

DAFTAR PUSTAKA

- Azis, S., Nadhirah, N., Muda, C., Hassan, J., Sulaiman, S., Matori, K. A., & Fen, Y. W. (2018). *Effect of Ratio in Ammonium Nitrate on the Structural , Microstructural , Magnetic , and AC*. 194. <https://doi.org/10.3390/ma11112190>
- B.R.Kirupakar, B.A.Vishwanath, M.Padma Sree, D. (2016). Vibrating Sample Magnetometer and Its Application In Characterisation Of Magnetic Property Of The Anti Cancer Drug Magnetic Microspheres. *International Journal of Pharmaceutics & Drug Analysis*, 4(5), 227–233.
- Bokov, D., Turki Jalil, A., Chupradit, S., Suksatan, W., Javed Ansari, M., Shewael, I. H., Valiev, G. H., & Kianfar, E. (2021). Nanomaterial by Sol-Gel Method: Synthesis and Application. *Advances in Materials Science and Engineering*, 2021. <https://doi.org/10.1155/2021/5102014>
- Deriyana Tri Rahmawati. (2015). Variasi Penambahan Fe₃O₄ pada panduan PANi/Fe₃O₄ sebagai bahan penyerap gelombang mikro. *Jurnal Fisika*, 04(1), 1–5.
- Dippong, T. (2022). Characterization and applications of metal ferrite nanocomposites. *Nanomaterials*, 12(1), 12–13. <https://doi.org/10.3390/nano12010107>
- Fachrully S, A., Erna S, N., & Susilo. (2021). Analisis Citra Hasil Scanning Electron Microscopy Energy Dispersive X-Ray (SEM EDX) Komposit Resin Timbal dengan Metode Contrast to Noise Ratio (CNR). *Indonesian Journal of Mathematics and Natural Sciences*, 44(2), 81–85. <http://journal.unnes.ac.id/nju/index.php/JM>
- Fitterman, D. V. (2015). 11.10 - Tools and Techniques: Active-Source Electromagnetic Methods. In G. Schubert (Ed.), *Treatise on Geophysics (Second Edition)* (Second Edi, pp. 295–333). Elsevier. <https://doi.org/https://doi.org/10.1016/B978-0-444-53802-4.00193-7>
- Hankare, P. P., Sanadi, K. R., Garadkar, K. M., Patil, D. R., & Mulla, I. S. (2013). Synthesis and characterization of nickel substituted cobalt ferrite nanoparticles by sol-gel auto-combustion method. *Journal of Alloys and Compounds*, 553, 383–388. <https://doi.org/10.1016/j.jallcom.2012.11.181>
- Hazarika, J., & Kumar, A. (2013). Controllable synthesis and characterization of polypyrrole nanoparticles in sodium dodecylsulphate (SDS) micellar solutions. *Synthetic Metals*, 175, 155–162. <https://doi.org/10.1016/j.synthmet.2013.05.020>
- Ihwani, S. A., & Ariswan. (2022). The Effect Of Selenium X-Fraction On The Structure And Lattice Parameters Of Massive Pb(S,Se) Lattering In Bridgman Technical Preparation. *Jurnal Ilmu Fisika Dan Terapannya*, 9(2), 1–13.

