

DAFTAR PUSTAKA

- Angumeenal, A. R., & Venkappayya, D. (2013). An overview of citric acid production. *Lwt*, *50*(2), 367–370. <https://doi.org/10.1016/j.lwt.2012.05.016>
- Brautbar, N., Wu, M. P., & Richter, E. D. (2003). Chronic ammonia inhalation and interstitial pulmonary fibrosis: A Case report and review of the literature. *Archives of Environmental Health*, *58*(9), 592–596. <https://doi.org/10.3200/AEOH.58.9.592-596>
- Ciriminna, R., Meneguzzo, F., Delisi, R., & Pagliaro, M. (2017). Citric acid: Emerging applications of key biotechnology industrial product. *Chemistry Central Journal*, *11*(1), 1–9. <https://doi.org/10.1186/s13065-017-0251-y>
- Elfsmark, L., Ågren, L., Akfur, C., Wigenstam, E., Bergström, U., & Jonasson, S. (2019). Comparisons of acute inflammatory responses of nose-only inhalation and intratracheal instillation of ammonia in rats. *Inhalation Toxicology*, *31*(3), 107–118. <https://doi.org/10.1080/08958378.2019.1606367>
- Ghanbari, D., Salavati-Niasari, M., Khaghani, S., & Beshkar, F. (2016). Preparation of Polyvinyl Acetate (PVAc) and PVAc–Ag–Fe₃O₄ Composite *Nanofibers* by Electro-spinning Method. *Journal of Cluster Science*, *27*(4), 1317–1333. <https://doi.org/10.1007/s10876-016-1002-2>
- Gong, W., Zhang, Y., Huang, X., & Luan, S. (2013). High-resolution measurement of ammonia emissions from fertilization of vegetable and rice crops in the Pearl River Delta Region, China. *Atmospheric Environment*, *65*, 1–10. <https://doi.org/10.1016/j.atmosenv.2012.08.027>
- Hajikhani, M., & Lin, M. (2022). A review on designing *nanofibers* with high porous and rough surface via electrospinning technology for rapid detection of food quality and safety attributes. *Trends in Food Science and Technology*, *128*(July), 118–128. <https://doi.org/10.1016/j.tifs.2022.08.003>
- Ho, C. Y., & Wu, Y. S. (2020). Diamine decorated graphene oxide film on quartz crystal microbalance for humidity-sensing analysis. *Applied Surface Science*, *510*(December 2018), 145257. <https://doi.org/10.1016/j.apsusc.2020.145257>
- Hörmann, V., Brenske, K. R., & Ulrichs, C. (2017). Suitability of Test Chambers for Analyzing Air Pollutant Removal by Plants and Assessing Potential Indoor Air Purification. *Water, Air, and Soil Pollution*, *228*(10). <https://doi.org/10.1007/s11270-017-3586-z>
- Hulupi, M., & Haryadi, H. (2019). Synthesis and characterization of electrospinning PVA *nanofiber*-crosslinked by glutaraldehyde. *Materials Today: Proceedings*, *13*, 199–204. <https://doi.org/10.1016/j.matpr.2019.03.214>
- Jia, Y., Yu, H., Cai, J., Li, Z., & Dong, F. (2017). Explore on the quantitative analysis of specific surface area on sensitivity of polyacrylic acid-based QCM

