

DAFTAR PUSTAKA

- Abdelghany, A.M., Meikhail, M.S., and Asker, N., 2019, Synthesis and Structural-Biological Correlation of PVC/PVAc Polymer Blends, *Journal of Materials Research and Technology*, 8, 3908–3916.
- Aflaha, R., Lukmantoro, A., Andaresta, S., Mulan, G., Maharani, C.N., Rahangiar, F.E.M., Prabowo, Y.D., Rianjanu, A., Absor, M.A.U., Triyana, K., Roto, R., and Putri, W.B.K., 2026, Performance Evaluation and DFT Study of A Room Temperature Methylamine Gas Sensor Based on QCM With Fe₃O₄-PVAc Nanofiber Active Layer, *Surfaces and Interfaces*, 86, 108729.
- Ahmad, A. and Martsinovich, N., 2022, Modelling The Strength of Mineral-Organic Binding: Organic Molecules on The α -Al₂O₃(0001) Surface, *RSC Adv.*, 12, 27604–27615.
- Ahmed, H.A., Abdel-Fattah, A., Salama, Z.A., and Abd El-Wahab, A.E., 2025, Evaluation of Antimicrobial Potential of Free Gallic Acid and Its Polyvinyl-based Nano-formulation, *Sci. Rep.*, 15, 34281.
- Ahmed, L.R., Lüder, J., Chuang, C.H., and EL-Mahdy, A.F.M., 2024, Covalent-Organic-Framework-Modified Quartz Crystal Microbalance Sensor for Selective Detection of Hazardous Formic Acid, *ACS Appl. Mater. Interfaces*, 16, 30408–30420.
- Alanazi, N., Almutairi, M., and Alodhayb, A.N., 2023, A Review of Quartz Crystal Microbalance for Chemical and Biological Sensing Applications, *Sens. Imaging*, 24, .
- Andre, R.S., Mercante, L.A., Facure, M.H.M., Sanfelice, R.C., Fugikawa-Santos, L., Swager, T.M., and Correa, D.S., 2022, Recent Progress in Amine Gas Sensors for Food Quality Monitoring: Novel Architectures for Sensing Materials and Systems, *ACS Sens.*, 7, 2104–2131.
- Bai, J., Zhang, Y., Tang, C., Hou, Y., Ai, X., Chen, X., Zhang, Y., Wang, X., and Meng, X., 2020, Gallic acid: Pharmacological activities and molecular mechanisms involved in inflammation-related diseases, *Biomed. Pharmacother.*, 133, 110985.
- Banga, I., Paul, A., Poudyal, D.C., Muthukumar, S., and Prasad, S., 2023, Recent Advances in Gas Detection Methodologies with a Special Focus on Environmental Sensing and Health Monitoring Applications—A Critical Review, *ACS Sens.*, 8, 3307–3319.
- Bôle, M., Amouzou, K.D., Gaucher, V., Degoutin, S., Benbettaieb, N., and Debeaufort, F., 2026, Influence of Annealing and Crosslinking on Release Properties of Gallic Acid From Polyvinyl Alcohol-Based Films for Packaging Applications, *Food Hydrocoll.*, 179, 112793.
- Cavallaro, A., Santonocito, R., Pappalardo, A., Tuccitto, N., and Trusso Sfrazzetto, G., 2026, Methylamine Gas Sensing by Optical Array, *Sens. Actuators B Chem.*, 448, 138936.
- Chen, Hao, Chen, Huayang, Chen, J., and Song, M., 2024, Gas Sensors Based on Semiconductor Metal Oxides Fabricated by Electrospinning: A Review, *Sensors*, 24, 2962.

- Cheng, G., Li, Y., Ren, L., Gao, L., Liu, C., Wu, X., Gu, S., Wang, Z., and Chen, W., 2025b, A QCM Gas Sensor Based on Ce-MOF-808 and Graphene Oxide Nanocomposite For Rapid and Sensitive Detection of Trimethylamine, *Journal of Food Composition and Analysis*, 148, 108604.
- Cheng, G., Liu, C., Chen, S., Li, Y., Gao, L., Ren, L., Chen, W., and Wang, Z., 2025a, A QCM Gas Sensor Based on 0.5Co-Mn-BTC MOF Nanocomposites For Salmon Meat Freshness Detection, *Microchemical Journal*, 217, 114992.
