

DAFTAR PUSTAKA

1. Hazan; Alatas SRIH. Rancang Bangun dan Optimalisasi Probe Alat Ukur Glukosa Darah Non-Invasive. 2019;6.
2. Abeje Abebayehu. Urine test strip analysis, concentration range and its interpretations of the parameters. GSC Biological and Pharmaceutical Sciences 2023;22(2):001–013.
3. Chen Y, Lai Z, Zhang X, et al. Phase engineering of nanomaterials. Nat Rev Chem. 2020;4(5):243–256.
4. Conde J, Doria G, Baptista P. Noble Metal Nanoparticles Applications in Cancer. J Drug Deliv 2012;2012:1–12.
5. Simamora JR, Iskandar, Aroli Harefa, Fisika Jl, Quality U, Peceren BJ, Berastagi K. Karakterisasi dan Preparasi Sensor Berbasis Kitosan sebagai Detektor Penyakit Diabetes. 2021;
6. Zhang R, Liu S, Jin H, et al. Noninvasive electromagneticwave sensing of glucose. Sensors (Switzerland). 2019;19(5).
7. Ghodselahti T, Aghababaie N, Mobasher H, Zand Salimi K, Akbarzadeh Pasha M, Vesaghi MA. Fabrication and characterization and biosensor application of gold nanoparticles on the carbon nanotubes. Appl Surf Sci 2015;355:1175–1179.
8. Maruthupandy M, Rajivgandhi G, Muneeswaran T, Vennila T, Quero F, Song JM. Chitosan/silver nanocomposites for colorimetric detection of glucose molecules. Int J Biol Macromol 2019;121:822–828.
9. Department Of Defense Handbook Composite Materials Handbook Volume 1. Polymer Matrix Composites Guidelines For Characterization Of Structural Materials Amsc Area Cmps Distribution Statement. Approved for public release; distribution unlimited. 2002;
10. Sircar A, Rayavarapu K, Bist N, Yadav K, Singh S. Applications of nanoparticles in enhanced oil recovery. Petroleum Research. 2022;7(1):77–90.
11. Sharma AK, Priya, Kaith BS. Polymer Nanocomposite Matrices: Classification, Synthesis Methods, and Applications. In: Handbook of Polymer and Ceramic Nanotechnology. Springer International Publishing, 2019; p. 1–26.
12. Imtihani HN, Permatasari SN. Sintesis dan Karakterisasi Kitosan dari Limbah Kulit Udang Kaki Putih (*Litopenaeus vannamei*). SIMBIOSA 2020;9(2):129.
13. Mahatmanti FW, Kusumastuti E, Jumaeri J, et al. Pembuatan Kitin dan Kitosan dari Limbah Cangkang Udang sebagai Upaya Memanfaatkan Limbah Menjadi Material Maju. Inovasi Kimia 2022;(1):1–38.
14. R MA, Yuliandri dan Amry Syaawalz R, Teknologi Bioindustri BPPT Jakarta P, Universitas Nusa Bangsa F. Isolasi Dan Karakterisasi Kitin Dari Limbah Udang. 2011;
15. Dolgopiatova N, Kuchina Y, Dyakina T, Volkova T. Effect of Heterogeneous Deacetylation on the Properties of Northern Shrimp Chitin and Chitosan. KnE Life Sciences 2020;
16. Chik CENCE, Kamaruzzan AS, Rahim AIA, et al. Extraction and Characterization of *Litopenaeus vannamei*'s Shell as Potential Sources of Chitosan Biopolymers. J Renew Mater 2023;11(3):1181–1197.
17. Cahyani NA. Aktivitas Antidiabetes Nanopartikel Silver Ekstrak Etanol dan Ekstrak Air Kembang Telang (*Clitoria ternatea L.*) Sebagai Inhibitor Enzim. Jurnal Farmasi 2020;
18. Driva NM, Akbar IB, Nurruhyuliawati W. Hubungan Kadar HbA1c dengan Glukosuria pada Pasien Diabetes Melitus Tipe 2 di RSUD Al-Ihsan Bandung Provinsi Jawa Barat. Jurnal Integrasi Kesehatan & Sains 2021;3(2).
19. Abeje Abebayehu. Urine test strip analysis, concentration range and its interpretations of the parameters. GSC Biological and Pharmaceutical Sciences 2023;22(2):001–013.
20. Risana MZ, Priatmoko S, Yati I, Tachrim ZP, Andreani AS. Sensitive and selective colorimetric sensor detection of Sn (II): An aqueous, paper, and gel-based method by green biomimetic silver nanoparticles. Talanta Open 2024;10.

