

DAFTAR PUSTAKA

- Ahmad, A. L., Yasin, N. H., & Kim, J. K. (2014). Comparison of harvesting methods for microalgae Chlorella sp. and its potential use as biodiesel feedstock. *Environmental Technology*, 35(17), 2244-2253. doi:10.1080/09593330.2014.900117
- Akyol, A., Can, O. T., Demirbas, E., & Kobya, M. (2013). A comparative study of electrocoagulation and electro-Fenton for treatment of wastewater from liquid organic fertilizer plant. *Separation and Purification Technology*, 112, 11-19. doi:10.1016/j.seppur.2013.03.036
- Azmi, A. S., Aziz, N. A., Puad, N. I., Halim, A. A., Yusof, F., & Yusup, S. (2018). Chlorella vulgaris logistic growth kinetics model in high concentrations of aqueous ammonia. *IJUM Engineering Journal*, 19(2), 1-9. doi:10.31436/ijumej.v19i2.893
- Borowitzka, M. A. (2016). Systematics, Taxonomy and Species Names: Do They Matter? Dalam M. A. Borowitzka, J. Beardall, & J. A. Raven, *The Physiology of Microalgae* (hal. 655-681). Switzerland: Springer International Publishing Switzerland
- Cabanelas, I. T., Ruiz, J., Arbib, Z., Chinalia, F. A., Garrido-Perez, C., Rogalla, F., . . . Perales, J. A. (2013). Comparing the use of different domestic wastewaters for coupling microalgal production and nutrient removal. *Bioresource Technology*, 131, 429-436. doi:10.1016/j.biortech.2012.12.152
- Chaudhary, R., Tong, Y. W., & Dikshit, A. K. (2018). Kinetic study of nutrients removal from municipal wastewater by Chlorella vulgaris in photobioreactor supplied with CO₂-enriched air. *Environmental Technology*, 41(5), 617-626. doi:10.1080/09593330.2018.1508250
- Chen, C.-Y., Kuo, E.-W., Nagarajan, D., Ho, S.-H., Dong, C.-D., Lee, D.-J., & Chang, J.-S. (2020). Cultivating Chlorella sorokiniana AK-1 with swine wastewater for simultaneous wastewater treatment and algal biomass production. *Bioresource Technology*, 302. doi:10.1016/j.biortech.2020.122814
- Chiu, S.-Y., Kao, C.-Y., Chen, T.-Y., Chang, Y.-B., Kuo, C.-M., & Lin, C.-S. (2014). Cultivation of microalgal Chlorella for biomass and lipid production using wastewater as nutrient resource. *Bioresrouce Technology*, 184, 179-189. doi:10.1016/j.biortech.2014.11.080
- Choi, H.-J. (2016). Parametric study of brewery wastewater effluent treatment using Chlorella vulgaris microalgae. *Environmental Engineering Research*, 21(4), 401-408. doi:10.4491/eer.2016.024

- Choi, H.-J., & Lee, S.-M. (2013). Performance of Chlorella vulgaris for the removal of ammonia-nitrogen from wastewater. *Environmental Engineering Research*, 18(4), 235-239. doi:10.4491/eer.2013.18.4.235
- Choi, Y.-Y., Baek, S.-R., Kim, J.-I., Choi, J.-W., Hur, J., Lee, T.-U., Park, C.-J., Lee, B. J. (2017). Characteristics and biodegradability of wastewater organic matter in municipal wastewater treatment plants collecting domestic wastewater and industrial discharge. *Water*, 9(6), 409. doi:10.3390/w9060409
- Coady, D., Parry, I., Le, N. P., & Shang, B. (2019). Global fossil fuel subsidies remain large:an update based on country-level estimates. *International Monetary Fund*
- Converti, A., Casazza, A. A., Ortiz, E. Y., Perego, P., & Borghi, M. D. (2009). Effect of temperature and nitrogen concentration on the growth and lipid content of *Nannochloropsis oculata* and *Chlorella vulgaris* for biodiesel production. *Chemical Engineering and Processing*, 48, 1146-1151. doi:10.1016/j.cep.2009.03.006
- de-Bashan, L. E., & Bashan, Y. (2010). Immobilized microalgae for removing pollutants: Review of practical aspects. *Bioresource Technology*, 101(6), 1611-1627. doi:10.1016/j.biortech.2009.09.043
- Delgadillo-Mirquez, L., Lopes, F., Taidi, B., & Pareau, D. (2016). Nitrogen and phosphate removal from wastewater with a mixed microalgae and bacteria culture. *Biotechnology Reports*, 11, 18-26. doi:10.1016/j.btre.2016.04.003
- Dianursanti, Rizkytata, B. T., Gumelar, M. T., & Abdullah, T. H. (2014). Industrial tofu wastewater as a cultivation medium of microalgae *Chlorella vulgaris*. *Energy Procedia*, 47, 56-61. doi:10.1016/j.egypro.2014.01.196
- Dortch, Q. (1990). The interaction between ammonium and nitrate uptake in phytoplankton. *Marine Ecology Progress Series*, 61, 183-201.
