

DAFTAR PUSTAKA

- Alagumalai, A. (2015). Combustion characteristics of lemongrass (*Cymbopogon flexuosus*) oil in a partial premixed charge compression ignition engine. *Alexandria Engineering Journal*, 54(3), 405-413. <https://doi.org/10.1016/j.aej.2015.03.021>
- Alsubki, R., Tabassum, H., Abudawood, M., Rabaan, A. A., Alsobaie, S. F., & Ansar, S. (2021). Green synthesis, characterization, enhanced functionality and biological evaluation of silver nanoparticles based on Coriander sativum. *Saudi Journal of Biological Sciences*, 28(4), 2102-2108. <https://doi.org/10.1016/j.sjbs.2020.12.055>
- Andreani, Agustina Sus, et al. (2021). Fast and selective colorimetric detection of Fe³⁺ based on gold nanoparticles capped with ortho-hydroxybenzoic acid. *Journal of Environmental Chemical Engineering* 9:5:105962. <https://doi.org/10.1016/j.jece.2021.105962>
- AOAC Official Methods of Analysis. (2012). *Appendix F : Guidelines for Standard Method Performance Requirement*. AOAC International.
- Bai, X., Wang, Y., Song, Z., Feng, Y., Chen, Y., Zhang, D., & Feng, L. (2020). The basic properties of gold nanoparticles and their applications in tumor diagnosis and treatment. *International journal of molecular sciences*, 21(7), 2480. <https://doi.org/10.3390/ijms21072480>
- Bertil, M., & Örnemark, U. (2014). (EURACHEM) The fitness for purpose of analytical methods: a laboratory guide to method validation and related topics. *A laboratory guide to method validation and related topics*, LGC, Teddington, Middlesex, UK.
- Bindhu, M. R., Saranya, P., Sheeba, M., Vijilvani, C., Rejniemon, T. S., Al-Mohaimeed, A. M., ... & Elshikh, M. S. (2021). Functionalization of gold nanoparticles by β-cyclodextrin as a probe for the detection of heavy metals in water and photocatalytic degradation of textile dye. *Environmental Research*, 201, 111628. <https://doi.org/10.1016/j.envres.2021.111628>
- Cadar, O., Mocan, T., Roman, C., & Senila, M. (2021). Analytical performance and validation of a reliable method based on graphite furnace atomic absorption spectrometry for the determination of gold nanoparticles in biological tissues. *Nanomaterials*, 11(12), 3370. <https://doi.org/10.3390/nano11123370>
- Chakraborty, G., Park, I. H., Medishetty, R., & Vittal, J. J. (2021). Two-dimensional metal-organic framework materials: Synthesis, structures, properties and applications. *Chemical Reviews*, 121(7), 3751-3891. <https://doi.org/10.1021/acs.chemrev.0c01049>

Chen, X., Wei, M., Jiang, S., & Förster, S. (2019). Two growth mechanisms of thiol-capped gold nanoparticles controlled by ligand chemistry. *Langmuir*, 35(37), 12130-12138. <https://doi.org/10.1021/acs.langmuir.9b01864>

Chen, N., & Pan, B. (2020). Tributylhexadecylphosphonium Modification Strategy to Construct Gold Nanoprobes for the Detection of Aqueous Cr (III)-Organic Complexes. *Analytical Chemistry*, 93(3), 1811-1817. <https://pubs.acs.org/doi/10.1021/acs.analchem.0c04688?goto=supporting-info>

Chipana, B. C. H., Gomero, J. C. M., Sotomayor, M. D. P. T. (2014). Nano Structured Screen-Printed Electrodes Modified with Self Assembled Monolayers for Determination of Metronidazole in Different Matrices. *Journal of Brazil Chemical Social*, 25(9), 1737-1745. <Http://dx.doi.org/10.5935/0103-5053.20140170>

Chuan, O. M., Ali, N. M. M., Shazili, N. A. M., & Bidai, J. (2017). Selected Heavy metals concentration in edible tissue of the mud crab, Genus scylla from Setiu Wetlands, Terengganu. *Journal of Sustainability Science and Management*, 12(2), 112-118.

https://www.researchgate.net/publication/322402038_Selected_Heavy_metal_concentration_in_edible_tissue_of_the_mud_crab_Genus_scylla_from_Setiu_Wetlands_Terengganu

Coates, J. (2000). Interpretation of infrared spectra, a practical approach.

