

DAFTAR PUSTAKA

- Adiguzel, Y., and Kulah, H., 2015, Breath Sensors for Lung Cancer Diagnosis, *Biosens. Bioelectron.*, 65, 121–138.
- Athirah, N., Abdul, A., Hadi, A., Radzi, M., and Zakaria, A., 2019, Fabrication of Quartz Crystal Microbalance with Pegylated Lipopolymer for Detection of Non-Invasive Lung Cancer Biomarker, *Mater. Today Proc.*, 7, 632–637.
- Chen, W., Deng, F., Xu, M., Wang, J., Wei, Z., and Wang, Y., 2018, GO/Cu₂O Nanocomposite Based QCM Gas Sensor for Trimethylamine Detection Under Low Concentrations, *Sensors Actuators, B Chem.*, 273, 498–504.
- Fauzi, F., Rianjanu, A., Santoso, I., and Triyana, K., 2021, Gas and Humidity Sensing with Quartz Crystal Microbalance (QCM) Coated with Graphene-Based Materials – A mini review, *Sensors Actuators, A Phys.*, 330, 112837.
- Guo, J., Fang, G., Wang, S., and Wang, J., 2021, Quartz Crystal Microbalance Sensor Based on 11-Mercaptoundecanoic Acid Self-Assembly and Amidated Nano-Titanium Film for Selective and Ultrafast Detection of Phosphoproteins in Food, *Food Chem.*, 344, 128656.
- Jia, Y., Yu, H., Cai, J., Li, Z., and Dong, F., 2017, Explore on the Quantitative Analysis of Specific Surface Area on Sensitivity of Polyacrylic Acid-Based QCM Ammonia Sensor, *Sensors Actuators, B Chem.*, 243, 1042–1045.
- Kalantar-zadeh, K., and Course, A.I., 2013, *Sensors: An Introductory Course*,.
- Kumari Jangid, N., Jadoun, S., and Kaur, N., 2020, A Review on High-Throughput Synthesis, Deposition of Thin Films and Properties of Polyaniline, *Eur. Polym. J.*, 125, 109485.
- Li, H., Wang, J., Chu, Q., Wang, Z., Zhang, F., and Wang, S., 2009, Theoretical and Experimental Specific Capacitance of Polyaniline in Sulfuric Acid, *J. Power Sources*, 190, 578–586.
- Li, M., Zhang, C., Deng, S., Li, L., Liu, S., Bai, J., Xu, Y., Guan, Y., Xia, X., Sun, L., Carbone, D.P., and Hu, C., 2021, Lung Cancer-Associated T Cell Repertoire as Potential Biomarker for Early Detection of Stage I Lung Cancer, *Lung Cancer*, 162, 16–22.
- Li, X., Chen, Xiangdong, Yao, Y., Li, N., and Chen, Xinpeng, 2014, High-Stability

- Quartz Crystal Microbalance Ammonia Sensor Utilizing Graphene Oxide Isolation Layer, *Sensors Actuators, B Chem.*, 196, 183–188.
- Liu, K., and Zhang, C., 2021, Volatile Organic Compounds Gas Sensor Based on Quartz Crystal Microbalance for Fruit Freshness Detection: A review, *Food Chem.*, 334, 127615.
- Liu, L., Fei, T., Guan, X., Zhao, H., and Zhang, T., 2021a, Highly Sensitive and Chemically Stable NH₃ Sensors Based on an Organic Acid-Sensitized Cross-Linked Hydrogel for Exhaled Breath Analysis, *Biosens. Bioelectron.*, 191, 113459.
- Liu, L., Fei, T., Guan, X., Zhao, H., and Zhang, T., 2021b, Humidity-Activated Ammonia Sensor with Excellent Selectivity for Exhaled Breath Analysis, *Sensors Actuators, B Chem.*, 334, 129625.
- Ma, J., Song, C., Chen, S., Xu, Y., and Du, H., 2022, Drop-Casting Preparation of A Binder-Free SiO_x Anode with Micron-Sized SiO_x Particles for High-Performance Lithium-Ion Batteries, *J. Alloys Compd.*, 918, 165682.
- Måge, I., Böcker, U., Wubshet, S.G., Lindberg, D., and Afseth, N.K., 2021, Fourier-Transform Infrared (FTIR) Fingerprinting for Quality Assessment of Protein Hydrolysates, *Lwt*, 152, .
- Mahafuzur, M., Saha, S., Hasan, S.M.N., You, W., Ghosh, A., Islam, S., Saud, S.K.S., Freeman, B., Sankar, S., Colijn, H., Sadaf, S., Garg, J., and Arafin, S., 2022, Luminescence and Raman Spectroscopic Properties of Cubic Boron Nitride Grown by Drop-Casting Technique, *J. Cryst. Growth*, 593, 126781.
- Oliveira, G.P., Barboza, B.H., and Batagin-Neto, A., 2022, Polyaniline-Based Gas Sensors: DFT Study On The Effect of Side Groups, *Comput. Theor. Chem.*, 1207, 113526.
- Pereira, J., Porto-Figueira, P., Cavaco, C., Taunk, K., Rapole, S., Dhakne, R., Nagarajaram, H., and Câmara, J.S., 2015, Breath Analysis as a Potential and Non-Invasive Frontier in Disease Diagnosis: An Overview, *Metabolites*, 5, 3–55.
- Ramos-Garcia, V., Ten-Doménech, I., Moreno-Giménez, A., Gormaz, M., Parral-lorca, A., Shephard, A.P., Sepúlveda, P., Pérez-Guaita, D., Vento, M., Lendl,

