of water temperature on the growth performance and feed conversion ratio of *Labeo rohita*. *Pakistan Veterinary Journal*, 26(3): 105–108.
- Kawahara, S., Shams, A.J., Al-Bosta, A.A., Mansoor, M.H. & Al-Baqqal, A.A.** 1997. Effects of incubation and spawning water temperature, and salinity on egg development of the orange-spotted grouper (*Epinephelus coioides*, Serranidae). *Asian Fisheries Science*, 9(4): 239–250.
- Khan, M.S. Anga, K.J., Ambaka, M.A. & Saada, C.R.** 1993. Optimum dietary protein requirement of a Malaysian freshwater catfish, *Mystus nemurus*. *Aquaculture*, 112(2-3): 227–235.
- Khan, M.S.** 1994. Apparent digestibility coefficients for common feed ingredients in formulated diets for tropical catfish, *Mystus nemurus* (Cuvier & Valenciennes). *Aquaculture Research*, 25(2):167–174.
- Kim, J.D., Lall, S.P. & Milley, J.E.** 2001. Dietary protein requirements of juvenile haddock (*Melanogrammus aeglefinus* L.). *Aquaculture Research*, 32, 1-7.
- Kim, W.S., Yoon, S-J., Kim, J.M., Gil, J.W. & Lee, T.W.** 2005. Effects of temperature changes on the endogenous rhythm of oxygen consumption in the Japanese flounder *Paralichthys olivaceus*. *Fisheries Science*, 71: 471–478.
- Kim, J.-D., Tibbetts, S.M., Milley, J.E. & Lall, S.P.** 2006. Effect of the incorporation level of herring meal into test diet on apparent digestibility coefficients for protein and energy by juvenile haddock, *Melanogrammus aeglefinus* L. *Aquaculture*, 258(1): 479 –486.
- Kim, J.-D., Tibbetts, S.M., Milley, J.E. & Lall, S.P.** 2007. Effect of the incorporation level of dehulled soybean meal into test diet on apparent digestibility coefficients for protein and energy by juvenile haddock, *Melanogrammus aeglefinus* L. *Aquaculture*, 267(1): 308–314.
- Kim, K.-W., Wang, X. & Bai, S.C.** 2004. Optimum dietary protein level and protein-to-energy ratio for growth of juvenile Korean rockfish *Sebastes schlegeli*. *Journal of the World Aquaculture Society*, 35(3): 305–314.
- Konecki, J.T., Woody, C.A. & Quinn, T.P.** 1995. Critical thermal maxima of coho salmon (*Oncorhynchus kisutch*) fry under field and laboratory acclimation. *Canadian Journal of Zoology*, 73, 5, 993.
- Koprucu, K. & Ozdemir, Y.** 2005. Apparent digestibility of selected feed ingredients for Nile tilapia (*Oreochromis niloticus*). *Aquaculture*, 250: 308–316.
- Kumaraguru, V.K.P., Balasubramanian, T. & Venkatesan, R.** 2007. Apparent digestibility of differently processed grain legumes, cow pea and mung bean in black tiger shrimp, *Penaeus*

monodon Fabricius and associated histological anomalies in hepatopancreas and midgut. *Animal Feed Science and Technology*, 132(3): 250–266.

Laining, A., Rachmansyah, Ahmad, T. & Williams, K. 2003. Apparent digestibility of selected feed ingredients for humpback grouper, *Cromileptes altivelis*. *Aquaculture*, 218(1): 529–538.

Larsen, S.V., Imsland, A.K., Lohne, P., Pittman, K. & Foss, A. 2010. Stepwise temperature regulation and its effect on growth, feeding and muscle growth patterns of juvenile Atlantic halibut (*Hippoglossus hippoglossus* L.). *Aquaculture International*, 1–13.

Law, A.T. 1986. Digestibility of low-cost ingredients in pelleted feed by grass carp (*Ctenopharyngodon idella* C. et V.). *Aquaculture*, 51: 97–103.

Lazo, J.P., Davis, D.A. & Arnold, C.R. 1998. The effects of dietary protein level on growth, feed efficiency and survival of juvenile Florida pompano (*Trachinotus carolinus*). *Aquaculture*, 169(3): 225–232.

