

## DAFTAR PUSTAKA

- Alan, G.G., 2000, Lipid Metabolism-Synthesis and Oxidation, *Biochemical and Physiological Aspect of Human Nutritio*, 330-5.
- Amann, A., Miekisch, W., Pleil, J., Risby, T., dan Schubert, J., 2013, Chapter 7: Methodological Issues of Sample Collection and Analysis of Exhaled Breath, *Eur Respir Soc Monogr* 49: 96–114.
- Amin, M.N., 2012, Kinerja Spektrometer Fotoakustik dalam Karakterisasi Scrubber Gas C<sub>2</sub>H<sub>4</sub>, *Tesis*, Jurusan Fisika Universitas Gadjah Mada, Yogyakarta.
- Banfi, G., Colombi, A., Lombardini, G. dan Lubkowska, A., 2012, Metabolic markers in sports medicine, *Adv Clin Chem*, Vol. 56, pp. (1-54).
- Boule, N.G., Haddad, E. dan Kenny, G.P., 2001, Effects of Exercise on Glycemic Control and Body Mass in Type 2 Diabetes Mellitus, *JAMA*, Vol. 286, pp. (1218-1227).
- Bratu, A.M., Popa, C., Matei, C., Banita, S., Dutu, D.C.A. dan Dumitras, D.C., 2011, Removal of Interfering Gases in Breath Biomarker Measurements, *J. Optoelectron. Adv. Mater.*, Vol.13, No. 8, August 2011, pp. 1045-1050, ISSN 1454-4164
- Cao, W. dan Yuan, D., 2006, Breath Analysis: Potential for Clinical Diagnosis and Exposure Assessment, *Clinical Chemistry* 52, No. 5.
- Cinar, Y., Demirci, H. dan Satman, I., 2013, *Principle of Exercise and Its Role in the Management of Diabetes Mellitus*, <http://dx.doi.org/10.5772/50503>.
- Duley, W.W., 1976, *CO<sub>2</sub> Lasers Effects and Applications*, Academic Press, New York.
- Dumitras, D.C., 2012, *CO<sub>2</sub> Laser - Optimisation and Application*, InTech, Croatia.
- Freed, C., 1995, *CO<sub>2</sub> Isotope Lasers and Their Applications in Tunable Laser Spectroscopy*, Duarte, F.J., *Tunable Lasers Handbook*, Academic Press, California.
- Harren, F.J.M., 1988, The Photoacoustic Effect, Refined and Applied to Biological Problems, *Ph.D. Thesis*, Catholic University, Nijmegen The Netherlands.