Côco, A. S., Campos, F. V., Díaz, C. A. R., Guimarães, M. C. C., Prado, A. R., & de Oliveira, J. P. (2023). Localized Surface Plasmon Resonance-Based Nanosensor for Rapid Detection of Glyphosate in Food Samples. *Biosensors*, 13(5), 512. <https://doi.org/10.3390/bios13050512>

Costa, L. H., Hemmer, J. V., Wanderlind, E. H., Gerlach, O. M. S., Santos, A. L. H., Tamanaha, M. S., ... & Almerindo, G. I. (2020). Green synthesis of gold nanoparticles obtained from algae *Sargassum cymosum*: optimization, characterization and stability. *BioNanoScience*, 10, 1049-1062. <https://doi.org/10.1007/s12668-020-00776-4>

del Río, E., Gaona, D., Hernandez-Garrido, J. C., Calvino, J. J., Basallote, M. G., Fernandez-Trujillo, M. J., ... & Gatica, J. M. (2014). Speciation-controlled incipient wetness impregnation: A rational synthetic approach to prepare sub-nanosized and highly active ceria-zirconia supported gold catalysts. *Journal of catalysis*, 318, 119-127. <https://doi.org/10.1016/j.jcat.2014.07.001>

Dhinesh, B., Lalvani, J. I. J., Parthasarathy, M., & Annamalai, K. (2016). An

assessment on performance, emission and combustion characteristics of single cylinder diesel engine powered by *Cymbopogon flexuosus* biofuel. *Energy Conversion and Management*, 117, 466-474.
<https://doi.org/10.1016/j.enconman.2016.03.049>

Doan, V. D., Thieu, A. T., Nguyen, T. D., Nguyen, V. C., Cao, X. T., Nguyen, T. L. H., & Le, V. T. (2020). Biosynthesis of gold nanoparticles using *Litsea cubeba* fruit extract for catalytic reduction of 4-nitrophenol. *Journal of Nanomaterials*, 2020, 1-10. <https://doi.org/10.1155/2020/4548790>

Ejeta, S. Y., & Imae, T. (2021). Selective colorimetric and electrochemical detections of Cr(III) pollutant in water on 3-mercaptopropionic acid-functionalized gold plasmon nanoparticles. *Analytica Chimica Acta*, 1152, 338272. <https://doi.org/10.1016/j.aca.2021.338272>

Elia, P., Zach, R., Hazan, S., Kolusheva, S., Porat, Z. E., & Zeiri, Y. (2014). Green synthesis of gold nanoparticles using plant extracts as reducing agents. *International journal of nanomedicine*, 4007-4021. <https://doi.org/10.2147/IJN.S57343>

Fadila, N., & Islamiah, D. (2023). KEMAMPUAN TANAMAN HIAS BUNGA *Zinnia elegans* (Jacq.) Kuntze DAN *Impatiens balsamina* L. DALAM FITOREMEDIASI TANAH TERCEMAR LOGAM BERAT TIMBAL (Pb) DARI LOKASI PEMBUANGAN SAMPAH TAMANGAPA ANTANG MAKASSAR: . BIOMA: *JURNAL BIOLOGI MAKASSAR*, 8(1), 75-83. <https://journal.unhas.ac.id/index.php/bioma>

Fazrin, E. I., Naviardianti, A. I., Wyantuti, S., Gaffar, S., & Hartati, Y. W. (2020). Sintesis Dan Karakterisasi Nanopartikel Emas (AuNP) Serta Konjugasi AuNP Dengan DNA Dalam Aplikasi Biosensor Elektrokimia. *PENDIPA Journal of Science Education*, 4(2), 21-39. <https://doi.org/10.33369/pendipa.4.2.21-39>

Febriana, S. A., Pidada, I. B. G. S. P., Widagdo, H., Suciningtyas, M., Nurhantari, Y., Priyambodo, D. Y., ... & Sutarni, S. (2019). Karakteristik limbah dan dampaknya bagi kesehatan pembatik di Lendah, Kulon Progo. *Journal of Community Empowerment for Health*, 2(2), 128-136. <https://doi.org/10.22146/jcoemph.v2i2.37>

