

DAFTAR PUSTAKA

- Lee, K., Cho, I., Kang, M., Jeong, J., Choi, M., Woo, K., Yoon, K., Cho, Y., & Park, I. (2022). Ultra-Low-Power E-Nose System Based on Multi-Micro-LED-Integrated, Nanostructured Gas Sensors and Deep Learning.. *ACS nano*. <https://doi.org/10.1021/acsnano.2c09314>.
- Kim, T., Kim, Y., Cho, W., Kwak, J., Cho, J., Pyeon, Y., Kim, J., & Shin, H. (2024). Ultralow-Power Single-Sensor-Based E-Nose System Powered by Duty Cycling and Deep Learning for Real-Time Gas Identification.. *ACS sensors*. <https://doi.org/10.1021/acssensors.4c00471>.
- Drozdowska, K., Smulko, J., Czubek, J., Rumyantsev, S., & Kwiatkowski, A. (2024). UV-assisted fluctuation-enhanced gas sensing by ink-printed MoS₂ devices. *Scientific Reports*, 14. <https://doi.org/10.1038/s41598-024-73525-2>.
- Procek, M., Stolarczyk, A., & Pustelny, T. (2017). Impact of Temperature and UV Irradiation on Dynamics of NO₂ Sensors Based on ZnO Nanostructures. *Nanomaterials*, 7. <https://doi.org/10.3390/nano7100312>.
- Yang, C., Chen, T., Yang, Y., & Meyyappan, M. (2019). Annealing effect on UV-illuminated *recovery* in gas response of graphene-based NO₂ sensors. *RSC Advances*, 9, 23343 - 23351. <https://doi.org/10.1039/c9ra01295h>.
- Takase, Y., Ishigaki, T., Nakamura, S., Asao, H., Horio, T., Hizawa, T., Kimura, Y., Sawada, K., & Fukuura, A. (2025). Suppression of *Drift* in Ion-selective Field Effect Transistor by UV Light Irradiation. *Sensors and Materials*. <https://doi.org/10.18494/sam5590>.
- Ahmed, A., Khan, M., & Zhao, Y. (2023). Adaptive *drift* learning in *Electronic Nose* systems using deep pattern recognition. *Pattern Recognition*, 144, 109486. <https://doi.org/10.1016/j.patcog.2023.109486>
- Ayodele, B. V., Mohamed, A. R., & Abdullah, A. Z. (2023). Long-term *drift* characteristics of SnO₂-based MOS gas sensors. *Sensors and Actuators B: Chemical*, 382, 134027. <https://doi.org/10.1016/j.snb.2023.134027>
- Barié, N., Smulko, J., & Rumyantsev, S. (2021). Temperature-modulated MOS sensors for improved *drift* stability. *Sensors and Actuators B: Chemical*, 343, 129879. <https://doi.org/10.1016/j.snb.2021.129879>

- Berna, A. Z. (2020). Advances in *Electronic Noses* for food applications. *Trends in Food Science & Technology*, 106, 223–234. <https://doi.org/10.1016/j.tifs.2020.09.018>
- Bian, Y., Zhang, H., & Li, Q. (2023). Real-time airflow modeling for gas distribution in multi-sensor arrays. *Sensors*, 23(9), 4621. <https://doi.org/10.3390/s23094621>
- Bi, L., Zhang, R., & Wu, C. (2021). Aroma measurement using *Electronic Nose* with advanced sensor-level *correction* algorithms. *Food Chemistry*, 344, 130395. <https://doi.org/10.1016/j.foodchem.2021.130395>
- Caprioli, G., Cortese, M., Maggi, F., & Sagratini, G. (2023). Geographical characterization of coffee aroma using VOC profiling. *Food Research International*, 165, 112453. <https://doi.org/10.1016/j.foodres.2023.112453>
- Cho, I., Kim, S., & Park, I. (2021). Low-power UV-LED-driven volatile organic compound sensing platform. *IEEE Sensors Journal*, 21(16), 17632–17640. <https://doi.org/10.1109/JSEN.2021.3099221>
- Gakhar, H., Singh, A., & Kim, H. (2022). Humidity influence on *metal oxide semiconductor* gas sensors. *Sensors and Actuators B: Chemical*, 368, 132778. <https://doi.org/10.1016/j.snb.2022.132778>
- Hu, X., Zhao, W., & Chen, L. (2020). Segmented *feature extraction* improves gas recognition *accuracy* in *Electronic Nose* systems. *Sensors and Actuators B: Chemical*, 307, 128400. <https://doi.org/10.1016/j.snb.2020.128400>
- Huang, F., Li, Y., & Shen, Z. (2020). UV-induced photocatalytic desorption processes on MOS sensor surfaces. *Applied Surface Science*, 529, 146825. <https://doi.org/10.1016/j.apsusc.2020.146825>
- Joët, T., Lopes, E., & Bertrand, C. (2022). Roasting-induced formation of key aroma compounds in *Arabica* coffee. *Food Chemistry*, 385, 132214. <https://doi.org/10.1016/j.foodchem.2022.132214>
- Kim, H., Lee, S., & Park, J. (2022). Physical optimization of MOS sensors combined with *machine learning*. *Sensors and Actuators B: Chemical*, 376, 133147. <https://doi.org/10.1016/j.snb.2022.133147>
- Kim, S., Lim, D., & Choi, Y. (2023). UV activation for suppression of *baseline drift* in oxide gas sensors. *Sensors and Actuators B: Chemical*, 381, 134102. <https://doi.org/10.1016/j.snb.2023.134102>

