

## DAFTAR PUSTAKA

- A. Jatyaraga, B., K. Atmadja, L., A. Anggorowati, D., & Setyawati, H. (2016). Pengaruh Massa Magnesium Silikat dan Waktu Operasi Pada Proses Pemurnian Biodiesel. *Konversi*, 4(1), 1. <https://doi.org/10.20527/k.v4i1.258>
- Ali, M., & A-Ali Drea, A. (2021). Green Synthesis and Characterization of Antibiotic Amorphous Nano Silicon Oxide Powder Extracted from Rice Husk Ash. *International Journal of Current Research and Review*, 13(24), 94–99. <https://doi.org/10.31782/ijcrr.2021.132406>
- Allothman, Z. A. (2012). A review: Fundamental aspects of silicate mesoporous materials. Dalam *Materials* (Vol. 5, Nomor 12, hlm. 2874–2902). <https://doi.org/10.3390/ma5122874>
- Anggraini, N., Agustina, T. E., & Hadiah, F. (2022). Pengaruh pH dalam Pengolahan Air Limbah Laboratorium Dengan Metode Adsorpsi untuk Penurunan Kadar Logam Berat Pb, Cu, dan Cd. *Jurnal Ilmu Lingkungan*, 20(2), 345–355. <https://doi.org/10.14710/jil.20.2.345-355>
- Aysa-Martínez, Y., Anoro-López, S., Cano, M., Julve, D., Pérez, J., & Coronas, J. (2021a). Synthesis of amorphous magnesium silicates with different SiO<sub>2</sub>:MgO molar ratios at laboratory and pilot plant scales. *Microporous and Mesoporous Materials*, 317. <https://doi.org/10.1016/j.micromeso.2021.110946>
- Aysa-Martínez, Y., Anoro-López, S., Cano, M., Julve, D., Pérez, J., & Coronas, J. (2021b). Synthesis of amorphous magnesium silicates with different SiO<sub>2</sub>:MgO molar ratios at laboratory and pilot plant scales. *Microporous and Mesoporous Materials*, 317, 110946. <https://doi.org/10.1016/j.micromeso.2021.110946>
- Azizian, S., & Eris, S. (2021). *Adsorption isotherms and kinetics* (hlm. 445–509). <https://doi.org/10.1016/B978-0-12-818805-7.00011-4>
- Chandra Srivastava, V., Deo Mall, I., & Mani Mishra, I. (2006). Modelling Individual and Competitive Adsorption of Cadmium(II) and Zinc(II) Metal Ions from Aqueous Solution onto Bagasse Fly Ash. *Separation Science and Technology*, 41(12), 2685–2710. <https://doi.org/10.1080/01496390600725687>
- Ciesielczyk, F., Bartczak, P., & Jesionowski, T. (2016). Removal of cadmium(II) and lead(II) ions from model aqueous solutions using sol-gel-derived inorganic oxide adsorbent. *Adsorption*, 22(4–6), 445–458. <https://doi.org/10.1007/s10450-015-9703-7>
- Deri Febiola Putra. (2012). Penentuan Kadar Magnesium Oksida (MgO) dan Fosfor Pentaoksida (P<sub>2</sub>O<sub>5</sub>) dalam Semen Portland. *Universitas Negeri Padang*.
- Dewi Marliyana, S. (2021). Uji Performa Spektrofotometer Serapan Atom Thermo Ice 3000 Terhadap Logam Pb Menggunakan CRM 500 dan CRM 697 di UPT Laboratorium Terpadu UNS. Dalam *Journal Of Laboratory* (Vol. 4, Nomor 2). Online.

- Dewi Marliyana, S., & Sugito. (2021). Uji Performa Spektrofotometer Serapan Atom Thermo Ice 3000 Terhadap Logam Pb Menggunakan CRM 500 dan CRM 697 di UPT Laboratorium Terpadu UNS. Dalam *Journal Of Laboratory* (Vol. 4, Nomor 2). Online.