Fouda, A., Eid, A. M., Guibal, E., Hamza, M. F., Hassan, S. E. D., Alkhalfah, D. H. M., & El-Hossary, D. (2022). Green Synthesis of Gold Nanoparticles by Aqueous Extract of *Zingiber officinale*: Characterization and Insight into Antimicrobial, Antioxidant, and In Vitro Cytotoxic Activities. *Applied Sciences*, 12(24), 12879. <https://doi.org/10.3390/app122412879>

Fringu, I., Lascu, A., Macsim, A. M., Fratilesco, I., Epuran, C., Birdeanu, M., & Fagadar-Cosma, E. (2022). Pt (II)-A 2 B 2 metalloporphyrin-AuNP S hybrid material suitable for optical detection of 1-anthraquinonsulfonic acid. *Chemical Papers*, 1-15. <https://doi.org/10.1007/s11696-021-02047-2>

Glaubitz, C., Bazzoni, A., Ackermann-Hirschi, L., Baraldi, L., Haeffner, M., Fortinatus, R., Rothen-Rutishauser, B., Balog, S., Peri-Fink, A. (2023). Leveraging Machine Learning for Size and Shape Analysis of Nanoparticles : A Shortcut to Electron Microscopy. *The Journal of Physical Chemistry C*, 0. <https://doi.org/10.1021/acs.jpcc.3c05938>

Hawar, S. N., Al-Shmgani, H. S., Al-Kubaisi, Z. A., Sulaiman, G. M., Dewir, Y. H., & Rikisahedew, J. J. (2022). Green synthesis of silver nanoparticles from Alhagi graecorum leaf extract and evaluation of their cytotoxicity and antifungal activity. *Journal of Nanomaterials*, 2022, 1-8. <https://doi.org/10.1155/2022/1058119>

Horwitz, W., & Albert, R. (2006). The Horwitz ratio (HorRat): A useful index of method performance with respect to precision. *Journal of AOAC International*, 89(4), 1095–1109.

Hou, J., Shui, Z., Li, J., Huo, D., Tang, X., Yu, C., ... & Qiao, C. (2020). A novel colorimetric probe with positive correlation between toxicity and the reaction for the assessment of chromium ions. *Analytical Methods*, 12(41), 4996-5003. <https://doi.org/10.1039/D0AY01291B>

Hussain, M. H., Abu Bakar, N. F., Mustapa, A. N., Low, K. F., Othman, N. H., & Adam, F. (2020). Synthesis of various size gold nanoparticles by chemical reduction method with different solvent polarity. *Nanoscale research letters*, 15, 1-10. <https://doi.org/10.1186/s11671-020-03370-5>

Indriani, D. W., Muchlisiyah, J., Aulia, L. P., Sisca, H., & Amaliyah, F. A. (2021). *Senyawa Organik dalam Bioproses*. Universitas Brawijaya Press. [https://books.google.co.id/books?hl=en&lr=&id=ZVdmEAAAQBAJ&oi=fnd&pg=PP1&dq=Indriani,+D.+W.,+Muchlisiyah,+J.,+Aulia,+L.+P.,+Sisca,+H.,+%26+Am+aliyah,+F.+A.+\(2021\).+Senyawa+Organik+dalam+Bioproses.+Universitas+Brawija+ya+Press.&ots=8j48kiHQfZ&sig=8_05-jqzdqrs-I5oDxyBpslV9J8&redir_esc=y#v=onepage&q&f=false](https://books.google.co.id/books?hl=en&lr=&id=ZVdmEAAAQBAJ&oi=fnd&pg=PP1&dq=Indriani,+D.+W.,+Muchlisiyah,+J.,+Aulia,+L.+P.,+Sisca,+H.,+%26+Am+aliyah,+F.+A.+(2021).+Senyawa+Organik+dalam+Bioproses.+Universitas+Brawija+ya+Press.&ots=8j48kiHQfZ&sig=8_05-jqzdqrs-I5oDxyBpslV9J8&redir_esc=y#v=onepage&q&f=false)

Ingle, K. P., Deshmukh, A. G., Padole, D. A., Dudhare, M. S., Moharil, M. P., & Khelurkar, V. C. (2017). Phytochemicals: Extraction methods, identification and detection of bioactive compounds from plant extracts. *Journal of Pharmacognosy and Phytochemistry*, 6(1), 32-36.

