

DAFTAR PUSTAKA

- A.R. Putri 2016. Pengolahan Citra Dengan Menggunakan Web Cam Pada Kendaraan Bergerak di Jalan Raya.
- Afrianto, F dan Liviawati, F. 1992. Pengendalian Hama dan Penyakit Ikan. Kanisius. Yogyakarta. Anonim. 2001. *Eichhornia crassipes*.
- AJ. Sojahrood, Q. Li, H. Haghi, R. Karshafian, T.M. Porter, and M.C. Kolios Probing the pressure dependence of sound speed and attenuation in bubbly media: Experimental observations, a theoretical model and numerical calculations 2022.
- Budhijanto, W. Deendarlianto, Kristiyani, H., Satriawan, D. 2015. 'Enhancement of Aerobic Wastewater Treatment by the Application of Attached Growth Microorganisms and Microbubble Generator'. *International Journal of Technology* 6.
- Ceccio Steven L. Influence of bubble size on micro-bubble drag reduction. *Perlin Marc*. 2006.
- C. T. Crowe, "Multiphase Flow Handbook," *CRC Press*, 2006.
- Damien.V.B. Batchelor, Fern J. Armistead, NicollIngram, SallyA. Peyman, JamesR. McLaughlan, P. Louise Coletta, and Stephen D. Evans. The Influence of Nanobubble Size and Stability on Ultrasound Enhanced Drug Delivery 2022.
- Deendarlianto, Wiratni, Alva Edy Tontowi, Indarto, and Anggita Gigih Wahyu Iriawan. 2015. 'The Implementation of a Developed Microbubble Generator on the Aerobic Wastewater Treatment'. *International Journal of Technology* 6(6):924–30.
- Drajat Indah Mawarni, Indarto, Deendarlianto, Kumara Ari Yuana, Metode Digital Image Processing untuk Menentukan Distribusi Ukuran Diameter Gelembung Udara Pada Microgelembung Generator.
- Elfa Fasirah, Ikhlasul Amal, Penerapan Aerasi Venturi Pada Tambak Dengan Menggunakan Solar Cell 2021.
- E. A. Putri, dkk. 2024. Meningkatkan Produktivitas Budidaya Hidroponik di Lahan Terbatas Menggunakan Metode PDCA
- Grace Indah Oktora, Asep Yusuf, Sophia Dwiratna NP, Hilman Syaeful Alam, 2024. Uji Kinerja dan Penerapan Nanobubble Generator pada Hidroponik Nutrient Film Technique (NFT) Terhadap Pertumbuhan Selada
- G. Venturi, "Fluid Dynamics and the Venturi Effect," *Physics Review Letters*, vol. 32, no. 5, pp. 105-112, 2018
- Habib Ihza Mahendra , Iswahyono , Siti Djamila , Amal Bahariawan, Meta Fitri Rizkiana, (2023). Evaluasi Kinerja Generator Microbubble Terhadap Kondisi Nutrisi dan Respon Pertumbuhan Kailan (*Brassica Oleraceae*) Secara Hidroponik Sistem DFT Di Dalam Greenhouse.
- Halim J., 2016. 6 Teknik Hidroponik, Penebar Swadaya, Jakarta
- H. K. Kim, "Microbubble Flotation for Water Purification," *Environmental Technology Reviews*, vol. 12, no. 3, pp. 67-78, 2022
- J. Smith, "Diffused Aeration in Wastewater Treatment," *Environmental Engineering Science*, vol. 37, no. 8, pp. 345-359, 2021.
- J. Tchobanoglous, "Wastewater Engineering: Treatment and Reuse," *McGraw-Hill Education*, 2003.
- Kusumanto dan Tompunu Alan Novi. 2011. pengolahan citra digital untuk mendeteksi obyek menggunakan pengolahan warna model normalisasi RGB. *Semantik*, 1(1).