- Kate, R. S., Khalate, S. A., & Deokate, R. J. (2018). Overview of nanostructured metal oxides and pure nickel oxide (NiO) electrodes for supercapacitors: A review. *Journal of Alloys and Compounds*, 734, 89–111. <https://doi.org/10.1016/j.jallcom.2017.10.262>
- Kembar Sari, R. (2016). Potensi Mineral Batuan Tambang Bukit 12 Dengan Metode Xrd, Xrf Dan Aas. *Eksakta*, 2, 13–23.
- Kiani, M. N., Butt, M. S., Gul, I. H., Saleem, M., Irfan, M., Baluch, A. H., Akram, M. A., & Raza, M. A. (2023). Synthesis and Characterization of Cobalt-Doped Ferrites for Biomedical Applications. *ACS Omega*, 8(4), 3755–3761. <https://doi.org/10.1021/acsomega.2c05226>
- Kim, S., Lee, S., Zhang, Y., Park, S., & Gu, J. (2023). Carbon-Based Radar Absorbing Materials toward Stealth Technologies. *Advanced Science*, 2303104, 1–22. <https://doi.org/10.1002/advs.202303104>
- Kolcunová, I., Zbojovský, J., Pavlík, M., Bucko, S., Labun, J., Hegedus, M., Vavra, M., Cimbal, R., Kurimský, J., Dolník, B., & others. (2020). Shielding effectiveness of electromagnetic field by specially developed shielding coating. *Acta Physica Polonica A*, 137(5), 711–713.
- Lestari, W., & Mashuri. (2015). Penyerap Gelombang Mikro pada X-Band Berbahan Magnetit (Fe_3O_4) yang Dibuat dengan Metode Penggilingan. *Jurnal Sains Dan Seni*, 2(23), 1–5.
- Lett, J. A., Sundareswari, M., Ravichandran, K., Latha, M. B., Sagadevan, S., & Bin Johan, M. R. (2019). Tailoring the morphological features of sol-gel synthesized mesoporous hydroxyapatite using fatty acids as an organic modifier. *RSC Advances*, 9(11), 6228–6240. <https://doi.org/10.1039/c9ra00051h>
- Lison, D. (2014). Cobalt. *Handbook on the Toxicology of Metals*, 11, 743–763. <https://doi.org/10.1016/B978-0-444-59453-2.00034-2>
- Liza, Y. M., Yasin, R. C., Maidani, S. S., & Zainul, R. (2018). Gelation Sol-Gel Process Densification Ageing Drying. *Jurnal Edu Sains*, 2(5), 1–19.
- Lubis, W. Z., & Mujamilah, M. (2017). Pengukuran Sampel Magnetik Cair dengan Vibrating Sample Magnetometer (Vsm). *JPSE (Journal of Physical Science and Engineering)*, 2(2), 39–47. <https://doi.org/10.17977/um024v2i22017p039>
- Ma, Y., Wei, S., Liu, R., Sun, L., & Wang, W. (2024). A review on MXene-based microwave absorption composites: engineering component optimization and structure regulation. *J. Mater. Chem. C*, 12(25), 9068–9093. <https://doi.org/10.1039/D4TC01272K>
- Mahmood, J., Arsalani, N., Naghash-Hamed, S., Hanif, Z., & Geckeler, K. E. (2024). Preparation and characterization of hybrid polypyrrole

