

DAFTAR PUSTAKA

- Ahmed, S. R., Cirone, J., & Chen, A. (2019). Fluorescent Fe₃O₄ Quantum Dots for H₂O₂ Detection. *ACS Applied Nano Materials*, 2(4), 2076–2085. <https://doi.org/10.1021/acsanm.9b00071>
- Austin, E., Geisler, A. N., Nguyen, J., Kohli, I., Hamzavi, I., Lim, H. W., & Jagdeo, J. (2021). Visible light. Part I: Properties and cutaneous effects of visible light. Dalam *Journal of the American Academy of Dermatology* (Vol. 84, Nomor 5, hlm. 1219–1231). Mosby Inc. <https://doi.org/10.1016/j.jaad.2021.02.048>
- Biju, V. (2014). Chemical modifications and bioconjugate reactions of nanomaterials for sensing, imaging, drug delivery and therapy. Dalam *Chemical Society Reviews* (Vol. 43, Nomor 3, hlm. 744–764). Royal Society of Chemistry. <https://doi.org/10.1039/c3cs60273g>
- Cotta, M. A. (2020). Quantum Dots and Their Applications: What Lies Ahead? Dalam *ACS Applied Nano Materials* (Vol. 3, Nomor 6, hlm. 4920–4924). American Chemical Society. <https://doi.org/10.1021/acsanm.0c01386>
- Drbohlovova, J., Adam, V., Kizek, R., & Hubalek, J. (2009). Quantum dots - characterization, preparation and usage in biological systems. Dalam *International Journal of Molecular Sciences* (Vol. 10, Nomor 2, hlm. 656–673). <https://doi.org/10.3390/ijms10020656>
- Eustis, S., & El-Sayed, M. A. (2006). Why gold nanoparticles are more precious than pretty gold: Noble metal surface plasmon resonance and its enhancement of the radiative and nonradiative properties of nanocrystals of different shapes. *Chemical Society Reviews*, 35(3), 209–217. <https://doi.org/10.1039/b514191e>
- Homola, J. (2008). Surface plasmon resonance sensors for detection of chemical and biological species. Dalam *Chemical Reviews* (Vol. 108, Nomor 2, hlm. 462–493). <https://doi.org/10.1021/cr068107d>
- Jiang, J., Oberdörster, G., & Biswas, P. (2009). Characterization of size, surface charge, and agglomeration state of nanoparticle dispersions for toxicological studies. *Journal of Nanoparticle Research*, 11(1), 77–89. <https://doi.org/10.1007/s11051-008-9446-4>

- Jin, W., Huang, P., Chen, Y., Wu, F., & Wan, Y. (2015a). Colorimetric detection of Cr³⁺ using gold nanoparticles functionalized with 4-amino hippuric acid. *Journal of Nanoparticle Research*, 17(9). <https://doi.org/10.1007/s11051-015-3156-5>
- Jin, W., Huang, P., Chen, Y., Wu, F., & Wan, Y. (2015b). Colorimetric detection of Cr³⁺ using gold nanoparticles functionalized with 4-amino hippuric acid. *Journal of Nanoparticle Research*, 17(9). <https://doi.org/10.1007/s11051-015-3156-5>
- Kesrevani, R. K., & Sharma, A. K. (2016). Nanoarchitected Biomaterials: Present Status and Future Prospects in Drug Delivery. Dalam *Nanoarchitectonics for Smart Delivery and Drug Targeting* (hlm. 35–66). Elsevier Inc. <https://doi.org/10.1016/B978-0-323-47347-7.00002-1>
- Liu, B., Zhuang, J., & Wei, G. (2020). Recent advances in the design of colorimetric sensors for environmental monitoring. Dalam *Environmental Science: Nano* (Vol. 7, Nomor 8, hlm. 2195–2213). Royal Society of Chemistry. <https://doi.org/10.1039/d0en00449a>
- Liu, S., Zhang, L., Kim, H., Sun, J., & Yoon, J. (2024). Recent advances and challenges in monitoring chromium ions using fluorescent probes. Dalam *Coordination Chemistry Reviews* (Vol. 501). Elsevier B.V. <https://doi.org/10.1016/j.ccr.2023.215575>
- Liu, Y., & Wang, X. (2013). Colorimetric speciation of Cr(III) and Cr(VI) with a gold nanoparticle probe. *Analytical Methods*, 5(6), 1442–1448. <https://doi.org/10.1039/c3ay00016h>
- McCartor, A., & Becker, D. (2010). *World's Worst Pollution Problem Report 2010*. Blacksmith Institute.
- Nammahachak, N., Aup-Ngoen, K. K., Asanithi, P., Horpratum, M., Chuangchote, S., Ratanaphan, S., & Surareungchai, W. (2022). Hydrothermal synthesis of carbon quantum dots with size tunability via heterogeneous nucleation. *RSC Advances*, 12(49), 31729–31733. <https://doi.org/10.1039/d2ra05989d>
- Prasad, S., Yadav, K. K., Kumar, S., Gupta, N., Cabral-Pinto, M. M. S., Rezanian, S., Radwan, N., & Alam, J. (2021). Chromium contamination and effect on