- Elhafiz, A. A., Elhafiz, A. A., Gaur, S. S., Hamdany, N., Osman, M., & Lakshmi, T. V. (2015). *Chlorella vulgaris* and *Chlorella pyrenoidosa* live cells appear to be promising sustainable biofertilizre to grow rice, lettuce, cucumber and eggplant in te UEA soils. *Recent Research in Science and Technology*, 7, 14-21. doi:10.19071/rrst.2015.v7.2919
- Elvitriana, Munir, E., Delvian, & Wahyuningsih, H. (2017). Degradasi Zat Organik Pada Limbah Cair Industri Kelapa Sawit Oleh Mikroalga Hijau. *Jurnal Serambi Engineering*, 1(2), 109-113
- Emparan, Q., Harun, R., & Danquah, M. (2019). Role of phycoremediation for nutrient removal from wastewaters: a review. *Applied Ecology and Environmental Research*, 17(1), 889-915. doi:10.15666/aeer/1701_889915
- Ferrari, R. (2015). Writing narrative style literature reviews. *Medical Writing*, 24(4), 230-235
- Gao, F., Yang, H.-L., Li, C., Peng, Y.-Y., Lu, M.-M., Jin, W.-H., Bao, J.-J., Guo, Y.-M. (2019). Effect of organic carbon to nitrogen ratio in wastewater on growth, nutrient uptake and lipid accumulation of a mixotrophic microalgae *Chlorella* sp. *Bioresource Technology*, 282, 118-124. doi:10.1016/j.biortech.2019.03.011
- Gupta, S. K., & Bux, F. (2019). *Application of Microalgae in Wastewater Treatment*. Switzerland: Springer

- Gupta, S. K., Ansari, F. A., Shriwastav, A., Sahoo, N. K., Rawat, I., & Bux, F. (2016). Dual role of Chlorella sorokiniana and Scenedesmus obliquus for comprehensive wastewater treatment and biomass production for bio-fuels. *Cleaner Production*, 115(1), 255-265. doi:10.1016/j.clepro.2015.12.040
- Henrard, A. A., Rosa, G. M., Moraes, L., Morais, M. G., & Costa, J. A. (2014). Effect of the carbon concentration, blend concentration, and renewal rate in the growth kinetic of Chlorella sp. *The Scientific World Journal*, 2014. doi:10.1155/2014/205184
- Henze, M., & Comeau, Y. (2008). Wastewater Characterization. In *Biological Wastewater Treatment: Principles modelling and design* (pp. 33-52). IWA Publishing
- Hogg, S. (2005). *Essential Microbiology*. England: John Wiley & Sons
- Hongyang, S., Yalei, Z., Chunmin, Z., Xuefei, Z., & Jinpeng, L. (2011). Cultivation of Chlorella pyrenoidosa in soybean processing wastewater. *Bioresource Technology*, 102(21), 9884-9890. doi:10.1016/j.biortech.2011.08.016
- Janie, D. N. (2012). *Statistik Deskriptif & Regresi Linear Berganda Dengan SPSS*. Semarang: Semarang University Press
- Jia, X., Jin, D., Li, C., & Lu, W. (2018). Characterization and analysis of petrochemical wastewater through particle size distribution, biodegradability, and chemical composition. *Chinese Journal of Chemical Engineering*, 27(2), 444-451. doi:10.1016/j.cjche.2018.04.030
- Juneja, A., Ceballos, R. M., & Murthy, G. S. (2013). Effects of environmental factors and nutrient availability on the biochemical composition of algae for biofuels production: a review. *Energies*, 6(9), 4607-4638. doi:10.3390/en6094607
- Junying, Z., Junfeng, R., & Baoning, Z. (2013). Factors in mass cultivation of microalgae for biodiesel. *Chinese Journal of Catalysis*, 34(1), 80-100. doi:10.1016/S1872-2067(11)60497-X
