



DAFTAR PUSTAKA

- Albagli, D., Dark, M., von Rosenberg, C., Perelman, L., Itzkan, I., dan Feld, M., 1994, Laser-induced Thermoelastic Deformation: A Three Dimensional Solution and Its Application to The Ablation of Biological Tissue. *Med. Phys.*, 1323-1331.
- Badan Pusat Statistik., 2018, *Statistik Lingkungan Hidup Indonesia 2018*. Badan Pusat Statistik, Jakarta.
- Bageshwar, D., Pawar, A., Khanvilkar, V., dan Kadam, V., 2010, Photoacoustic Spectroscopy and Its Applications - A Tutorial Review. *Eurasian J Anal Chem.*, 5, 187-203.
- Bore, G., dan Peus, S., 1999, *Microphones: Methods of Operation and Type Examples*, 4 ed., Druck-Centrum Fürst GmbH, Berlin.
- Brigham, E. O., 1974, *The Fast Fourier Transform*, Prentice Hall, New Jersey.
- Burger, W., dan Burge, M. J., 2016, *Digital Image Processing*. Springer-Verlag London Ltd, London.
- Cahyani, D. C., 2019, Sistem Tomografi Fotoakustik Sederhana Berbasis Laser Dioda dan Mikrofon Condenser untuk Membedakan Beberapa Jenis Bahan. *Skripsi*, Jurusan Fisika FMIPA UGM, Yogyakarta.
- El-Sharkawy, Y. H., dan El-Sherif, A. F., 2012, Photoacoustic Diagnosis of Human Teeth Using Interferometric Detection Scheme. *Opt Laser Technol*, 1501-1506.
- Fatimaa, A., Kratkiewicz, K., Manwar, R., Zafar, M., Zhang, R., Huang, B., Dadashzadeh, N., Xia, J., dan Avnaki, K., 2019, Review of Cost Reduction Methods in Photoacoustic Computed Tomography. *Photoacoustics*, 100137.
- Gonzalez, R. C., dan Wood, R. E., 2018, *Digital Image Processing*. Pearson Education, Inc., Hoboken.
- Griffiths, D. J., 1999, *Introduction to Electrodynamics*, 3 ed., Prentice-Hall, Inc., New Jersey.
- Guan, S., Khan, A. A., Sikdar, S., dan Chitnis, P. V., 2020, Limited-View and Sparse Photoacoustic Tomography for Neuroimaging with Deep Learning. *Sci Rep*, 10, 8510,



- Hariri, A., Bely, N., Avanaki, M., Hariri, A., Fatima, A., Mohammadian, N., Mahmoodkalayeh, S., dan Ansari, M., 2017, Development of Low-cost Photoacoustic Imaging Systems Using Very Low-energy Pulsed Laser Diodes. *J. Biomed. Opt.*, 22.
- Hu, S., Maslov, K., dan Wang, L. V., 2011, Second-generation optical-resolution photoacoustic microscopy with improved sensitivity and speed. *Opt. Lett.*, 36, 1134-1136.
- Kolkman, R. G., Leeuwen, T. G., dan Steenbergen, W., 2006, In Vivo Photoacoustic Imaging of Blood Vessels with a Pulsed Laser Diode. *Lasers in Medical Science*, 21, 3, 134-139. doi:10.1007/s10103-006-0384-z
- Kothapalli, S.-R., Ma, T.-J., Vaithilingam, S., Oralkan, O., Khuri-Yakub, B. T., dan Gambhir, S. S., 2012, Deep Tissue Photoacoustic Imaging Using a Miniaturized 2-D Capacitive Micromachined Ultrasonic Transducer Array. *IEEE Trans. Biomed. Eng.*, 59, 5, 1199-1204.
- Kristanto, W. B., 2018, Karakterisasi Sistem Citra Tomografi Fotoakustik dan Aplikasinya untuk Deteksi Daging Ayam Berformalin. *Srkipsi*, Jurusan Fisika FMIPA UGM, Yogyakarta.
- Lee, C., Kim, J., Zhang, Y., Jeon, M., Liu, C., Song, L., Lovell, JF., dan Kim, C., 2015, Dual-color Photoacoustic Lymph Node Imaging Using Nanoformulated Naphthalocyanines. *Biomaterials*, 142-148.
- Li, M., Tang, Y., dan Yao, J., 2018, Photoacoustic Tomography of Blood Oxygenation: A Mini Review. *Photoacoustics*, 65-73.
- Liang, J., Zhou, Y., Winkler, A. W., Wang, L., Maslov, K. I., Li, C., dan Wang, L. V., 2013, Random-access optical-resolution photoacoustic microscopy using a digital micromirror device. *Optics Letters*, 38, 15, 2683-2686.
- Ma, T.-J., Kothapalli, S. R., Vaithilingam, S., Oralkan, Ö., Kamaya, A., Wygant, I. O., Zhuang, X., Gambhir, S. S., Jr, R. B. J., dan Khuri-Yakub, B. T., 2010, 3-D Deep Penetration Photoacoustic Imaging with a 2-D CMUT Array. *IEEE*, 375-377.
- Maslov, K., Stoica, G., dan Wang, L. V., 2005, In vivo dark-field reflectionmode photoacoustic microscopy. *Optics Letters*, 30, 625-627.



