

DAFTAR PUSTAKA

- Alabdullah, S. S. M., Abass, A. M., & Salman, H. G. (2022). Deep Eutectic Solvents Enhance Stability of Ag/AgCl SolidState Miniaturised Reference Electrode. *Chemosensors*, 10(6). <https://doi.org/10.3390/chemosensors10060216>
- Alva, S., Binti Abdul Aziz, A. S., Bin Syono, M. I., & Bin Wan Jamil, W. A. (2018). Ag/AgCl reference electrode based on thin film of arabic gum membrane. *Indonesian Journal of Chemistry*, 18(3), 479–485. <https://doi.org/10.22146/ijc.28859>
- Bindu, S., Mazumder, S., & Bandyopadhyay, U. (2020). Non-steroidal anti-inflammatory drugs (NSAIDs) and organ damage: A current perspective. In *Biochemical Pharmacology* (Vol. 180, p. 114147). Elsevier Inc. <https://doi.org/10.1016/j.bcp.2020.114147>
- Cheng, K. L., & Zhu, D.-M. (2005). On Calibration of pH Meters. In *Sensors* (Vol. 5). <http://www.mdpi.net/sensors>
- Desmira, Aribowo, D., & Pratama, R. (2018). PENERAPAN SENSOR pH PADA AREA ELEKTROLIZER DI PT. SULFINDO ADIUSAHA. *Jurnal PROSISKO*, 5(1), 9–12.
- El-Ragehy, N. A., Hegazy, M. A., AbdelHamid, G., & Tawfik, S. A. (2018). Validated potentiometric method for the determination of sulfacetamide sodium; application to its pharmaceutical formulations and spiked rabbit aqueous humor. *Bulletin of Faculty of Pharmacy, Cairo University*, 56(2), 207–212. <https://doi.org/10.1016/j.bfopcu.2018.08.002>
- Guhmann, M., Preis, M., Gerber, F., Pöllinger, N., Breitzkreutz, J., & Weitschies, W. (2012). Development of oral taste masked diclofenac formulations using a taste sensing system. *International Journal of Pharmaceutics*, 438(1–2), 81–90. <https://doi.org/10.1016/j.ijpharm.2012.08.047>
- Harada, Y., Noda, J., Yatabe, R., Ikezaki, H., & Toko, K. (2016). Research on the changes to the lipid/polymer membrane used in the acidic bitterness sensor caused by preconditioning. *Sensors*, 16(2), 230. <https://doi.org/10.3390/s16020230>
- Harvey, D. (2022). *INTRUMENTAL ANALYSIS*. <https://LibreTexts.org>
- Iiyama, S., Iida, Y., & Toko, K. (1998). Measurement of Umami Substances Using Multichannel Taste Sensor with Lipid Membranes. In *Sensors and Materials* (Vol. 10, Issue 8).
- Jafari, B., Muthuvel, M., & Botte, G. G. (2021). Nickel-based electrochemical sensor with a wide detection range for measuring hydroxyl ions and pH sensing. *Journal of Electroanalytical Chemistry*, 895. <https://doi.org/10.1016/j.jelechem.2021.115547>
- Jang, M., & Han, M. S. (2023). A pH-responsive sensor based on intramolecular internal standard for reproducible detection of strong acids and bases via ¹⁹F NMR spectroscopy. *Analytica Chimica Acta*, 1274, 341558. <https://doi.org/10.1016/j.aca.2023.341558>