<https://www.phytojournal.com/archives?year=2017&vol=6&issue=1&ArticleId=1058>

International Organization for Standardization (ISO) 26824. (2022). Particle Characterization of Particulate Systems - Vocabulary. ISO Geneva, Switzerland.

International Standard of Organization (ISO) 11843-2. (2000) Capability of Detection - Part 2 : Methodology in the Linear Calibration Case, ISO Geneva.

International Standard of Organization (ISO) 9000. (2005). *Quality Management Systems : Fundamentals and Vocabulary*, ISO Geneva.

Iqbal, M., Usanase, G., Oulmi, K., Aberkane, F., Bendaikha, T., Fessi, H., ... & Elaissari, A. (2016). Preparation of gold nanoparticles and determination of their particles size via different methods. *Materials Research Bulletin*, 79, 97-104. <https://doi.org/10.1016/j.materresbull.2015.12.026>

Irianti, T. T., Kuswandi, N. S., & Budiyanti, A. (2017). Logam Berat Dan Kesehatan. Yogyakarta: CV Grafika Indah.

Jin, W., Huang, P., Chen, Y., Wu, F., & Wan, Y. (2015). Colorimetric detection of Cr³⁺ using gold nanoparticles functionalized with 4-amino hippuric acid. *Journal of Nanoparticle Research*, 17, 1-10. <https://doi.org/10.1007/s11051-015-3156-5>

Kanagaraj, R., Nam, Y. S., Pai, S. J., Han, S. S., & Lee, K. B. (2017). Highly selective and sensitive detection of Cr⁶⁺ ions using size-specific label-free gold nanoparticles. *Sensors and Actuators B: Chemical*, 251, 683-691. <https://doi.org/10.1016/j.snb.2017.05.089>

Kolavekar, S. B., Ayachit, N. H., Jagannath, G., NagaKrishnakant, K., & Rao, S. V. (2018). Optical, structural and Near-IR NLO properties of gold nanoparticles doped sodium zinc borate glasses. *Optical Materials*, 83, 34-42. <https://doi.org/10.1016/j.optmat.2018.05.083>

Kristianingrum, S. (2016). Spektroskopi ultra violet dan sinar tampak (spektroskopi Uv-Vis). Yogyakarta: Universitas Negeri Yogyakarta.

Kumar, V., Bano, D., Singh, D. K., Mohan, S., Singh, V. K., & Hasan, S. H. (2018). Size-dependent synthesis of gold nanoparticles and their peroxidase-like activity for the colorimetric detection of glutathione from human blood serum. *ACS Sustainable Chemistry & Engineering*, 6(6), 7662-7675. <https://doi.org/10.1021/acssuschemeng.8b00503>

Kumoro, A. C., Wardhani, D. H., Retnowati, D. S., & Haryani, K. (2021, February). A brief review on the characteristics, extraction and potential industrial applications of citronella grass (*Cymbopogon nardus*) and lemongrass (*Cymbopogon citratus*) essential oils. In IOP Conference Series: Materials Science and Engineering (Vol. 1053, No. 1, p. 012118). IOP Publishing. <https://doi.org/10.1088/1757-899X/1053/1/012118>

Lee, K. X., Shameli, K., Yew, Y. P., Teow, S. Y., Jahangirian, H., Rafiee-Moghaddam, R., & Webster, T. J. (2020). Recent developments in the facile bio-synthesis of gold nanoparticles (AuNPs) and their biomedical applications. *International journal of nanomedicine*, 275-300. <https://doi.org/10.2147/IJN.S233789>

Li, S., Wei, T., Ren, G., Chai, F., Wu, H., & Qu, F. (2017). Gold nanoparticles based colorimetric probe for Cr(III) and Cr (VI) detection. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 535, 215-224. <http://dx.doi.org/10.1016/j.colsurfa.2017.09.028>

Liang, L., Wang, J., Tong, X., & Zhang, S. (2022). Enhanced adsorptive removal of Cr (III) from the complex solution by NTA-modified magnetic mesoporous microspheres. *Environmental Science and Pollution Research*, 29(30), 45623-45634. <https://doi.org/10.1007/s11356-022-19039-8>

