

DAFTAR PUSTAKA

- Akram, M., Stuart, M.C., and Wong, D.K.Y., 2004, Direct application strategy to immobilise a thioctic acid self-assembled monolayer on a gold electrode, *Analytica Chimica Acta*, vol.504, 2004, hal 243-251.
- Ayad, M.M., and Minisy, I.M., 2016, Detection and kinetics of methylamine on chitosan film coated quartz crystal microbalance electrode, *Organic Coatings*, 2016, hal 5-10.
- Ayad, M.M., Salahuddin, N., and Minisy, I.M., 2014, Detection of some volatile organic compounds with chitosan-coated quartz crystal microbalance, *Sensors and Actuators B*, vol.17, 2014, hal 795-802.
- Ayad, M.M., and Torad, N.L., 2009, Alcohol vapours sensor based on thin polyaniline salt film and quartz crystal microbalance, *Talanta*, vol.78, 2009, hal 1280-1285.
- Bai, H., and Shi, G., 2007, Gas Sensors Based on Conducting Polymers, *Sensors*, vol.7, 2007, hal 267-307.
- Borah, R. and Kumar, A., 2016, Fluorescence enhancement of glutaraldehyde functionalized polyaniline nanofibers in the presence of aromatic amino acids, *Mater. Sci. Eng. C*, 61, 762-772.
- Bower, D.I., 2002, *An Introduction to Polymer Physics*, Cambridge University Press, Cambridge.
- Chen D., Li J., 2006, Interfacial design and functionization on metal electrodes through self-assembled monolayers, *Surface Science Reports*, vol.61, 2006, hal 445-463.
- Chen, X., Chen, X., Li, N., Ding, X. and Zhao, X., 2016, A QCM humidity sensors based on GO/Nafion composite films with enhanced sensitivity, *IEEE Sens. J.*, 16, 24, 1-1.
- Chisholm, R., Parkin, J.D., Smith, A.D. and Hhner, G., 2016, Isothiourea-Mediated Organocatalytic Michael Addition-Lactonization on a Surface: Modification of SAMs on Silicon Oxide Substrates, *Langmuir*, 32, 13, 3130-3138.

- Cimpoca, Gh.V., Popescu, I.V., Dulama, I.D., Radulescu, C., Bancuta, I., Cimpoca, M., Cernica, I., Schiopu, V., Danila, M., Gavrilă, R., 2009, Self Assembled Monolayer of Ethanthiol on Gold Surfaces by Quartz Crystal Microbalance, International Semiconductor Conference, IEEE Conference Publications, Vol. 1, 135-138.
- Dubas, S.T., Iamsamai, C., and Potiyaraj, P., 2006, Optical alcohol sensor based on dye-Chitosan polyelectrolyte multilayers, *Sensors and Actuators B*, vol.113, 2006, hal 370-375.
- Erbahar D.D., Harbeck M., Gumus G., Gurol I., Ahsen V., 2014, Self-assembly of phthalocyanines on quartz crystal microbalances for QCM liquid sensing applications, *Sensors and Actuators B*, vol.190, 2014, hal 651-656.
- Escuderos, M.E., SÁnchez, S. and JimÁñez, A., 2011. Application of a Quartz Crystal Microbalance (QCM) System Coated with Chromatographic Adsorbents for the Detection of Olive Oil Volatile Compounds, *Journal of Sensor Technology*, 1(1), pp.1-8.
- Gardner, J.W., and Bartlett, P.N. (1994). A brief history of electronic noses. *Sensors and Actuators B: Chemical*, 18(1-3), 210-211.
- Geng, X., Kwon, O.-H., and Jang, J., 2005, Electrospinning of chitosan dissolved in concentrated acetic acid solution, *Biomaterials*, vol.26, 2005, hal 5427-5432.
- Gwenin C.D., Jones J.P., Kalaji M., Lewis T.J., Llewellyn J.P., Williams P.A., 2007, Viscoelastic change following adsorption and subsequent molecular reorganisation of a nitroreductase enzyme on a gold surface: A QCM study, *Sensors and Actuators B*, vol.126, 2007, hal 499-507.
- Havare, A.K., Ilgu., Okur, S. and Sanli-Mohamed, G., 2012, Humidity Sensing Properties of Chitosan by Using Quartz Crystal Microbalance Method, *Sens. Lett.*, 10, 3, 906-910.
- He H., Zhou L., Wang Y., Li C., Yao J., Zhang W., Zhang Q., Li M., Li H., and Dong W., 2015, Detection of trace microcystin-LR on a 20 MHz QCM sensor coated with in situ self-assembled MIPs, *Talanta*, vol.131, 2015, hal 8-13.
- Hernandez P., Vicente J., and Hernandez L., 2003, Self-Assembled Monolayer of L-Cysteine on a Gold Electrode as a Support for Fatty Acid. Application to the Ele-