Lee, S.-M., Cho, S.H. & Kim, K.-D. 2000. Effects of dietary protein and energy levels on growth and body composition of juvenile flounder *Paralichthys olivaceus*. *Journal of the World Aquaculture Society*, 31(3): 306–315.

Lee, S.-M. 2002. Apparent digestibility coefficients of various feed ingredients for juvenile and grower rockfish (*Sebastes schlegeli*). *Aquaculture*, 207:79–95.

Lee, J.K., Cho, S.H., Park, S.U., Kim, K.-D. & Lee, S.-M. 2003. Dietary protein requirement for young turbot (*Scophthalmus maximus* L.). *Aquaculture Nutrition*, 9(4): 283–286.

Lee, S.-M. & Kim, K.-D. 2009. Effects of dietary carbohydrate to lipid ratios on growth and body composition of juvenile and grower rockfish, *Sebastes schlegeli*. *Aquaculture Research*, 40(16): 1830–1837.

Leenhouwers, J.I., Ortega, R.C., Verreth, J.A.J. & Schrama, J.W. 2007. Digesta characteristics in relation to nutrient digestibility and mineral absorption in Nile tilapia (*Oreochromis niloticus* L.) fed cereal grains of increasing viscosity. *Aquaculture*, 273(4): 556–565.

Lein, I., Holmefjord, I. & Rye, M. 1997. Effects of temperature on yolk sac larvae of Atlantic halibut (*Hippoglossus hippoglossus* L.). *Aquaculture*, 157: 123–135.

Lim, C. & Sessa, D.J. 1995. *Nutrition and utilization technology in aquaculture*. Champaign, Ill: AOCS Press.

Lim, C., Sukhawongs, S. & Pascual, F.P. 1979. A preliminary study on the protein requirements of *Chanos chanos* (Forsk.) fry in a controlled environment. *Aquaculture*, 17(3): 195–201

Lin, S., Luo, L. & Ye, Y. 2010. Effects of dietary protein level on growth, feed utilization and digestive enzyme activity of the Chinese mitten crab, *Eriocheir sinensis*. *Aquaculture Nutrition*, 16(3): 290–298.

Liu, X-h, Peng, C., Ou, J-h., Long, S-c. & Gu, M-j. 2009. High yield trial of *Leiocassis longirostris* is main raised in micro-running water pond. *Reservoir Fisheries*, 2009-03 (available at http://en.cnki.com.cn/Article_en/CJFDTototal-SCAN200903034.htm).

Lorico-Querijero, B.V. & Cgiu, Y.N. 1989. Protein digestibility studies in *Oreochromis niloticus* using chromic oxide indicator. *Asian Fisheries Science*, 2: 177–191.

Luo, Z., Liu, Y.J. Mai, K.S. Tian, L.X. Liu, D.H. & Tan, X.Y. 2004. Optimal dietary protein requirement of grouper *Epinephelus Coioides* juveniles fed isoenergetic diets in floating net cages. *Aquaculture Nutrition*. 10(4): 247–252.

Luo, Z., Tan, X., Chen, Y., Wang, W. & Zhou, G. 2008. Apparent digestibility coefficients of selected feed ingredients for Chinese mitten crab *Eriocheir sinensis*. *Aquaculture*, 28: 141–145.

Maina, J.G., Beames, R.M., Higgs, D., Mbugua, P.N., Iwama, G. & Kisia, S.M. 2002. Digestibility and feeding value of some feed ingredients fed to tilapia *Oreochromis niloticus* (L.). *Aquaculture Research*, 33(11): 853–862.

Martins, D.A., Valente, L.M.P. & Lall, S.P. 2009. Apparent digestibility of lipid and fatty acids in fish oil, poultry fat and vegetable oil diets by Atlantic halibut, *Hippoglossus hippoglossus* L. *Aquaculture*, 29: 132–137.

