

## DAFTAR PUSTAKA

- Agranovsky, M., Peter, K., Leonid, K., 2009, On Reconstruction Formulas and Algorithms for the Thermoacoustic Tomography, dalam *Photoacoustic Imaging and Spectroscopy*, diedit oleh Wang L.V., USA: CRC Press, hal.89–101
- Adistya, T., Kumalasari, F., Dewi, A.H., Rachmawati, M.W., 2013, The effect of chitosan gel concentration on neutrophyl and macrophage in gingival ulcer of Sprague Dawley rat, *Dental Journal (Majalah Kedokteran Gigi)*, 46 (3): 152-157
- Agustina, D., Wasito, Haryana, S.M., Supartinah, A., 2006, Anticarcinogenesis effect of *Gynura procumbens* (Lour) Merr on tongue carcinogenesis in 4NQO-induced rat, *Dent. J. (Maj. Ked. Gigi)*, 9 (3): 126–132.
- Ain, K., Kurniadi, D., Trisnobudi, A., 2011, Studi Pendahuluan Sistem Tomografi Listrik-Akustik untuk Mendeteksi Kanker Paru-Paru, *J.Oto.Ktrl.Inst.*, 3(2): 47-55
- Al-Ani, M.S., dan Alheeti, K.M.A., 2017, Precision Statistical Analysis of Images Based on Brightness Distribution, *Advances in Science, Technology and Engineering Systems Journal*, 2(4): 99-104
- Allen, T. J., dan Beard, P.C., 2016, High power visible light emitting diodes as pulsed excitation sources for biomedical photoacoustics, *Biomedical Optics Express*, 7(4): 1260-1270, DOI: 10.1364/BOE.7.001260
- Alqasemi, U., Kumavor, P., Aguirre, A., Zhu, Q., 2012, Recognition algorithm for assisting ovarian cancer diagnosis from coregistered ultrasound and photoacoustic images: ex vivo study, *Journal of Biomedical Optics*, 17(12): 1–10.
- Almangush, A., 2015, *Histopathological predictors of early stage oral tongue cancer*, Academic Dissertation: Faculty of Medicine of the University of Helsinki, Finland.
- Amtha, R., Razak, I.A., Basuki, B., Oetomo, B., Roeslan, Gautama, W., Puwanto, D.J., Ghani, W.M.N., Zain, R.B., 2014, Tobacco (Kretek) Smoking, Betel Quid Chewing and Risk of Oral Cancer in a Selected Jakarta Population, *Asian Pacific Journal of Cancer Prevention*, 15(20): 8673–8678.
- Anastasio, M.A., Zhang, J., Pan, X., Wang, L.H.V., 2009, Half-Time Image Reconstruction in Photoacoustic Tomography, dalam *Photoacoustic Imaging and Spectroscopy*, diedit oleh Wang L.V., USA: CRC Press, hal.155–163
- Andono, P.N., Sutojo, T., Muljono, 2017, Pengolahan Citra Digital, diedit oleh Pramesta, A., Yogyakarta: Penerbit Andi, hal.1-5, 37-43.
- Arya, S., Chaukar, D., Pai, P., 2012, Imaging in oral cancers, *Indian J Radiol Imaging*, 22(3): 195–208.

- Ashkenazi, S., Hou, Y., Huang, S.W., Buma, T., O'Donnell, M., 2009, High Frequency Optoacoustic Transducer for Ultrasonic and Photoacoustic Imaging, dalam *Photoacoustic Imaging and Spectroscopy*, diedit oleh Wang L.V., USA: CRC Press, hal.223-224.
- Avery, J.K., dan Chiego, D.J.Jr., 2006, *Essentials of Oral Histology and Embryology: a Clinical Approach*, 3<sup>rd</sup> ed., St. Louis-Missouri: Mosby Elsevier, hal.177-179
- Badan Penelitian dan Pengembangan Kesehatan Kementerian Kesehatan RI, 2013, *Riset Kesehatan Dasar*, Jakarta: Kementerian Kesehatan RI
- Bagan, J., Sarrion, G., Jimenez, Y., 2010, Oral cancer: Clinical features. *Oral Oncology*, 46: 414–417.