- Cherifi, B.I., Belbachir, M., and Rahmouni, A., 2021, Green Anionic Polymerization of Vinyl Acetate Using Maghnite- Na^+ (Algerian MMT): Synthesis Characterization and Reactional Mechanism, *Discover Chemical Engineering*, 1, 5.
- Clark, A.G., Wong, J., Wang, R., Wang, Y., Qin, B., Burgess, D.J., and Zhang, S., 2025, Aging-Induced Microstructural Evolution in Risperidone Loaded PLGA Microspheres, *Int. J. Pharm.*, 675, 125512.
- Das, A., Manjunatha, R., Kumar, K.N., De, D., and Bandyopadhyay, R., 2025, Fabrication of Surface Functionalized QCM Sensor For BTX Detection at Ambient Conditions, *Talanta*, 283, 127081.
- Das, G., Garai, B., Prakasam, T., Benyettou, F., Varghese, S., Sharma, S.K., Gándara, F., Pasricha, R., Baias, M., Jagannathan, R., Saleh, N., Elhabiri, M., Olson, M.A., and Trabolsi, A., 2022, Fluorescence Turn on Amine Detection in a Cationic Covalent Organic Framework, *Nat. Commun.*, 13, 3904.
- Deng, Q., Mu, F., Qiao, Y., and Wei, D., 2020, A Theoretical Review For Novel Lewis Base Amine/Imine-Catalyzed Reactions, *Org. Biomol. Chem.*, 18, 6781–6800.
- Deng, X., Han, Y., Lin, L.C., and Winston Ho, W.S., 2022, A New Measurement of Amine Steric Hindrance – N exposure, *Sep. Purif. Technol.*, 299, 121601.
- Deshawar, D., Gupta, K., and Chokshi, P., 2020, Electrospinning of polymer solutions: An analysis of instability in a thinning jet with solvent evaporation, *Polymer*, 202, 122656.
- Du, W.T., Kuan, Y.L., and Kuo, S.W., 2022, Intra-and Intermolecular Hydrogen Bonding in Miscible Blends of CO₂/Epoxy Cyclohexene Copolymer with Poly(Vinyl Phenol), *Int. J. Mol. Sci.*, 23, 7018.
- Durdaut, P., Müller, C., Kittmann, A., Schell, V., Bahr, A., Quandt, E., Knöchel, R., Höft, M., and McCord, J., 2021, Phase Noise of SAW Delay Line Magnetic Field Sensors, *Sensors*, 21, 5631.
- Ellerbrock, R.H. and Gerke, H.H., 2021, FTIR Spectral Band Shifts Explained by OM–Cation Interactions, *Journal of Plant Nutrition and Soil Science*, 184, 388–397.
- Emir, A.A., Yildiz, E., Aydogdu, Y., Sumnu, G., and Sahin, S., 2021, Gallic Acid Encapsulated Pea Flour-based Nanofibers Produced by Electrospinning As a Potential Active Food Packaging Material, *Legume Science*, 3, .
- Esmeryan, K.D., Lazarov, Y., Grakov, T., Fedchenko, Y.I., Vergov, L.G., and Staykov, S., 2023, Metal–Phenolic Film Coated Quartz Crystal Microbalance as a Selective Sensor for Methanol Detection in Alcoholic Beverages, *Micromachines (Basel)*, 14, 1274.

- Filip, P., Zelenkova, J., and Peer, P., 2021, Electrospinning of a Copolymer PVDF-co-HFP Solved in DMF/Acetone: Explicit Relations Among Viscosity, Polymer Concentration, DMF/Acetone Ratio and Mean Nanofiber Diameter, *Polymers (Basel)*, 13, 3418.
- Guayse, J.F.R. V, Bernhard, Y., Podevyn, A., and Hoogenboom, R., 2023, Non-activated Esters as Reactive Handles in Direct Post-Polymerization Modification, *Angewandte Chemie*, 135, e202303841.
