

DAFTAR PUSTAKA

- Abdou, H.E., Mohamed, A.A., Fackler Jr, J.P., Burini, A., Galassi, R., Lopez-de-Luzuriaga, J.M. and Olmos, M.E., 2009, Structures and Properties of Gold(I) Complexes of Interest in Biochemical Applications, *Coord. Chem. Rev.*, 253, 1661-1669.
- Afzali, D., Daliri, Z. and Taher, M.A., 2014, Flame Atomic Absorption Spectrometry Determination of Trace Amount of Gold after Separation and Preconcentration onto Ion-exchange Polyethylenimine Coated on Al₂O₃, *Arab. J. Chem.*, 7, 770-774.
- Atkins, P. and Paula, J.D., 2009, *Physical Chemistry*, 8th edition, Oxford University Press, Oxford.
- Bhattacharjee, Y. and Chakraborty, A., 2014, Label-Free Cysteamine-Capped Silver Nanoparticle-Based Colorimetric Assay for Hg(II) Detection in Water with Subnanomolar Exactitude, *ACS Sustain. Chem. Eng.*, 2 (9), 2149-2154.
- Corti, C.W., Holliday, R.J. and Thompson, D.T., 2002, Developing New Industrial Applications for Gold: Gold Nanotechnology, *Gold Bull.*, 35, 111-117.
- Ebralidze, I.I., Laschuk, N.O., Poisson, J. and Zenkina, O.V., 2019, *Nanomaterials Design for Sensing Applications: Micro and Nano Technologies*, 1st edition, Elsevier, Amsterdam.
- Gao, G., Gan, W., Luo, J., Xiang, F., Zhang, J., Zhuo, H. and Liu, H., 2010, Preparation and Dispersive Mechanism of Highly Dispersive Ultrafine Silver Powder, *Appl. Surf. Sci.*, 256, 6683-6687.
- Gao, X., Lu, Y., He, S., Li, X. and Chen, W., 2015, Colorimetric Detection of Iron Ions (III) based on The Highly Sensitive Plasmonic Response of The N-acetyl-L-cysteine-stabilized Silver Nanoparticles, *Anal. Chim. Acta.*, 879, 118-125.
- Gao, Z., Li, P., Dong, S. and Zhao, Z., 1990, Voltammetric Determination of Trace Amounts of Gold(III) with a Carbon Paste Electrode Modified with Chelating Resin, *Anal. Chim. Acta.*, 232, 367-376.
- Guzman, K., Kumar, B., Grijalva, M., Debut, A. and Cumbal, L., 2022, *Green Chemistry – New Perspectives*, 1st edition, IntechOpen, London.

- Hassan, H., Sharma, P., Hasan, M.R., Singh, S., Thakur, D. and Narang, J., 2022, Gold Nanomaterials – The Golden Approach from Synthesis to Applications, *Mater. Sci. Technol.*, 5, 375-390.
- Hosokawa, M., Nogi, K., Naito, M. and Yokoyama, T., 2007, *Nanoparticle Technology Handbook*, 3rd edition, Elsevier, Amsterdam.
- Jain, P.K., Huang, X., El-Sayed, I.H. and El-Sayed, M.A., 2007, Noble Metals on the Nanoscale: Optical and Photothermal Properties and Some Applications in Imaging, Sensing, Biology, and Medicine, *Acc. Chem. Res.*, 41 (12), 1578-1586.
- Jana, N.R. and Peng, X.G., 2003, Single-Phase and Gram-Scale Routes Toward Nearly Monodisperse Au and Other Noble Metal Nanocrystals, *J. Am. Chem. Soc.*, 125, 14280-14281.
- Janah, I.M., Roto, R. and Siswanta, D., 2022, Effect of Ascorbic Acid Concentration on the Stability of Tartarate-Capped Silver Nanoparticles, *Indones. J. Chem.*, 3, 857-866.
- Kaewnok, N., Kraithong, S., Mahaveero, T., Maitarad, P., Sirirak, J., Wanichacheva, N. and Swanglap, P., 2022, Silver Nanoparticle Incorporated Colorimetric/Fluorescence Sensor for Sub-ppb Detection of Mercury Ion Via Plasmon-enhanced Fluorescence Strategy, *J. Photochem. Photobiol. A: Chem.*, 433, 114140-114153.
- Khan, I., Saeed, K. and Khan, I., 2019, Review: Nanoparticles, Properties, Applications and Toxicities, *Arab. J. Chem.*, 12 (7), 908-931.
- Li, X., Hu, Q., Yang, K., Zhao, S., Zhu, S., Wang, B., Zhang, Y., Yi, J., Song, X. and Lan, M., 2022, Red Fluorescent Carbon Dots for Sensitive and Selective Detection and Reduction of Au³⁺, *Sens. Actuators B Chem.*, 371, 1-7.
- Listopad, J.O., Bos, K.S., Szabelska, A., Piszcz, E.C., Borowicz, J. and Szymanska, J., 2015, The Use of Gold and Gold Alloys in Prosthetic Density-A Literature Review, *Curr. Issues Pharm. Med. Sci.*, 28, 192-195.
- Loiseau, A., Asila, V., Aullen, G.B., Lam, M., Salmain, M. and Boujday, S., 2019, Silver-Based Plasmonic Nanoparticles for and Their Use in Biosensing, *Biosensors*, 9, 1-40.
- Malejko, J., Swierzevska, N., Bajguz, A. and Godlewska-Zylkiewicz, B., 2018, Method Development for Speciation Analysis of Nanoparticle and Ionic

forms of Gold in Biological Samples by High Performance Liquid Chromatography Hyphenated to Inductively Coupled Plasma Mass Spectrometry, *Spectrochim. Acta Part B*, 142, 1-7.