- Bageshwar, D.V., Pawar, A.S., Khanvilkar, V.V., Kadam, V.J., 2010, Photoacoustic Spectroscopy and Its Applications – A Tutorial Review, *Eurasian J. Anal. Chem.*, 5(2): 187-203
- Barnes, L., J. W., Eveson, P., Reichart, Sidransky, D., 2005, *World Health Organization classification of tumours: pathology and genetics of head and neck tumours*, Lyon, France: IARC (International Agency for Research on Oral Cancer) Press
- Barrios, R., Tsakos, G., García-Medina, B., Martínez-Lara, I., Bravo, M., 2014, Oral health-related quality of life and malnutrition in patients treated for oral cancer, *Support Care Cancer*, 22: 2927–2933
- Bayer, C.L., Joshi, P.P., Emelianov, S.Y., 2013, Photoacoustic imaging: a potential tool to detect early indicators of metastasis, *Expert Rev Med Devices*, 10(1): 125–134, DOI:10.1586/erd.12.62.
- Beard, P., 2011, Biomedical photoacoustic imaging, *Interface Focus*, 1: 602–631, DOI:10.1098/rsfs.2011.0028
- Bennet, J.A., Deol, P., Abrahams, J.J., 2007, Imaging of Patients with Oral Cancer, dalam *Oral Cancer: Diagnosis, Management, and Rehabilitation*, diedit oleh Werning, J.W., New York: Thieme Medical Publishers, hal.54-65
- Bhargava, A., Saigal, S., Chalishazar, M., 2010, Systems in Oral Squamous Cell Carcinoma: A Review, *J. Int. Oral Health*, 2(4): 1–10.
- Bramanti, I., Ngatidjan, Purwono, S., 2013, The acceleration of garlic (*Allium sativum L*) ethanolic extract on gingival wound healing process in Wistar rats, *J Med Sci*, 45 (2): 51-60
- Cadar, M.E., 2012, Histological Fixation with Formalin under Microwave Irradiation, *Bulletin UASVM Animal Science and Biotechnologies*, 69 (12): 48-51.
- Cekanova, M., dan Rathore, K., 2014, Animal models and therapeutic molecular targets of cancer: utility and limitations, *Drug Design, Development and Therapy*, 8: 1911-1922
- Chrimawaty, B.E., dan Soebagy, G., 2012, Ulkus Aptosa Kompleks Manifestasi Penyakit Crohn, *Maj Ked Gi*, 19 (1): 33-38

- Colluzzi, D.J., dan Convissar, R.A., 2011, Laser Fundamentals, dalam *Principles and Practice of Laser Dentistry*, diedit oleh Convissar, R.A., St. Louis-Missouri: Mosby Elsevier, hal.12-26.
- Dahlan, M.S., 2009, *Penelitian Diagnostik: Dasar-dasar Teoritis dan Aplikasi dengan Program SPSS dan Strata*, Jakarta: Penerbit Salemba Medika, hal.31-73
- Dahlan, M.S., 2010, *Besar Sampel dan Cara Pengambilan Sampel dalam Penelitian Kedokteran dan Kesehatan*, Edisi 3, Jakarta: Penerbit Salemba Medika, hal.85-86
- Dahlan, M.S., 2014, *Statistik untuk Kedokteran dan Kesehatan: Deskriptif, Bivariat, dan Multivariat dilengkapi Aplikasi Menggunakan SPSS*, Edisi 6, Jakarta: Epidemiologi Indonesia, hal.41
- De Cezaro, A., De Cezaro, F.T., Suarez, J.S., 2015, Regularization approaches for quantitative Photoacoustic tomography using the radiative transfer equation, *J. Math. Anal. Appl.*, 429: 415–438
- de Paiva, R.R., Figueiredo, P.T. de Souza, Leite, A.F., Silva, M.A.G., Guerra, E.N.S., 2011, Oral cancer staging established by magnetic resonance imaging, *Braz Oral Res.*, 25(6): 512-518
- Dharmawan, H.A., 2017, *Mikrokontroler: Konsep Dasar dan Praktis*, Malang: UB Press, hal.133-134.