Mahdi, H. S., & Parveen, A. (2018). Synthesis and Characterization of Gold Nanoparticles (Au-NPs) using Aqueous Extract of Lemongrass. *International Journal of Technical Innovation in Modern Engineering & Science*, 4(11), 376-381. https://www.researchgate.net/publication/329424946_Synthesis_and_Characterization_of_Gold_Nanoparticles_Au-NPs_using_aqueous_extract_of_Lemongrass

Mallongi, A., Rauf, A. U., Daud, A., Hatta, M., Al-Madhoun, W., Amiruddin, R., ... & Astuti, R. D. P. (2022). Health risk assessment of potentially toxic elements in Maros karst groundwater: a Monte Carlo simulation approach. *Geomatics, Natural Hazards and Risk*, 13(1), 338-363. <https://doi.org/10.1080/19475705.2022.2027528>

Mandal, D., Sarkar, T., & Chakraborty, R. (2023). Critical review on nutritional, bioactive, and medicinal potential of spices and herbs and their application in food fortification and nanotechnology. *Applied Biochemistry and Biotechnology*, 195(2), 1319-1513. <https://doi.org/10.1007/s12010-022-04132-y>

Marinho, B. A., Cristóvão, R. O., Boaventura, R. A., & Vilar, V. J. (2019). As (III) and Cr (VI) oxyanion removal from water by advanced oxidation/reduction processes—a review. *Environmental Science and Pollution Research*, 26, 2203-2227.

<https://link.springer.com/article/10.1007/s11356-018-3595-5>

Masoudyfar, Z., & Elhami, S. (2019). Surface plasmon resonance of gold nanoparticles as a colorimetric sensor for indirect detection of Cefixime. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 211, 234-238. <https://doi.org/10.1016/j.saa.2018.12.007>

Mazaheri, T., Cervantes-Huamán, B. R., Bermúdez-Capdevila, M., Ripolles-Avila, C., & Rodríguez-Jerez, J. J. (2021). Listeria monocytogenes biofilms in the food industry: is the current hygiene program sufficient to combat the persistence of the pathogen?. *Microorganisms*, 9(1), 181.

<https://doi.org/10.3390/microorganisms9010181>

Meesaragandla, B., García, I., Biedenweg, D., Toro-Mendoza, J., Coluzza, I., Liz-Marzán, L. M., & Delcea, M. (2020). H-Bonding-mediated binding and charge reorganization of proteins on gold nanoparticles. *Physical Chemistry Chemical Physics*, 22(8), 4490-4500. <https://doi.org/10.1039/C9CP06371D>

Mitra, S., Chakraborty, A. J., Tareq, A. M., Emran, T. B., Nainu, F., Khusro, A., ... & Simal-Gandara, J. (2022). Impact of heavy metals on the environment and human health: Novel therapeutic insights to counter the toxicity. *Journal of King Saud University-Science*, 34(3), 101865. <https://doi.org/10.1016/j.jksus.2022.101865>

Muala, W. C. B., Desobgo, Z. S. C., & Jong, N. E. (2021). Optimization of extraction conditions of phenolic compounds from Cymbopogon citratus and evaluation of phenolics and aroma profiles of extract. *Helijon*, 7(4), e06744.

Mulwandari, M., Asysyafiyah, L., Sirajuddin, M. I., & Cahyandaru, N. (2022). Direct synthesis of lemongrass (*Cymbopogon citratus* L.) essential oil-silver nanoparticles (EO-AgNPs) as biopesticides and application for lichen inhibition on stones. *Helijon*, 8(6). <https://doi.org/10.1016/j.helijon.2022.e09701>

Nadhifah, N., Pratita, W. R., Kunarti, E. S., Nuryono, N., & Santosa, S. J. (2020). Synthesis of Gold Nanoparticles Using Glutamic Acid as a Reductant and Capping Agent. In *Key Engineering Materials* (Vol. 840, pp. 472-477). Trans Tech Publications Ltd. <https://doi.org/10.4028/www.scientific.net/KEM.840.472>

Nengsih, S. (2020). Kajian Variasi Ukuran Nanopartikel Emas Melalui Metode Seed Mediated Growth. *Jurnal Phi Jurnal Pendidikan Fisika dan Fisika Terapan*, 2018(2). <http://dx.doi.org/10.22373/p-jpft.v2018i2.7455>

Nurhamiddin, F., & Ibrahim, M. H. (2018). Studi Pencemaran Logam Berat Timbal (Pb) dan (Cu) pada Sedimen Laut di Pelabuhan Bastiong Kota Ternate Provinsi Maluku Utara. *Jurnal Dintek*, 11(1), 41-45.