- nanoparticles as a conducting polymer with controllable size. *Scientific Reports*, 14(1), 1–12. <https://doi.org/10.1038/s41598-024-61587-1>
- Mapossa, A., Mhike, W., Adalima, J., & Tichapondwa, S. (2021). Removal of Organic Dyes from Water and Wastewater Using Magnetic Ferrite-Based Titanium Oxide and Zinc Oxide Nanocomposites: A Review. *Catalysts*, 11, 1543. <https://doi.org/10.3390/catal11121543>
- Minh, N. T. X., Oanh, P. L. K., Ha, H. K. P., & Vien, L. M. (2016). Synthesis of nano $\text{Co}_{1-x}\text{Ni}_x\text{Fe}_2\text{O}_4$ by sol-gel method and its properties. *Science & Technology Development*, 19(K6), 5115–5118.
- Muh David Balya Al. (2023). Kemajuan Teknologi Dan Pola Hidup Manusia Dalam Perspektif Sosial Budaya. *TUTURAN: Jurnal Ilmu Komunikasi, Sosial Dan Humaniora*, 1(3), 26–53. <https://doi.org/10.47861/tuturan.v1i3.272>
- Munib, Susilawati, & Savalas, L. R. T. (2016). SINTESIS BARIUM M-HEXAFERRITTE ($\text{Ba}_{12}\text{X}_{19}$) DOPING LOGAM NIKEL DENGAN METODE KOPRESIPITASI. *Jurnal Penelitian Pendidikan IPA*, 2(1). <https://doi.org/10.29303/jppipa.v2i1.28>
- Murtadha, F. H., Erdawati, E., & Setiawan, J. (2024). Sintesis dan Karakterisasi NiFe_2O_4 Sebagai Adsorben Amonia dalam Air Akuarium Budidaya Ikan Mas (*Cyprinus carpio*). *JRSKT - Jurnal Riset Sains Dan Kimia Terapan*, 10(2), 139–148. <https://doi.org/10.21009/jrskt.102.01>
- Muttaqin, R. (2023). Pengembangan Buku Panduan Teknik Karakterisasi Material: X-ray Diffractometer (XRD) Panalytical Xpert3 Powder. *Indonesian Journal of Laboratory*, 1(1), 9. <https://doi.org/10.22146/ijl.v1i1.78970>
- Nabella Nurul Aini, Widyastuti, R. F. (2016). Pengaruh Jenis Polimer Terhadap Reflection Loss Pada Polymer Matrix Composite (PMC) Barium Heksaferit Sebagai Radar Absorbing Material (RAM). *Jurnal Teknik ITS*, 5(2), 125–129.
- Nurjanah, N., Adzkia, Q. A. A., Rustana, R., Carolline, S. C., Agustine, S. M., & Nandiyanto, A. B. D. (2022). A Review: Nanoparticles NiFe_2O_4 Synthesis and Its Application as Hyperthermia Agents in Biomedicine. *Indonesian Journal of Chemical Science*, 11(2), 103–113. <https://doi.org/10.15294/ijcs.v11i2.52590>
- Prasetyowati, R., Widiawati, D., Swastika, P. E., Ariswan, A., & Warsono, W. (2021). Sintesis dan Karakterisasi Nanopartikel Magnetit (Fe_3O_4) Berbasis Pasir Besi Pantai Glagah Kulon Progo dengan Metode Kopresipitasi pada Berbagai Variasi Konsentrasi NH_4OH . *Jurnal Sains Dasar*, 10(2), 57–61. <https://doi.org/10.21831/jsd.v10i2.43043>
- Pratomo, S. B., Oktadinata, H., & Widodo, T. W. (2019). Effect of nickel additions on microstructure evolution and mechanical properties of low-alloy Cr-Mo cast steel. *IOP Conference Series: Materials Science and*

Engineering, 541(1), 12050.