- Dogra, V.S., Chinni, B.K., Valluru, K.S., Moalem, J., Giampoli, E.J., Evans, K., Rao, N.A., 2014, Preliminary Results of Ex Vivo Multispectral Photoacoustic Imaging in the Management of Thyroid Cancer, *AJR*, 202: 552-558, DOI: 10.2214/AJR.13.11433
- El-Sharkawy, Y.H., dan El Sherif, A.F., 2012, Photoacoustic diagnosis of human teeth using interferometric detection scheme, *Optics & Laser Technology*, 44: 1501-1506
- Elia, A., Lugarà, P.M., Di Franco, C.D., Spagnolo, V., 2009, Photoacoustic Techniques for Trace Gas Sensing Based on Semiconductor Laser, *Sensors*, (9): 9616-9628, DOI:10.3390/s91209616
- Fatakdawala, H., Poti, S., Zhou, Y., Bee, J., Liu, J., Yankelevich, D.R., Tinling, S.P., Gandour-Edwards, R.F., Farwell, D.G., Marcu, L., 2013, Multimodal in vivo imaging of oral cancer using fluorescence lifetime, photoacoustic and ultrasound techniques, *Biomedical Optics Express*, 4(9): 1724-1741, DOI:10.1364/BOE.4.001724
- Fedele, S., 2009, Diagnostic aids in the screening of oral cancer, *Head & Neck Oncology*, 1(5): 1-5, DOI:10.1186/1758-3284-1-5
- Figueiredo, P.T. de Souza, Leite, A.F., Barra, F.R., dos Anjos, R.F., Freitas, A.C., Nascimento, L.A., Melo, N.S., Guerra, E.N.S., 2012, Contrast-enhanced CT and MRI for detecting neck metastasis of oral cancer: comparison between analyses performed by oral and medical radiologists, *Dentomaxillofacial Radiology*, 41: 396–404

- Ghassemi, F., dan Cheshmi, G., 2014, Comparative histological study of tongue in two species of rat (*Rattus norvegicus* & *Rattus wistar*), *Cibtech Journal of Zoology*, 3 (2): 13-21
- Ginsberg, L.E, 2010, The Role of Diagnostic Imaging in Identifying Cervical Metastases in Oral Cavity Cancer, dalam *Oral Cancer Metastasis*, diedit oleh Myers, J., London: Springer Science+Bussines Media, hal.33-48
- Gonzalez, R.C., dan Woods, R.E., 2008, *Digital Image Processing*, 3<sup>rd</sup> ed., New Jersey USA: Pearson Education Inc, Pearson Prentice Hall, hal.7-14
- Grim, M., Cetindis, M., Lehmann, M., Biegner, T., Munz, A., Teriete, P., Kraut, W., Reinert, S., 2014, Association of cancer metabolism-related proteins with oral carcinogenesis – indications for chemoprevention and metabolic sensitizing of oral squamous cell carcinoma?, *Journal of Translational Medicine*, 12(208): 1-21, DOI:10.1186/1479-5876-12-208
- Hariri, A., Fatima, A., Mohammadian, N., Mahmoodkalayeh, S., Ansari, M.A., Bely, N., Avanaki, M.R.N., 2017, Development of low-cost photoacoustic imaging systems using very low-energy pulsed laser diodes, *Journal of Biomedical Optics*, 22(7): 075001-1 - 075001-8, doi: 10.1117/1.JBO.22.7.075001.
- Hariri, A., Fatima, A., Mohammadian, N., Bely, N., Nasirivanaki, M., 2016, Towards low cost photoacoustic Microscopy system for evaluation of skin health, *Proc. of SPIE*, Vol. 9976. hal.99760X1-99760X7
- Heijblom, M., Piras, D., Brinkhuis, M., Van Hespén, J.C.G., Van Den Engh, F. M., van Der Schaaf, M., Klaase, J. M., Van Leeuwen, T. G., Steenbergen, W., Manohar, S., 2015, Photoacoustic image patterns of breast carcinoma and comparisons with Magnetic Resonance Imaging and vascular stained histopathology, *Scientific Reports*, 5: 117781-117786, DOI: 10.1038/srep11778
- Holotta, M., Grossauer, H., Kremser, C., Torbica, P., Volkl, J., Degenhart, G., Esterhammer, R., Nuster, R., Paltauf, G., Jaschke, W., 2011, Photoacoustic tomography of ex vivo mouse hearts with myocardial infarction, *Journal of Biomedical Optics*, 16(3): 036007-1 - 036007-5, DOI: 10.1117/1.3556720
- Irani, S., 2016, Pre-Cancerous Lesions in the Oral and Maxillofacial Region: A Literature Review with Special Focus on Etiopathogenesis, *Iran J Pathol.*, 11(4): 303- 322
- Jiang, C., Ye, D., Qiu, W., Zhang, X., Zhang, Z., He, D., Zhang, P., Chen, W., 2007, Response of lymphocyte subsets and cytokines to Shenyang prescription in Sprague-Dawley rats with tongue squamous cell carcinomas induced by 4NQO, *BMC Cancer*, 7(40): 1-9. DOI:10.1186/1471-2407-7-40
- Jo, J., dan Yang, X., 2011, Detection of cocaine induced rat brain activation by photoacoustic tomography, *Journal of Neuroscience Methods*, 195 (2): 232-235, 10.1016/j.jneumeth.2010.12.006

- Johar, K., 2011, *Fundamentals of Laser Dentistry*, 1<sup>st</sup> ed, New Dehli: Jaypee Brothers Medical Publishers, hal.2
- Kim M, Kang J, Chang J.H., Song T.K., Yoo Y., 2013, Image Quality Improvement based on Inter-frame Motion Compensation for Photoacoustic Imaging: a Preliminary Study, *Proceeding of Joint UFFC, EFTF and PFM Symposium*, hal. 1528-1531. DOI: 10.1109/ULTSYM.2013.0388
- Kimbrough, C.W., Hudson, S., Khanal, A., Egger, M.E., McNally, L.R., 2015, Orthotopic pancreatic tumors detected by optoacoustic tomography using Syndecan-1, *Journal of Surgical Research*, (193): 246-254, DOI: 10.1016/j.jss.2014.06.045
- Kolkman, R.G.M., Steenbergen, W., Leeuwen, T.G.van, 2006, In vivo photoacoustic imaging of blood vessels with a pulsed laser diode, *Lasers Med Sci*, (21): 134-139, DOI:10.1007/s10103-006-0384-z
- Kruger, R.A., 2009, Thermoacoustic Computed Tomography of the Breast, dalam *Photoacoustic Imaging and Spectroscopy*, diedit oleh Wang, L.V., USA: CRC Press., hal.331-338.