- ammonia sensor. *Sensors and Actuators, B: Chemical*, 243, 1042–1045. <https://doi.org/10.1016/j.snb.2016.12.090>
- Jia, Y., Yu, H., Zhang, Y., Dong, F., & Li, Z. (2016). Cellulose acetate nanofibers coated layer-by-layer with polyethylenimine and graphene oxide on a quartz crystal microbalance for use as a highly sensitive ammonia sensor Yongtang. *Colloids and Surfaces B: Biointerfaces*, 148, 263–269. <https://doi.org/10.1016/j.colsurfb.2016.09.007>
- Julian, T., Rianjanu, A., Hidayat, S. N., Kusumaatmaja, A., Roto, R., & Triyana, K. (2019). Quartz crystal microbalance coated with PEDOT-PSS/PVA nanofiber for a high-performance humidity sensor. *Journal of Sensors and Sensor Systems*, 8(2), 243–250. <https://doi.org/10.5194/jsss-8-243-2019>
- Kaltsidi, M. P., Fernández-Cañero, R., & Pérez-Urrestarazu, L. (2020). Assessment of different LED lighting systems for indoor living walls. *Scientia Horticulturae*, 272(January), 109522. <https://doi.org/10.1016/j.scienta.2020.109522>
- Karthikeyan, A., & Sivakumar, N. (2010). Citric acid production by Koji fermentation using banana peel as a novel substrate. *Bioresource Technology*, 101(14), 5552–5556. <https://doi.org/10.1016/j.biortech.2010.02.063>
- Khan, S., Shah, Z. H., Riaz, S., Ahmad, N., Islam, S., Raza, M. A., & Naseem, S. (2020). Antimicrobial activity of citric acid functionalized iron oxide nanoparticles –Superparamagnetic effect. *Ceramics International*, 46(8), 10942–10951. <https://doi.org/10.1016/j.ceramint.2020.01.109>
- King, S. G., Stolojan, V., & Silva, S. R. P. (2018). Large area uniform electrospun polymer nanofibres by balancing of the electrostatic field. *Reactive and Functional Polymers*, 129(October 2017), 89–94. <https://doi.org/10.1016/j.reactfunctpolym.2017.10.017>
- Li, X., Chen, X., Yao, Y., Li, N., & Chen, X. (2014). High-stability quartz crystal microbalance ammonia sensor utilizing graphene oxide isolation layer. *Sensors and Actuators, B: Chemical*, 196, 183–188. <https://doi.org/10.1016/j.snb.2014.01.088>
- Li, X., Xu, J., Jiang, Y., He, Z., Liu, B., Xie, H., Li, H., Li, Z., Wang, Y., & Tai, H. (2020). Toward agricultural ammonia volatilization monitoring: A flexible polyaniline/Ti3C2Tx hybrid sensitive films based gas sensor. *Sensors and Actuators, B: Chemical*, 316(April). <https://doi.org/10.1016/j.snb.2020.128144>
- Mandal, S., Donner, E., Smith, E., Sarkar, B., & Lombi, E. (2019). Biochar with near-neutral pH reduces ammonia volatilization and improves plant growth in a soil-plant system: A closed chamber experiment. *Science of the Total Environment*, 697, 134114. <https://doi.org/10.1016/j.scitotenv.2019.134114>

- Mehta, P., Haj-Ahmad, R., Rasekh, M., Arshad, M. S., Smith, A., van der Merwe, S. M., Li, X., Chang, M. W., & Ahmad, Z. (2017). Pharmaceutical and biomaterial engineering via electrohydrodynamic atomization technologies. *Drug Discovery Today*, 22(1), 157–165. <https://doi.org/10.1016/j.drudis.2016.09.021>
- Mikami, Y., Yoneda, H., Tatsukami, Y., Aoki, W., & Ueda, M. (2017). Ammonia production from amino acid-based biomass-like sources by engineered *Escherichia coli*. Dalam *AMB Express* (Vol. 7, Issue 1). <https://doi.org/10.1186/s13568-017-0385-2>
- Min, J., Zhao, X., Shi, W. M., Xing, G. X., & Zhu, Z. L. (2011). Nitrogen Balance and Loss in a Greenhouse Vegetable System in Southeastern China. *Pedosphere*, 21(4), 464–472. [https://doi.org/10.1016/S1002-0160\(11\)60148-3](https://doi.org/10.1016/S1002-0160(11)60148-3)
- Mingjun, C., Youchen, Z., Haoyi, L., Xiangnan, L., Yumei, D., Bubakir, M. M., & Weimin, Y. (2019). An example of industrialization of melt electrospinning: Polymer melt differential electrospinning. *Advanced Industrial and Engineering Polymer Research*, 2(3), 110–115. <https://doi.org/10.1016/j.aiepr.2019.06.002>
- Naderi, H., Hajati, S., Ghaedi, M., Dashtian, K., & Sabzehmeidani, M. M. (2020). Sensitive, selective and rapid ammonia-sensing by gold nanoparticle-sensitized V2O5/CuWO4 heterojunctions for exhaled breath analysis. *Applied Surface Science*, 501(October 2019), 144270. <https://doi.org/10.1016/j.apsusc.2019.144270>
- Ni, K., Köster, J. R., Seidel, A., & Pacholski, A. (2015). Field measurement of ammonia emissions after nitrogen fertilization-A comparison between micrometeorological and chamber methods. *European Journal of Agronomy*, 71, 115–122. <https://doi.org/10.1016/j.eja.2015.09.004>
- Pal, D. B., Srivastava, P., Mishra, A., Giri, D. D., Srivastava, K. R., Singh, P., Awasthi, S., Kumari, L., & Mishra, P. K. (2017). Synthesis and characterization of bio-composite *nanofiber* for controlled drug release. *Journal of Environmental Chemical Engineering*, 5(6), 5843–5849. <https://doi.org/10.1016/j.jece.2017.11.020>
- Papagianni, M. (2007). Advances in citric acid fermentation by *Aspergillus niger*: Biochemical aspects, membrane transport and modeling. *Biotechnology Advances*, 25(3), 244–263. <https://doi.org/10.1016/j.biotechadv.2007.01.002>
- Park, J. Y., Lee, I. H., & Bea, G. N. (2008). Optimization of the electrospinning conditions for preparation of *nanofibers* from polyvinylacetate (PVAc) in ethanol solvent. *Journal of Industrial and Engineering Chemistry*, 14(6), 707–713. <https://doi.org/10.1016/j.jiec.2008.03.006>
- Parseh, I., Teiri, H., Hajizadeh, Y., & Ebrahimpour, K. (2018). Phytoremediation of benzene vapors from indoor air by *Schefflera arboricola* and *Spathiphyllum*