- B., Quintás, G., and Kuligowski, J., 2021, ATR-FTIR Spectroscopy for The Routine Quality Control of Exosome Isolations, *Chemom. Intell. Lab. Syst.*, 217, .
- Shafiqul Islam, A.K.M., Ismail, Z., Ahmad, M.N., Saad, B., Othman, A.R., Shakaff, A.Y.M., Daud, A., and Ishak, Z., 2005, Transient Parameters of A Coated Quartz Crystal Microbalance Sensor for the Detection of Volatile Organic Compounds (VOCs), *Sensors Actuators, B Chem.*, 109, 238–243.
- Sheikh, A.D., Vhanalakar, V.K., Katware, A.S., Pawar, K.K., and Kulkarni, S.K., 2022, Ultrasensitive Organic-inorganic Nanotube Thin Films of Halogenated Perovskites as Room Temperature Ammonia Sensors, *J. Alloys Compd.*, 894, 162388.
- Sidheekha, M.P., Nufaira, K., Shabeeba, A.K., Rajan, L., and Ismail, Y.A., 2021, Characterization of Polyanilines Synthesized at Different pH for Electrochemical Sensing and Supercapacitor Applications, *Mater. Today Proc.*, .
- Sidheekha, M.P., Nufaira, K., Shabeeba, A.K., Rajan, L., and Ismail, Y.A., 2022, Characterization of Polyanilines Synthesized at Different pH for Electrochemical Sensing and Supercapacitor Applications, *Mater. Today Proc.*, 51, 2286–2292.
- Temel, F., 2020, Real-Time and Selective Recognition of Erythromycin by Self-Assembly of Calix[4]arene on QCM Sensor, *J. Mol. Liq.*, 297, 111818.
- Torad, N.L., Minisy, I.M., Sharaf, H.M., Stejskal, J., Yamauchi, Y., and Ayad, M.M., 2021, Gas Sensing Properties of Polypyrrole/Poly(N-Vinylpyrrolidone) Nanorods/Nanotubes-Coated Quartz-Crystal Microbalance Sensor, *Synth. Met.*, 282, 116935.
- Tsizh, B., and Aksimentyeva, O., 2020, Ways to Improve The Parameters of Optical Gas Sensors of Ammonia Based on Polyaniline, *Sensors Actuators, A Phys.*, 315, 112273.
- Vasilescu, A., Hrinchenko, B., Swain, G.M., and Petcu, S.F., 2021, Exhaled Breath Biomarker Sensing, *Biosens. Bioelectron.*, 182, .
- Wajid, A., 1997, On The Accuracy of The Quartz-Crystal Microbalance (QCM) in

Thin-Film Depositions, *Sensors Actuators, A Phys.*, 63, 41–46.

Wang, L., Wang, Z., Xiang, Q., Chen, Y., Duan, Z., and Xu, J., 2017, High Performance Formaldehyde Detection Based On A Novel Copper (II) Complex Functionalized QCM Gas Sensor, *Sensors Actuators, B Chem.*, 248, 820–828.

Wongrat, E., Nuengnit, T., Panyathip, R., Chanlek, N., Hongsith, N., and Choopun, S., 2021, Highly Selective Room Temperature Ammonia Sensors Based on ZnO Nanostructures Decorated with Graphene Quantum Dots (GQDs), *Sensors Actuators, B Chem.*, 326, 128983.

Yuan, M., Song, Z., Fei, J., Wang, X., Xu, F., Cao, H., and Yu, J., 2017, Aptasensor for Lead(II) Based on The Use of A Quartz Crystal Microbalance Modified with Gold Nanoparticles, *Microchim. Acta*, 184, 1397–1403.

Zhang, D., Kang, Z., Liu, X., Guo, J., and Yang, Y., 2022, Highly Sensitive Ammonia Sensor Based on PSS Doped ZIF-8-Derived Porous Carbon/Polyaniline Hybrid Film Coated on Quartz Crystal Microbalance, *Sensors Actuators B Chem.*, 131419.