- environmental health and its remediation: A sustainable approaches. Dalam *Journal of Environmental Management* (Vol. 285). Academic Press. <https://doi.org/10.1016/j.jenvman.2021.112174>
- Putri, L. R. I. D., Moelyaningrum, A. D., & Ningrum, P. T. R. (2022). Kondisi Fisik Air Sungai Dan Kandungan Logam Kromium Pada Ikan Nila (*Oreochromis niloticus*) (Studi Di Sungai Kreongan Sekitar Industri Batik X, Kecamatan Patrang, Kabupaten Jember). *Jurnal Kesehatan Lingkungan Indonesia*, 21(3), 293–300. <https://doi.org/10.14710/jkli.21.3.293-300>
- Shorny, A., Steiner, F., Hörner, H., & Skoff, S. M. (2023). Imaging and identification of single nanoplastic particles and agglomerates. *Scientific Reports*, 13(1). <https://doi.org/10.1038/s41598-023-37290-y>
- Singh, H., Bamrah, A., Bhardwaj, S. K., Deep, A., Khatri, M., Brown, R. J. C., Bhardwaj, N., & Kim, K. H. (2021). Recent advances in the application of noble metal nanoparticles in colorimetric sensors for lead ions. Dalam *Environmental Science: Nano* (Vol. 8, Nomor 4, hlm. 863–889). Royal Society of Chemistry. <https://doi.org/10.1039/d0en00963f>
- Suryati, L., Sulistyarti, H., & Atikah, A. (2015). Development of Spectrophotometric Method for Determination of Chromium Species Using Hypochlorite Agent Based on the Formation of Cr(VI)-Diphenylcarbazide Complex. *The Journal of Pure and Applied Chemistry Research*, 4(1), 34–41. <https://doi.org/10.21776/ub.jpacr.2015.004.01.183>
- Swaroop, A., Bagchi, M., Preuss, H. G., Zafra-Stone, S., Ahmad, T., & Bagchi, D. (2019). Benefits of chromium(III) complexes in animal and human health. Dalam *The Nutritional Biochemistry of Chromium (III)* (hlm. 251–278). Elsevier. <https://doi.org/10.1016/b978-0-444-64121-2.00008-8>
- Thakur, R., Sharma, G. D., Dwivedi, B. S., & Khatik, S. K. (2007). *CHROMIUM: AS A POLLUANT*.
- Verma, P., & Srivastava, S. (t.t.). *Chromium (III) and chromium (VI) in relation to human physiology: A review*. <https://www.researchgate.net/publication/286543075>

- Vinay, S. P., Udayabhanu, Nagaraju, G., Chandrappa, C. P., & Chandrasekhar, N. (2020). Hydrothermal synthesis of gold nanoparticles using spider cobweb as novel biomaterial: Application to photocatalytic. *Chemical Physics Letters*, 748. <https://doi.org/10.1016/j.cplett.2020.137402>
- Wang, X., Kong, L., Zhou, S., Ma, C., Lin, W., Sun, X., Kirsanov, D., Legin, A., Wan, H., & Wang, P. (2022). Development of QDs-based nanosensors for heavy metal detection: A review on transducer principles and in-situ detection. Dalam *Talanta* (Vol. 239). Elsevier B.V. <https://doi.org/10.1016/j.talanta.2021.122903>
- Wiryanan, A., Retnowati, R., Burhan, R. Y. P., & Syekhfani. (2018). METHOD OF ANALYSIS FOR DETERMINATION OF THE CHROMIUM (Cr) SPECIES IN WATER SAMPLES BY SPECTROPHOTOMETRY WITH DIPHENYLCARBAZIDE. *Journal of Environmental Engineering & Sustainable Technology*, 05(01), 37–46.
- Wise, J. T. F., Wang, L., Xu, J., Zhang, Z., & Shi, X. (2019). Oxidative stress of Cr(III) and carcinogenesis. Dalam *The Nutritional Biochemistry of Chromium (III)* (hlm. 323–340). Elsevier. <https://doi.org/10.1016/b978-0-444-64121-2.00010-6>
- Yang, W. M., Liu, F., Jin, Y. T., Dong, Z. M., & Zhao, G. C. (2022). Efficient Reduction of Cr(VI) with Carbon Quantum Dots. *ACS Omega*, 7(27), 23555–23565. <https://doi.org/10.1021/acsomega.2c02063>