- Ku, G., Wang, X., Xie, X., Stoica, G., Wang, L.V., 2005, Imaging of tumor angiogenesis in rat brains in vivo by photoacoustic tomography, *Applied Optics*, 44 (5): 770-775
- Lane, P., Lam, S., Follen, M., MacAulay, C., 2012, Oral Fluorescence Imaging Using 405-nm Excitation, Aiding the Discrimination of Cancers and Precancers by Identifying Changes in Collagen and Elastic Breakdown and Neovascularization in the Underlying Stroma, *Gender Medicine*, 9(1S): 78-82
- Lao, Y., Xing, D., Yang, S., Xiang, L., 2008, Noninvasive photoacoustic imaging of the developing vasculature during early tumor growth, *Phys. Med. Biol.*, 53: 4203–4212, DOI:10.1088/0031-9155/53/15/013
- Laufer, J., Johnson, P., Zhang, E., Treeby, B., Cox, B., Pedley, B., Beard, P., 2012, In vivo preclinical photoacoustic imaging of tumor vasculature development and therapy, *Journal of Biomedical Optics*, 17(5): 0560161-0560168, DOI: 10.1117/1.JBO.17.5.056016
- Law, C.P., Chandra, R., Hoang, J.K., Phal, P.M., 2011, Imaging the Oral Cavity: key concepts for the radiologist, *The British Journal of Radiology*, 84: 944-957, DOI: 10.1259/bjr/70520972
- Li, C., Kim, C., Wang, L.V., 2011, Photoacoustic Tomography and Ultrasound-Modulated Optical Tomography, dalam *Handbook of Biomedical Optics*, diedit oleh Wang, L.V., USA: CRC Press., h.419-442
- Linz, C., Muller-Richter, U.D.A., Buck, A.K., Mottok, A., Ritter, C., Schneider, P., Metzen, D., Heuschmann, P., Malzahn, U., Kubler, A.C., Herrmann, K., Bluemel, C., 2015, Performance of cone beam computed tomography in comparison to conventional imaging techniques for the detection of bone invasion in oral cancer, *Int. J. Oral Maxill ofac. Surg.*, 44: 8–15, <http://dx.doi.org/10.1016/j.ijom.2014.07.023>

- Liu, J, Mao, JJ, Chen, L, 2011, Epithelial–Mesenchymal Interactions as a Working Concept for Oral Mucosa Regeneration, *Tissue Engineering: Part B*; 17 (1): 25-31, DOI: 10.1089/ten.teb.2010.0489
- Liu, W, dan Yao, J., 2018, Photoacoustic microscopy: principles and biomedical applications, *Biomedical Engineering Letters*, 8: 203–213, <https://doi.org/10.1007/s13534-018-0067-2>
- Lopez, J.A.B., Mandelis, A., Garcia, J.A., Normalized photoacoustic techniques for thermal diffusivity measurements of buried layers in multilayered systems, *Journal of Applied Physics*, (92):6
- Mallidi S., Luke, G.P., Emelianov S., 2011, Photoacoustic imaging in cancer detection, diagnosis, and treatment guidance, *Trends in Biotechnology*, 29(5): 213-221, DOI:10.1016/j.tibtech.2011.01.006
- Manaster, B.J., 2013, Soft-Tissue Masses: Optimal Imaging Protocol and Reporting, *AJR*, 201: 505-514, DOI: 10.2214/AJR.13.10660
- Mang, T., Kost, J., Sullivan, M., Wilson, B.C., 2006, Autofluorescence and Photofrin-induced fluorescence imaging and spectroscopy in an animal model of oral cancer, *Photodiagnosis and Photodynamic Therapy*, 3 (3): 168-176
- Maslov, K., dan Wang, L.V., 2008, Photoacoustic imaging of biological tissue with intensity-modulated continuous-wave laser, *Journal of Biomedical Optics*, 13(2): 0240061-0240065, DOI: 10.1117/1.2904965
- Mehrmohammadi, M., Yoon, S.J., Yeager, D., Emelianov, S.Y., 2013, Photoacoustic Imaging for Cancer Detection and Staging. *Curr Mol Imaging* 2(1): 89–105.