- Dicky, M., Putra, N., Widada, S., & Atmodjo, W. (2022). Studi Kandungan Logam Berat Timbal (Pb) Pada Sedimen Dasar Perairan Banjir Kanal Timur Semarang. Dalam *Indonesia Journal of Oceanography* (Vol. 04, Nomor 03). <https://ejournal2.undip.ac.id/index.php/ijoceDiterima/>
- Dwi Hariyoto, F. (2021). *Akumulasi Logam Berat Timbal (Pb), Kadmium (Cd), Seng (Zn), dan Merkuri (Hg) di Perairan Beserta Dampaknya Bagi Produk Perikanan dan Kesehatan Manusia*. <https://www.researchgate.net/publication/372490914>
- Emrani, A. S., Danesh, N. M., Ramezani, M., Taghdisi, S. M., & Abnous, K. (2016). A novel fluorescent aptasensor based on hairpin structure of complementary strand of aptamer and nanoparticles as a signal amplification approach for ultrasensitive detection of cocaine. *Biosensors and Bioelectronics*, 79, 288–293. <https://doi.org/10.1016/j.bios.2015.12.025>
- Erdem, E., Karapinar, N., & Donat, R. (2004). The removal of heavy metal cations by natural zeolites. *Journal of Colloid and Interface Science*, 280(2), 309–314. <https://doi.org/10.1016/j.jcis.2004.08.028>
- Fadilah, C. N., & Herumurti, W. (2021). Persebaran Logam Berat pada Tanah dan Air Tanah Akibat Aktivitas Industri Rumah Tangga Peleburan Limbah Elektronik. *Jurnal Teknik ITS*, 9(2). <https://doi.org/10.12962/j23373539.v9i2.57497>
- Foroutan, R., Peighambardoust, S. J., Aghdasinia, H., Mohammadi, R., & Ramavandi, B. (2020). Modification of bio-hydroxyapatite generated from waste poultry bone with MgO for purifying methyl violet-laden liquids. *Environmental Science and Pollution Research*, 27(35), 44218–44229. <https://doi.org/10.1007/s11356-020-10330-0>
- Gebretatios, A. G., Kadiri Kanakka Pillantakath, A. R., Witoon, T., Lim, J. W., Banat, F., & Cheng, C. K. (2023). Rice husk waste into various template-engineered mesoporous silica materials for different applications: A comprehensive review on recent developments. *Chemosphere*, 310. <https://doi.org/10.1016/j.chemosphere.2022.136843>
- Girão, A. V., Caputo, G., & Ferro, M. C. (2017). Application of Scanning Electron Microscopy–Energy Dispersive X-Ray Spectroscopy (SEM-EDS). *Comprehensive Analytical Chemistry*, 75, 153–168. <https://doi.org/10.1016/bs.coac.2016.10.002>
- Gu, F., Peng, Z., Tang, H., Ye, L., Tian, W., Liang, G., Rao, M., Zhang, Y., Li, G., & Jiang, T. (2018). Preparation of refractory materials from ferronickel slag. *Minerals, Metals and Materials Series, Part F8*, 633–642. [https://doi.org/10.1007/978-3-319-72484-3\\_67](https://doi.org/10.1007/978-3-319-72484-3_67)
- Hardianti, S., & Octaviannus, S. (2021). Kinerja Aktivasi dan Impregnasi Fly Ash sebagai Adsorben Fenol. *Jurnal Teknik Kimia USU*, 10(2). <https://talenta.usu.ac.id/jtk>

- Hasanuddin, N. I., Mokhtar, W. N. A. W., Othaman, R., & Anuar, F. H. (2022). Poly(lactic acid)-poly(ethylene glycol)/Magnesium Silicate Membrane for Methylene Blue Removal: Adsorption Behavior, Mechanism, Ionic Strength and Reusability Studies. *Membranes*, 12(2). <https://doi.org/10.3390/membranes12020198>
- Hayati, D., Pardoyo, & Azmiyawati, C. (2017). Pengaruh Variasi Jenis Asam terhadap Karakter Nanosilika yang Disintesis dari Abu Sekam Padi. *Jurnal Kimia Sains & Aplikasi*, 1–4.
- Herman. (2017). Analisis Kadar Timbal (Pb) Pada Air Yang Melalui Saluran Pipa Penyalur Perusahaan Daerah Air Minum (PDAM) Makassar. *Jurnal Media Analisis Kesehatan*, 8.