<http://jurnal.ummu.ac.id/index.php/dintek/article/view/139>

Nurhayati, D., & Putri, D. A. (2019). Bioakumulasi logam berat pada kerang hijau (perna viridis) di perairan cirebon berdasarkan musim yang berbeda. *Akuatika Indonesia*, 4(1), 6-10. <https://doi.org/10.24198/jaki.v4i1.23484>

Ogundare, O. D., Akinribide, O. J., Adetunji, A. R., Adeoye, M. O., & Olubambi, P. A. (2019). Crystallite size determination of thermally deposited Gold Nanoparticles. *Procedia Manufacturing*, 30, 173-179. <https://doi.org/10.1016/j.promfg.2019.02.025>

Osugi, S., Takano, S., Masuda, S., Harano, K., & Tsukuda, T. (2021). Few-nm-sized, phase-pure Au₅Sn intermetallic nanoparticles: Synthesis and characterization. *Dalton Transactions*, 50(15), 5177-5183.

<https://doi.org/10.1039/D1DT00132A>

Pathania, D., Sharma, M., Thakur, P., Chaudhary, V., Kaushik, A., Furukawa, H., & Khosla, A. (2022). Exploring phytochemical composition, photocatalytic, antibacterial, and antifungal efficacies of Au NPs supported by Cymbopogon flexuosus essential oil. *Scientific Reports*, 12(1), 14249. <https://doi.org/10.1038/s41598-022-15899-9>

Patra, D., & El Kurdi, R. (2021). Curcumin as a novel reducing and stabilizing agent for the green synthesis of metallic nanoparticles. *Green Chemistry Letters and Reviews*, 14(3), 474-487. <https://doi.org/10.1080/17518253.2021.1941306>

Pemerintah Pusat. (2004). Undang – Undang Republik Indonesia No.7 Tahun 2004 tentang Sumber Daya Air. Jakarta.

Petretto, E., Ong, Q. K., Olgjati, F., Mao, T., Campomanes, P., Stellacci, F., & Vanni, S. (2022). Monovalent ion-mediated charge–charge interactions drive aggregation of surface-functionalized gold nanoparticles. *Nanoscale*, 14(40), 15181-15192. <https://doi.org/10.1039/D2NR02824G>

Prasad, S. R., Teli, S. B., Ghosh, J., Prasad, N. R., Shaikh, V. S., Nazeruddin, G. M., ... & Shaikh, Y. I. (2021). A review on bio-inspired synthesis of silver nanoparticles: their antimicrobial efficacy and toxicity. *Engineered Science*, 16, 90-128. https://www.espublisher.com/uploads/article_pdf/es8d479.pdf

Pratiwi, W. H., Putri, G. L., Pratama, M. A., Zulkarnain, F., & Priadi, C. R. (2021). Health risk analysis of nitrite, nitrate, and heavy metal pollution in groundwater near landfill area: A case study of the Sumur Batu village in Bekasi, Indonesia. In IOP Conference Series: *Earth and Environmental Science* (Vol. 633, No. 1, p. 012015). IOP Publishing. <https://doi.org/10.1088/1755-1315/633/1/012015>

Rauscher, H., Mech, A., Gibson, N., Gilliland, D., Held, A., Kestens, V., ... & Stefaniak, E. A. (2019). Identification of nanomaterials through measurements. *Publications Office of the European Union*.

Saputra, I. S., Suhartati, S., Yulizar, Y., & Sudirman, S. (2020). Synthesis and characterization of gold nanoparticles (AuNPs) by utilizing bioactive compound of imperata cylindrica L. *Indonesian Journal of Applied Chemistry*, 22(1), 1-7. <https://dx.doi.org/10.14203/jkti.v22i1.448>

Sembel, D. T. (2015). *Toksikologi Lingkungan*. Yogyakarta : Andi Offset.

Septianingtyas, E., & Agustini, R. (2021). Pengaruh Jenis Yeast terhadap kadar Glukosa Darah Mencit (*Mus musculus*) yang terindikasi Diabetes Melitus Tipe 2. *Journal of Chemistry*, 10(2), 128-134. <https://doi.org/10.26740/ujc.v10n2.p128-134>.