- croanalytical Determination of Unsaturated Fatty Acid, *Electroanalysis*, vol.15, 2003, hal 1625-1631.
- Hoogvliet, J.C., Dijkma, M., Kamp, B., and Van Bennekom, W.P., 2000, Electrochemical pretreatment of polycrystalline gold electrodes to produce a reproducible surface roughness for self-assembly: a study in phosphate buffer pH 7.4, *Analytical chemistry*, vol.72, 2000, hal 2016-2021.
- Jia, T.Y., Gong, J., Gu, X.H., Kim, H.Y., Dong, J., and Shen, X.Y., 2007, Fabrication and characterization of poly (vinyl alcohol)/chitosan blend nanoWbers produced by electrospinning method, *Carbohydrate Polymers*, vol.67, 2007, hal 403-409.
- Kumar, A., Brunet, J., Varenne, C., Ndiaye, A., Pauly, A., Penza, M. and Alvisi, M., 2015, Tetra-tert-butyl copper phthalocyanine-based QCM sensor for toluene detection in air at room temperature, *Sensors Actuators B Chem.*, 210, 398-407.
- Moccelini S.K., Fernandes S.C., Vieira I.C., 2008, Bean sprout peroxidase biosensor based on l-cysteine self-assembled monolayer for the determination of dopamine, *Sensors and Actuators B*, vol.133, 2008, hal 364-369.
- Oliveira M.D.L., Andrade C.A.S., Correia M.T.S., Coelho L.C.C.B., Singh P.R., and Zeng X., 2011, Impedimetric biosensor based on self-assembled hybrid cystein-gold nanoparticles and CramoLL lectin for bacterial lipopolysaccharide recognition, *Journal of Colloid and Interface Science*, vol.362, 2011, hal 194-201.
- Pantaine, L., Humblot, V., Coeffard, V. and VallÃ'e, A., 2017, Sulfamide chemistry applied to the functionalization of self-assembled monolayers on gold surfaces, *Beilstein J. Org. Chem.*, 13, 648-658.
- Pearce, T.C., Schiffman, S.S., Nagle, H.T., dan Gardner, J.W., 2003, Handbook of Machine Olfaction, WILEY-VCH, Jerman.
- Pohanish, P.R., 2012, *Sitting's handbook of toxic and hazardous chemicals and carcinogens*. Sixth ed., Amsterdam, Boston, Heidelberg, London, New York, Oxford, Paris, San Diego, San Fransico, Singapore, Sydney, and Tokyo.
- Sharma, P., Ghosh, A., Tudu, B., Sabhapondit, S., Baruah, B.D., Tamuly, P., Bhat-tacharyya, N. and Bandyopadhyay, R., 2015, Monitoring the fermentation process of black tea using QCM sensor based electronic nose, *Sensors Actuators, B Chem.*, 219, 146-157.

- Shin M.J., Hong W.H., 2011, Sensing capability of molecularly imprinted self-assembled monolayer, *Biochemical Engineering Journal*, vol.54, 2011, hal 57-61.
- Taguchi, N. (1971). U.S. patent 3631436.
- Tan G., Dinnes D.L.M., Butler L.N., and Cooper-White J.J., 2010, Interactions between meniscal cells and a self assembled biomimetic surface composed of hyaluronic acid, chitosan and meniscal extracellular matrix molecules, *Biomaterials*, vol.31, 2010, hal 6104-6118.
- Texas, instrument, 2016. Quartz Crystal Oscillator and Quartz Crystals. [online] AspenCore, Inc. Available at: <http://www.electronics-tutorials.ws/oscillator/crystal.html> [Accessed 20 Sep.2016].
- Vives, A.A., 2008, *Piezoelectric Transducers and Applications*. Second ed. *Statewide Agricultural Land Use Baseline 2008*, Berlin, Heidelberg: Springer Berlin Heidelberg.
- Wang , Xianfeng., Ding , Bin., Sun, Min., Yu, Jianyong., Sun, Gang., 2010, Nanofibrous Polyethyleneimine Membranes as Sensitive Coatings for Quartz Crystal Microbalance-Based Formaldehyde Sensors, *Sensors and Actuators B*, vol.144, hal 11-17.
- Yuan, Z., Tai, H., Bao, X., Liu, C., Ye, Z. and Jiang, Y., 2016, Enhanced humidity-sensing properties of novel graphene oxide/zinc oxide nanoparticles layered thin film QCM sensor, *Mater. Lett.*, 174, 28-31.
- Yurish, S. Y. and Gomes, M.T.S.R., 2003. Smart Sensor and MEMS. In: *NATO Advanced Study Institute on Smart Sensors and MEMS*. Portugal: Kluwer Academic Publishers, pp.1-489.
- Zhou, Y., Yang, D., Chen, X., Xu, Q., Lu, F., and Nie, J., 2008, Electrospun Water-Soluble Carboxyethyl Chitosan/Poly(vinyl alcohol) Nanofibrous Membrane as Potential Wound Dressing for Skin Regeneration, *Biomacromolecules*, Vol.9, 2008, hal 349-354.
- Zhang, H.-D., Yan, X., Zhang, Z.-H., Yu, G., Han, W., Zhang, J., and Long, Y., 2016. Electrospun PEDOT:PSS/PVP Nanofibers for CO Gas Sensing with Quartz Crystal Microbalance Technique, *International Journal of Polymer Science*, 2016, pp.1-6.