- Haghighi, E. and Zeinali, S., 2019, Nanoporous MIL-101(Cr) As A Sensing Layer Coated on A Quartz Crystal Microbalance (QCM) Nanosensor to Detect Volatile Organic Compounds (VOCs), *RSC Adv.*, 9, 24460–24470.
- He, H., Wang, L., Huang, H., and Li, Y., 2024, A Novel Gallic Acid-Based Anthocyanin Electrospun Sensor for Monitoring Shrimp Freshness, *Food Anal. Methods*, 17, 689–700.
- Huang, G., Zhou, Y., Li, F., Tan, X., Cai, Z., Luo, D., Chen, T., and Zhang, M., 2021, An Effective and Reliable Fluorescent Sensor For Selective Detection of Methylamine Gas Based on In-Situ Formation of MAPbBr₃ Perovskite Nanocrystals in Electrospun Fibers, *Sens. Actuators B Chem.*, 347, 130618.
- Humairah, N.A., Nurijal, I., Ainus Sofa, S., Chaerunnisa, A., Roto, R., Kusumaatmaja, A., Hadi Sujiono, E., and Triyana, K., 2023, Molecularly Imprinted Polyvinyl Acetate Doped with Boric Acid for Sensitivity and Selectivity of Ammonia Sensing by QCM, *Biosens. Bioelectron. X*, 13, 100320.
- İçoğlu, H.İ., 2022, Gallik Asit Katkılı Polivinil Alkol Nanoliflerinin Elektro Çekim Yöntemiyle Üretimi ve Morfolojik Karakterizasyonu, *Çukurova Üniversitesi Mühendislik Fakültesi Dergisi*, 37, 601–608.
- Imash, A., Smagulova, G., Kaidar, B., Keneshbekova, A., Kazhdanbekov, R., Velasco, L.F., and Mansurov, Z., 2024, Chemoresistive Gas Sensors Based on Electrospun 1D Nanostructures: Synergizing Morphology and Performance Optimization, *Sensors*, 24, 6797.
- Itoh, Y., Nakashima, Y., Tsukamoto, S., Kurohara, T., Suzuki, M., Sakae, Y., Oda, M., Okamoto, Y., and Suzuki, T., 2019, N⁺-C-H···O Hydrogen Bonds in Protein-Ligand Complexes, *Sci. Rep.*, 9, 767.
- Jamboonsri, P., Sangkhun, W., and Wanwong, S., 2024, Electrospun Cellulose Acetate/Poly(Vinyl Alcohol) Nanofibers Loaded with Methyl Gallate and Gallic Acid for Anti-Staphylococcus aureus Applications, *Polymers (Basel)*, 16, 2971.
- Katriani, L., Aflaha, R., As'ari, A.H., Nurwantoro, P., Roto, R., and Triyana, K., 2024, Nanofiber-coated Quartz Crystal Microbalance with Chitosan Overlay for Highly Sensitive Room Temperature Ammonia Gas Sensor, *Microchemical Journal*, 206, 111532.
- Katriani, L., Aflaha, R., Maharani, C.N., Naafi'ah Salsabila, F., As'ari, A.H., Rianjanu, A., Nurwantoro, P., Roto, R., and Triyana, K., 2025, Quartz Crystal Microbalance Coated with a Polyvinylpyrrolidone Microfiber Active Layer as a High-Performance Acetic Acid Gas Sensor, *Langmuir*, 41, 4632–4640.
- Keskin, S.Y., Avcı, A., Ali, L.A., and Keskin, C.S., 2025, Analysis of Polyphenols From Polygala Major Jacq., *Antioxidants*, 14, 153.

- Kim, Y.H., Om, C.Y., Hwang, Y.S., and Hong, Y.B., 2020, Adhesive Properties of Water-soluble and Biodegradable Hot-melt Adhesive Based on Partially Saponified Poly(vinyl acetate), *Mater. Res. Express*, 7, .
- Kutraite, I. and Malys, N., 2023, Development and Application of Whole-Cell Biosensors for the Detection of Gallic Acid, *ACS Synth. Biol.*, 12, 533–543.
- Li, M., Chen, P., Lin, Y., Miao, S., and Bao, H., 2024c, Preparation and Characterization of a Hypoglycemic Complex of Gallic Acid–Antarctic Krill Polypeptide Based on Polylactic Acid–Hydroxyacetic Acid (PLGA) and High-Pressure Microjet Microencapsulation, *Foods*, 13, 1177.