- Khalid, A. A., Yaakob, Z., Abdullah, S., & Takriff, M. (2019). Assessing the feasibility of microalgae cultivation in agricultural wastewater: The nutrient characteristics. *Environmental Technology & Innovation*, 15. doi:10.1016/j.eti.2019.100402
- Khalili, A., Najafpour, G. D., Amini, G., & Samkhaniyani, F. (2015). Influence of Nutrients and LED Light Intensities on Biomass Production of Microalgae Chlorella vulgaris. *Biotechnology and Bioprocess Engineering*, 20(2), 284-290. doi:10.1007/s12257-013-0845-8
- Khan, M. I., Shin, J. H., & Kim, J. D. (2018). The Promising Future of Microalgae: current status, challenges, and optimization of a sustainable and renewable industry for biofuels, feed, and other products. *Microbial cell factories*, 17(1), 36. Diambil dari <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5836383/>
- Khoeysi, Z. A., Seyfabadi, J., & Ramezanpour, Z. (2012). Effect of light intensity and photoperiod on biomass and fatty acid composition of the microalgae, Chlorella vulgaris. *Aquaculture International*, 20(1), 41-49. doi:10.1007/s10499-011-9440-1
- Kim, H. S., Park, W.-K., Lee, B., Seon, G., Suh, W. I., Moon, M., & Chang, Y. K. (2019). Optimization of heterotrophic cultivation of Chlorella sp. HS2 using

- screening, statistical assessment, and validation. *Scientific Reports*. doi:<https://dx.doi.org/10.1038%2Fs41598-019-55854-9>
- Klinthong, W., Yang, Y.-H., Huang, C.-H., & Tan, C.-S. (2015). A review: microalgae and their applications in CO₂ capture and renewable energy. *Aerosol and Air Quality Research*, 15, 712-742. doi:10.4209/aaqr.2014.11.0299
- Kurniati, D. R. (2003). Pemisahan mikroalga dari limbah cair industri tapioka dengan menggunakan membran filtrasi. Bogor: Institut Pertanian Bogor
- Kwon, G., Nam, J.-H., Kim, D.-M., Song, C., & Jahng, D. (2020). Growth and nutrient removal of Chlorella vulgaris in ammonia-reduced raw and anaerobically-digested piggery wastewaters. *Environmental Engineering Research*, 25(2), 135-146. doi:10.4491/eer.2018.442
- Lee, E., Jalalizadeh, M., & Zhang, Q. (2015). Growth kinetic models for microalgae cultivation: A review. *Algal Research*, 12, 497-512. doi:10.1016/j.algal.2015.10.004
- Li, C., Yu, Y., Zhang, D., Liu, J., Ren, N., & Feng, Y. (2015). Combined effects of carbon, phosphorus and nitrogen on lipid accumulation of Chlorella vulgaris in mixotrophic culture. *Journal of Chemical Technology & Biotechnology*, 91(3), 680-684. doi:10.1002/jctb.4623
- Li, Y., Chen, Y.-F., Chen, P., Min, M., Zhou, W., Martinez, B., Zhu, J., Ruan, R. (2011). Characterization of a microalga Chlorella sp. well adapted to highly concentrated municipal wastewater for nutrient removal and biodiesel production. *Bioresource Technology*, 102(8), 5138-5144. doi:10.1016/j.biortech.2011.01.091
- Liu, X., Ying, K., Chen, G., Zhou, C., Zhang, W., Zhang, X., Zhonghua, H., Tao, Y. (2017). Growth of Chlorella vulgaris and nutrient removal in the wastewater in response to intermittent carbon dioxide. *Chemosphere*, 186, 977-985. doi:10.1016/j.chemosphere.2017.07.160.
