

Trang Si Trung
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Rectorate Board
Nha Trang University
02 Nguyen Dinh Chieu St., Nha Trang City, Vietnam

EDUCATION

Norwegian University of Science and Technology (NTNU), Trondheim, Norway

Post Doctoral Research on Marine Biopolymer (2010)

Asian Institute of Technology, Thailand

Doctor of Technical Science in Bioprocess Technology, 1999-2003

Master of Science in Bioprocess Technology, 1997- 1999

Nha Trang University, Nha Trang, Vietnam

Eng. in Seafood Processing Technology, 1989-1994

RESEARCH INTERESTS

- Bioprocess
- Marine Biopolymer
- Seafood Processing Technology

RESEARCH EXPERIENCE

- Researcher of the project: “Advanced utilization of chitosan extracted from shrimp waste in Vietnam” (2009-2010) funded by SRV 2701 project - the Norwegian Government support for Nha Trang University.
- Principal researcher of the project: “Protein recovery from blood wastewater of Pangasius fillet processing” (2008-2010) funded by Vietnamese Ministry of Education and Training.
- Principle researcher of the project: “Recovery of valuable components from shrimp processing waste” (2007-2009) funded by International Foundation of Science (IFS), Sweden.
- Principal researcher of the project: “Using the combination of biotechnology methods of improving the efficiency of utilization of shrimp waste” (2006-2007) funded by Vietnamese Ministry of Education and Training.
- Researcher of project funded by the Royal Norwegian Government: “Seafood safety assessment of some selected aquaculture species in the Van Phong Bay and Nha Trang Bay of Khanh Hoa province in Vietnam.
- Principal researcher of the project: “Application of chitosan for improving the stability of shrimp feed” (2004-2005) funded by University of Fisheries, Vietnam.

TEACHING RESPONSIBILITY

Undergraduate

- Biotechnology for vitamins, pigments and elicitors
- Food Processing Equipment
- Research methodology

Graduate

- Separation Process in Food Industry

PUBLICATIONS and PRESENTATIONS (selected)

International and National Journals

1. Trang Si Trung, Pham Thi Dan Phuong, 2012. Bioactive Compounds from By-products of Shrimp Processing Industry in Vietnam. *Journal of Food and Drug Analysis*, 20, Suppl. 1, 194-197.
2. Trung, T.S., Phuong, N.T.H., Stevens, W.F., 2011. Protective effect of chitosan coating and polyethylene film wrapping on postharvest storage of sugar-apples. *Asian Journal of Food and Agro-Industry*, 81-90.
3. Trang Si Trung, Stevens Frans Willem, 2010. Recovery of chitin and protein from shrimp waste. *Journal of Fishery Science and Technology*, 2, 3-10.
4. Trang Si Trung, Nguyen Thi Qui, Stevens Frans Willem, 2009. Properties of different degree of deacetylation shrimp chitosan films affected by organic acid solvents. *Journal of Fishery Science and Technology, Special volume*, 136-140.
5. Trang Si Trung, Nguyen Cong Minh, Ma Huy, 2009. Protein recovery from blood wastewater of *Pangasius* fillet processing. *Journal of Fishery Science and Technology, Special volume*, 121-126. (in Vietnamese).
6. Trang Si Trung, Ngo Thi Hoai Duong, Pham Thi Dan Phuong, 2008. Combining pretreatment by formic acid in shrimp waste utilization for improving quality of chitin-chitosan. *Journal of Fishery Science and Technology*, 4, 13-16. (in Vietnamese).
7. Nguyen Minh Xuan Hong, Trang Si Trung, W. F. Stevens, 2005. Evaluation of decrystallized chitosan from shrimp shells for treatment of wastewater from textile factories. *Journal of Forestry Science and Technology*, 1, 58-63. (in Vietnamese)
8. Pham Thi Dan Phuong, Pham Thi Minh Hai, Trang Si Trung, Trinh Van Lien, Ngo Van Luc, 2008. Processing carotenoprotein recovered from chitin production for utilization in preparation of fish feed. *Journal of Fishery Science and Technology*, 2, 37-43. (in Vietnamese)
9. Trang Si Trung, Nguyen Thi Phuong, Pham Thi Minh Hai, Pham Thi Dan Phuong, 2008. Research on using chitosan on protein recovery from surimi wash water. *Journal of Fishery Science and Technology*, 2, 25-30. (in Vietnamese)