- Li, N., Chen, X., Wang, G., Ru, Y., Ren, M., Song, T., Hou, P., and Nie, J., 2024a, Performance Evaluation of QCM Dew Point Sensors with Different Wettability Electrode, *Sens. Actuators B Chem.*, 417, 136033.
- Li, Y., Tan, X., Wu, S., Hong, W., Luo, J., Zhao, S., Sun, L., Lin, J., Chen, Q., and Zhang, M., 2025, Dual-Emission Ratiometric Fluorescence Sensor Based on In Situ Formation of MAPbBr₃ Perovskite Nanocrystals in Europium Metal-Organic Frameworks For Detection of Methylamine Gas, *Sens. Actuators B Chem.*, 426, 137092.
- Li, Z., Yan, C., Xu, W., Shang, Y., Wu, Q., Mehmood, S., Wang, F., Cheng, C., Liu, Q., and Shao, Z., 2024b, Hydrophobic Modification of Cellulose Nanofibers by Gallic Acid and the Application in Pressure Sensing, *Int. J. Biol. Macromol.*, 261, 129770.
- Lim, H.J., Saha, T., Tey, B.T., Tan, W.S., and Ooi, C.W., 2020, Quartz Crystal Microbalance-based Biosensors as Rapid Diagnostic Devices for Infectious Diseases, *Biosens. Bioelectron.*, 168, 112513.
- Liu, C., Chen, S., Liu, S., Chen, W., and Wang, Z., 2024, Highly Sensitive QCM Gas Sensor Based on ZIF-8-Derived Porous Carbon and Multi-Walled Carbon Nanotubes Decorated Nanocomposite For Salmon Meat Freshness Detection, *Journal of Food Composition and Analysis*, 133, 106392.
- Liu, J., Zhang, Y., Qin, W., Lu, X., Cai, Y., Cheng, J., Liu, C., de Smet, L.C.P.M., and Cao, Z., 2025, Chitosan/Polyacrylonitrile Composite Nanofibers for Humidity Sensing, *Surfaces and Interfaces*, 72, 107302.
- Liu, X., Wang, J., Wang, Y., Huang, C., Wang, Z., and Liu, L., 2021, In Situ Functionalization of Silver Nanoparticles by Gallic Acid as a Colorimetric Sensor for Simple Sensitive Determination of Melamine in Milk, *ACS Omega*, 6, 23630–23635.
- Liu, Z., Ramakrishna, S., Ahmed, I., Rudd, C., and Liu, X., 2022, Rheological, Surface Tension and Conductivity Insights on the Electrospinnability of Poly(lactic-co-glycolic acid)-hyaluronic Acid Solutions and Their Correlations with the Nanofiber Morphological Characteristics, *Polymers (Basel)*, 14, 4411.
- Luzi, F., Pannucci, E., Santi, L., Kenny, J.M., Torre, L., Bernini, R., and Puglia, D., 2019, Gallic Acid and Quercetin as Intelligent and Active Ingredients in Poly(vinyl alcohol) Films for Food Packaging, *Polymers (Basel)*, 11, 1999.
- Luo, X., Liu, Y., Li, M., Ling, R., Ye, L., Cao, X., and Wang, C., 2023, Porous acid–base hybrid polymers for enhanced NH₃ uptake with assistance from cooperative hydrogen bonds, *RSC Adv.*, 13, 28729–28735.

- Mahmoud, Z.H., Hussein, U.A.R., Aljbory, N., Alnajar, M.J., Maleknia, L., Mirani, A., and Kianfar, E., 2025, Development of Vitex-derived Polymer Nanofibers using Electrochemical Sensors for The Treatment of Polycystic Ovarian Syndrome in Rats as an Animal Model, *Biosens. Bioelectron. X*, 22, 100570.
- Manieu, C., Astuto, M.C., and Cattaneo, I., 2024, Methylamine,. In, *Encyclopedia of Toxicology, Fourth Edition*. Academic Press, pp. 245–250.
- Molaei, S., Tehrani, A.D., and Shamlouei, H., 2023, Antioxidant Activates of New Carbohydrate Based Gallate Derivatives: A DFT Study, *J. Mol. Liq.*, 377, 121506.