- Lu, W., Wang, Z., Wang, X., & Yuan, Z. (2015). Cultivation of Chlorella sp. using raw dairy wastewater for nutrient removal and biodiesel production: Characteristics comparison of indoor bench-scale and outdoor pilot-scale cultures. *Bioresource Technology*, 192, 382-388. doi:10.1016/j.biortech.2015.05.094
- Madadi, R., Pourbabae, A., Tabatabaei, M., Zahed, M., & Naghavi, R. (2016). Treatment of petrochemical wastewater by the green algae Chlorella vulgaris. *International Journal of Environmental Research*, 10(4), 555-560. doi:10.22059/IJER.2016.59684
- Manalu, S. (2010). Karakterisasi Pertumbuhan Mikroalga dan Eliminasi Nutrien Dari Limbah Cair Peternakan dengan Sistem Semi Kontinu. Bogor: Institut Pertanian Bogor
- Marazzi, F., Belluci, M., Fantasia, T., Ficara, E., & Mezzanotte, V. (2020). Interactions between microalgae and bacteria in the treatment of wastewater from milk whey processing. *Water*, 12(1), 297. doi:10.3390/w12010297
- Markou, G., Depraetere, O., & Muylaert, K. (2016). Effect of ammonia on the photosynthetic activity of Arthrospira and Chlorella: A study on chlorophyll fluorescence and electron transport. *Algal Research*, 16, 449-457. doi:10.1016/j.algal.2016.03.039

- Medipally, S. R., Yusoff, F. M., Banerjee, S., & Shariff, M. (2015). Microalgae as sustainable renewable energy feedstock for biofuel production. *BioMed Research International*, 2015. doi:10.1155/2015/519513
- Metcalf, & Eddy. (1991). *Wastewater and Engineering*. New York: McGraw Hill
- Mihelcic, J. R. (1999). *Fundamentals of Environmental Engineering*. John Wiley & Sons
- Milano, J., Ong, H. C., Masjuki, H., Chong, W., Lam, M. K., Loh, P. K., & Vellayan, V. (2016). Microalgae biofuels as an alternative to fossil fuel for power generation. *Renewable and Sustainable Energy Reviews*, 58, 180-197. doi:10.1016/j.rser.2015.12.150
- Min, M., Wang, L., Li, Y., Mohr, M. J., Hu, B., Zhou, W., Zhen, P., Ruan, R. (2011). Cultivating Chlorella sp. in a pilot-scale photobioreactor using centrate wastewater for microalgae biomass production and wastewater nutrient removal. *Applied Biochemistry Biotechnology*, 165(1), 123-137. doi:10.1007/s12010-011-9238-7
- Moheimani, N. R. (2013). Inorganic carbon and pH effect on growth and lipid productivity of Tetradselmis suecica and Chlorella sp (Chlorophyta) grown outdoors in a bag photobioreactors. *Journal of Applied Phycology*, 25(2), 387-398. doi:10.1007/s10811-012-9873-6
- Mokashi, K., Shetty, V., George, S. A., & Sibi, G. (2016). Sodium bicarbonate as inorganic carbon source for higher biomass and lipid production integrated carbon capture in chlorella vulgaris. *Achievements in the Life Sciences*, 10(1), 111-117. doi:10.1016/j.als.2016.05.011
- Moondra, N., Jariwala, N. D., & Christian, R. A. (2020). Sustainable treatment of domestic wastewater through microalgae. *International Journal of Phytoremediation*, 1-7. doi:10.1080/15226514.2020.1782829
- Nugroho, W. A., Hermanto, M. B., Lutfi, M., & Fakhri, M. (2014). Phosphorus removal of tofu processing wastewater in recirculated raceway pond bioreactor by Chlorella vulgaris. *Nature Environment and Pollution Technology*, 13(4), 859-863
- Pagnanelli, F., Altimari, P., Trabucco, F., & Toro, L. (2013). Mixotrophic growth of Chlorella vulgaris and Nannochloropsis oculata: interaction between glucose and nitrate. *Journal of Chemical Technology & Biotechnology*, 89(5), 652-661. doi:10.1002/jctb.4179
- 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. doi:10.2174/1381612822666151112145226
- Peraturan Menteri Lingkungan Hidup No. 68 Tahun 2016 tentang Baku Mutu Air Limbah Domestik. (2016)
- Phosphorus*. (2012, Maret). Diambil kembali dari Environmental Protection Agency: <https://archive.epa.gov/water/archive/web/html/vms56.html>
- Posten, C. (2016). *Microalgae Biotechnology*. Switzerland: Springer International Publishing.
