

TÀI LIỆU THAM KHẢO

- Alam, M. A., Wan, C., Guo, S. L., Zhao, X. Q., Huang, Z. Y., Yang, Y. L., Chang, J. S., & Bai, F. W. (2014). Characterization of the flocculating agent from the spontaneously flocculating microalga *Chlorella vulgaris* JSC-7. *Journal of Bioscience and Bioengineering*, 118(1), 29–33. <https://doi.org/10.1016/j.jbiosc.2013.12.021>
- Arora, S., Kumar, A., Ogita, S., & Yau, Y.-Y. (2022). *Innovations in Environmental Biotechnology*. Springer.
- Bleeke, F., Milas, M., Winckelmann, D., & Klöck, G. (2015). Optimization of freshwater microalgal biomass harvest using polymeric flocculants. *International Aquatic Research*, 7, 235–244.
- Chân Bắc, T. (n.d.). *Nghiên Cứu Hiệu Quả Kỹ Thuật Nuôi Sinh Khối Tảo Chlorella Sp. Sử Dụng Nước Thải Từ Ao Nuôi Cá Tra*. Title: *Technical efficiency of Chlorella sp. algae biomass culture using wastewater from Pangasianodon hypophthalmus ponds*.
- Detrell, G. (2021). *Chlorella vulgaris* photobioreactor for oxygen and food production on a moon base—Potential and challenges. *Frontiers in Astronomy and Space Sciences*, 8, 700579.
- Esser, K., & Kües, U. (1983). Flocculation and its implication for biotechnology. *Process Biochemistry*, 18(6), 21–23.
- Fan, X., Bai, L., Zhu, L., Yang, L., & Zhang, X. (2014). Marine algae-derived bioactive peptides for human nutrition and health. *Journal of Agricultural and Food Chemistry*, 62(38), 9211–9222.
- Feng Y, Li C, Zhang D. Lipid production of *Chlorella vulgaris* cultured in artificial wastewater medium. *Bioresour Technol* 2011;102:101–5. (n.d.).
- Fradique, M., Batista, A. P., Nunes, M. C., Gouveia, L., Bandarra, N. M., & Raymundo, A. (2010). Incorporation of *Chlorella vulgaris* and *Spirulina maxima* biomass in pasta products. Part 1: Preparation and evaluation. *Journal of the Science of Food and Agriculture*, 90(10), 1656–1664.
- González LE, Cañizares RO, Baena S. Efficiency of ammonia and phosphorus removal from a colombian agroindustrial wastewater by the microalgae *Chlorella vulgaris* and *Scenedesmus dimorphus*. *Bioresour Technol* 1997;60: 259–62187]. (n.d.).
- Gunning, D., Maguire, J., & Burnell, G. (2016). The development of sustainable saltwater-based food production systems: a review of established and novel concepts. *Water*, 8(12), 598.
- Keffer JE, Kleinheinz GT. Use of *Chlorella vulgaris* for CO(2) mitigation in a photobioreactor. *J Ind Microbiol Biotechnol* 2002;29:275–80. (n.d.).