- Messadi, D.V., Wilder-Smith, P., Wolinsky, L., 2009, Improving Oral Cancer Survival: The Role of Dental Providers, *J Calif Dent Assoc.*, 37(11): 789–798
- Mitcham, T., Dextraze, K., Taghavi, H., Melancon, M., Bouchard, R., 2015, Photoacoustic imaging driven by an interstitial irradiation source, *Photoacoustics*, (3): 45–54, <http://dx.doi.org/10.1016/j.pacs.2015.02.002>
- Mitrayana, Muslim, Wasono, M.A.J., 2002, *Spektrometer fotoakustik laser intrakavitas berkepekaan tinggi*, Prosiding Pertemuan dan Presentasi Ilmiah Penelitian Dasar Ilmu Pengetahuan dan Teknologi Nuklir, P3TM-BATAN, Yogyakarta, 27 Juni 2002, hal.34-38
- Mitrayana, Wasono, M.A.J., Ikhsan, M.R., Harren, F.J.M., 2010, *Deteksi Dini Penyakit Dalam dengan Metode Noninvasive Spektroskopi Fotoakustik Laser*, Prosiding Seminar Nasional VI SDM Teknologi Nuklir, Yogyakarta, 18 November 2010, hal.241-245
- Mitrayana, Wasono, M.A.J., Ikhsan, M.R., 2017. *Spektroskopi Fotoakustik Laser dan Aplikasinya*, Edisi 1, Yogyakarta: Gadjah Mada University Press, hal. 1-5
- Mitsuhashi, K., Wang, K., Anastasio, M.A., 2014, Investigation of the far-field approximation for modeling a transducer’s spatial impulse response in

- photoacoustic computed tomography, *Photoacoustics*, 2: 21–32, <http://dx.doi.org/10.1016/j.pacs.2013.11.001>
- Mjor, IA, dan Fejerskov, O., 1990, *Embriologi dan histologi rongga mulut* (terj.), diedit oleh Yuwono, L., Jakarta: Widya Medika, hal.190-226
- Neville, B.W., dan Day, T.A., 2002, Oral Cancer and Precancerous Lesions, *CA Cancer J Clin*, 52: 195-215.
- Nguyen, V.T., Nassar, D., Batteux, F., Raymond, K., Tharaux, P., Aractingi, S., 2016, Delayed Healing of Sickle Cell Ulcers Is due to Impaired Angiogenesis and CXCL12 Secretion in Skin Wounds. *Journal of Investigative Dermatology*, 136: 497-506, DOI:10.1016/j.jid.2015.11.005
- Olivo, M., Bhuvanewari, R., Keogh, I., 2011, Advances in Bio-Optical Imaging for the Diagnosis of Early Oral Cancer, *Pharmaceutics*, 3: 354-378. DOI: 10.3390/pharmaceutics3030354
- Oraevsky, A.A., 2009, Optoacoustic Tomography of the Breast, dalam *Photoacoustic Imaging and Spectroscopy*, diedit oleh Wang L.V., USA: CRC Press., hal.411-429.
- Patton, L.L., Epstein, J.B., Kerr, A.R., 2008, Adjuvative technique for Oral Cancer Examination and Lesion Diagnosis: A Systematic Review of the Literature, *JADA*, 139: 896-903
- Pavlova, I., Williams, M., El-Nagar, A., Richards-Kortum, R., Gillenwater, A., 2008, Understanding the Biological Basis of Autofluorescence Imaging for Oral Cancer Detection: High-Resolution Fluorescence Microscopy in Viable Tissue. *Clin Cancer Res*, 14 (8): 2396-2404
- Penttila, A., dan Laiho, K., 1981, Autolytic Changes in Blood Cells of Human Cadavers, Morphological Studies, *Forensic Science International*, 17: 121-132.