- Priya, K. S., Burman, I., Tarafdar, A., & Sinha, A. (2018). Impact of ammonia nitrogen on COD removal efficiency in anaerobic hybrid membrane

- bioreactor treating synthetic leachate. *International Journal of Environmental Research*, 13, 59-65. doi:10.1007/s41742-018-0153-4
- Qin, L., Shu, Q., Wang, Z., Shang, C., Zhu, S., Xu, J., Li, R., Zhu, R., Yuan, Z. (2014). Cultivation of Chlorella vulgaris in dairy wastewater pretreated by UV irradiation and sodium hypochlorite. *Applied Biochemistry & Biotechnology*, 172(2), 1121-1130. doi:10.1007/s12010-013-0576-5
- Ren, H., Tuo, J., Addy, M. M., Zhang, R., Lu, Q., Anderson, E., Chen, P., Ruan, R. (2017). Cultivation of Chlorella vulgaris in a pilot-scale photobioreactor using real centrate wastewater with waste glycerol for improving microalgae biomass production and wastewater nutrients removal. *Bioresource Technology*, 245(A), 1130-1138. doi:10.1016/j.biortech.2017.09.040
- Rofidi, M. I. (2017). Commercial fertilizer as cheaper alternative culture medium for microalgal growth (Chlorella sp.) (Thesis). *Universiti Malaysia Terengganu*
- Rosenberg, J., Mathias, A., Korth, K., Betenbaugh, M., & Oyler, G. (2011). Microalgal biomass production and carbon dioxide sequestration from an integrated ethanol biorefinery in Iowa: a technical appraisal and economic feasibility evaluation. *Biomass Bioenergy*, 35(9), 3865-3876. doi:10.1016/j.biombioe.2011.05.014
- Salama, E.-S., Kurade, M. B., Abou-Shanab, R. A., El-Dalatony, M. M., Yang, I.-S., Min, B., & Jeon, B.-H. (2017). Recent progress in microalgal biomass production coupled with wastewater treatment for biofuel generation. *Renewable and Sustainable Energy Reviews*, 79, 1189-1211. doi:10.1016/j.rser.2017.05.091
- Shahid, A., malik, S., Zhu, H., Xu, J., Nawaz, M. Z., Nawaz, S., Alam, M.A., Mehmood, M. A. (2019). Cultivating microalgae in wastewater for biomass production, pollutant removal, and atmospheric carbon mitigation; a review. *Science of the Total Environment*, 704, 135303. doi:10.1016/j.scitotenv.2019.135303
- Sharma, R., Singh, G. P., & Sharma, V. K. (2015). Effects of Culture Conditions on Growth and Biochemical Profile of Chlorella Vulgaris. *Journal of Plant Pathology & Microbiology*, 3(5). doi:10.4172/2157-7471.1000131
- Shuttleworth, M. (2009, September 16). *What is a literature review?* Retrieved from Explorable: <https://explorable.com/what-is-a-literature-review#:~:text=A%20literature%20review%20is%20a,are%20pursuing%20this%20particular%20research>
- Silaban, A., Bai, R., Gutierrez-Wing, M. T., Negulescu, I. I., & Rusch, K. A. (2014). Effect of organic carbon, C:N ratio and light on the growth and lipid productivity of microalgae/cyanobacteria coculture. *Engineering in Life Sciences*, 14(1), 47-56. doi:10.1002/elsc.201200219
- Sperling, M. v. (2007). *Basic Principles of Wastewater Treatment: Biological Wastewater Treatment Series*. New York: IWA Publishing
- Stern, D. I. (2010). The role of energy in economic growth. *Crawford School Centre for Climate Economics & Policy Paper*, 10
- Sukla, L. B., Subudhi, E., & Pradhan, D. (2019). *The Role of Microalgae in Wastewater Treatment*. Singapore: Springer

- Total Nitrogen.* (2013). Diambil kembali dari Environmental Protection Agency (EPA): <https://19january2017snapshot.epa.gov/sites/production/files/2015-09/documents/totalnitrogen.pdf>
- Tran, D. T., Nguyen, H. Y., Do, T. C., Show, P. L., Le, T. G., & Nguyen, V. T. (2020). Factors affecting pollutants removal and biomass production capability of Chlorella variabilis TH03 in domestic wastewater. *Material Science for Energy Technologies*, 3, 545-558
- Ummalyma, S. B., Sahoo, D., & Pandey, A. (2019). Bioremediation and biofuel production from Chlorella sp: a comprehensive review. Dalam *Microalgae Biotechnology for Development of Biofuel and Wastewater Treatment* (hal. 635-655). Singapore: Springer