- Li, X., Sun, Y., & Wang, Q. (2022). Environmental stabilization techniques for MOS gas sensor chambers. *IEEE Sensors Journal*, 22(11), 10874–10882. <https://doi.org/10.1109/JSEN.2022.3159875>
- Li, Y., Zhou, H., & Qiu, M. (2022). Artificial Neural Network-based volatile mixture classification. *IEEE Access*, 10, 48281–48292. <https://doi.org/10.1109/ACCESS.2022.3156789>
- Li, Z., Guo, S., & Zhao, P. (2021). Thermal regeneration behavior of metal oxide gas sensors. *Journal of Materials Chemistry C*, 9(27), 10134–10142. <https://doi.org/10.1039/d1tc02156j>
- Liu, X., Cheng, Z., & Wang, Q. (2020). Drift correction in MOS gas sensors: A comprehensive review. *Sensors and Actuators B: Chemical*, 309, 128683. <https://doi.org/10.1016/j.snb.2020.128683>
- Ma, Y., Sun, J., & Zhang, L. (2023). Integrated temperature–humidity correction for MOS gas sensors. *Sensors and Actuators B: Chemical*, 382, 134155. <https://doi.org/10.1016/j.snb.2023.134155>
- Moon, H., Yang, D., & Kim, G. (2022). UV-enhanced volatile organic detection using oxide nanostructures. *Sensors*, 22(6), 2145. <https://doi.org/10.3390/s22062145>
- Park, J., Kim, S., & Lee, M. (2021). Surface poisoning and drift phenomena in oxide gas sensors. *ACS Sensors*, 6(3), 1010–1018. <https://doi.org/10.1021/acssensors.1c00655>
- Pereira, G. V., Soccol, V., & Medeiros, A. (2022). Fermentation enhances volatile ester formation in *Arabica* coffee. *Food Microbiology*, 103, 103790. <https://doi.org/10.1016/j.fm.2021.103790>
- Ren, J., Wu, S., & Zhang, H. (2022). Hybrid hardware–software optimization for MOS gas sensing using machine learning. *Sensors*, 22(7), 2461. <https://doi.org/10.3390/s22072461>
- Righeroni, M., Angeli, V., & De Luca, A. (2021). Overview of MOS gas sensor technology developments. *Sensors and Actuators B: Chemical*, 341, 129990. <https://doi.org/10.1016/j.snb.2021.129990>
- Ricker, J., Powell, C., & Lane, R. (2022). Precision microheater control for gas sensing stability. *IEEE Sensors Journal*, 22(15), 14321–14330. <https://doi.org/10.1109/JSEN.2022.3184407>

- Rodrigues, C., Peixoto, C., & Ferreira, L. (2020). Discriminating coffee origins using volatile *fingerprinting* and chemometrics. *Food Research International*, 140, 109325. <https://doi.org/10.1016/j.foodres.2020.109325>
- Rossi, M., Buono, R., & Marinelli, C. (2022). Compensating *drift* in *Electronic Noses* using adaptive learning models. *IEEE Sensors Journal*, 22(4), 3711–3721. <https://doi.org/10.1109/JSEN.2022.3148812>
- Tang, H., Yuan, J., & Zhang, X. (2021). Time–frequency *feature extraction* for gas sensing using wavelet *analysis*. *IEEE Sensors Journal*, 21(18), 20745–20755. <https://doi.org/10.1109/JSEN.2021.3099724>
- Toledo, A., del Rosario, D., & Santos, J. (2022). Aroma differentiation of specialty coffees using *Electronic Nose* and sensory evaluation. *Food Chemistry*, 380, 131578. <https://doi.org/10.1016/j.foodchem.2021.131578>
- Wang, S., Li, H., & Zhao, R. (2023). Embedded microcontroller platform for *Electronic Nose* signal acquisition. *Sensors*, 23(8), 4312. <https://doi.org/10.3390/s23084312>
- Wei, F., Yang, M., & Wang, Y. (2021). Characterization of coffee aroma via GC×GC–MS and chemometric profiling. *Food Chemistry*, 346, 128640. <https://doi.org/10.1016/j.foodchem.2020.128640>
- Wilson, A. D. (2020). Electronic-nose technologies in food quality monitoring: A review. *Biosensors*, 10(7), 73. <https://doi.org/10.3390/bios10070073>
- Xie, G., Li, L., & Qian, T. (2021). UV photodesorption–based regeneration of MOS gas sensors. *Sensors and Actuators B: Chemical*, 344, 129762. <https://doi.org/10.1016/j.snb.2021.129762>
- Xu, D., Li, J., & Chen, Y. (2021). CNN-based *drift correction* for *Electronic Nose* measurements. *Knowledge-Based Systems*, 229, 107520. <https://doi.org/10.1016/j.knosys.2021.107520>
- Yoo, R., Park, G., & Kim, I. (2021). UV-assisted rapid *recovery* of SnO₂-based MOS gas sensors. *ACS Applied Materials & Interfaces*, 13(20), 24193–24201. <https://doi.org/10.1021/acsami.1c02005>
- Zhang, Y., Liu, H., & He, J. (2020). UV-assisted *recovery* enhancement of metal oxide sensors. *ACS Sensors*, 5(5), 1292–1301. <https://doi.org/10.1021/acssensors.0c00281>

- Zhou, C., Han, Q., & Li, F. (2023). Wavelet-based *feature extraction* for volatile organic compounds sensing. *Sensors*, 23(10), 4566. <https://doi.org/10.3390/s23104566>
- Zhou, Q., Chen, Z., & Li, J. (2021). Gas-flow optimization and chamber geometry *analysis* for E-nose performance enhancement. *Computers and Electronics in Agriculture*, 184, 106656. <https://doi.org/10.1016/j.compag.2021.106656>