- Perez, M.G.S., Bagan, J.V., Jimenez, Y., Margaix, M., Marzal, C., 2015, Utility of imaging techniques in the diagnosis of oral cancer, *Journal of Cranio-Maxillo-Facial Surgery*, 43: 1880-1894, <http://dx.doi.org/10.1016/j.jcms.2015.07.03>
- Petrie, A., dan Sabin, C., 2009, Medical Statistics and glance, 3<sup>rd</sup> ed., UK: Willey Blackwell, John Wiley & Sons Ltd Publication, hal.115-121.
- Pindborg, J.J., Reichart, P.A., Smith, C.J., van der Waal I., 1997, *Histological Typing of Cancer and Precancer of the Oral Mucosa*, 2<sup>nd</sup> ed., Berlin Heidelberg Germany: Springer.
- Purwanto, J., dan Mitrayana, 2010, Kajian Teoritis Hamburan Gelombang Elektromagnetik dalam Tomografi Fotoakustik untuk Aplikasi Biomedis, *Jurnal Fisika Indonesia*, 42(14): 36-51
- Rao, S.V.K., Mejia, G., Roberts-Thomson, K., Logan, R., 2013, Epidemiology of Oral Cancer in Asia in the Past Decade-An Update (2000-2012). *Asian Pac J Cancer Prev*, 14 (10): 5567-5577, DOI: <http://dx.doi.org/10.7314/APJCP.2013.14.10.5567>
- Ribeiro, D.A., Salvadori, D.M.F., Marques, M.A.E, 2005, Abnormal expression of bcl-2 and bax in rat tongue mucosa during the development of squamous

- cell carcinoma induced by 4-nitroquinoline 1-oxide, *Int. J. Exp. Pathol.*, (86): 375–381
- Richardson, M.S., Barnes, L., Carlson, D.L., Chan, J., Ellis, G., Harrison, L.B., Hunt, J.L., Shah, J., Thompson, L.D.R., Zarbo, R.J., Wenig, B.M., 2011, *Protocol for the Examination of Specimens from Patients with Carcinomas of the Lip and Oral Cavity*, USA: College of American Pathologists.
- Rivera, M.C.A., 2012, 4NQO carcinogenesis: a model of oral squamous cell carcinoma. *Int. J. Morphol.*, 30(1):309-314
- Rivera, C., 2015, Essential of Oral Cancer, *Int J Clin Exp Pathol*, 8(9):11884-11894
- Rosin, M.P., Poh, C.F., Elwood, J.M., Williams, P.M., Gallagher, R., MacAulay, C., Lam, W.W., Auluck, A., Hislop, T.G., Zhang, L., 2008, New Hope for an Oral Cancer Solution: Together We Can Make a Difference, *J Can Dent Assoc.*, 74(3): 261–266
- Sanghaa G.S., Halea N.J., Goergen C.J., 2018, Adjustable photoacoustic tomography probe improves light delivery and image quality, *Photoacoustics*, 12: 6–13, <https://doi.org/10.1016/j.pacs.2018.08.002>
- Santosa, I.E., 2013, Penerapan Penghalusan Savitzky-Golay pada Pengukuran Konsentrasi Etilen dengan Detektor Fotoakustik, *Jurnal Penelitian Fisika dan Aplikasinya (JPFA)*, 3 (2): 37-43
- Scheer, M., Neugebauer, J., Derman, A., Fuss, J., Drebber, U., Zoeller, J.E., 2011, Autofluorescence imaging of potentially malignant mucosa lesions, *Oral Surg Oral Med Oral Pathol Oral Radiol Endod.*, 111: 568-577
- Scully, C., dan Bagan, J., 2009, Oral squamous cell carcinoma overview, *Oral Oncology*, (45): 301–308
- Setiawan, A., Suparta, G.B., Mitrayana, Nugroho, W., 2018, Surface Crack Detection With Low-Cost Photoacoustic Imaging System. *International Journal of Technology*, 1: 159-169. DOI: <https://dx.doi.org/10.14716/ijtech.v9i1.1506>
- Shin, D, Vigneswaran, N, Gillenwater, A, Richards-Kortum, R., 2010, Advances in fluorescence imaging techniques to detect oral cancer and its precursors, *Future Oncol.*, 6(7): 1143–1154.
- Sirait, A. M., 2013, Faktor Risiko Tumor / Kanker Rongga Mulut dan Tenggorokan di Indonesia (Analisis Riskesdas 2007), *Media Litbangkes*, 23(3): 122–129.