- Molski, M., 2025, Computation of the pKa Values of Gallic Acid and Its Anionic Forms in Aqueous Solution: A Self-Similar Transformation Approach for Accurate Proton Hydration Free Energy Estimation, *Molecules*, 30, 742.
- Moreno, M., Sánchez Arribas, A., Royano, S., Izquierdo, Y., and Chicharro, M., 2024, Electroanalytical Application of Phenol-functionalized Reduced Graphene Oxide Produced Using Gallic Acid in a Single Step, *FlatChem*, 44, 100605.
- Nadekar, B., Kholam, Y.B., Shaikh, S.F., Wavhal, D., Varshney, P., Pandit, B., and More, P.S., 2023, Enhanced Ammonia/Amines Sensitivity at Room Temperature Using Plasma Polymerized Polyvinyl Acetate-Reduced Graphene Oxide Composite Film Sensors, *Surfaces and Interfaces*, 42, 103453.
- Nandi, S., Adimule, V., Kerur, S.S., Dhanalakshmi, S., and Barmavatu, P., 2024, Recent advances in Metal-Organic Framework derived nanocomposites in gas and chemical sensors: a review, *Sensing Technology*, 2, 2317385.
- Niu, M., Zhang, S., Chen, H., Chen, Z., Wang, W., and Li, G., 2025, Experimental and Kinetic Study of Methylamine Oxidation in Gas Phase and Supercritical Water, *Fuel*, 402, 136062.
- Novak, M., and Ormsby, B. 2022, Poly(Vinyl Acetate) Paints: A Literature Review of Material Properties, Ageing Characteristics, and Conservation Challenges, *Polymers*, 15(22), 4348.
- Otta, J., Mikuláščík, J., Šípka, R., Stein, M., Kühne, I.A., Vršata, M., and Vlček, J., 2024, Fullerene-Doped Poly(ionic liquids) as Small Molecular Gas Sensors—Control of Intermolecular Interactions, *ACS Omega*, 10, 1364–1372.
- Pal, R., Jelsch, C., Momma, K., and Grabowsky, S., 2022, π -Hole Bonding in A New Co-Crystal Hydrate of Gallic Acid and Pyrazine: Static and Dynamic Charge Density Analysis, *Acta Crystallogr. B Struct. Sci. Cryst. Eng. Mater.*, 78, 231–246.
- Pan, S., He, J., Wang, W., Yan, J., Jiang, S., Lin, C., Tang, H., and Guo, R., 2025, Piezoresistive MXene@CNTs Nanofiber Membrane Sensors with Micro-Hemispherical Structures via Template-Assisted Electrospinning for Human Health Monitoring, *Ind. Eng. Chem. Res.*, 64, 3587–3601.
- Pandeewari, R., Srinivasan, P., Sivakumar, D., Sonia, T., Pichumani, M., and Jeyaprakash, B.G., 2024, Spray Deposited Zirconia Nanostructures as the Chemiresistive Probe for Methylamine Vapour: Is Highly Selective and Sensitive Electronic Nose, Viable?, *Materials Science and Engineering: B*, 305, 117420.

- Pavlovic, A., Valzania, L., and Minak, G., 2025, Effects of Moisture Absorption on the Mechanical and Fatigue Properties of Natural Fiber Composites: A Review, *Polymers (Basel)*, 17, 1996.
- Pérez, R.L., Ayala, C.E., Park, J.Y., Choi, J.W., and Warner, I.M., 2021, Coating-based Quartz Crystal Microbalance Detection Methods of Environmentally Relevant Volatile Organic Compounds, *Chemosensors*, 9, 153.
- Ponzoni, A., 2022, A Statistical Analysis of Response and Recovery Times: The Case of Ethanol Chemiresistors Based on Pure SnO₂, *Sensors*, 22, 6346.
- Ramadan, K.M.A., Bendary, E.S.A., Khalil, H.B., Ali, S.A., Ahmed, A.R., and Mahmoud, M.A.A., 2025, Smart Detection of Food Spoilage Using Microbial Volatile Compounds: Technologies, Challenges, and Future Outlook, *J. Agric. Food Chem.*, 73, 19222–19243.