Shellaiah, M., Simon, T., Sun, K. W., & Ko, F. H. (2016). Simple bare gold nanoparticles for rapid colorimetric detection of Cr³⁺ ions in aqueous medium with real sample applications. *Sensors and Actuators B: Chemical*, 226, 44-51. <https://doi.org/10.1016/j.snb.2015.11.123>

Shellaiah, M., Thirumalaivasan, N., Sun, K. W., & Wu, S. P. (2021). A pH cooperative strategy for enhanced colorimetric sensing of Cr(III) ions using biocompatible L-glutamic acid stabilized gold nanoparticles. *Microchemical Journal*, 160, 105754. <https://doi.org/10.1016/j.microc.2020.105754>

Shi, M., & Wang, Z. (2020). Valence, Size, and Shape Control of Gold Nanoparticles Synthesized by Electron-Assisted Reduction. *Chemistry—An Asian Journal*, 15(22), 3904-3912. <https://doi.org/10.1002/asia.202001071>

Singh, P., & Mijakovic, I. (2022). Green synthesis and antibacterial applications of gold and silver nanoparticles from *Ligustrum vulgare* berries. *Scientific Reports*, 12(1), 7902. <https://doi.org/10.1038/s41598-022-11811-7>

Standar Nasional Indonesia (SNI) 7387. (2009). Batas Maksimum Cemaran Logam Berat dalam Pangan. Jakarta.

Standar Nasional Indonesia (SNI) ISO/IEC 17025:2017 . (2018). Persyaratan Umum

Kompetensi Laboratorium Pengujian dan Kalibrasi. Jakarta.

Sulistia, S. (2018). Konsentrasi Logam Berat dari Permukiman di Daerah Cisadane. *Jurnal Rekayasa Lingkungan*, 11(2), 56-62. <https://doi.org/10.29122/jrl.v11i2.3440>

Susilawati, N., & Andryanie, F. (2019). Pengaruh waktu kontak dan aktivasi ampas tebu terhadap kapasitas adsorpsi logam Cr dan Mn. *Indonesian Journal of Industrial Research*, 2(2), 277-284. <http://ejournal.kemenperin.go.id/pmbp/article/view/5499>

Terenteva, E. A., Arkhipova, V. V., Apyari, V. V., Volkov, P. A., & Dmitrienko, S. G. (2017). Simple and rapid method for screening of pyrophosphate using 6, 6-ionene-stabilized gold and silver nanoparticles. *Sensors and Actuators B: Chemical*, 241, 390-397. <https://doi.org/10.1016/j.snb.2016.10.093>

Timoszyk, A., & Grochowalska, R. (2022). Mechanism and Antibacterial Activity of Gold Nanoparticles (AuNPs) Functionalized with Natural Compounds from Plants. *Pharmaceutics*, 14(12), 2599. <https://doi.org/10.3390/pharmaceutics14122599>

Titus, D., Samuel, E. J. J., & Roopan, S. M. (2019). Nanoparticle characterization techniques. In *Green synthesis, characterization and applications of nanoparticles* (pp. 303-319). Elsevier. <https://doi.org/10.1016/B978-0-08-102579-6.00012-5>

US EPA (United States Environmental Protection Agency). (1980). *Ambient water quality criteria for chromium*. Washington, DC : US EPA (EPA440580035).

US EPA (United States Environmental Protection Agency). (1994). EPA Method 200.7 Revisi 4.4. *Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma – Atomic Emission Spectrometry*. Office of Research and Development, Cincinnati, OH.

Usman, A. I., & Abdul Aziz, A. (2020). Photometric Detection of Heavy Metals Using Biosynthesized Gold Nanoparticles. *Solid State Phenomena*, 301, 118-123. <https://doi.org/10.4028/www.scientific.net/SSP.301.118>

Vessman, J., Stefan, R. I., Van Staden, J. F., Danzer, K., Lindner, W., Burns, D. T., ... & Müller, H. (2001). Selectivity in analytical chemistry (IUPAC Recommendations 2001). *Pure and Applied Chemistry*, 73(8), 1381-1386. <https://doi.org/10.1351/pac200173081381>