- wallisii plants. *Atmospheric Pollution Research*, 9(6), 1083–1087.
<https://doi.org/10.1016/j.apr.2018.04.005>
- Phuoc, P. H., Hung, C. M., van Toan, N., van Duy, N., Hoa, N. D., & van Hieu, N. (2020). One-step fabrication of SnO₂ porous *nanofiber* gas sensors for sub-ppm H₂S detection. *Sensors and Actuators, A: Physical*, 303, 111722.
<https://doi.org/10.1016/j.sna.2019.111722>
- Pradeepa, P., Sowmya, G., Edwinraj, S., Fareetha Begum, G., & Ramesh Prabhu, M. (2016). Influence of Al₂O₃ on the structure and electrochemical properties of PVAc / PMMA based blend composite polymer electrolytes. *Materials Today: Proceedings*, 3(6), 2187–2196.
<https://doi.org/10.1016/j.matpr.2016.04.125>
- Qian, Y., Sohn, M. K., Park, H. J., Hwang, J. S., Subramanian, K. R. V., & Kang, D. J. (2020). Universal 2D material film transfer using a novel low molecular weight polyvinyl acetate. *Applied Surface Science*, 534(July), 147650.
<https://doi.org/10.1016/j.apsusc.2020.147650>
- Rostamabadi, H., Assadpour, E., Tabarestani, H. S., Falsafi, S. R., & Jafari, S. M. (2020). Electrospinning approach for nanoencapsulation of bioactive compounds; recent advances and innovations. *Trends in Food Science and Technology*, 100(January), 190–209.
<https://doi.org/10.1016/j.tifs.2020.04.012>
- Roto, R., Rianjanu, A., Rahmawati, A., Fatyadi, I. A., Yulianto, N., Majid, N., Syamsu, I., Wasisto, H. S., & Triyana, K. (2020). Quartz Crystal Microbalances Functionalized with Citric Acid-Doped Polyvinyl Acetate *Nanofibers* for Ammonia Sensing. *ACS Applied Nano Materials*, 3(6), 5687–5697. <https://doi.org/10.1021/acsnm.0c00896>
- Roviello, V., Scognamiglio, P. L., Caruso, U., Vicidomini, C., & Roviello, G. N. (2022). Evaluating in silico the potential health and environmental benefits of houseplant volatile organic compounds for an emerging ‘indoor forest bathing’ approach. *International Journal of Environmental Research and Public Health*, 19(1). <https://doi.org/10.3390/ijerph19010273>
- Sanaeifar, A., ZakiDizaji, H., Jafari, A., & Guardia, M. de la. (2017). Early detection of contamination and defect in foodstuffs by electronic nose: A review. *TrAC - Trends in Analytical Chemistry*, 97, 257–271.
<https://doi.org/10.1016/j.trac.2017.09.014>
- Sauerbrey, G. (1959). Verwendung von Schwingquarzen zur Wägung dünner Schichten und zur Mikrowägung. *Zeitschrift Für Physik*, 155(2), 206–222.
<https://doi.org/10.1007/BF01337937>
- Show, P. L., Oladele, K. O., Siew, Q. Y., Aziz Zakry, F. A., Lan, J. C. W., & Ling, T. C. (2015). Overview of citric acid production from *Aspergillus niger*. *Frontiers in Life Science*, 8(3), 271–283.
<https://doi.org/10.1080/21553769.2015.1033653>