- Praveen Kumar, J., Prasad, G. K., Ramacharyulu, P. V. R. K., Singh, B., & Anchal Roy, S. (2017). Metal ferrite nanoparticles: Synthesis, characterization, and studies on decontamination of sulfur mustard. In *Journal of Alloys and Compounds* (Vol. 692). Elsevier Ltd. <https://doi.org/10.1016/j.jallcom.2016.09.083>
- Rachmawati, S., & Zainuri, M. (2016). *Pelapisan Single Layer Penyerap Gelombang Radar Dispersi Barium M - Heksaferrit / Polianilin pada Rentang X - Band*. 5(2), 84–88.
- Radhica, D. D. (2023). Proteksionisme Nikel Indonesia dalam Perdagangan Dunia. *Cendekia Niaga*, 7(1), 74–84.
- Rahayu, S. L. (2024). *Green Synthesis Nanopartikel TiO₂ Dengan Ekstrak Kulit Buah Menteng (Baccaurea racemosa) Sebagai Fotokatalis Untuk Degradasi Acid Red-183*. UIN.
- Salih, S. J., & Mahmood, W. M. (2023). Review on magnetic spinel ferrite (MFe₂O₄) nanoparticles: From synthesis to application. *Heliyon*, 9(6), e16601. <https://doi.org/10.1016/j.heliyon.2023.e16601>
- Santoso, S. P. (2017). Analisa Pengoprasian Secondary Surveillance Radar (Ssr) Di Bandara Sukarno-Hatta. *Jurnal Ilmiah Elektrokrisna*, 5(3), 100–111.
- Sari, F. I. P. (2017). Sintesis, Karakterisasi Nanopartikel Magnetit, Mg/Al NO₃ –Hidrotalsit dan Komposit Magnetit-Hidrotalsit. *Jurnal Kimia VALENSI*, 3(1), 44–49. <https://doi.org/10.15408/jkv.v3i1.4526>
- Sinatra, T., & Noersomadi. (2015). Pemanfaatan Transportable Radar Cuaca Doppler X-Band Untuk Pengamatan Awan. *Berita Dirgantara*, 2, 91–97.
- Sravanthi, M., & Manjunatha, K. G. (2020). Synthesis and characterization of conducting polypyrrole with various dopants. *Materials Today: Proceedings*, 46(xxxx), 5964–5968. <https://doi.org/10.1016/j.matpr.2020.11.762>
- Sujiono, E. H., Diantoro, D., & Samnur, S. (2014). Karakteristik sifat fisis batuan nikel di Sorowako Sulawesi Selatan. *Jurnal Pendidikan Fisika Indonesia*, 10(2), 163–167.
- Sulistiyo, H., Fakhruddin Farhan, M., Soraya, N. A., & Gunadi, G. I. (2022). Material Lapisan Anti-Radar untuk Menyamarkan Kawasan Strategis dan Sarana Pendukung Militer (Markas TNI, Hanggar pesawat tempur, Hanggar Tank dan Gudang Amunisi). *Jurnal Kewarganegaraan*, 6(4), 6642–6649.
- Sunjaya, F., & Oktovianus, R. (2018). Optimasi Aerodinamika-Radar Cross Section (RCS) pada Sayap Cropped Delta dengan Metode Design of Experiments (DOE) dan Multi Objective Genetic Algorithm (MOGA)

- Aerodynamic - Radar Cross Section Optimization of Cropped Delta Wing with ANSYS Design of. *Jurnal Inovasi Pertahanan Dan Keamanan*, 01(1), 38–48.
- Sunu Brams Dwandaru, W., & Kristiyanti, N. (2021). *Sintesis dan Karakterisasi Reduced Graphene Oxide Berbahan Dasar Karbon Baterai NMC Menggunakan Metode Audiosonikasi*. 21–25.
- Tahcfullloh, S. (n.d.). *Identifikasi Amplitudo dan Sudut Kedatangan Sinyal Menggunakan Metode Forward-Backward APES pada Radar Identification of Amplitude and Direction- of-Arrival for Signals Using Forward- Backward APES Method on Multi-Antenna Radar*. 7(2).
- Taryana, Y., Manaf, A., Sudrajat, N., & Wahyu, Y. (2019). Material Penyerap Gelombang Elektromagnetik Jangkauan Frekuensi Radar. *Jurnal Keramik Dan Gelas Indonesia*, 28(1), 1–29.
- Teber, A., Unver, I., Kavas, H., Aktas, B., & Bansal, R. (2016). Knitted radar absorbing materials (RAM) based on nickel-cobalt magnetic materials. *Journal of Magnetism and Magnetic Materials*, 406, 228–232. <https://doi.org/10.1016/j.jmmm.2015.12.056>
- Wenjun Cao, Renju Lin, Xu Hou, Li Li, Feng Li, Defu Bo, Binghui Ge, Dongsheng Song, Jian Zhang, Zhenxiang Cheng, C. W. (2023). Interfacial Polarization Restriction for Ultrahigh Energy-Storage Density in Lead-Free Ceramics. *Advanced Functional Materials*, 23(29).
- Yuter, S. E. (2015). Radar: Precipitation Radar. *Encyclopedia of Atmospheric Sciences: Second Edition*, 4, 455–469. <https://doi.org/10.1016/B978-0-12-382225-3.00328-5>
- Zbicinski, I., Ciesielski, K., & Ge, B. (2022). Mechanism of Particle Agglomeration for Single and Multi-Nozzle Atomization in Spray Drying: A Review. *Processes*, 10(4). <https://doi.org/10.3390/pr10040727>