- UNDP. (2016). Sustainable Development Goals. New York: United Nations Development Programme
- Wan, L., Wu, Y., Zhang, X., & Zhang, W. (2019). Nutrient removal from pickle industry wastewater by cultivation of Chlorella pyrenoidosa for lipid production. *Water Science & Technology*, 79(11), 2166-2174. doi:10.2166/wst.2019.217
- Wang, L., Li, Y., Chen, P., Min, M., Chen, Y., Zhu, J., & Ruan, R. R. (2010b). Anaerobic digested dairy manure as a nutrient supplement for cultivation of oil-rich green microalgae Chlorella sp. *Bioresource Technology*, 101(8), 2623-2628. doi:10.1016/j.biortech.2009.10.062
- Wang, L., Min, M., Li, Y., Chen, P., Chen, Y., Liu, Y., Wang, Y., Ruan, R. (2010a). Cultivation of green algae Chlorella sp. in different wastewaters from municipal wastewater treatment plant. *Applied Biochemistry and Biotechnology*, 162(4), 1174-1186. doi:10.1007/s12010-009-8866-7
- Wu, X., Chen, W., Yang, W., & Liang, J. (2014). Study on the correlation of N, P nutrients and Chlorella gorwth. *Applied Mechanics and Materials*, 641, 1183-1186. doi:10.4028/www.scientific.net/AMM.641-642.1183
- Xin, L., Hong-ying, H., Ke, G., & Ying-xue, S. (2010). Effects of different nitrogen and phosphorus concentration on the growth, nutrient uptake, and lipid accumulation of a freshwater microalga Scenesdesmus sp. *Bioresources Technology*, 101(14), 5494-5500. doi:10.1016/j.biortech.2010.02.016
- Xu, J., Wang, X., Sun, S., Zhao, Y., & Hu, C. (2017). Effects of influent C/N ratios and treatment technologies on integral biogas upgrading and pollutans removal from synthetic domestic sewage. *Scientific Reports*. doi:10.1038/s41598-017-11207-y
- Xu, M., Zheng, Q., Li, H., Zhong, Y., Tong, L., Ruan, R., & Liu, H. (2020). Contribution of glycerol addition and algal-bacterial cooperation to nutrients recovery: a study on the mechanisms of microalgae-based wastewater remediation. *Journal of Chemical Technology and Biotechnology*, 95(6), 1717-1728. doi:10.1002/jctb.6369
- Yao, L., Shi, J., & Miao, X. (2015). Mixed wastewater coupled with CO₂ for microalgae culturing and nutrient removal. *PLoS ONE*, 10(9). doi:10.1371/journal.pone.0139117
- Zhang, W., Li, J., Zhang, Z., Fan, G., Ai, Y., Gao, Y., & Pan, G. (2019). Comprehensive evaluation of a cost-effective method of culturing Chlorella pyrenoidosa with unsterilized piggery wastewater for biofuel production. *Biotechnology for Biofuels*, 12(1), 69. doi:10.1186/s13068-019-1407-x

- Zheng, H., Wu, X., Zou, G., Zhou, T., Liu, Y., & Ruan, R. (2019). Cultivation of Chlorella vulgaris in manure-free piggery wastewater with high-strength ammonium for nutrients removal and biomass production: Effect of ammonium concentration, carbon/nitrogen ratio and pH. *Bioresource Technology*, 273, 203-211. doi:10.1016/j.biortech.2018.11.019
- Zhou, W., Min, M., Li, Y., Hu, B., Ma, X., Cheng, Y., Liu, Y., Chen, P., Ruan, R. (2012). A hetero-photoautotrophic two-stage cultivation process to improve wastewater nutrient removal and enhance algal lipid accumulation. *Bioresource Technology*, 110, 448-455. doi:10.1016/j.biortech.2012.01.063
- Zhu, L., Wang, Z., Shu, Q., Takala, J., Hiltunen, E., Feng, P., & Yuan, Z. (2013). Nutrient removal and biodiesel production by integration of freshwater algae cultivation with piggery wastewater treatment. *Water Research*, 47(13), 4294-4302. doi:10.1016/j.watres.2013.05.004
- Zhu, S., Qin, L., Feng, P., Shang, C., Wang, Z., & Yuan, Z. (2018). Treatment of low C/N ratio wastewater and biomass production using co-culture of Chlorella vulgaris and activated sludge in a batch photobioreactor. *Bioresource Technology*, 274, 312-320. doi:10.1016/j.biortech.2018.10.034