Vitasari, M., Darundiati, Y. H., & Setiani, O. (2020). Biokonsentrasi Faktor Logam Berat Kromium Heksavalen (Cr VI) pada Ikan Nila (*Oreochromis niloticus*) di

Sungai Tenggang Semarang Timur. *Jurnal Ilmiah Mahasiswa*, 10(1), 6-9.
<https://ejournal.undip.ac.id/index.php/jim/index>

Wang, C. & Astruc, D. (2014). Nanogold Plasmonic Photocatalysis for Organic Synthesis and Clean Energy Conversion. *Chemical Society Reviews*, 43, 7188-7216.
<https://doi.org/10.1039/c4cs00145a>

Wang, Y., Wu, Z., Yu, H., Han, S., & Wei, Y. (2020). Highly efficient oxidation of alcohols to carboxylic acids using a polyoxometalate-supported chromium (III) catalyst and CO₂. *Green Chemistry*, 22(10), 3150-3154.
<https://doi.org/10.1039/D0GC00388C>

Wardani, A. K., Buana, E. O. G. H. N., & Sutrisno, A. (2023). The potency of bacteriophages isolated from chicken intestine and beef tribe to control biofilm-forming bacteria, *Bacillus subtilis*. *Scientific Reports*, 13(1), 8222.
<https://doi.org/10.1038/s41598-023-35474-0>

World Health Organization. (2020). *Chromium in Drinking-water* (No. WHO/HEP/ECH/WSH/2020.3). World Health Organization.

Yang, J., Wang, X., Zhou, T., Wei, L., Guo, M., Liu, Y., ... & Wang, Y. (2023). Construction of graphene/AuNPs based amperometric immunosensor for detecting bladder cancer biomarker apolipoprotein AI. *Carbon Letters*, 1-9.
<https://doi.org/10.1007/s42823-023-00595-z>

Yang, X., Fu, S., Ren, G., Chai, F., & Qu, F. (2015). Facile Preparation of 2, 6-Pyridinedicarboxylic Acid Protected Gold Nanoparticles with Sensitive Chromium-Ion Sensing and Efficient Catalysis. *European Journal of Inorganic Chemistry*, 2015(32), 5411-5418. <https://doi.org/10.1002/ejic.201500796>

Yu, Y., Hong, Y., Wang, Y., Sun, X., & Liu, B. (2017). Mecaptosuccinic acid modified gold nanoparticles as colorimetric sensor for fast detection and simultaneous identification of Cr³⁺. *Sensors and Actuators B: Chemical*, 239, 865-873. <https://doi.org/10.1016/j.snb.2016.08.043>

Yuan, X., Zhou, B., Li, M., Shen, M., & Shi, X. (2020). Colorimetric detection of Cr³⁺ ions in aqueous solution using poly (γ -glutamic acid)-stabilized gold nanoparticles. *Analytical Methods*, 12(24), 3145-3150.
<https://doi.org/10.1039/D0AY00842G>

Yue, G., Su, S., Li, N., Shuai, M., Lai, X., Astruc, D., & Zhao, P. (2016). Gold nanoparticles as sensors in the colorimetric and fluorescence detection of chemical

warfare agents. *Coordination Chemistry Reviews*, 311, 75-84.
<https://doi.org/10.1016/j.ccr.2015.11.009>

Zhang, X., Fan, L., Cui, Y., Cui, T., Chen, S., Ma, G., ... & Wang, L. (2020). Green synthesis of gold nanoparticles using longan polysaccharide and their reduction of 4-nitrophenol and biological applications. *Nano*, 15(01), 2050002.
<https://doi.org/10.1142/S1793292020500022>

Zhang, Z., Wang, H., Chen, Z., Wang, X., Choo, J., & Chen, L. (2018). Plasmonic colorimetric sensors based on etching and growth of noble metal nanoparticles: Strategies and applications. *Biosensors and Bioelectronics*, 114, 52-65.
<https://doi.org/10.1016/j.bios.2018.05.015>

Zhang, Z., Ye, X., Liu, Q., Liu, Y., & Liu, R. (2020). Colorimetric detection of Cr³⁺ based on gold nanoparticles functionalized with 4-mercaptopbenzoic acid. *Journal of Analytical Science and Technology*, 11, 1-7. <https://doi.org/10.1186/s40543-020-00209-7>