- Khaksarfard, Y., Bagheri, A., & Rafati, A. A. (2023). Synergistic effects of binary surfactant mixtures in the adsorption of diclofenac sodium drug from aqueous solution by modified zeolite. In *Journal of Colloid and Interface Science* (Vol. 644). Academic Press Inc. <https://doi.org/10.1016/j.jcis.2023.04.044>
- Kobayashi, Y., Habara, M., Ikezaki, H., Chen, R., Naito, Y., & Toko, K. (2010). Advanced taste sensors based on artificial lipids with global selectivity to basic taste qualities and high correlation to sensory scores. In *Sensors* (Vol. 10, Issue 4). <https://doi.org/10.3390/s100403411>
- Manjakkal, L., Pascual, C. L., & Dahiya, R. (2017). Electrochemical Sensors with Screen Printed Ag|AgCl|KCl Reference Electrodes. *Proceedings of IEEE Sensors*, 1–3. <https://doi.org/10.1109/ICSENS.2017.8234044>
- Maryanto, A., & Kurniawan, F. (2016). Fabrikasi Elektroda Pembanding Ag/AgCl Menggunakan Membran Poliisoprena dan LDPE. *Sains Dan Seni ITS*, 5(2), 2337–3520.
- Noval, & Rosyifa. (2021). Sprersi Padat Untuk Peningkatan Laju Disolusi Natrium Diklofenak Dengan Variasi Konsentrasi Polivinil Piridon K30. *Jurnal Surya Medika (JSM)*.
- Okulik, N., & Jubert, A. H. (2006). Theoretical study on the structure and reactive sites of three non-steroidal anti-inflammatory drugs: Ibuprofen, Naproxen and Tolmetin acids. *Journal of Molecular Structure: THEOCHEM*, 769(1–3), 135–141. <https://doi.org/10.1016/j.theochem.2005.10.061>
- Polat, M. Y., Beyaz, A., & Çilingir, İ. (2020). Development of a Low-Cost pH Meter for Liquid Chemical Fertilizers. *Turkish Journal of Agriculture - Food Science and Technology*, 8(4), 840–846. <https://doi.org/10.24925/turjaf.v8i4.840-846.2911>
- Sharma, G., Kumar, S., Kumar, A., Sharma, A., Kumar, R., Kaur, R., & Bhondekar, A. P. (2015). Development of Lipid Membrane Based Taste Sensors for Electronic Tongue. *Procedia Computer Science*, 70, 146–152. <https://doi.org/10.1016/j.procs.2015.10.062>
- Tahara, Y., & Toko, K. (2013). Electronic tongues-a review. *IEEE Sensors Journal*, 13(8), 3001–3011. <https://doi.org/10.1109/JSEN.2013.2263125>
- Tamara, M. R., Lelono, D., Roto, R., & Triyana, K. (2023). All-solid-state astringent taste sensor using polypyrrole-carbon black composite as ion-electron transducer. *Sensors and Actuators A: Physical*, 351. <https://doi.org/10.1016/j.sna.2023.114170>
- Tan, J., & Xu, J. (2020). Applications of electronic nose (e-nose) and electronic tongue (e-tongue) in food quality-related properties determination: A review. *Artificial Intelligence in Agriculture*, 4, 104–115. <https://doi.org/10.1016/j.aiia.2020.06.003>
- Toko, K., Hara, D., Tahara, Y., Yasuura, M., & Ikezaki, H. (2014). Relationship between the amount of bitter substances adsorbed onto lipid/polymer membrane and the electric response of taste sensors. *Sensors (Switzerland)*, 14(9), 16274–16286. <https://doi.org/10.3390/s140916274>
- Uchida, T., Miyanaga, Y., Tanaka, H., Wada, K., Kurosaki, S., Ohki, T., Yoshida, M., & Matsuyama, K. (2000). Quantitative Evaluation of the Bitterness of Commercial Medicines Using a Taste Sensor. *Chem. Pharm. Bull*, 48, 1843–1845.

- Uzzaman, M., Hasan, M. K., Mahmud, S., Fatema, K., & Matin, M. M. (2021). Structure-based design of new diclofenac: Physicochemical, spectral, molecular docking, dynamics simulation and ADMET studies. *Informatics in Medicine Unlocked*, 25, 100677. <https://doi.org/10.1016/j.imu.2021.100677>
- Wu, X., Tahara, Y., Yatabe, R., & Toko, K. (2020a). Taste Sensor: Electronic Tongue with Lipid Membranes. *Analytical Science*, 36, 147–159.
- Wu, X., Tahara, Y., Yatabe, R., & Toko, K. (2020b). Taste Sensor: Electronic Tongue with Lipid Membranes. *Analytical Sciences*, 36, 147–159.
- Wu, X., & Toko, K. (2023). Taste sensor with multiarray lipid/polymer membranes. In *TrAC - Trends in Analytical Chemistry* (Vol. 158). Elsevier B.V. <https://doi.org/10.1016/j.trac.2022.116874>
- Wu, X., Yuan, Y., Tahara, Y., Habara, M., Ikezaki, H., & Toko, K. (2020). Reusability Enhancement of Taste Sensor Using Lipid Polymer Membranes by Surfactant Cleaning Treatment. *IEEE Sensors Journal*, 20(9), 4579–4586. <https://doi.org/10.1109/JSEN.2020.2967083>
- Xiang, Z., Jing, Y., Ikezaki, H., & Toko, K. (2021). Electrical properties of two types of membrane component used in taste sensors. *Sensors*, 21(24). <https://doi.org/10.3390/s21248343>
- Yasuura, M., Tahara, Y., Ikezaki, H., & Toko, K. (2014). Development of a sweetness sensor for aspartame, a positively charged high-potency sweetener. *Sensors (Switzerland)*, 14(4), 7359–7373. <https://doi.org/10.3390/s140407359>
- Yatabe, R., Noda, J., Tahara, Y., Naito, Y., Ikezaki, H., & Toko, K. (2015a). Analysis of a lipid/polymer membrane for bitterness sensing with a preconditioning process. *Sensors (Switzerland)*, 15(9), 22439–22450. <https://doi.org/10.3390/s150922439>
- Yatabe, R., Noda, J., Tahara, Y., Naito, Y., Ikezaki, H., & Toko, K. (2015b). Analysis of a lipid/polymer membrane for bitterness sensing with a preconditioning process. In *Sensors (Switzerland)* (Vol. 15, Issue 9). MDPI AG. <https://doi.org/10.3390/s150922439>
- Yoshida, M., Haraguchi, T., & Uchida, T. (2014). Bitterness Evaluation of Acidic Pharmaceutical Substances (NSAIDs) Using a Taste Sensor. *Chem. Pharm. Bull*, 62(12), 1252–1258.
- Žilnik, L. F., Jazbinšek, A., Hvala, A., Vrečer, F., & Klamt, A. (2007). Solubility of sodium diclofenac in different solvents. *Fluid Phase Equilibria*, 261(1–2), 140–145. <https://doi.org/10.1016/j.fluid.2007.07.020>