- Ren, W., Zhao, C., Niu, G., Zhuang, Y., and Wang, F., 2022, Gas Sensor Array with Pattern Recognition Algorithms for Highly Sensitive and Selective Discrimination of Trimethylamine, *Advanced Intelligent Systems*, 4, 2200169.
- Rianjanu, A., Aflaha, R., Khamidy, N.I., Djamal, M., Triyana, K., and Wasisto, H.S., 2021a, Room-Temperature ppb-Level Trimethylamine Gas Sensors Functionalized with Citric Acid-Doped Polyvinyl Acetate Nanofibrous Mats, *Mater. Adv.*, 2, 3705–3714.
- Rianjanu, A., Fauzi, F., Triyana, K., and Wasisto, H.S., 2021b, Electrospun Nanofibers for Quartz Crystal Microbalance Gas Sensors: A Review, *ACS Appl. Nano Mater.*, 4, 9957–9975.
- Rianjanu, A., Nurfani, E., Arif, M.F., Triyana, K., and Wasisto, H.S., 2021c, Stability Evaluation of Quartz Crystal Microbalances Coated with Polyvinyl Acetate Nanofibrous Mats as Butanol Vapor Sensors, *Mater. Today Commun.*, 26, 101770.
- Rohman, Y.M., Sukowati, R., Priyanto, A., Hapidin, D.A., Edikresnha, D., and Khairurrijal, K., 2023, Quartz Crystal Microbalance Coated with Polyacrylonitrile/Nickel Nanofibers for High-Performance Methanol Gas Detection, *ACS Omega*, 8, 13342–13351.
- Roto, R., Rianjanu, A., Fatyadi, I.A., Kusumaatmaja, A., and Triyana, K., 2020, Enhanced Sensitivity and Selectivity of Ammonia Sensing by QCM Modified with Boric Acid-Doped PVAc Nanofiber, *Sens. Actuators A Phys.*, 304, 111902.
- Ryu, H. Il, Koo, M.S., Kim, Seokjun, Kim, Songkil, Park, Y.A., and Park, S.M., 2020, Uniform-Thickness Electrospun Nanofiber Mat Production System Based on Real-Time Thickness Measurement, *Sci. Rep.*, 10, 20847.
- Sayed, A.M.E., Abdelghany, A.M., and Abou Elfadl, A., 2022, Structural, Optical, Mechanical and Antibacterial Properties of MgO/Poly(Vinyl Acetate)/Poly(Vinyl Chloride) Nanocomposites, *Brazilian Journal of Physics*, 52, 150.
- Slastanova, A., Campbell, R.A., Islas, L., Welbourn, R.J.L., R. P. Webster, J., Vaccaro, M., Chen, M., Robles, E., and Briscoe, W.H., 2022, Interfacial Complexation of A Neutral Amphiphilic ‘Tardigrade’ Co-Polymer with A Cationic Surfactant: Transition From Synergy to Competition, *J. Colloid Interface Sci.*, 606, 1064–1076.

- Sukowati, R., Rohman, Y.M., Agung, B.H., Hapidin, D.A., Damayanti, H., and Khairurrijal, K., 2023, An Investigation of the Influence of Nanofibers Morphology on the Performance of QCM-Based Ethanol Vapor Sensor Utilizing Polyvinylpyrrolidone Nanofibers Active Layer, *Sens. Actuators B Chem.*, 386, 133708.
- Suratman, A., Astuti, D.N., Natsir, T.A., and Mudasir, M., 2025, Eco-friendly QCM Sensor Based on Biochar-Functionalized Nanofibers for Rapid and Selective Detection of Hydrogen Chloride Gas, *Anal. Chim. Acta*, 1376, 344618.
- Tay, H.C., Miller, A., Moseley, H.N.B., Beckley, L., and Pennell, K.G., 2025, Systematic Quality Assurance/Quality Control Framework for a Volatile Organic Compound Real-Time Monitoring Instrument, Autonomous Rugged Optical Multigas Analyzer for VOCs, *ACS Omega*, 10, 22627–22636.