21. Caro C, M. P, Klippstein R, Pozo D, P. A. Silver Nanoparticles: Sensing and Imaging Applications. In: *Silver Nanoparticles*. InTech, 2010;
22. Ahriani, Zelviani S, Hernawati, Fitriyanti. Analisis Nilai Absorbansi Untuk Menentukan Kadar Flavonoid Daun Jarak Merah (*Jatropha Gossypifolia L.*) Menggunakan Spektrofotometer Uv-Vis. *Jurnal Fisika dan Terapannya* 2021;8(2715–2774):56–64.
23. Sulistyani M, Huda N, Prasetyo R, Alauhdin DM, Abstrak IA. Indonesian Journal of Chemical Science Calibration of Microplate Uv-Vis Spectrophotometer for Quality Assurance Testing of Vitamin C using Calibration Curve Method [Homepage on the Internet]. 2023; Available from: <http://journal.unnes.ac.id/sju/index.php/ijcs>
24. Yudono B. *SPEKTROMETRI*. Palembang: 2017;
25. Giechaskiel B, Clairotte M. Fourier transform infrared (FTIR) spectroscopy for measurements of vehicle exhaust emissions: A review. *Applied Sciences (Switzerland)*. 2021;11(16).
26. Abriyani E, Syalomita D, Puji Apriani I, Puspawati I, Adiputra S, Toguria Nadeak Z. Pengaruh Pengolahan Termal Terhadap Struktur Molekul Material Polimer Studi Dengan Spektroskopi FTIR. *Journal Of Social Science Research* 2024;4.
27. Chauhan A. Powder XRD Technique and its Applications in Science and Technology. *J Anal Bioanal Tech* 2014;5(6).
28. Fatimah S, Ragadhita R, Fitria D, Husaeni A, Bayu A, Nandiyanto D. How to Calculate Crystallite Size from X-Ray Diffraction (XRD) using Scherrer Method. 2021; Available from: <http://dx.doi.org/10.17509/ijost.v6ix>
29. Wulan Sari N, Fajri M. Analisis Fitokimia Dan Gugus Fungsi Dari Ekstrak Etanol Pisang Goroho Merah (*Musa Acuminata* (L)). 2018 2(1).
30. Dewa I, Subamia P, Widiasih N, et al. Optimasi Kinerja Alat Fourier Transform Infrared (FTIR) Melalui Studi Perbandingan Komposisi dan Ketebalan Sampel-KBr. In *Jurnal Pengelolaan Laboratorium Pendidikan* 5(2).
31. Hisham F, Maziati Akmal MH, Ahmad FB, Ahmad K. Facile extraction of chitin and chitosan from shrimp shell. In: *Materials Today: Proceedings*. Elsevier Ltd, 2021; p. 2369–2373.
32. Eamrat R, Rujakom S, Pussayanavin T, Taweesan A, Witthayaphirom C, Kamei T. Optimizing biocoagulant aid from shrimp shells (*Litopenaeus vannamei*) for enhancing microplastics removal from aqueous solutions. *Environ Technol Innov* 2024;33.
33. Ogundare SA, Zyl WE van. Nanocrystalline cellulose as reducing- and stabilizing agent in the synthesis of silver nanoparticles: Application as a surface-enhanced Raman scattering (SERS) substrate. *Surfaces and Interfaces* 2018;13:1–10.
34. Kurniasih M, Purwati, Dewi RS. Toxicity tests, antioxidant activity, and antimicrobial activity of chitosan. In: *IOP Conference Series: Materials Science and Engineering*. Institute of Physics Publishing, 2018;
35. Ernawati B, Saepudin E, Nasir M. Chitosan Extraction Of Crab Shell On Different Time And Repetition Soaking. 2019;
36. Sinaga GB, Permatasari SN. Sintesis dan Karakterisasi Kitosan dari Limbah Kulit Udang Kaki Putih (*Litopenaeus vannamei*). *SIMBIOSA* 2009;9(2):129.
37. Mohan K, Muralisankar T, Jayakumar R, Rajeevgandhi C. A study on structural comparisons of α -chitin extracted from marine crustacean shell waste. *Carbohydrate Polymer Technologies and Applications* 2021;2.
38. Dompeipen EJ, Kaimudin M, Dewa Balai Riset dan Standarisasi Industri Ambon RP, Cengkeh J, Merah Ambon B. Isolation Of Chitin And Chitosan From Waste Of Skin Shrimp.
39. Elystia S, Hasibuan NAH, Zultiniar Z. Pemanfaatan Bionanomaterial Chitosan dari Limbah Cangkang Kulit Udang Sebagai Adsorben dalam Pengolahan Air Gambut. *Jurnal Ilmu Lingkungan* 2022;20(3):570–578.

40. Chik, Kamaruzzan AS, Rahim AIA, et al. Extraction and Characterization of Litopenaeus vannamei's Shell as Potential Sources of Chitosan Biopolymers. *J Renew Mater* 2023;11(3):1181–1197.