- Soroushian, B., dan Yang, X., 2011, Measuring non-radiative relaxation time of fluorophores with biomedical applications by photoacoustic effect, *Biomed. Opt. Express*, 2 (10): 2749–2760.
- Squier, C., dan Brogden, K.A., 2011, *Human Oral Mucosa: Development, Structure, and Function*, West Sussex-UK: Wiley-Blackwell John Wiley & Sons, hal.3-16
- Sturgis, E.M, dan Wei, Q., 2007, Epidemiology of Oral Cancer, dalam *Oral Cancer: Diagnosis, Management, and Rehabilitation*, diedit oleh Werning, J.W., New York: Thieme Medical Publisher, hal.1-5
- Sweeny, L., Dean, N.R., Magnuson, J.S., Carroll, W.R., Clemons, L., Rosenthal, E.L., 2011, Assessment of Tissue Autofluorescence and Reflectance for Oral

- Cavity Cancer Screening, *Otolaryngology-Head and Neck Surgery*, 145(6): 956-960
- Syafriadi, M., 2008, Pathogenesis of Oral Cancer. *Indonesian Journal of Dentistry* 15(2): 104–110.
- Tanaka, T., dan Ishigamori, R., 2011, Understanding Carcinogenesis for Fighting Oral Cancer, *Journal of Oncology*, 1-10, DOI:10.1155/2011/603740
- Tanaka, T., Tanaka, M., Tanaka, T., 2011, Oral Carcinogenesis and Oral Cancer Chemoprevention: A Review, *Pathology Research International*, 1-10, DOI:10.4061/2011/431246
- Thomson, P., 2012, *Oral Precancer: Diagnosis and Management of Potentially Malignant Disorders*, UK: Wiley-Blackwell John Wiley & Sons, hal.1-12
- The World Health Organization, 1984, *Bulletin of the World Health Organization*, 62(6): 817- 830
- Torske, K.R., 2007, Malignant Lesions of the Oral Cavity, dalam *Oral Cancer: Diagnosis, Management, and Rehabilitation*, diedit oleh Werning, J.W., New York: Thieme Medical Publisher, hal.18-28
- van der Waal, I., 2013, Are we able to reduce the mortality and morbidity of oral cancer; Some considerations, *Med Oral Patol Oral Cir Bucal.*, 1;18 (1):e33-e37, DOI:10.4317/medoral.18486
- Valluru, K.S., Chinni, B.K., Rao, N.A., 2011, Photoacoustic Imaging: Opening New Frontiers in Medical Imaging, *Journal of Clinical Imaging Science*,1(2): 1-7
- Valluru, K.S., dan Willman, J.K., 2016, Clinical photoacoustic imaging of cancer, *Ultrasonography*; 35: 267-280
- Vengadesan, N, Aruna, P, Ganesan, S., 1998, Characterization of native fluorescence from DMBA-treated hamster cheek pouch buccal mucosa for measuring tissue transformation, *British Journal of Cancer*, 77(3): 391-395
- Vassar, P.S., Hards, J.M, Brooks, D.F., Hagenberger, B., Seaman, G.V., 1972, Physicochemical Effects of Aldehydes on the Human Erythrocyte, *Journal of Cell Biology*, 58: 809-818
- Wagner, V.P., Meurer, L., Martins, M.A.T., Denilevicz, C.K., Magnusson, A.S., Marques, M.M., Filho, M.S., Squarize, C.H., Martins, M.D., 2013, Influence of different energy densities of laser phototherapy on oral wound healing phototherapy on oral wound healing, *Journal of Biomedical Optics*, 18(12): 128002-1 - 128002-7, DOI: 10.1117/1.JBO.18.12.128002
- Wang, L.V., dan Wu H., 2007, *Biomedical Optics: principles and imaging*, USA: Willey-Interscience, hal.283-322.