- Maslov, K., Zhang, H. F., Hu, S., dan Wang, L. V., 2008, Optical-resolution photoacoustic microscopy for in vivo imaging of single capillaries. *Opt. Lett.*, 33, 9, 929-931.
- Nasim, H., dan Jamil, Y., 2014, Diode Lasers: From Laboratory to Industry. *Opt Laser Technol*, 211-222.
- Novita, S., 2018, *Hydrodinamik, Deteksi Mikroplastik Terhadap Kehancuran Laut*. <http://pusriskel.litbang.kkp.go.id/index.php/en/home/1860-hydrodinamik-deteksi-mikroplastik-terhadap-kehancuran-laut>, diakses pada 19 November 2019.
- Oberst, U., 2007, The Fast Fourier Transform. *SIAM J CONTROL OPTIM*, 46, 496-540. doi:10.1137/060658242
- Pleitez, M. A., Lieblein, T., Bauer, A., Hertzberg, O., Lilienfeld-Toal, H. v., dan Mantele, W., 2012, In Vivo Noninvasive Monitoring of Glucose Concentration in Human Epidermis by Mid-Infrared Pulsed Photoacoustic Spectroscopy. *Anal. Chem.*, 85, 1013-1020.
- Pospiech, M., dan Liu, S., 2004, *Laser Diodes*.
- Press, W. H., 1992, *Numerical Recipes in Fortran 77: The Art of Scientific Computing*, 2 ed., Cambridge University Press, Cambridge.
- Press, W. H., Teukolsky, S. A., Vetterling, W. T., dan Flannery, B. P., 1992, *Numerical Recipes in C*, 2 ed., Cambridge University Press, Cambridge.
- Puspita, S., 2018, *Indonesia Penyumbang Sampah Plastik Terbesar Kedua di Dunia*. <https://megapolitan.kompas.com/read/2018/08/19/21151811/indonesia-penyumbang-sampah-plastik-terbesar-kedua-di-dunia>, diakses pada 1 Desember 2019.
- Riley, K. F., Hobson, M. P., dan Bence, S. J., 2006, *Mathematical Methods for Physics and Engineering*. Cambridge University Press, Cambridge.
- Shabairou, N., Lengenfelder, B., Hohmann, M., Klämpfl, F., Schmidt, M., dan Zalevsky, Z., 2020, All-optical, an ultra-thin endoscopic photoacoustic sensor using multi-mode fiber. *Sci Rep*, 10, 9142,
- Silalahi, H. M., 2017, Sistem Citra Fotoakustik Sederhana Berbasis Laser Dioda dan Mikrofon Condenser. *Skripsi*, Jurusan Fisika FMIPA UGM, Yogyakarta.



- Stoica, P., dan Moses, R., 2005, *Spectral Analysis of Signals*. Prentice Hall, Inc., New Jersey.
- Treeby, B. E., dan Cox, B. T., 2010, k-Wave: MATLAB toolbox for the simulation and reconstruction of photoacoustic wave fields. *J Biomed Opt.*, 15, 2, doi:10.1117/1.3360308
- Tsai, C. L., Chen, J. C., dan Wang, W. J., 2001, Near-infrared Absorption Property of Biological Soft Tissue Constituents. *J MED BIOL ENG*, 7-14.
- Wang, L. V., 2008, Tutorial on Photoacoustic Microscopy and Computed Tomography. *IEEE Journal of Selected Topics in Quantum Electronics*, 14, 1, 171-179. doi:10.1109/JSTQE.2007.913398
- Wang, L. V., 2009, *Photoacoustic Imaging and Spectroscopy*. Boca Raton: CRC Press.
- Wang, L. V., dan Gao, L., 2014, Photoacoustic Microscopy and Computed Tomography: from Bench to Bedside. *Annu Rev Biomed Eng*, 16, 155-185.
- Wen, X., C., O., Xu, J., Fang, L., Cha, R., dan Li, J., 2011, Novel RD-Optimized VBSME with Matching Highly Data Re-Usable Hardware Architecture. *IEEE Transactions on Circuits and Systems for Video Technology*, 21, 2, 206-219.
- Widyaningrum, G. L., 2018, *Perilaku Manusia dan Dampak Sampah Plastik yang Menewaskan Hewan Laut*. <https://nationalgeographic.grid.id/read/131244353/perilaku-manusia-dan-dampak-sampah-plastik-yang-menewaskan-hewan-laut?page=all>, diakses pada 1 Desember 2019.
- Wong, Y. H., Thomas, R. L., dan Pouch, J. J., 1979, Subsurface Structures of Solids by Scanning Photoacoustic Microscopy. *Appl Phys Lett*, 35, 5, 368-369.
- Xu, M., dan Wang, L. V., 2006, Photoacoustic Imaging in Biomedicine. *Rev Sci Instrum*, 77, 4, 1-22. doi:10.1063/1.2195024
- Yao, J., Wang, L., Yang, J.-M., Maslov, K. I., Wong, T. T., Li, L., Huang, C., Zou, J., dan Wang, L. V., 2015, High-speed Label-free Functional Photoacoustic Microscopy of Mouse Brain in Action. *Nat Methods*, 12, 5, 407-410.
- Zhao, T., Desjardins, A. E., Ourselin, S., Vercauteren, T., dan Xia, W., 2019, Minimally Invasive Photoacoustic Imaging: Current Status and Future. *Photoacoustics*, 1-58.



Zhou, Q., Peng, S., Wang, Q., Wu, G., dan Chen, W., 2016, Study of Carbon Monoxide Detection Characteristics with a Tunable Photoacoustic Spectroscopy System. *IEEE*.

Zhou, Y., Yao, J., dan Wang, L. V., 2016, Tutorial on Photoacoustic Tomography. *Journal of Biomedical Optics*, 21, 6, 1-14.