- Soto, A., Hernández, L., & Quiles, M. J. (2014). High root temperature affects the tolerance to high light intensity in *Spathiphyllum* plants. *Plant Science*, 227, 84–89. <https://doi.org/10.1016/j.plantsci.2014.07.004>
- Triyana, K., Rianjanu, A., Nugroho, D. B., As'ari, A. H., Kusumaatmaja, A., Roto, R., Suryana, R., & Wasisto, H. S. (2019). A highly sensitive saffrole sensor based on polyvinyl acetate (PVAc) nanofiber-coated QCM. *Scientific Reports*, 9(1), 1–12. <https://doi.org/10.1038/s41598-019-51851-0>
- Ulaganathan, M., & Rajendran, S. (2010). Preparation and characterizations of PVAc/P(VdF-HFP)-based polymer blend electrolytes. *Ionics*, 16(6), 515–521. <https://doi.org/10.1007/s11581-009-0415-4>
- Veerabhadraiah, A., Ramakrishna, S., Angadi, G., Venkatram, M., Kanivebagilu Ananthapadmanabha, V., Hebbale NarayanaRao, N. M., & Munishamaiah, K. (2017). Development of polyvinyl acetate thin films by electrospinning for sensor applications. *Applied Nanoscience (Switzerland)*, 7(7), 355–363. <https://doi.org/10.1007/s13204-017-0576-9>
- Wang, L. (2020). Metal-organic frameworks for QCM-based gas sensors: A review. *Sensors and Actuators, A: Physical*, 307, 111984. <https://doi.org/10.1016/j.sna.2020.111984>
- Wang, L., Sheng, Q., Zhang, Y., Xu, J., Zhang, H., & Zhu, Z. (2020). Tolerance of fifteen hydroponic ornamental plant species to formaldehyde stress. *Environmental Pollution*, 265, 115003. <https://doi.org/10.1016/j.envpol.2020.115003>
- Wang, X., Cui, F., Lin, J., Ding, B., Yu, J., & Al-Deyab, S. S. (2012). Functionalized nanoporous TiO₂ fibers on quartz crystal microbalance platform for formaldehyde sensor. *Sensors and Actuators, B: Chemical*, 171–172, 658–665. <https://doi.org/10.1016/j.snb.2012.05.050>
- Wei, S., Bai, Z. H., Chadwick, D., Hou, Y., Qin, W., Zhao, Z. Q., Jiang, R. F., & Ma, L. (2018). Greenhouse gas and ammonia emissions and mitigation options from livestock production in peri-urban agriculture: Beijing – A case study. *Journal of Cleaner Production*, 178, 515–525. <https://doi.org/10.1016/j.jclepro.2017.12.257>
- Wolverton, B., & Wolverton, J. (1993). Plants and soil microorganisms: removal of formaldehyde, xylene, and ammonia from the indoor environment. Dalam *Journal of the mississippi academy of sciences* (Vol. 38, Issue 2, hlm. 11–15). <http://www.wolvertonenvironmental.com/MsAcad-93.pdf>
- Wu, Y., Gu, B., Erisman, J. W., Reis, S., Fang, Y., Lu, X., & Zhang, X. (2016). PM_{2.5} pollution is substantially affected by ammonia emissions in China. *Environmental Pollution*, 218(x), 86–94. <https://doi.org/10.1016/j.envpol.2016.08.027>



- Xu, Z., Guo, L., Wang, D., Bi, Z., & Fu, Z. (2020). Sampling and analysis of airborne ammonia in workplaces of China. *Journal of Occupational Health*, 62(1), 1–8. <https://doi.org/10.1002/1348-9585.12100>
- Yoo, M. H., Kwon, Y. J., Son, K. C., & Kays, S. J. (2006). Efficacy of indoor plants for the removal of single and mixed volatile organic pollutants and physiological effects of the volatiles on the plants. *Journal of the American Society for Horticultural Science*, 131(4), 452–458. <https://doi.org/10.21273/jashs.131.4.452>