- Wang, X., Fowlkes, J.B., Cannata, J.M., Hu, C., Carson, P.L., 2011, Photoacoustic Imaging with a Commercial Ultrasound System and a Custom Probe, *Ultrasound Med Biol.*, 37(3): 484–492, DOI:10.1016/j.ultrasmedbio.2010.12.005
- Wang, H., Yang, X., Liu, Y., Jiang, B., Luo, Q., 2013, Reflection-mode optical-resolution photoacoustic microscopy based on a reflective objective, *Optics Express*, 21 (20): 24210-24218. DOI: 10.1364/OE.21.024210

- Wang, T., Nandy, S., Salehi, H.S., Kumavor, P.D., Zhu, Q., 2014, A low-cost photoacoustic microscopy system with a laser diode excitation, *Biomedical Optics Express*, 5 (9): 3053-3058, DOI:10.1364/BOE.5.003053
- Wasono, A.J., dan Sugiarto, I.T., 2010, Penentuan Koefisien Difusi Gas SF<sub>6</sub> pada Tanah Sawah dengan Metode Spektroskopi Fotoakustik Laser CO<sub>2</sub>, *Jurnal Ilmu Pengetahuan dan Teknologi TELAAH*, (27): 8-14
- Whaites E., dan Drage N., 2013, *Essentials of Dental Radiography and Radiology*, 5<sup>th</sup> ed. Churchill Livingstone Elsevier, Elsevier Ltd, Toronto, hal. 9-12.
- Widyaningrum, R, Agustina, D, Mudjosemedi, M., Mitrayana, 2018, Photoacoustic for Oral Soft Tissue Imaging based on Intensity Modulated Continuous-Wave Diode Laser, *International Journal on Advanced Science Engineering Information Technology*, 8(2): 622-627. DOI:10.18517/ijaseit.8.2.2383
- Wilson, K.E., Wang, T.Y., Willmann, J.K., 2013, Acoustic and Photoacoustic Molecular Imaging of Cancer, *J Nucl Med*; 54(11): 1851-1854, DOI:10.2967/jnumed.112.115568
- Wu, D., Huang, L., Jiang, M. S., Jiang, H., 2014, Contrast Agents for Photoacoustic and Thermoacoustic Imaging: A Review, *International Journal of Molecular Sciences*, 15: 23616–23619, DOI:10.3390/ijms151223616
- Xi, L., Satpathy, M., Zhao, Q., Qian, W., Yang, L., Jiang, H., 2014, HER-2/neu targeted delivery of nanoprobe enables dual photoacoustic and fluorescence tomography of ovarian cancer, *Nanomedicine, Nanotechnology, Biology, and Medicine* 10: 669-677, <http://dx.doi.org/10.1016/j.nano.2013.11.004>
- Xia, J., Yao, J., Wang, L.V., 2014, Photoacoustic Tomography: Principles and Advances, *Progress In Electromagnetics Research*, 147:1-22
- Yao, J., dan Wang, L.V., 2011, Photoacoustic tomography: fundamental, advances and prospects, *Contrast Media Mol Imaging*, 6(5): 332-345, DOI:10.1002/cmml.443
- Yao, J., dan Wang, L.V., 2014, Sensitivity of photoacoustic microscopy, *Photoacoustics*, 2: 87–101. <http://dx.doi.org/10.1016/j.pacs.2014.04.002>
- Ye, X., Zhang, J., Tan, Y., Chen, G., Zhou, G., 2015, precancer and cancer. *Oral Oncol*, 51 (11): 966-975, <http://dx.doi.org/10.1016/j.oraloncology.2015.09.002>
- Yi, X., Wang, F., Qin, W., Yang, X., Yuan, J., 2014, Near-infrared fluorescent probes in cancer imaging and therapy: an Meta-analysis of two computer-assisted screening methods for diagnosing oral emerging field. *Journal of Nanomedicine*, 9: 1347–1365, <http://dx.doi.org/10.2147/IJN.S60206>
- Zackrisson, S., van de Ven, S.M.W.Y, Gambhir, S.S., 2014, Light In and Sound Out: Emerging Translational Strategies for Photoacoustic Imaging, *Cancer Res.*; 74(4): 979-1004, DOI: 10.1158/0008-5472.CAN-13-2387.
- Zhao, J., Wang, Z., Han, J., Qiu, X., Pan, J., Chen, J., 2014, Increased frequency of CD4<sup>+</sup> CD25<sup>+</sup> FOXP3<sup>+</sup> cells correlates with the progression of 4-nitroquinoline-1-oxide-induced rat tongue carcinogenesis, *Clin Oral Invest* 18: 1725-1730, DOI:10.1007/s00784-013-1146-5
- Zhang, Y., Hong, H., Cai, W., 2011, Photoacoustic Imaging, *Cold Spring Harb Protoc.*, (9): 1-16, DOI:10.1101/pdb.top065508.

Zhang, J., Yang, S., Ji, X., Zhou, Q., Xing, D., 2014, Characterization of Lipid-Rich Aortic Plaques by Intravascular Photoacoustic Tomography (Ex Vivo and In Vivo Validation in a Rabbit Atherosclerosis Model with Histologic Correlation), *J Am Coll Cardiol*, 64: 385-390, DOI: 10.1016/j.jacc.2014.04.053