- Hiremath, V., Shiferraw, B. T., & Seo, J. G. (2020). MgO insertion endowed strong basicity in mesoporous alumina framework and improved CO<sub>2</sub> sorption capacity. *Journal of CO<sub>2</sub> Utilization*, 42, 101294. <https://doi.org/10.1016/j.jcou.2020.101294>
- Hu, M., Yan, X., Hu, X., Zhang, J., Feng, R., & Zhou, M. (2018). Ultra-high adsorption capacity of MgO/SiO<sub>2</sub> composites with rough surfaces for Congo red removal from water. *Journal of Colloid and Interface Science*, 510, 111–117. <https://doi.org/10.1016/j.jcis.2017.09.063>
- Huljana, M., & Rodiah, S. (2019). *Sintesis Silika dari Abu Sekam Padi dengan Metode Sol-gel*.
- Hulungo, C., Wenas, D., & Rondonuwu, A. (2022). *Identifikasi Komposisi Mineral Batuan Teralterasi Menggunakan Spektroskopi SEM-EDX dan FTIR pada Daerah Manifestasi Panas Bumi di Desa Mototompiaan Kecamatan Modayag Kabupaten Bolaang Mongondow Timur* (Vol. 3, Nomor 1).
- Innocenzi, P. (2023). Sol-gel processing for advanced ceramics, a perspective. Dalam *Open Ceramics* (Vol. 16). Elsevier B.V. <https://doi.org/10.1016/j.oceram.2023.100477>
- Ismail, G. A., Abd El-Salam, M. M., & Arafa, A. K. (2009). Wastewater reuse in liquid sodium silicate manufacturing in alexandria, egypt. *The Journal of the Egyptian Public Health Association*, 84(1–2), 33–49.
- Isnaeni, N. (2020). *Perbandingan Teknik Spektrometri Atom (AAS Nyala, AAS Tanpa Nyala, AES, ICP-AES dan ICP-MS)*. <https://www.researchgate.net/publication/348835136>
- Jeong, H., Lee, Y., Moon, H. B., & Ra, K. (2023). Characteristics of metal pollution and multi-isotopic signatures for C, Cu, Zn, and Pb in coastal sediments from special management areas in Korea. *Marine Pollution Bulletin*, 188. <https://doi.org/10.1016/j.marpolbul.2023.114642>
- Joshi, N. V. (2013). Mechanism for Electrostatic Repulsion or Attraction. *World Journal of Mechanics*, 03(07), 307–309. <https://doi.org/10.4236/wjm.2013.37032>
- Khofifah Imran, N. (2020). *Efektivitas Penggunaan Magnesium Silikat (Mg<sub>3</sub>Si<sub>4</sub>O<sub>10</sub>(OH)<sub>2</sub>) dan Karbon Aktif Sebagai Adsorben Dalam Pencucian Biodiesel Pada CV. Garuda Energi Nusantara di Kab. Maros*.

- Komala, R., Sari Dewi, D., & Pandiyah, N. (2021). *Proses Adsorpsi Karbon Aktif Kulit Kacang Tanah Terhadap Penurunan Kadar COD dan BOD Limbah Cair Industri Tahu* (Vol. 6, Nomor 2).
- Kurniawan, R., Lutfi, M., Agung, W., Keteknikan, J., Teknologi, P.-F., Brawijaya, P.-U., Veteran, J., & Korespondensi, P. (2014). Karakterisasi Luas Permukaan Bet (Braunear, Emmelt dan Teller) Karbon Aktif dari Tempurung Kelapa dan Tandan Kosong Kelapa Sawit dengan Aktivasi Asam Fosfat (H<sub>3</sub>PO<sub>4</sub>). Dalam *Jurnal Keteknikan Pertanian Tropis dan Biosistem* (Vol. 2, Nomor 1).