41. Fatimah, Islawati, Asdinar, AR. Pratiwi Hasanuddin. Pemanfaatan Chitosan Dari Limbah Kulit Udang Sebagai Pestabil Pada Nanopartikel Perak Dengan Bioreduktor Daun Serai (*Cymbopogon citratus*). *Jurnal Kesehatan Panrita Husada* 2021;6(2):195–203.
42. Siti Zulaicha A, Syahjoko Saputra I, Puspita Sari I, Alvien Ghifari M, Yulizar Y, Nopiandi Permana Y. Green Synthesis Nanopartikel Perak (AgNPs) Menggunakan Bioreduktor Alami Ekstrak Daun Ilalang (*Imperata cylindrica* L).
43. Lokanathan AR, Uddin KMA, Rojas OJ, Laine J. Cellulose nanocrystal-mediated synthesis of silver nanoparticles: Role of sulfate groups in nucleation phenomena. *Biomacromolecules* 2014;15(1):373–379.
44. Fu LM, Hsu JH, Shih MK, et al. Process optimization of silver nanoparticle synthesis and its application in mercury detection. *Micromachines (Basel)* 2021;12(9).
45. Vega-Baudrit J, Alvarado-Meza R, Solera-Jiménez F. Synthesis of silver nanoparticles using chitosan as a coating agent by sonochemical method [Homepage on the Internet]. 2014; Available from: www.saber.ula.ve/avancesenquimica
46. Bounegru AV, Bounegru I. Chitosan-Based Electrochemical Sensors for Pharmaceuticals and Clinical Applications. *Polymers (Basel)*. 2023;15(17).
47. Rajeshkumar S, Tharani M, Rajeswari VD, et al. Synthesis of greener silver nanoparticle-based chitosan nanocomposites and their potential antimicrobial activity against oral pathogens. *Green Processing and Synthesis* 2021;10(1):658–665.
48. Huq MA, Ashrafudoula M, Rahman MM, Balusamy SR, Akter S. Green Synthesis and Potential Antibacterial Applications of Bioactive Silver Nanoparticles: A Review. *Polymers (Basel)*. 2022;14(4).
49. Sapkota A, Sharma N, Rayamajhi A, Karki D, Sharma S, Adhikari A. Green Synthesis of Silver Nanoparticle Using Curcuma Longa Extract And Its' Application In Heavy Metal Sensing, Photocatalytic, And Antibacterial Activities [Homepage on the Internet]. Available from: <https://ssrn.com/abstract=4805651>
50. Nazeer WW, Hassanein EM, Barakat NA. Green synthesis of silver nanoparticles using Caltropis procera and Amaranthus ascendens stem extracts and evaluation of their antimicrobial activity. *African J Biol Sci [homepage on the Internet]* 2023;19(1):53–67. Available from: www.ajbs.journals.ekb.eg
51. Safirah A, Rismawati A, Alauhdin M, Wardani S. Synthesis and Characterization of Silver Nanoparticles-Chitosan Beads as Antibacterial Agents. *Jurnal Kimia Sains dan Aplikasi* 2025;28(1):47–52.
52. Rajeshkumar S, Tharani M, Rajeswari VD, et al. Synthesis of greener silver nanoparticle-based chitosan nanocomposites and their potential antimicrobial activity against oral pathogens. *Green Processing and Synthesis* 2021;10(1):658–665.
53. Sari R, Arif MS, Yusuf B. Analyst and Characterization Silver Nanoparticles (AgNPs) For Chloramphenicol Detection With Colorimetry Methode.
54. Muneeswaran T, Maruthupandy M, Mary AS, et al. Starch-mediated synthesis of chitosan/silver nanocomposites for antibacterial, antibiofilm and wound healing applications. *J Drug Deliv Sci Technol* 2023;84.
55. Badi'ah HI, Ummah DK, Puspaningsih NNT, Supriyanto G. Strategies in Improving Sensitivity of Colorimetry Sensor Based on Silver Nanoparticles in Chemical and Biological Samples. *Indonesian Journal of Chemistry*. 2022;22(6):1705–1721.
56. Ahmad L, 'Aisy KR, Wulandari IO, Sulistyarti H, Sabarudin A. Non-enzymatic Determination of Glucose in Artificial Urine Using 3D- μ PADs through Silver Nanoparticles Formation. *Indonesian Journal of Chemistry* 2024;24(5):1481.
57. Zhang Z, Yang G, He M, Qi L, Li X, Chen J. Synthesis of Silver Nanoparticles and Detection of Glucose via Chemical Reduction with Nanocellulose as Carrier and Stabilizer. *Int J Mol Sci* 2022;23(23).