Mochi, F., Burratti, L., Fratoddi, I., Venditti, I., Battocchio, C., Carlini, L., Iucci, G., Casalboni, M., Matteis, F.D., Casciardi, S., Nappini, S., Pis, I. and Proposito, P., 2018, Plasmonic Sensor Based on Interaction between Silver Nanoparticles and Ni²⁺ or Co²⁺ in water, *Nanomaterials.*, 8 (48), 1-14.

Nam, S.H., Lee, W.M., Shin, Y.J., Yoon, S.J., Kim, S.W., Kwak, J.I. and An, Y.J., 2014, Derivation of Guideline Values for Gold (III) Ion Toxicity Limits to Protect Aquatic Ecosystems, *Water Res.*, 48, 126-136.

Nie, P., Zhao, Y. and Xu, H., 2023, Synthesis, Applications, Toxicity and Toxicity Mechanisms of Silver Nanoparticles: A review, *Ecotoxicol. Environ. Saf.*, 253, 1-12.

Peng, S., McMahon, J.M., Schatz, G.C., Gray, S.K. and Sun, Y., 2010, Reversing the Size-Dependence of Surface Plasmon Resonance, *Proc. Natl. Acad. Sci. U. S. A.*, 107, 14530-14534.

Portales, H., Goubet, N., Saviot, L., Adichtchev, S., Murray, D., Mermet, A., Duval, E. and Pileni, M.P., 2008, Probing Atomic Ordering and Multiple Twinning in Metal Nanocrystals Through Their Vibrations, *Proc. Natl. Sci. U. S. A.*, 105, 14784-14789.

Proposito, P., Burratti, L. and Venditti, I., 2020, Review: Silver Nanoparticles as Colorimetric Sensors for Water Pollutants, *Chemosensors*, 8 (26), 1-29.

Quiroz, C.Q., Acevedo, N., Giraldo, J.Z., Botero, L.E., Quintero, J., Trivino, D.Z., Saldarriaga, J. and Perez, V.Z., 2019, Optimization of Silver Nanoparticle Synthesis by Chemical Reduction and Evaluation of Its Antimicrobial and Toxic Activity, *Biomater. Res.*, 23 (27), 1-15.

Restrepo, C.V. and Villa, C.C., 2021, Synthesis of Silver Nanoparticles, Influence of Capping Agents, and Dependence on Size and Shape: A review, *Environ. Nanotechnol. Monit. Manag.*, 15, 1-11.

Roto, R., Mellisani, B., Kuncaka, A., Mudasir, M. and Suratman, A., 2019, Colorimetric Sensing of Pb²⁺ Ion by Using Ag Nanoparticles in the Presence of Dithizone, *Chemosensors*, 7 (28), 1-12.

- Roto, R., Rasydta, H.P., Suratman, A. and Aprilita, N.H., 2018, Effect of Reducing Agents on Physical and Chemical Properties of Silver Nanoparticles, *Indones. J. Chem.*, 18 (4), 614-620.
- Simon, F.O. and Millard, H.T., 1968, Determination of Gold in Rocks by Neutron Activation Analysis Using Fire-Assay Preconcentration, *Anal. Chem.*, 40 (7), 1150-1152.
- Tang, Y. and Ouyang, M., 2007, Tailoring Properties and Functionalities of Metal Nanoparticles Through Crystallinity Engineering, *Nat. Mater.*, 6, 754-759.
- Toyalmat, T.M., El-Badawy, A.M., Genaidy, A., Scheckel, K.G., Luxton, T.P. and Suidan, M., 2010, An Evidence-based Environmental Perspective of Manufactured Silver Nanoparticle on Syntheses and Applications: A Systematic Review and Critical Appraisal of Peer-reviewed Scientific Papers, *Sci. Total Environ.*, 408, 999-1006.
- Vines, J.B., Yoon, J.H., Ryu, N.E., Lim, D.J. and Park, H., 2019, Gold Nanoparticles for Photothermal Cancer Therapy, *Front. Chem.*, 7, 167-202.
- Wijaya, K., Hadi, K., Herlina, I. dan Kurnia, A.T., 2016, *Nanomaterial: Aplikasinya dalam Pembuatan Biofuel*, edisi 1, UGM Press, Yogyakarta.
- Yaqoob, A.A., Umar, K. and Ibrahim, M.N.M, 2020, Silver Nanoparticles: Various Methods of Synthesis, Size Affecting Factors and Their Potential Applications-A review, *Appl. Nanosci.*, 10, 1369-1378.
- Zari, N., Hassan, J., Tabar-Heydar, K. and Ahmadi, S.H., 2020, Ion-association Dispersive Liquid-liquid Microextraction of Trace Amount of Gold in Water Samples and Ore using Aliquat 336 prior to Inductivity Coupled Plasma Atomic Emission Spectrometry Determination, *J. Ind. Eng. Chem.*, 86, 47-52.
- Zheng, N., Fan, J. and Stucky, G.D., 2006, One-Step One-Phase Synthesis of Monodisperse Noble-Metallic Nanoparticles and Their Colloidal Crystals, *J. Am. Chem. Soc.*, 128, 6550-6551.
- Zhu, S. and Zhuo, W., 2010, Review Article: Optical Properties and Immunoassay Applications of Noble Metal Nanoparticles, *J. Nanomater.*, 2010, 1-20.
- Zielinska, A., Skwarek, E., Zaleska, A., Gazda, M. and Hupka, J., 2009, Preparation of Silver Nanoparticles with Controlled Particle Size, *Procedia Chem.*, 1, 1560-1566.