- K. Brown, dkk. Application of Venturi in Irrigation Systems. *Journal of Agricultural Engineering*, vol. 45, no. 4, pp. 220-230, 2020.
- Kodama Y, Kakugawa A, Takahashi T, Nagaya S, Kawamura T. Drag Reduction of Ship by Microbubbles
- Lahadassy. J., A.M Mulyati dan A.H Sanaba. 2007. Pengaruh Konsentrasi Pupuk Organik Pada Daun Selada, *Journal Agrisistem*, 3 (6) 51-55.
- Mardiyanto A. 2009. Perencanaan Lanskap Pekarangan Dengan Sistem Pertanian Terpadu. [Skripsi]. Bogor (ID): Institut Pertanian Bogor.
- McCormick, M.E. and Bhattacharyya, R. 1973. Drag reduction of a Submersible Hull by Electrolysis, *Naval Engineers Journal*, Vol.85, No.2, pp.11-16.
- M. Elimelech, *Bubble and Foam Phenomena in Fluids*, Wiley, 2001.
- M. Rahman, "Aeration and Its Role in Water Quality Management," *Water Resources Journal*, vol. 58, no. 2, pp. 98-108, 2019.
- Murai Y, Fukuda H, Oishi Y, Kodama Y, Yamamoto F. 2007. Skin friction reduction by large air bubbles in a horizontal channel flow *Int J Multiph Flow* 33:147-163.
- Nurdin, SQ. 2017. Mempercepat Panen Sayuran Hidroponik. Jakarta : Agromedia.
- Prajapati, J.V.; Agrawal, Y.K. Synthesis, characterization and application of microbubbles: A review. *IJPSR* 2012, 3, 1532–1543.
- Prasetio, U. 2015. Panen Sayuran Hidroponik. Jakarta : Agromedia 10
- P. R. Jones, et al., "Enhancing Plant Growth with Microbubble Technology in Hydroponics," *Agricultural Science Journal*, vol. 45, no. 6, pp. 456-468, 2019.
- Rangian, S. D., Pelealu, J. J., & Baideng, E. L. (2017). Respon Pertumbuhan Vegetatif Tiga Varietas Tanaman Sawi (*Brassica Juncea L.*) Pada Kultur Teknik Hidroponik Rakit Apung. *Jurnal Mipa*, 6(1), 26.
- R. Parmar, S. K. Majumder, 2013, Microbubble Generations and Aided Transport Process Intensification-A State-of-the Art Report, *Chemical Engineering and Processing*, 64, 79-97.
- Rakhman A, Lanya B, Rosadi RAB, Kadir MZ. 2015. Pertumbuhan tanaman sawi Menggunakan sistem hidroponik dan akuaponik. *Jurnal Teknik Pertanian Lampung* 4(4): 245–254.
- Rinda Ika Wahyu Ningsih, dan Nurul Aini 2021. Pengaruh Durasi Penggunaan Aerator dan Pengaplikasian PGPR (Plant Growth Promoting Rhizobacteria) Terhadap Pertumbuhan dan Hasil Tanaman Selada (*Lactuca Sativa L.*) Pada Hidroponik Sistem Rakit Apung.
- Sadatomi, M., Kawahara, A., Matsuura, H., Shikatani. 2012. 'Microbubble Generation Rate and Bubble Dissolution Rate Into Water by A Simple Multi Fluid Mixer With Orifice and Porous Tube'. *Experimental Thermal and Fluid Science* 41:23–30.
- Suryani, R. 2015. Hidroponik budidaya tanaman tanpa tanah. Arcitra. Yogyakarta.
- Warni, Elly. 2009. Penentuan Morfologi sel darah merah (Eritrosit) Berbasis pengolahan citra & jaringan syaraf tiruan. *Jurnal Ilmiah Elektrikan Enjiniring UNHAS*, Vol. 07/No.03/Oktober-Desember/2009.
- Wang, X., Shuai, Y., Zhang, H., Sun, J., Yang, Y., Huang, Z., Jiang, B., Liao, Z., Wang, J., & Yang, Y. (2020). Bubble breakup in a swirl-venturi microbubble generator. *Chemical Engineering Journal*, 403(February 2020), 126397.
- Wiranti Budhijanto, Deen Darlianto, Yano Surya Pradana, and Muhammad Hartono, "Application of Micro Bubble Generator as Low Cost and High Efficient Aerator for Sustainable Fresh Water Fish Farming," *American Institute of Physics*, vol. 1840, pp. 110008-1-110008-8, 2017.
- Xue Ziqiu, Susumu Nishio, Naoto Hagiwarab, Toshifumi Matsuoka, 2014. "Microbubble Carbon Dioxide Injection for Enhanced Dissolution in Geological

Sequestration and Improved Oil Recovery". Kyoto: Research Institute of Innovative Technology for The Earth (RITE).

Y. Zhao L. Wang, et al., "Targeted Drug Delivery Using Microbubbles," *Journal of Pharmaceutical Sciences*, vol. 56, no. 5, pp. 290-302, 2021.