

DAFTAR PUSTAKA

- A. G. Papathanasiou, A. T. Papaioannou, Boudouvis, A. G., Abbott, A. P., Capper, G., McKenzie, K. J., ... Zisman, W. A. (2008). Relation of the Equilibrium Contact Angle to Liquid and Solid Constitution. *Langmuir*, 16(2), 1–51.
- Anwar, Choirul. 2016. *Studi Pengaruh Perlakuan Plasma Nitrogen terhadap Kekasaran dan Tingkat Kebasahan Permukaan Polistirena dengan Variasi Pelarut*. Malang: Universitas Brawijaya.
- Baican, M., Paslaru, E., Hitruc, E. G., & Vasile, C. (2011). Albumin immobilization on polyvinylidene fluoride surfaces. *Digest Journal of Nanomaterials and Biostructures*, 6(3), 1053–1064.
- Chang, B., & Zhao, T. (2008). *Quartz Crystal Microbalance Study Of Dna Immobilization And Hybridization For DNA*. Michigan State University.
- Didik, Lalu A., Eka Rahmawati, Fadli Robiandi, Susi Rahayu1, Abdurrouf, D.J. Djoko H. Santjojo, Setyawan P. Sakti, dan Masruroh. 2014. Penentuan Ketebalan Lapisan Polistiren dan Zinc Phthalocyanine (ZnPc) dengan Modifikasi Persamaan Sauerbrey dan Scanning Electron Microscope (SEM). *Natural B. Vol 2*, 331335.
- Duncan, Bruce., Richard Mera, Doug Leatherdale, Mark Taylor. 2006. *Techniques For Characterising The Wetting, Coating And Spreading Of Adhesives On Surfaces*. National Physical Laboratory.
- Foerch, R., McIntyre, N. S., & Sodhi, R. N. S. 1990. Nitrogen Plasma Treatment of Polyethylene and Polystyrene in a Remote Plasma Reactor. *Journal of Applied Polymer Science*. Vol40, 1903–1915.
- Fridman, Alexander. 2008. *Plasma Chemistry*. New York: Cambridge University Press.
- Friedrich, Jorg. 2012. *The Plasma Chemistry of Polymer Surfaces*. Weinheim : Wiley Publisher.
- Hauck, S., Drost, S., Prohaska, E., Wolf, H., & Dübel, S. 2002. *Protein– Protein Interactions: A Molecular Cloning Manual*. Cold Spring Harbor Laboratory Press.

- Hidayanti, In., Sutantri, R. E., & Santjojo, D. J. D. 2015. Pengaruh Substrat terhadap Morfologi Lapisan Zinc Phthalocyanin (ZnPc) yang Ditumbuhkan dengan Metode Evaporasi. *Physics Student Journal*
- Kaklamani, G. 2012. *The Effect of Active Screen Plasma Nitriding on the Cellular Compatibility of Polymeric Biomaterials*. University of Birmingham.
- Kim, H. J., Lee, H. H., Kim, J. W., Jang, J., & Kim, J.-J. (2012). Surface dependent thermal evolution of the nanostructures in ultra-thin copper(ii) phthalocyanine films. *Journal of Materials Chemistry*, 22, 8881.
- Lathe, S. S., Terashima, C., Nakata, K., & Fujishima, A. (2014). Superhydrophobic Surfaces Developed By Mimicking Hierarchical Surface Morphology Of Lotus Leaf. *Molecules*, 19(4), 4256–4283.
- Lazerges, M., Perrot, H., Zeghib, N., et al. In situ QCM DNA-biosensor probe modification. *Sensors and Actuators B*, 2006, 120: 329-337.
- Masruroh, Djoko, D. J. D. ., Didik, L. A., Rahmawati, E., Pagaga, M., Abdurrouf, & Sakti, S. P. (2014). Solvent Effect on Morphology of Polystyrene Coating and their Role to Improvement for Biomolecule Immobilization in Application of QCM Based Biosensor. *Applied Mechanics and Materials*, 530–531, 54–57.
- Masruroh., Djoko, D. J. D. H., Didik, L. A., Rachmawati, E., Robiandi, F., Padaga, M., & Sakti, S. P. (2015). Modification of Polystyrene Morphology and Its influence to the Coated Zinc Phthalocyanine Layer and Frequency Change in QCM sensor, 827, 257–261. <https://doi.org/10.4028/www.scientific.net/MSF.827.257>
- Nilamsari, Annisa. 2016. Pengukuran Kelembaban Udara Menggunakan Sensor Quartz Crystal Microbalance dengan Variasi Ketebalan ZnPc. Malang: Universitas Brawijaya.
- Nilson, Katharina. 2003. *Phthalocyanines on Surfaces Monolayers, Films and Alkali Modified Structures*. Uppsala Universitet.
- Phan, H. T. M., Bartelt-Hunt, S., Rodenhausen, K. B., Schubert, M., & Bartz, J. C. (2015). Investigation of bovine serum albumin (BSA)

- attachment onto self-assembled monolayers (SAMs) using combinatorial quartz crystal microbalance with dissipation (QCMD) and spectroscopic ellipsometry (SE). *PLoS ONE*, *10*(10).
- Pye, David. 2013. *Practical Nitriding and Ferritic Nitrocarburizing*. New York: ASM publisher.
- Sahu, Niranjana., B. Parija, dan S Panighrahi. 2009. Fundamental Understanding of Spin Coating Process. *Indian Journal of Physics*. **Vol. 83**: 493-502.
- Sakti, S. P., Rösler, S., Lucklum, R., Hauptmann, P., Bühling, F., & Ansoerge, S. 1999. Thick Polystyrene-Coated Quartz Crystal Microbalance As A Basis Of A Cost Effective Immunosensor. *Sensors And Actuators, A: Physical*, *76*(1–3), 98–102.
- Sakti, S. P., & Santjojo, D. J. D. H. (2012). Improvement of Biomolecule Immobilization on Polystyrene Surface by Increasing Surface Roughness. *Journal of Biosensors & Bioelectronics*, *3*(3),
- Santjojo, D. J. D. H., Irawan, Y. S., & Robiandi, F. 2016. Synthesis of ZnPc Functional Layer on QCM Biosensor with Polystyrene Interlayer by means of Evaporation Techniques, *30023*.
- Singh, S., Saini, G. S. S., & Tripathi, S. K. (2014). Sensors and Actuators B: Chemical Sensing properties of ZnPc thin films studied by electrical and optikal techniques. *Sensors & Actuators: B. Chemical*, *203*, 118–121.
- Wang, H., Liu, Y., Li, M., Huang, H., Xu, H. M., Hong, R. J., & Shen, H. (2010). Multifunctional TiO₂ nanowires-modified nanoparticles bilayer film for 3D dye-sensitized solar cells. *Optoelectronics and Advanced Materials, Rapid Communications*, *4*(8), 1166–1169.
- Vinokur, J., Shamieh, B., Deckman, I., Singhal, A., & Frey, G. L. (2016). Mechanisms for Spontaneous Generation of Interlayers in Organic Solar Cells. *Chemistry of Materials*, *28*(24), 8851–8870.
- Yoon, Jeong-Yeol. 2013. *Introduction to Biosensors from Electric Circuits to Immunosensors*. Springer Publisher: New York.

Zaplotnik, R., Kolar, M., Doliška, A., & Stana-Kleinschek, K. (2011).
Modification of PET-polymer surface by nitrogen plasma.
Materiali in Tehnologije, 45(3), 199–203.