- Koley, S., Prasad, S., Bagchi, S. K., & Mallick, N. (2017). Development of a harvesting technique for large-scale microalgal harvesting for biodiesel production. *RSC Advances*, 7(12), 7227–7237.
- Lâm, V. T., Nguyễn, P. T., Nguyễn, C. D., Phạm, T. T. V., & Trần, T. (2022). Ứng dụng công nghệ vi tảo loại bỏ đạm và lân trong nước thải ao nuôi tôm. *Can Tho University Journal of Science*, 58(3), 126–131. <https://doi.org/10.22144/ctu.jvn.2022.084>
- Li, H.-B., Jiang, Y., & Chen, F. (2002). Isolation and purification of lutein from the microalga *Chlorella vulgaris* by extraction after saponification. *Journal of Agricultural and Food Chemistry*, 50(5), 1070–1072.
- Mai, P. T., Thị, Đ., Hòa, B., Thuận, T. Đ., Thị Hường, N., Thị, P., Hương, M., & Tùng, N. Q. (n.d.). *Nghiên Cứu Các Phương Pháp Thu Hoạch Tảo Chlorella Sorokiniana Và Scenedesmus Acuminatus Nuôi Trong Nước Thải Đô Thị Study On The Harvesting Methods Of Chlorella Sorokiniana And Scenedesmus Acuminatus Cultured In Municipal Wastewater.*
- Mubarak, M., Shaija, A., & Suchithra, T. V. (2020). Evaluation of ferric chloride and electroflocculation of *Chlorella pyrenoidosa* and reuse of the culture medium for subsequent cultures. *Journal of Environmental Chemical Engineering*, 8(1). <https://doi.org/10.1016/j.jece.2019.103612>
- Ngọc, T. S., Thị, H., Hiền, N., Thị, P., Ngân, T., Thủy, K., Đại, T., & Thơ, C. (2017). Khả Năng Phát Triển Của Tảo *Chlorella* Sp. Trong Điều Kiện Dị Dưỡng. Title: Development of *Chlorella* sp. in heterotrophic cultivation. *Phần B*, 50, 127–132. <https://doi.org/10.22144/jvn.2017.045>
- Panahi, Y., Darvishi, B., Jowzi, N., Beiraghdar, F., & Sahebkar, A. (2016). *Chlorella vulgaris*: a multifunctional dietary supplement with diverse medicinal properties. *Current Pharmaceutical Design*, 22(2), 164–173.
- Pugazhendhi, A., Shobana, S., Bakonyi, P., Nemestóthy, N., Xia, A., & Banu J, R. (2019). A review on chemical mechanism of microalgae flocculation via polymers. In *Biotechnology Reports* (Vol. 21). Elsevier B.V. <https://doi.org/10.1016/j.btre.2018.e00302>
- Pushparaj, B., Pelosi, E., Torzillo, G., & Materassi, R. (1993). Microbial biomass recovery using a synthetic cationic polymer. *Bioresource Technology*, 43(1), 59–62.
- Safi, C., Zebib, B., Merah, O., Pontalier, P.-Y., & Vaca-Garcia, C. (2014). Morphology, composition, production, processing and applications of *Chlorella vulgaris*: A review. *Renewable and Sustainable Energy Reviews*, 35, 265–278.
- Singh A, Nigam PS, Murphy JD. *Renewable fuels from algae: an answer to debatable land based fuels. Bioresour Technol* 2011;102:10–6. (n.d.).

- Thi Thu Huong, T., & Thi Thuy, D. (2017). <title/>. *VNU Journal of Science: Natural Sciences and Technology*, 33(1S). <https://doi.org/10.25073/2588-1140/vnunst.4644>
- Van Haver, L., & Nayar, S. (2017). Polyelectrolyte flocculants in harvesting microalgal biomass for food and feed applications. *Algal Research*, 24, 167–180.
- Vandamme, D., Foubert, I., Fraeye, I., & Muylaert, K. (2012). Influence of organic matter generated by *Chlorella vulgaris* on five different modes of flocculation. *Bioresource Technology*, 124, 508–511. <https://doi.org/10.1016/j.biortech.2012.08.121>
- Walker TL, Purton S, Becker DK, Collet C. *Microalgae as bioreactors. Plant Cell. Rep* 2005;24:629–41. (n.d.).
- Yun, H., Kim, I., Kwon, S.-H., Kang, J.-S., & Om, A.-S. (2011). Protective effect of *Chlorella vulgaris* against lead-induced oxidative stress in rat brains. *Journal of Health Science*, 57(3), 245–254.

PHỤ LỤC

Bảng A.1. Nồng độ dung dịch muối vô cơ và chitosan tối ưu trong quá trình lắng tạo CV

Nhân tố cố định	Nhân tố khảo sát				
	Chất tạo keo tụ	Thời gian tạo keo (phút)	Nồng độ keo tụ tối ưu (mg/L)	Hiệu suất kết bông (H%)	Hiệu suất keo tụ (T %)
pH = 9; t = 37°C	FeCl ₃	20	200	2.36	97.5
	FeSO ₄	60	150	2.5	100
	AlCl ₃	20	70	7	98
	Al ₂ (SO ₄) ₃	20	150	7.5	97.5
	Chitosan	10	15	1.67	99