- Mazid, M.A., Tanaka, Y., Katayama, T., Asadur Rahman, A., Simpson, K.L. and Chichester, C.O.** 1979. Growth response of *Tilapia zillii* fingerlings fed isocaloric diets with variable protein levels. *Aquaculture*, 18(2): 115-122.
- McCallum, I.** 1986. *Qualitative and quantitative aspects of the protein nutrition of juvenile chinook salmon (Oncorhynchus tshawytscha)*. Ottawa: National Library of Canada.
- McGoogan, B.B. & Reigh, R.C.** 1996. Apparent digestibility of selected ingredients in red drum (*Sciaenops ocellatus*) diets. *Aquaculture*, 141: 233-244.
- Merican, Z.O. & Shim, K.F.** 1995. Apparent digestibility of lipid and fatty acids in residual lipids of meals by adult *Penaeus monodon*. *Aquaculture*, 133: 275-286.
- Mitra, G., Mukhopadhyay, P.K. & Chattopadhyay, D.N.** 2005. Nutrition and feeding in freshwater ptawn (*Macrobrachium rosenbergii*) farming. *Aqua Feeds: Formulation & Beyond*, 2(1): 17-19.
- Mu, Y.Y., Shim, K.F. & Guo, J.Y.** 1998. Effects of protein level in isocaloric diets on growth performance of the juvenile Chinese hairy crab, *Eriocheir sinensis*. *Aquaculture*, 16(1): 139-148.
- Mwangamilo, J.J. & Jiddawi, N.S.** 2003. Nutritional Studies and Development of a Practical Feed for Milkfish (*Chanos chanos*) Culture in Zanzibar, Tanzania. *Western Indian Ocean Journal Marine Science*, 2: 137-146.
- National Research Council.** 1983. *Nutrient requirements of warmwater fishes and shellfishes*. Washington, D.C: National Academy Press.
- Ng, W.-K., Soon, S.-C. & Hashim, R.** 2001. The dietary protein requirement of a bagrid catfish, *Mystus nemurus* (Cuvier & Valenciennes), determined using semipurified diets of varying protein level. *Aquaculture Nutrition*, 7: 45-51.
- Nico, L.G., Fuller, P.L. & Schofield, P.J.** 2011. *Ctenopharyngodon idella*. USGS Nonindigenous Aquatic Species Database, Gainesville, FL. <http://nas.er.usgs.gov/queries/factsheet.aspx?SpeciesID=514> Revision Date: 2/5/2010
- Noreen, U. & Salim, M.** 2008. Determination of nutrient digestibility and amino acid availability of various feed ingredients for *Labeo rohita*. *International Journal of Agriculture and Biology*, 10(5): 551-555.
- Nuangsaeng, B. & Boonyaratapalin, M.** 2001. Protein requirement of juvenile soft-shelled turtle *Trionyx sinensis* Wiegmann. *Aquaculture Research*, 32: 106-111.
- Omoto, N., Koya, Y., Chin, B., Yamashita, Y., Nakagawa, M. & Noda, T.** 2010. Gonadal sex differentiation and effect of rearing temperature on sex ratio in black rockfish (*Sebastes schlegeli*). *Ichthyological Research*, 57(2): 133-138.
- Papatryphon, E. & Soares, J.H.** 2001. The effect of phytase on apparent digestibility of four practical plant feedstuffs fed to striped bass, *Morone saxatilis*. *Aquaculture Nutrition*, 7: 161-167.
- Pavasovic, A. &erson, A.J., Mather, P.B. & Richardson, N.A.** 2007. Effect of a variety of animal, plant and single cell-based feed ingredients on diet digestibility and digestive enzyme activity in redclaw crayfish, *Cherax quadricarinatus* (Von Martens 1868). *Aquaculture*, 272: 564-572.
- Perez, L., Gonzalez, H., Jover, M. & Fernandez-Carmona, J.** 1997. Growth of European sea bass fingerlings (*Dicentrarchus labrax*) fed extruded diets containing varying levels of protein, lipid and carbohydrate. *Aquaculture*, 156: 183-193.
- Phuong, N.T., Liem, P.T., Toan, V.T., Hien, T.T.T. & Tinh, L.V.** 2002. Study on the effects of feeding diets on growth of climbing perch (*Anabas testudineus*) cultured in garden ditches. Japan International Research Center for Agriculture Science, available at https://www.researchgate.net/publication/267713921_Study_on_the_effects_of_feeding_diets_on_growth_of_climbing_perch_Anabas_testudineus_cultured_in_garden_ditches
- Porz, L., Cyrino, J.E.P. & Martino, R.C.** 2001. Growth and body composition of juvenile largemouth bass *Micropterus salmoides* in response to dietary protein and energy levels. *Aquaculture Nutrition*, 7: 247-254.

- Portz, L. & Cyrino, J.E.P.** 2004. Digestibility of nutrients and amino acids of different protein sources in practical diets by largemouth bass *Micropterus salmoides* (Lacepède, 1802). *Aquaculture Research*, 35(4): 312–320.
- Rawles, S.D., Gibson, G.T., Scott, S.G. & Freeman, D.W.** 2010. The influence of protein and energy density in commercial diets on growth, body composition, and nutrient retention of sunshine bass, *Morone chrysops* X *Morone saxatilis* reared at extreme temperature. *Journal of the World Aquaculture Society*, 41: 165–178.
- Refstie, S., Storebakken, T., Baeverfjord, G. & Roem, A.J.** 2001. Long-term protein and lipid growth of Atlantic salmon (*Salmo salar*) fed diets with partial replacement of fish meal by soy protein products at medium or high lipid level. *Aquaculture*, 193(1): 91–106.
- Rema, P., Conceição, L.E.C., Evers, F., Castro-Cunha, M., Dinis, M.T. & Dias, J.** 2008. Optimal dietary protein levels in juvenile Senegalese sole (*Solea senegalensis*). *Aquaculture Nutrition*, 14(3): 263–269.
- Riche, M.A., Williams, T.N.** 2007. Recent advances in Florida pompano (*Trachinotus carolinus*) nutrition. *International Sustainable Marine Fish Culture Conference and Workshop Book of Abstracts*. p. 7.
- Rimmer, M.A., Williams, K.C. & Phillips, M.J.** 2000. *Proceedings of the Grouper Aquaculture Workshop held in Bangkok, Thailand, 7-8 April 1998*, Network of Aquaculture Centres in Asia-Pacific, Bangkok, Thailand.
- Robaina, L., Corraze, G., Aguirre, P., Blanc, D., Melcion, J.P. & Kaushik, S.** 1999. Digestibility, postprandial ammonia excretion and selected plasma metabolites in European sea bass (*Dicentrarchus labrax*) fed pelleted or extruded diets with or without wheat gluten. *Aquaculture*, 179(1): 45–56.
- Robinson, E.H., Li, M.H., Manning, B.B., Mischke, C.C. & Bosworth, B.G.** 2004. Research Articles - Effects of dietary protein and feeding rate on channel catfish *Ictalurus punctatus* production, composition of gain, processing yield, and water quality. *Journal of the World Aquaculture Society*, 35(4), 468–477.
- Rosas, C., Sanchez, A., Diaz, E., Soto, L.A., Gaxiola, G., Brito, R., Baes, M. & Pedroza, R.** 1995. Oxygen consumption and ammonia excretion of *Penaeus setiferus*, *P. schmitti*, *P. duorarum* and *P. notialis* postlarvae fed purified test diets: effect of protein level on substrate metabolism. *Aquatic living resources*, 8(2): 161–169.
- Ruscoe, I.M., Shelley, C.C. & Williams, G.R.** 2005. The combined effects of temperature and salinity on growth and survival of juvenile mud crabs (*Scylla serrata* Forskal). *Aquaculture*, 238(1): 239–247.
- Schmitza, O., Greuela, E. & Preffera, E.** 1984. Digestibility of crude protein and organic matter of potential sources of dietary protein for eels (*Anguilla anguilla*, L.). *Aquaculture*, 41(1): 21–30.
- Sealey, W.M., Barziza, D.E., Davis, J.T. & Gatlin, D.M.** 1998. Improving feeds for hybrid striped bass. *Southern Regional Aquaculture Center. SRAC Publication No. 304*.
- Shipton, T.A. & Britz, P.J.** 2002. Evaluation of an in vitro digestibility technique for the prediction of protein digestibility in the South African abalone, *Haliotis midae* L. *Aquaculture Nutrition*, 8: 15–22.
- Shumway, S.E. & Koehn, R.K.** 1982. Oxygen Consumption in the American Oyster *Crassostrea virginica*. *Marine Ecology - Progress Series*, 9: 59–68.
- Sick, L.V. & Andrews, J.W.** 1973. Effect of selected dietary lipids, carbohydrates and proteins on the growth, survival and body composition of *Penaeus duorarum*. *Proceedings of the World Mariculture Society*, 4: 263–276.
- Siddiqui, T.Q. & Khan, M.A.** 2009. Effects of dietary protein levels on growth, feed utilization, protein retention efficiency and body composition of young *Heteropneustes fossilis* (Bloch). *Fish Physiology and Biochemistry*, 35(3): 479–488.

- Silva, S.S. de, Gunasekera, R.M. & Gooley, G.** 2000. Digestibility and amino acid availability of three protein rich ingredient-incorporated diets by Murray cod *Maccullochella peelii peelii* (Mitchell) and the Australian shortfin eel, *Anguilla australis* (Richardson). *Aquaculture Research*, 31: 195–205.
- Singh, R.K., Balange, A.K. & Ghughuskar, M.M.** 2006. Protein sparing effect of carbohydrates in the diet of *Cirrhinus mrigala* (Hamilton, 1822) fry. *Aquaculture*, 258: 680–684.
- Sloane, R.D.** 1984. Preliminary observations of migrating adult freshwater eels (*Anguilla australis australis* Richardson) in Tasmania. *Australian Journal of Marine and Freshwater Research*, 35(4): 471–476.
- Small, B.C. & Soares, J.R.J.H.** 2000. Quantitative dietary lysine requirement of juvenile striped bass *Morone saxatilis*. *Aquaculture Nutrition*, 6(4): 207–212.
- Smith, D.M., Tabrett, S.J., Glencross, B.D., Irvin, S.J. & Barclay, M.C.** 2007. Digestibility of lupin kernel meals in feeds for the black tiger shrimp, *Penaeus monodon*. *Aquaculture*, 264(1): 353–362.
- Smith, D.M., Williams, K.C., Irvin, S., Barclay, M. & Tabrett, S.** 2003. Development of a pelleted feed for juvenile tropical spiny lobster (*Panulirus ornatus*): response to dietary protein and lipid. *Aquaculture Nutrition*, 9(4): 231–237.
- Sugiura, S.H., Dong, F.M., Rathbone, C.K. & Hardy, R.W.** 1998. Apparent protein digestibility and mineral availabilities in various feed ingredients for salmonid feeds. *Aquaculture*, 159: 177–202.
- Sullivan, J.A. & Reigh, R.C.** 1995. Apparent digestibility of selected feedstuffs in diets for hybrid striped bass (*Morone saxatilis* (female) x *Morone chrysops* (male)). *Aquaculture*, 138: 313–322.
- Sullivan, K., Martin, D.J. Cardwell, R.D. Toll, J.E. & Duke, S.** 2000. An analysis of the effects of temperature on salmonids of the Pacific Northwest with implications for selecting temperature criteria. Sustainable Ecosystems Institute. Portland, OR.
- Sumagaysay, N.S. & Borlongan, I.G.** 1995. Growth and production of milkfish (*Chanos chanos*) in brackishwater ponds: Effects of dietary protein and feeding levels. *Aquaculture*, 132(3–4): 273–283.
- Sun, L. & Chen, H.** 2009. Effects of ration and temperature on growth, fecal production, nitrogenous excretion and energy budget of juvenile cobia (*Rachycentron canadum*). *Aquaculture*, 292(3): 197–206.
- Sun, S., Ye, J., Chen, J., Wang, Y. & Chen, L.** 2010. Effect of dietary fish oil replacement by rapeseed oil on the growth, fatty acid composition and serum non-specific immunity response of fingerling black carp, *Mylopharyngodon piceus*. *Aquaculture Nutrition*, Early View (Online Version of Record published before inclusion in an issue).
- Taboada, G., Gaxiola, G., Garcia, T. & Pedroza, R.** 1998. Oxygen consumption and ammonia-N excretion related to protein requirements for growth of white shrimp, *Penaeus setiferus* (L.), juveniles. *Aquaculture Research*, 29(11): 823–833.
- Takagi, S., Murata, H., Goto, T., Hayashi, M., Hatate, H., Endo, M., Yamashita, H. & Ukawa, M.** 2006. Hemolytic suppression roles of taurine in yellowtail *Seriola quinqueradiata* fed non-fishmeal diet based on soybean protein. *Fisheries Science*, 72(3): 546–555.
- Terrazas-Fierro, M., Civera-Cerecedo, R., Ibarra-Martinez, L., Goytortua-Bores, E., Herrera-Andrade, M. & Reyes-Becerra, A.** 2010. Apparent digestibility of dry matter, protein, and essential amino acid in marine feedstuffs for juvenile whiteleg shrimp *Litopenaeus vannamei*. *Aquaculture*, 308: 166–173.
- Teixeira, E.A., Saliba, E.O.S., Euler, A.C.C., de, F.P.M.C., Crepaldi, D.V. & Ribeiro, L.P.** 2010. Coeficientes de digestibilidade aparente de alimentos energéticos para juvenis de surubim. *Revista Brasileira De Zootecnia*, 39, 6, 1180–1185.
- Thompson, K.R., Muzinic, L.A., Engler, L.S., Morton, S.-R. & Webster, C.D.** 2004. Effects of feeding practical diets containing various protein levels on growth, survival, body

composition, and processing traits of Australian red claw crayfish (*Cherax quadricarinatus*) and on pond water quality. *Aquaculture Research*, 35(7): 659–668.

Thompson, K.R., Rawles, S.D., Metts, L.S., Smith, R., Wimsatt, A., Gannam, A.L., Twibell, R.G., Johnson, R.B., Brady, Y.J. & Webster, C.D. 2008. Digestibility of dry matter, protein, lipid, and organic matter of two fish meals, two poultry by-product meals, soybean meal, and distiller's dried grains with solubles in practical diets for Sunshine Bass, *Morone chrysops* X *M. saxatilis*. *Journal of the World Aquaculture Society*, 39(3): 352–363.

Tibbetts, S.M., Milley, J.E. & Lall, S.P. 2006. Apparent protein and energy digestibility of common and alternative feed ingredients by Atlantic cod, *Gadus morhua* (Linnaeus, 1758). *Aquaculture*, 261: 1314 – 1327.

Tiffan, K.F., Kock, T.J., Connor, W.P., Steinhorst, R.K. & Rondorf, D.W. 2009. Behavioural thermoregulation by subyearling fall (autumn) Chinook salmon *Oncorhynchus tshawytscha* in a reservoir. *Journal of Fish Biology*, 74, 7, 1562 – 79.

Trieu, N.V., Long, D.N. & Lan, L.M. 2001. Effects of dietary protein levels on the growth and survival rate of snakehead (*Channa striatus* Bloch) fingerling. Japan International Research Center for Agriculture Science, available at https://www.researchgate.net/publication/266589732_Effects_of_Dietary_Protein_Levels_on_the_Growth_and_Survival_Rate_of_Snakehead_Channa_striatus_Bloch_Fingerling

Unnikrishnan, U. & Paulraj, R. 2010. Dietary protein requirement of giant mud crab *Scylla serrata* juveniles fed iso-energetic formulated diets having graded protein levels. *Aquaculture Research*, 41(2): 278 – 294.

USGS. 2005. Black Carp, *Mylopharyngodon piceus* (Richardson 1846). *Southeast Ecological Science Center*, USGS, (available at https://archive.usgs.gov/archive/sites/fl.biology.usgs.gov/Carp_ID/html/mylopharyngodon_piceus.html).

Truong, P.H. &erson, A.J., Mather, P.B., Paterson, B.D. & Richardson, N.A. 2009. Apparent digestibility of selected feed ingredients in diets formulated for the sub-adult mud crab, *Scylla paramamosain*, in Vietnam. *Aquaculture Research*, 40: 322 – 328.

Velasco, M., Lawrence, A.L., Castille, F.L. & Obaldo, L.G. 2000. Dietary protein requirement for *Litopenaeus vannamei*. In: Cruz -Suárez, L.E., Ricque-Marie, D., Tapia-Salazar, M., Olvera-Novoa, M.A. y Civera-Cerecedo, R., (Eds.). *Avances en Nutrición Acuicola V. Memorias del V Simposium Internacional de Nutrición Acuicola*. 19 – 22 Noviembre, 2000. Mérida, Yucatán, México.

Shiau, S.Y. & Chou, B.S. 1991. Effects of dietary protein and energy on growth and performance of tiger shrimp *Penaeus monodon* reared in seawater. *Nippon Suisan Gakkaishi*, 57(12): 2227 – 2276.

Smith, D.M., Tabrett, S.J. & Glencross, B.D. 2007. Growth response of the black tiger shrimp, *Penaeus monodon* fed diets containing different lupin cultivars. *Aquaculture*, 269(1): 436 – 446.

Syama Dayal, J., Ahamad Ali, S. Ambasankar, K. & Singh, P. 2003. Effect of dietary protein level on its in vitro and in vivo digestibility in the tiger shrimp *Penaeus monodon* (Crustacea: Penaeidae). *Indian Journal of Marine Sciences*, 32(2): 151-155.

Truong, P.H. 2008 *Nutrition and feeding behaviour in two species of mud crabs Scylla serrata and Scylla paramamosain*. Thesis (Ph.D.)-Queensland University of Technology, Brisbane, 2008.

Truong, P.H. Anderson, A.J., Mather, P.B., Paterson, B.D. & Richardson, N.A. 2009. Apparent digestibility of selected feed ingredients in diets formulated for the sub-adult mud crab, *Scylla paramamosain*, in Vietnam. *Aquaculture Research*, 40(3): 322 – 328.

Turano, M.J., Davis, D.A. & Arnold, C.R. 2002. Optimization of growout diets for red drum, *Sciaenops ocellatus*. *Aquaculture Nutrition*, 8(2): 95 – 101.

- Vijayagopal, P., Philip, B. & Sathianandan, T.V.** 2008. Evaluation of compounded feeds with varying protein: energy ratios for the Indian white shrimp *Fenneropenaeus indicus*. *Journal Marine Biological Association of India*, 50(2): 202 – 208.
- Wang, G.-Y., Zeng, K.-W., Gao, Y.-A., Li, Q. & Xia, R.-L.** 2005. The optimum dietary protein level for *Siniperca chuatsi*. *Acta Hydrobiologica Sinica*, 2005-02 (available at http://en.cnki.com.cn/Article_en/CJFDTOTAL-SSWX200502014.htm).
- Williams, K.C., Irvin, S. & Barclay, M.** 2004. Polka dot grouper *Cromileptes altivelis* fingerlings require high protein and moderate lipid diets for optimal growth and nutrient retention. *Aquaculture Nutrition*, 10(2): 125 – 134.
- Williams, T.N.** 2008. *An assessment of alternative feed ingredients in practical diets for Florida pompano (Trachinotus carolinus) held in low salinity recirculating systems*. Thesis (M.S.) in Marine Bio-Resources-University of Maine, 2008.
- Wilson, R.P., Robinson, E.H. & Poe, W.E.** 1981. Apparent and true availability of amino acids from common feed ingredients for channel catfish. *Journal of Nutrition*. 111: 923–929.
- World Congress on Vegetable Protein Utilization in Human Foods and Animal Feedstuffs, Applewhite, T.H. & Kraft, inc.** 1989. *Proceedings of the World Congress on Vegetable Protein Utilization in Human Foods and Animal Feedstuffs*. Champaign, Ill: American Oil Chemists' Society.
- Xie, S., He, X. & Yang, Y.** 1998. Effects on growth and feed utilization of Chinese longsnout catfish *Leiocassis longirostris* Günther of replacement of dietary fishmeal by soybean cake. *Aquaculture Nutrition*, 4: 187–192.
- Yamamoto, T., Unuma, T. & Akiyama, T.** 1998. Apparent availabilities of amino acids from several protein sources for fingerling Japanese flounder. *Bull. Natl. Res. Inst. Aquacult.*, 27: 27–35.
- Yuan, Y.-C., Gong, S.-Y., Yang, H.-J., Luo, Z., Lin, Y.-C. & Yu, D.-H.** 2010. Apparent digestibility of selected feed ingredients for Chinese sucker, *Myxocyprinus asiaticus*. *Aquaculture*, 306: 238 – 243.
- Zeitoun, I.H., Ullrey, D.E., Halver, J.E. Tack, P.I. & Magee, W.T.** 1974. Influence of salinity on protein requirements of Coho Salmon (*Oncorhynchus kisutch*) smolts. *Journal of the Fisheries Research Board of Canada*, 31: 1145 – 1148.
- Zhang, G., Gong, S., Yuan, Y., Chu, Z. & Yuan, H.** 2009. Dietary protein requirement for juvenile Chinese sucker (*Myxocyprinus asiaticus*). *Journal of Applied Ichthyology*, 25(6): 715–718.
- Zhou, Q.-C., Tan, B.-P., Mai, K.-S. & Liu, Y.-J.** 2004. Apparent digestibility of selected feed ingredients for juvenile cobia *Rachycentron canadum*. *Aquaculture*, 241(1): 441 – 451.