- Trajcheva, A., Politakos, N., Pérez, B.T., Joseph, Y., Blazevska Gilev, J., and Tomovska, R., 2021, QCM Nanocomposite Gas Sensors – Expanding the Application of Waterborne Polymer Composites based on Graphene Nanoribbon, *Polymer (Guildf)*, 213, 123335.
- Triyana, K., Rianjanu, A., Nugroho, D.B., As'ari, A.H., Kusumaatmaja, A., Roto, R., Suryana, R., and Wasisto, H.S., 2019, A Highly Sensitive Safrole Sensor based on Polyvinyl acetate (PVAc) Nanofiber-coated QCM, *Sci. Rep.*, 9, 1–12.
- Venkatesan, P., Flores-Manuel, F., Bernès, S., Cerón, M., Pérez-Gutiérrez, E., Thamotharan, S., Percino, M.J., Höpfl, H., and Sosa-Rivadeneira, M. V., 2023, Structural and Quantitative Analysis of Intermolecular Solid-State Interactions in Cocrystals Obtained From Nucleobases and Methylxanthines With Gallic Acid, *J. Mol. Struct.*, 1280, 135074.
- Wan, X., Cong, H., Jiang, G., Liang, X., Liu, L., and He, H., 2023, A Review on PVDF Nanofibers in Textiles for Flexible Piezoelectric Sensors, *ACS Appl. Nano Mater.*, 6, 1522–1540.
- Wu, M., Zhao, Z., Cai, G., Wang, C., Cheng, G., and Wang, X., 2022, Adsorption Behaviour and Mechanism of Benzene, Toluene and m-Xylene (BTX) Solution Onto Kaolinite: Experimental and Molecular Dynamics Simulation Studies, *Sep. Purif. Technol.*, 291, 120940.
- Xin, L., Wang, S., Tian, X., Yang, L., Han, L., Hao, Z., Zhao, M., and Liu, H., 2026, Effect of The Grafting Degree of Phenolic Acids on The Structural Characterization and Emulsification Properties of Soy Hull Polysaccharides, *Int. J. Biol. Macromol.*, 340, 150146.
- Yang, S.B., Karim, M.R., Lee, J., Yeum, J.H., and Yeasmin, S., 2022, Alkaline Treatment Variables to Characterize Poly(Vinyl Alcohol)/Poly(Vinyl Butyral/Vinyl Alcohol) Blend Films, *Polymers (Basel)*, 14, .
- Yang, Y., Qiao, J., Zhang, X., Zhang, B., and Liu, J., 2026, Electrospun Magnetic Carbon Nanofibers for Electromagnetic Wave Absorption: A Review, *J. Mater. Sci. Technol.*, 265, 1–22.
- Yao, S.L., Xu, H., Zheng, T.F., Liu, S.J., Chen, J.L., and Wen, H.R., 2021, Rare Fluorescence Red-Shifted Metal-Organic Framework Sensor for Methylamine Derived from an N-Donor Ligand, *Cryst. Growth Des.*, 21, 5765–5772.

- Yaqoob, U. and Younis, M.I., 2021, Chemical Gas Sensors: Recent Developments, Challenges, and the Potential of Machine Learning—A Review, *Sensors*, 21, 2877.
- Zhang, C., Wang, Z., Chen, T., Tang, M., Zhang, J., Jian, J., Wang, Y., Zhou, K., and Zhang, X., 2024, Methylamine Gas Sensor Based on Fluorescent Perovskite Nanocrystal Nanofibers Incorporating Aggregation-Induced Emission Materials, *ACS Appl. Nano Mater.*, 7, 17329–17338.
- Zhao, Q., Sun, D., Wang, S., Duan, Z., Yuan, Z., Wei, G., Xu, J.L., Tai, H., and Jiang, Y., 2021, Enhanced Blocking Effect: A New Strategy to Improve the NO₂ Sensing Performance of Ti₃C₂Tx by γ -Poly(l -glutamic acid) Modification, *ACS Sens.*, 6, 2858–2867.
- Zhao, J., Li, J., Bai, Y., Zhou, W., Zhang, Y., and Wei, J., 2024, Research on leakage detection technology of natural gas pipeline based on modified Gaussian plume model and Markov chain Monte Carlo method. *Process Saf. Environ. Prot.*, 182, 314–326.