10. Trang Sĩ Trung, 2008. Research on purification of chitosan from shrimp waste. *Journal of Fishery Science and Technology*, 1, 14-18. (in Vietnamese)
11. Trang Si Trung, Vu Ngoc Boi, Pham Thi Dan Phuong, 2007. Research on combining enzyme protease in chitin production from shrimp waste. *Journal of Fishery Science and Technology*, 3, 11-17. (in Vietnamese)
12. Trang Si Trung, Pham Thi Dan Phuong, 2005. Research on using chitosan for improving the stability of shrimp feed. *Journal of Fishery Science and Technology*, 4, 18-22. (in Vietnamese)
13. Ngo Dang Nghia, Bjorn Tore Lunestad, Trang Si Trung, Nguyen Thanh Son, Amund Maage, 2009. Heavy metals in the farming environment and in some selected aquaculture species in the Van Phong Bay and Nha Trang Bay of Khanh Hoa province in Vietnam. *Bull Environ Contam Toxicol*, 82, 75-79.
14. Mukku Shrinivas Rao, Kyaw Aye Nyein, Trang Si Trung and Willem F. Stevens, 2007. Optimum parameters for production of Chitin and Chitosan from Squilla (*S. empusa*). *Journal of Applied Polymer Science*, 103, 3694-3700.
15. Toan, N.V., Ng, C.H., Aye, K.N., Trung, T.S., Stevens, W.F., 2006. Production of high quality chitin and chitosan from preconditioned shrimp shells. *Journal of Chemical Technology and Biotechnology*, 81,7, 1113-1118.
16. Ilankovan, P., San Hein, Ng, C.H., Trung, T.S., Stevens, W.F., 2006. Production of N-acetyl chitobiose from various chitin substrates using commercial enzymes. *Carbohydrate Polymers*, 63, 245-250.
17. Trung, T.S., Thein-Han, W.W., Qui, N. T., Ng, C.H., Stevens, W. F., 2006. Functional characteristics of shrimp chitosan and its membranes as affected by the degree of deacetylation. *Bioresource Technology*, 97, 659-663.
18. Trung, T.S., Ng, C.H., Stevens, W.F., 2003. Characterization of decrystallized chitosan and its application in biosorption of textile dyes. *Biotechnology Letters*, 25, 1185–1190.

Conference papers

1. Trang Si Trung, Phung The Trung, Ngo Dang Nghia, 2012. Recent developments in seaweed cultivation and utilization in Vietnam. The 2nd International Symposium on seaweed biomass production and bioenergy. Busan, Korea.
2. Trang Si Trung, Ngo Dang Nghia, 2011. Characterization of chitin and chitosan from white shrimp (*Penaeus vannamei*) waste in Vietnam. Proceeding of The 10th International Conference of The European Chitin Society- Russia.
3. Trang Si Trung, Willem Frans Stevens, 2011. The innovative treatment of shrimp waste for value added products. The 2nd NRCT-IFS Workshop on research advances in natural products, food science and nutrition – Thailand.
4. Trang Si Trung, 2010. The innovative utilization of fishery by-products in Vietnam. The proceedings of the FFTC-KU joint seminar on “Improved utilization of fishery by-products as potential nutraceuticals and functional foods” – Thailand.

5. Trang Si Trung, Pham Thi Dan Phuong, W. F. Stevens, 2007. Purification of shrimp chitosan by regeneration from various acid solutions. Proceedings 11st National Symposium on the efficient application and preservation of marine biological resources, 112-115.
6. Hein S, Visetkun Y, Manopwisedjaroen K, Subedi S, Trung TS, New N and Stevens WF. 2007. Investigation on partially deacetylated chitin: phosphoric acid - UV assay of degree of acetylation and swelling characteristics. Advances in Chitin Science S.Şenel, K.M.Vårum, M.M. Şumnu, A.A. Hincal, Eds.10, 25-31.
7. Stevens , W.F. Toan, N. V.,Trang S.T. and Aye K.N., 2004. Advances in isolation of highly functional chitin and chitosan. Proceedings 6th Asia Pacific Symposium Singapore ISBN 981 05 0904 9.
8. Trung,T.S. , NG, C-H, Chandkrachang, S., Stevens W.F., 2003. Characterization of decrystallized chitosan and its application in biosorption of textile dyes.Proceedings 8th Intern. Conference Chitin and Chitosan Montreal, 248-250.
9. Trung, T.S., Ng, C-H, Stevens, W.F., 2003. Preparation of decrystallized chitosan from shrimp shell waste and its application in the decolorization of textile waste water. Proceedings National Chitosan Conference Chulalongkorn University Thailand, 92-95.
10. Trung, T.S. ,Ng, C-H, Chandkrachang, S, Stevens, W.F., 2002. Effect of dissolution and recipitation by various acid solvents on chitosan properties. Advances in Chitin Science 5. Proceedings 5th Asia Pacific Chitin and Chitosan Symposium Bangkok 108-110.