- Li, Y., Liu, Y., Liu, C., Feng, L., Yang, S., Shan, Y., & Xiao, F. (2023). Quantitatively ion-exchange between Mg(II) and Pb(II)/Cd(II) during the highly efficient adsorption by MgO-loaded lotus stem biochar. *Journal of the Taiwan Institute of Chemical Engineers*, 144, 104736. <https://doi.org/10.1016/j.jtice.2023.104736>
- Li, Z., Zhang, T., Hu, J., Tang, Y., Niu, Y., Wei, J., & Yu, Q. (2014). Characterization of reaction products and reaction process of MgO-SiO<sub>2</sub>-H<sub>2</sub>O system at room temperature. *Construction and Building Materials*, 61, 252–259. <https://doi.org/10.1016/j.conbuildmat.2014.03.004>
- Liza, Y. M., Chairani Yasin, R., Maidani, S. S., & Zainul, R. (2018). *Sol Gel: Principle and Technique*.
- Lovrić, M. (2024). Simulation of the adsorption – desorption hysteresis for Frumkin isotherm. *Adsorption*. <https://doi.org/10.1007/s10450-024-00480-9>
- Malem Indirawati, S. (2017). Pencemaran Logam Berat Pb dan Cd dan Keluhan Kesehatan Pada Masyarakat di Kawasan Pesisir Belawan. *Jurnal JUMANTIK*, 2(2).
- Mandasari, W., Sitorus, B., & Kimia, J. (2023). Adsorpsi Logam Cd Menggunakan  $\alpha$ -Selulosa dari Kulit Buah Nanas. Dalam *Jurnal Teknologi Lingkungan Lahan Basah* (Vol. 11, Nomor 2).
- Muhajjalin, R. G., Agawijaya, I., Santoso, B., & Suryadi, J. (2021). Perbandingan Efektivitas Ampas Teh Hitam dan Ampas Teh Hijau sebagai Adsorben Ion Logam Cr (VI). *Fullerene Journ. Of Chem*, 6(2), 101–109. <https://doi.org/10.37033/fjc.v6i2.327>
- Mukhlisin, H., Rahmalia, W., & Usman, T. (2020). Selektivitas Adsorpsi Asam Lemak Bebas (ALB) dan Beta Karoten Minyak Sawit Mentah Menggunakan Metakaolin Teraktivasi Kalium Karbonat (K<sub>2</sub>CO<sub>3</sub>). *Journal of Chemical Process Engineering*, 5(1), 9–26. <https://doi.org/10.33536/jcpe.v5i1.431>
- Munasir, M., Hidayat, N., Kusumawati, D. H., Putri, N. P., Taufiq, A., & Sunaryono, S. (2020). Amorphous-SiO<sub>2</sub>nanoparticles for water treatment materials. *AIP Conference Proceedings*, 2251. <https://doi.org/10.1063/5.0015673>
- Nur Rohmah Purnamasari, A., Shofy Mubarak, A., Mulyono, dan, Studi Teknologi Hasil Perikanan Fakultas Perikanan dan Kelautan Universitas Airlangga, P., Timur, J., Kelautan, D., Perikanan dan Kelautan

- Universitas Airlangga, F., Pengujian Mutu Hasil Perikanan, B., Tengah, J., Koresponding, I., & Perikanan dan Kelautan, F. (2021). Analisis Kadar Logam Berat Kadmium (Cd) dengan Metode Atomic Absorption Spectrophotometry (AAS) pada Produk Rajungan Kaleng di Balai Pengujian Mutu Hasil Perikanan (BPMHP) Semarang, Jawa Tengah Analysis of Cadmium (Cd) Heavy Metal Using the Atomic Absorption Spectrophotometry (AAS) Method in Canned Crab Products at Balai Pengujian Mutu Hasil Perikanan (BPMHP) Semarang, Central Java. Dalam *Journal of Marine and Coastal Science* (Vol. 10, Nomor 2). <https://e-journal.unair.ac.id/JMCS>
- Nuryono, Narsito, & Sriyanti. (2005). Sintesis Bahan Hibrida Amino-Silika dari Abu Sekam Padi Melalui Proses Sol-Gel. *Jurnal Kimia Sains dan Aplikasi*, 8(1), 1–8. <https://doi.org/10.14710/jksa.8.1.1-8>
- Nzereogu, P. U., Omah, A. D., Ezema, F. I., Iwuoha, E. I., & Nwanya, A. C. (2023). Silica extraction from rice husk: Comprehensive review and applications. *Hybrid Advances*, 4, 100111. <https://doi.org/10.1016/j.hybadv.2023.100111>
- Oktasari Handayani, C., