

DAFTAR PUSTAKA

- Abd Mutalib, M., Rahman, M. A., Othman, M. H. D., Ismail, A. F., dan Jaafar, J. (2017): Scanning Electron Microscopy (SEM) and Energy-Dispersive X-Ray (EDX) Spectroscopy, *Membrane Characterization*, 161–179. <https://doi.org/10.1016/B978-0-444-63776-5.00009-7>
- Abdelkader, A. M., Daher, A., dan El-Kashef, E. (2008): Novel decomposition method for zircon, *Journal of Alloys and Compounds*, **460**(1–2), 577–580. <https://doi.org/10.1016/J.JALLCOM.2007.06.032>
- Abdullahi, S., Güner, S., Koseoglu, Y., J, I. M.-N., dan 2016, undefined (2016): Simple method for the determination of band gap of a nanopowdered sample using Kubelka Munk theory, *Researchgate.Net*, diperoleh melalui situs internet: https://www.researchgate.net/profile/Bala-Adamu/publication/305810656_Simple_Method_For_The_Determination_of_Band_Gap_of_a_Nanopowdered_Sample_Using_Kubelka_Munk_Theory/links/57a2f3e408aeb16048366032/Simple-Method-For-The-Determination-of-Band-Gap-of-a-Na, (May).
- Afza (2011): Pembuatan Magnet Permanent Ba-Hexa Ferrite (Ba_{0.6}Fe₂O₃) Dengan Metode Koopresipitasi Dan Karakterisasinya, *FMIPA Universitas Sumatra Utara*.
- Ajiboye, T. O., Oyewo, O. A., dan Onwudiwe, D. C. (2021): Adsorption and photocatalytic removal of Rhodamine B from wastewater using carbon-based materials, *FlatChem*, **29**(August), 100277. <https://doi.org/10.1016/j.flatc.2021.100277>
- Akyuwen, F., Ely, S., dan Silahooy, S. (2024): IDENTIFIKASI FASA DAN MIKROSTRUKTUR SERBUK ZIRKONIA (ZrO₂) BERBAHAN DASAR PASIR ZIRKON ALAM, **10**(1).
- Ali, A., Chiang, Y. W., dan Santos, R. M. (2022): X-ray Diffraction Techniques for Mineral Characterization: A Review for Engineers of the Fundamentals, Applications, and Research Directions, *Minerals 2022, Vol. 12, Page 205*, **12**(2), 205. <https://doi.org/10.3390/MIN12020205>
- Alothman, Z. A. (2012): A review: Fundamental aspects of silicate mesoporous materials, *Materials*, **5**(12), 2874–2902. <https://doi.org/10.3390/ma5122874>
- Alviani, A. M. (2014): Analisa Pengaruh Dopan Ni-Zn Dengan Variasi Temperatur Sintering Dan Variasi Ph Terhadap Struktur Mikro Dan Sifat Magnetik Barium Heksaferrit Dengan Metode Sol-Gel Auto Combustion.
- Amelia, R., dan Zairinayati, Z. (2021): Analisis Keberadaan Rhodamin B Pada Saus Tomat Yang Beredar Di Pasar Kota Palembang, *Ruwa Jurai: Jurnal Kesehatan Lingkungan*, **14**(2), 85. <https://doi.org/10.26630/rj.v14i2.2153>
- Anisa, Z., Mubarakah, L., Setyaningrum, D., dan Novianto, H. (2023): Identifikasi Sifat Termal Dan Ikatan Batu Kapur Alam Dengan Menggunakan Dsc-Tga Dan Ftir, *Inovasi Teknik Kimia*, **8**(3), 173–177.
- Argote-Fuentes, S., Feria-Reyes, R., Ramos-Ramírez, E., Gutiérrez-Ortega, N., dan Cruz-Jiménez, G. (2021): Photoelectrocatalytic degradation of congo red dye with activated hydrotalcites and copper anode, *Catalysts*, **11**(2), 1–19.

- <https://doi.org/10.3390/catal11020211>
- Asbahani (2013): PEMANFAATAN LIMBAH AMPAS TEBU SEBAGAI KARBON AKTIF UNTUK MENURUNKAN KADAR BESI PADA AIR SUMUR, *Jurnal Teknik Sipil*, **13**(1). <https://doi.org/10.26418/JTST.V13I1.2019>
- Astuti, W. (2018): *Adsorpsi Menggunakan Material Berbasis Lignoselulosa*, Unnes Press, 1–216.
- Bahrizal, Adella, F., dan Kurniawati, D. (2020): Adsorption of Rhodamine B from Aqueous Solution Using Langsung (Lansium domesticum) Shell Powder. <https://doi.org/10.2991/ABSR.K.200807.054>
- Berbasis, A., Komposit, M., dan Titanate, K. (2023): Fotodegradasi Zat perwarna Tekstil (Rhodamin B) Menggunakan Adsorben Berbasis Material Komposit Kalsium Titanate (CaTiO₃), (April 2020). <https://doi.org/10.33005/jurnal>
- Bonanni, A. (2007): Ferromagnetic nitride-based semiconductors doped with transition metals and rare earths, *Semiconductor Science and Technology*, **22**(9), R41. <https://doi.org/10.1088/0268-1242/22/9/R01>
- Bouafia, A., Meneceur, S., Chami, S., Laouini, S. E., Daoudi, H., Legmairi, S., Mohammed Mohammed, H. A., Aoun, N., dan Mena, F. (2023): Removal of hydrocarbons and heavy metals from petroleum water by modern green nanotechnology methods, *Scientific Reports*, **13**(1). <https://doi.org/10.1038/s41598-023-32938-1>
- Brigitta Stacia Maharani, - (2024): PENGARUH INKORPORASI MAGNETIT TERHADAP KARAKTERISTIK DAN KINERJA KARBON AKTIF MIKROPORI TERHADAP ADSORPSI PARASETAMOL, diperoleh 17 Februari 2025 melalui situs internet: <https://repository.upi.edu/>.
- Broekhoff, J. C. P. (1979): Mesopore Determination from Nitrogen Sorption Isotherms: Fundamentals, Scope, Limitations, *Studies in Surface Science and Catalysis*, **3**(C), 663–684. [https://doi.org/10.1016/S0167-2991\(09\)60243-3](https://doi.org/10.1016/S0167-2991(09)60243-3)
- Busca, G. (2014): Heterogeneous Catalytic Materials: Solid State Chemistry, Surface Chemistry and Catalytic Behaviour.
- Chen, H., Sun, Z., Yang, Z., Zhang, Z., Wang, J., Feng, M., dan Yang, Q. (2017): Degradation of 3,4-dichlorobenzotrifluoride by the Fenton-like process using zirconia-coated magnetite magnetic nanoparticles as an effective heterogeneous catalyst, *Environmental Science and Pollution Research*, **24**(22), 18575–18584. <https://doi.org/10.1007/s11356-017-9552-x>
- Cheng, Q., Yang, W., Chen, Q., Zhu, J., Li, D., Fu, L., dan Zhou, L. (2020): Fe-doped zirconia nanoparticles with highly negative conduction band potential for enhancing visible light photocatalytic performance, *Applied Surface Science*, **530**(July), 147291. <https://doi.org/10.1016/j.apsusc.2020.147291>
- Ebrahimi, M., Ghaderi Hamidi, A., dan Pourabdoli, M. (2022): Utilization of Na₂CO₃ for intermediate phase formation in vanadium-zircon pigment synthesis, *Materials Chemistry and Physics*, **281**, 125875. <https://doi.org/10.1016/J.MATCHEMPHYS.2022.125875>
- Elma, M. (2016): Proses Sol-Gel: Analisis, Fundamental dan Aplikasi – Fakultas Teknik Universitas Lambung Mangkurat, diperoleh 12 November 2024, melalui situs internet: <https://ft.ulm.ac.id/id/books/proses-sol-gel-analisis->

fundamental-dan-aplikasi/.

- Fakeeha, A. H., Kasim, S. O., Ibrahim, A. A., Al-Awadi, A. S., Alzahrani, E., Abasaheed, A. E., Awadallah, A. E., dan Al-Fatesh, A. S. (2020): Methane Decomposition Over ZrO₂-Supported Fe and Fe–Ni Catalysts—Effects of Doping La₂O₃ and WO₃, *Frontiers in Chemistry*, **8**(April), 1–13. <https://doi.org/10.3389/fchem.2020.00317>
- Famia, A. M., dan Muldarisnur, M. (2019): Pengaruh Temperatur Sintesis Hidrotermal Terhadap Diameter Nanopartikel Seng Oksida, *Jurnal Fisika Unand*, **8**(2), 127–132. <https://doi.org/10.25077/JFU.8.2.127-132.2019>
- Fauriani, R., Aritonang, A. B., dan Harlia (2019): Sintesis Dan Karakterisasi TiO₂/Ti Terdoping Fe(III) Menggunakan Metode Anodisasi In-Situ, *Jurnal Kimia Khatulistiwa*, **8**(2), 73–81.
- Fikriandini, N., dan Khair, M. (2023): PENENTUAN CELAH PITA KATALIS ZnO/ZEOLIT YANG DISINTESIS DENGAN METODA SONIKASI, *CHEDS: Journal of Chemistry, Education, and Science*, **7**(1), 40–44. <https://doi.org/10.30743/cheds.v7i1.6609>
- Gan, Y. X., Jayatissa, A. H., Yu, Z., Chen, X., dan Li, M. (2020): Hydrothermal Synthesis of Nanomaterials, *Journal of Nanomaterials*, **2020**. <https://doi.org/10.1155/2020/8917013>
- Gurushantha, K., Anantharaju, K. S., Nagabhushana, H., Sharma, S. C., Vidya, Y. S., Shivakumara, C., Nagaswarupa, H. P., Prashantha, S. C., dan Anilkumar, M. R. (2015): Facile green fabrication of iron-doped cubic ZrO₂ nanoparticles by *Phyllanthus acidus*: Structural, photocatalytic and photoluminescent properties, *Journal of Molecular Catalysis A: Chemical*, **397**, 36–47. <https://doi.org/10.1016/J.MOLCATA.2014.10.025>
- Haikal, D. (2023): SINTESIS DAN KARAKTERISASI ZnO TERDOPING LANTANUM (III) DENGAN VARIASI KONSENTRASI DOPAN MENGGUNAKAN METODE HIDROTERMAL, (Iii).
- Hashemzadeh, F., Rahimi, R., Gaffarinejad, A., Jalalat, V., dan Safapour, S. (2015): Photocatalytic treatment of wastewater containing Rhodamine B dye via Nb₂O₅ nanoparticles: effect of operational key parameters, *Desalination and Water Treatment*, **56**(1), 181–193. <https://doi.org/10.1080/19443994.2014.936516>
- Hjiri, M., Zahmouli, N., Khouzami, K., Mir, L. El, Aida, M. S., Moulae, K., Lemine, O. M., Leonardi, S. G., dan Neri, G. (2020): A comparison of NO₂ sensing characteristics of α - and γ -iron oxide-based solid-state gas sensors, *Applied Physics A: Materials Science and Processing*, **126**(10), 1–7. <https://doi.org/10.1007/S00339-020-03829-3/METRICS>
- Horti, N. C., Kamatagi, M. D., Nataraj, S. K., Wari, M. N., dan Inamdar, S. R. (2020): Structural and optical properties of zirconium oxide (ZrO₂) nanoparticles: Effect of calcination temperature, *Nano Express*, **1**(1). <https://doi.org/10.1088/2632-959X/ab8684>
- Jumardin, Maddu, A., Santoso, K., dan Isnaeni (2022): Karakteristik Sifat Optik Nanopartikel Karbon (Carbon Dots) Dengan Metode Uv-Vis Drs (Ultraviolet-Visible Diffuse Reflectance Spectroscopy), *JFT: Jurnal Fisika dan Terapannya*, **9**(1), 1–15. <https://doi.org/10.24252/jft.v9i1.28815>

- Kang, X., Kang, Y., Hong, X., Sun, Z., Zhen, C., Hu, C., Liu, G., dan Cheng, H. (2018): Improving the photocatalytic activity of graphitic carbon nitride by thermal treatment in a high-pressure hydrogen atmosphere, *Progress in Natural Science: Materials International*, **28**(2), 183–188. <https://doi.org/10.1016/J.PNSC.2018.02.006>
- Kök, M. V., Varfolomeev, M. A., dan Nurgaliev, D. K. (2021): TGA and DSC investigation of different clay mineral effects on the combustion behavior and kinetics of crude oil from Kazan region, Russia, *Journal of Petroleum Science and Engineering*, **200**(January). <https://doi.org/10.1016/j.petrol.2021.108364>
- Lestari, V. P., Abrar, A., dan Fathonah, I. W. (2019): Sintesis Nanostruktur ZnO Dengan Metode Hidrotermal Untuk Aplikasi Sensor Gas Butana, *eProceedings of Engineering*, diperoleh 16 November 2024 melalui situs internet: <https://openlibrarypublications.telkomuniversity.ac.id/index.php/engineering/article/view/9777>, **6**(2).
- Lisdawati, A. N. (2015): EFFECT OF CALCINATION TEMPERATURE AND HOLDING TIME ON PHASE FORMATION OF ZrO₂, *Thesis*.
- Liu, J., Song, J., Qi, T., Zhang, C., dan Qu, J. (2016): Controlling the formation of Na₂ZrSiO₅ in alkali fusion process for zirconium oxychloride production, *Advanced Powder Technology*, **27**(1), 1–8. <https://doi.org/10.1016/J.APT.2015.08.005>
- Liu, Y., Miao, C., Yang, P., He, Y., Feng, J., dan Li, D. (2019): Synergetic promotional effect of oxygen vacancy-rich ultrathin TiO₂ and photochemical induced highly dispersed Pt for photoreduction of CO₂ with H₂O, *Applied Catalysis B: Environmental*, **244**, 919–930. <https://doi.org/10.1016/J.APCATB.2018.12.028>
- Liza, Y. M., Yasin, R. C., Maidani, S. S., dan Zainul, R. (2018): SOL GEL : PRINCIPLE AND TECHNIQUE (A REVIEW). <https://doi.org/10.17605/OSF.IO/DNP8R>
- Lowell, S., Shields, J. E., Thomas, M. A., dan Thommes, M. (2004): Characterization of Porous Solids and Powders: Surface Area, Pore Size and Density, **16**. <https://doi.org/10.1007/978-1-4020-2303-3>
- Masta, N. (2020): Buku Materi Pembelajaran Scanning Electron Microscopy.
- Mijoska, A., Popovska, M., Gigovski, N., Korunoska Stevkovska, V., Bajraktarova Valjakova, E., dan Zlatanovska, K. (2015): Implant-prosthetic therapy failure in smoker and nonsmoker patients, diperoleh melalui situs internet: <http://eprints.ugd.edu.mk/15472/>, (November).
- Muarip, S., Artsanti, P., Fajriati, I., dan Krisdiyanto, D. (2022): FOTODEGRADASI ZAT WARNA RHODAMIN B DENGAN FOTOKATALIS KOMPOSIT TiO₂-SiO₂, *Indonesian Journal of Materials Chemistry*, **3**(1), 15–18. <https://doi.org/10.14421/ijmc.v3i1.3875>
- Mužina, K., Kurajica, S., Dražić, G., Guggenberger, P., dan Matijašić, G. (2021): True doping levels in hydrothermally derived copper-doped ceria, *Journal of Nanoparticle Research*, **23**(7), 1–14. <https://doi.org/10.1007/S11051-021-05274-6/METRICS>
- Navío, J. A., Hidalgo, M. C., Colón, G., Botta, S. G., dan Litter, M. I. (2001):

- Preparation and physicochemical properties of ZrO₂ and Fe/ZrO₂ prepared by a sol-gel technique, *Langmuir*, **17**(1), 202–210. <https://doi.org/10.1021/LA000897D>
- Oktapiani, N. K. A., Simpen, I. N., dan Negara, I. M. S. (2021): FOTODEGRADASI RHODAMIN B OLEH KATALIS ZEOLIT ALAM-TiO₂/ZnO dan IRRADIASI SINAR TAMPAK, *Jurnal Kimia*, **15**(1), 94. <https://doi.org/10.24843/jchem.2021.v15.i01.p13>
- Paramitha, T., Utami, K., Anggraini, Y. M., dan Paramitha, T. (2023): Sintesis dan Karakterisasi Semikonduktor TiO₂ Doping Magnesium dengan Metode Hidrotermal, *KOVALEN: Jurnal Riset Kimia*, **9**(1), 33–42. <https://doi.org/10.22487/kovalen.2023.v9.i1.16275>
- Pownceby, M. I., Sparrow, G. J., Aral, H., Smith, L. K., dan Bruckard, W. J. (2015): Recovery and processing of zircon from Murray Basin mineral sand deposits, *Transactions of the Institutions of Mining and Metallurgy, Section C: Mineral Processing and Extractive Metallurgy*, **124**(4), 240–253. <https://doi.org/10.1179/1743285515Y.0000000016>
- Pretorius, E. (2010): Influence of acceleration voltage on scanning electron microscopy of human blood platelets, *Microscopy research and technique*, **73**(3), 225–228. <https://doi.org/10.1002/JEMT.20778>
- Purwitasari, D. G., Tussania, R., dan Fathoni, R. (2022): ADSORPSI LOGAM KADMIUM (Cd) PADA KADMIUM SULFAT (CdSO₄) MENGGUNAKAN BATANG POHON PISANG SEBAGAI ADSORBEN, *Jurnal Chemurgy*, **6**(1), 52–57. <https://doi.org/10.30872/CMG.V6I1.7905>
- Putri, W. K. A. (2009): Pemeriksaan Penyalahgunaan Rhodamin B Sebagai Pewarna Pada Sediaan Lipstik Yang Beredar Di Pusat Pasar Kota Medan.
- Radoń, A., Drygała, A., Hawełek, Ł., dan Łukowiec, D. (2017): Structure and optical properties of Fe₃O₄ nanoparticles synthesized by co-precipitation method with different organic modifiers, *Materials Characterization*, **131**, 148–156. <https://doi.org/10.1016/J.MATCHAR.2017.06.034>
- Raju, P., Deivatamil, D., Martin Mark, J. A., dan Jesuraj, J. P. (2021): Antibacterial and catalytic activity of Cu doped ZnO nanoparticles: structural, optical, and morphological study, *Journal of the Iranian Chemical Society*, **19**(3), 861–872. <https://doi.org/10.1007/S13738-021-02352-3>
- Rakngam, I., Alves, G. A. S., Osakoo, N., Wittayakun, J., Konegger, T., dan Fottinger, K. (2024): Hydrothermal synthesis of ZnZrO_x catalysts for CO₂ hydrogenation to methanol: the effect of pH on structure and activity, *RSC Sustainability*. <https://doi.org/10.1039/d4su00522h>
- Reddy, C. V., Babu, B., Reddy, I. N., dan Shim, J. (2018): Synthesis and characterization of pure tetragonal ZrO₂ nanoparticles with enhanced photocatalytic activity, *Ceramics International*, **44**(6), 6940–6948. <https://doi.org/10.1016/J.CERAMINT.2018.01.123>
- Reddy, C. V., Reddy, I. N., Harish, V. V. N., Reddy, K. R., Shetti, N. P., Shim, J., dan Aminabhavi, T. M. (2020): Efficient removal of toxic organic dyes and photoelectrochemical properties of iron-doped zirconia nanoparticles, *Chemosphere*, **239**, 124766. <https://doi.org/10.1016/j.chemosphere.2019.124766>

- Reed, J. S. (1988): Introduction to the principles of ceramic processing, 486.
- Rohman, A. (2012): *Kimia Farmasi Analisis*, Pustaka Pelajar.
- Rosado, E., Borrell, A., Benavente, R., Suarez, M., dan Moreno, R. (2024): Enhanced properties of ZrSiO₄/ZrO₂ composites produced by colloidal processing and spark plasma sintering, *Journal of the European Ceramic Society*, **44**(14), 116694. <https://doi.org/10.1016/J.JEURCERAMSOC.2024.116694>
- Rosado, E., Marín-Cortés, S., dan Moreno, R. (2024): Sintering, mechanical properties and hydrothermal resistance of ZrO₂/ZrSiO₄ slip cast composites, *Journal of the European Ceramic Society*, **44**(11), 6576–6585. <https://doi.org/10.1016/J.JEURCERAMSOC.2024.04.039>
- Saini, B. S., dan Kaur, R. (2021): X-ray diffraction, *Handbook of Modern Coating Technologies: Advanced Characterization Methods*, 85–141. <https://doi.org/10.1016/B978-0-444-63239-5.00003-2>
- Sari, A. M., Umar, E., Prajitno, D. H., Fitriana, R., Ramadhan, A. I., Rahardja, I. B., dan Faisal, A. I. (2023): Sintesa Nano Zirkon Dari Pasir Zirkon Lokal Dengan Metode Fusi Kaustik Soda-Presipitasi-Kalsinasi, *Jurnal Teknologi Universitas Muhammadiyah Jakarta*, diperoleh melalui situs internet: <https://dx.doi.org/10.24853/jurtek.15.2.189-198>, **15**(2), 189–198.
- Septiana, R., Benti Etika, S., dan Nasra, E. (2020): Adsorpsi Zat Warna Rhodamin B Menggunakan Senyawa C-Sinamalkaliks[4]Resorsinarena (CSKR) dengan Metoda Batch, *Periodic*, **9**(1), 17–23. <https://doi.org/10.24036/P.V9I1.108808>
- Sing, K. S. W., Everett, D. H., Haul, R. A. W., Moscou, L., Pierotti, R. A., Rouquerol, J., dan Siemieniewska, T. (1985): Reporting Physisorption Data for Gas/Solid Systems with Special Reference to the Determination of Surface Area and Porosity, *Pure and Applied Chemistry*, **57**(4), 603–619. <https://doi.org/10.1351/PAC198557040603/MACHINEREADABLECITATION/RIS>
- Subuki, I. (2022): Influence on Ratio of NaOH/ZrSiO₄ in Alkali Fusion for Amang Zircon Sand, *ASM Science Journal*, **17**, 1–10. <https://doi.org/10.32802/asmscj.2022.1093>
- Subuki, I., Mohsin, M. F., Ismail, M. H., dan Fadzil, F. S. M. (2020): Study of the synthesis of zirconia powder from zircon sand obtained from zircon minerals malaysia by caustic fusion method, *Indonesian Journal of Chemistry*, **20**(4), 782–790. <https://doi.org/10.22146/IJC.43936>
- Sukarni, A. (2019): Analisis Termal (TGA,DMA,TMA), diperoleh 28 Januari 2024melalui situs internet: https://www.academia.edu/9725740/analisis_termal_TGA_DMA_TMA_.
- Sukarsono, R., Rachmawati, M., Susilowati, S. R., Husnurrofiq, D., Nurwidyaningrum, K., dan Dewi, A. K. (2018): Effect of Sol Concentration, Aging and Drying Process on Cerium Stabilization Zirconium Gel Produced by External Gelation, *Journal of Physics: Conference Series*, **962**(1), 012056. <https://doi.org/10.1088/1742-6596/962/1/012056>
- Suprihatin, I. E., Suat, R. M., dan Negara, I. M. S. (2022): Fotodegradasi Zat Warna Methylene Blue Dengan Sinar Uv Dan Fotokatalis Nanopartikel Perak, *Jurnal Kimia*, **16**(2), 168. <https://doi.org/10.24843/jchem.2022.v16.i02.p06>

- Suryanarayana, C., dan Norton, M. G. (1998): X-Ray Diffraction: A Practical Approach (Google eBook), 273.
- Susilowati, S. R., Pribadi, S., Sartono, A., dan Swasti, D. (2020): Peningkatan Kadar Zirkonium Oksida dari Pasir Mineral Zirkon dengan Cara Pelindian, *Jurnal Pengelolaan Instalasi Nuklir*, **13**(24), 1–10.
- Syauqiah, I. (Isna), Amalia, M. (Mayang), dan Kartini, H. A. (Hetty) (2011): Analisis Variasi Waktu Dan Kecepatan Pengaduk Pada Proses Adsorpsi Limbah Logam Berat Dengan Arang Aktif, *Infoteknik*, **12**(1), 11–20.
- Tan, H., Yu, Z., LaGrow, A. P., Ma, S., Wang, J., Li, H., Xiong, D., dan Liu, L. (2023): One-step hydrothermal synthesis of Se-doped NiTe electrocatalysts for efficient hydrogen production from saline water assisted by anodic iodide oxidation, *Journal of Materials Chemistry A*, **11**(47), 26152–26163. <https://doi.org/10.1039/d3ta04387h>
- Taufan, A. (2008): Pengujian alat pendingin adsorpsi dua adsorben dengan menggunakan metanol 250 ml sebagai refrigeran = The experiment of two adsorber adsorption system with 250 ml methanol as refrigerant, Fakultas Teknik Universitas Indonesia.
- Toldra-Reig, F., Pastor, D., Serra, J. M., Kalinina, E. G., Pikalova, E. Y., Apriany, K., Permadani, I., Syarif, D. G., Soepriyanto, S., Rahmawati, F., Nasional, A., Taman, J., dan Bandung, S. (2016): Electrical conductivity of zirconia and yttrium-doped zirconia from Indonesian local zircon as prospective material for fuel cells, *IOP Conference Series: Materials Science and Engineering*, **107**(1), 012023. <https://doi.org/10.1088/1757-899X/107/1/012023>
- Underwood, A. L. (2002): *Analisa Kimia Kuantitatif, Edisi Kelima*, Erlangga, Jakarta.
- Verma, G., dan Mishra, M. (2018): Development and Optimization Of UV-Vis Spectroscopy - A Review, *World Journal of Pharmaceutical Research*, **7**(11), 1170–1180. <https://doi.org/10.20959/wjpr201811-12333>
- Warono, D. (2013): UNJUK KERJA SPEKTROFOTOMETER UNTUK ANALISA ZAT AKTIF KETOPROFEN.
- Wulandari, S., Rahma, A. N., Wahyuni, S., dan Lubis, B. (2023): ANALIYSIS OF RHODAMINE B DYESTUFFS ON LIPTINT USING UV-VIS SPECTROPHOTOMETRY METHOD, *JURNAL FARMASIMED (JFM)*, **5**(2), 184–191. <https://doi.org/10.35451/JFM.V5I2.1295>
- Xiao, M., Li, Y., Lu, Y., dan Ye, Z. (2015): Synthesis of ZrO₂:Fe nanostructures with visible-light driven H₂ evolution activity, *Journal of Materials Chemistry A*, **3**(6), 2701–2706. <https://doi.org/10.1039/C4TA05931J>
- Yañez, M. J., dan Barbosa, S. E. (2003): Changes in particle area measurements due to SEM accelerating voltage and magnification, *Microscopy research and technique*, **61**(5), 463–468. <https://doi.org/10.1002/JEMT.10309>
- Yin, Y., Zhang, X., dan Sun, C. (2018): Transition-metal-doped Fe₂O₃ nanoparticles for oxygen evolution reaction, *Progress in Natural Science: Materials International*, **28**(4), 430–436. <https://doi.org/10.1016/J.PNSC.2018.07.005>
- Zhan, Y., Wang, Y., Gu, D., Chen, C., Jiang, L., dan Takehira, K. (2018): Ni/Al₂O₃-ZrO₂ catalyst for CO₂ methanation: The role of γ -(Al, Zr)₂O₃

formation, *Applied Surface Science*, **459**, 74–79.
<https://doi.org/10.1016/J.APSUSC.2018.07.206>

Zulichatun, S., Aris, W., Apriza, M., Yoga, A. P., Lutfi, N., dan Novita, D. R. (2015): Analisis Luas Permukaan Zeolit Alam Termodifikasi dengan Metode BET Menggunakan Surface Area Analyzer (SAA), *Pelatihan Instrumen*, **2015**, 1–10.