- Hordern, M.D., Dunstan, D.W., Prins, J.B., Baker, M.K., Singh, M.A.F. dan Coombes, J.S., 2011, Exercise Prescription for Patients with Type 2 Diabetes and Pre-diabetes: A position statement from Exercise and Sport Science Australia, *Journal of Science and Medicine in Sport* 15. 25–31.
- King, J., Kupferthaler, A., Unterkofler, K., Koc, H., Teschl, S., Teschl, G., Miekisch, W., Schubert, J., Hinterhuber H., dan Amann, A., 2009, Isoprene and Acetone Concentration Profiles during Exercise on an Ergometer, *Journal of Breath Research*, 3 027006.
- Kravitz, Len, 2007, The 25 Most Significant Health Benefits of Physical Activity and Exercise. *IDEA Fitness Journal*, Vol. 4, Issue 9.
- Kundu, S.K., Bruzek, J.A., Nair, R., dan Judilla, A.M., 1993, *Breath Acetone Analyzer: Diagnostic Tool to Monitor Dietary Fat Loss*, Clin Chem, 39(1): 87-92.
- Mathew, T.L., Pownraj, P., Abdulla, S., Pullithadhatil. B., 2015, Technologies for Clinical Diagnosis Using Expired Human Breath Analysis, *Diagnostics*, 5, 27-60.
- Miekisch W., Schubert J.K., dan Noeldge-Schomburg G.F.E., 2004, Diagnostic Potential of Breath Analysis-Focus on Volatile Organic Compounds, *J. Clinica Chimica Acta*, 347, 25-39.
- Mitrayana, 2008, Rancang Bangun Spektrometer Fotoakustik dan Spektrometer Modulasi Panjang Gelombang Laser, Kajian Deteksi Gas *Biomarker* C<sub>2</sub>H<sub>4</sub>, C<sub>3</sub>H<sub>6</sub>O, NH<sub>3</sub>, NO<sub>2</sub> dan NO dalam bidang Kedokteran, *Disertasi*, Jurusan Fisika Universitas Gadjah Mada, Yogyakarta.
- Mitrayana, Ramadona. A.L., dan Wasono, M.A.J., 2010, *Spektrometer Fotoakustik Laser untuk Deteksi Gas Aseton dari Pernapasan Manusia*, Universitas Gadjah Mada, Yogyakarta.
- Mitrayana, Wasono, M.A.J., dan Ikhsan, M.R., 2014, *Spektroskopi Fotoakustik Laser dan Aplikasinya*, Universitas Gadjah Mada, Yogyakarta.
- Muniarti, 2000, Metode Deteksi Beberapa Jenis Gas Polusi Udara dengan Spektroskopi Fotoakustik Laser CO<sub>2</sub>, *Tesis*, Pascasarjana Universitas Gadjah Mada, Yogyakarta.
- Nayak, S., 2005, Influence of Aerobic Treadmill Exercise on Blood Glucose Homeostasis in Noninsulin Dependent Diabetes Mellitus Patients, *Indian Journal of Clinical Biochemistry*, 20(1):47-51.

- Ogilvie, D., Foster, C.E. dan Rotnie, H., 2007, Interventions to Promote Walking: Systematic Review, *BMJ*, pp. (1-10).
- Pao, Y.H., 1977, *Optoacoustic Spectroscopy and Detection*, Academic Press, New York.
- Patel, C.K.N., 1964, Continous Wave Laser Action On Vibrational Rotational Transitions of CO<sub>2</sub>, *Physical Review* 136 (5A): A1187-A1193.
- Pratama, Y., 2011, Optimasi Daya Laser pada Spektrometer Fotoakustik Laser CO<sub>2</sub> Konfigurasi Intrakavitas dan Aplikasinya dalam Mengukur Konsentrasi Gas Aseton pada Gas Hembus Napas Pasien Penderita Diabetes Mellitus Tipe 2, *Tesis*, Jurusan Fisika Universitas Gadjah Mada, Yogyakarta.
- Rosencwaig, A., 1980, *Photoacoustic and Photoacoustic Spectroscopy*, vol. 57, Wiley and Sons, New York.
- Schwarz, K., Pizzini, A., Arendacka, B., Zerlauth, K., Filipiak, W., Dzien, A., Neuner, S., Lechleitner, M., Scholl-Burgi, S., Miekisch, W., Schubert, J., Unterkofler, K., Witkovsky, V., Gastl, G., dan Amann, A., 2009, Breath Acetone - Aspects of Normal Physiology Related to Age and Gender as Determined in a PTR-MS Study, *Journal of Breath Research*.
- Senthilmohan, S.T., Milligan, D.B., Mc Ewan, M.J., Freeman, C.G., dan Wilson, P. F., 2000, Quantitative Analysis of Trace Gases of Breath during Exercise Using the New SIFT MS Technique, *Redox Rep.* 151-3.
- Wang, C. dan Sahay P., 2009, Breath Analysis Using Laser Spectroscopic Techniques: Breath Biomarkers, Spectral Fingerprints, and Detection Limits, *Sensors*. P. 8230-8262.
- Witteman, W.J., 1987, *The CO<sub>2</sub> Laser*, Springer-Verlay, Berlin (56-57).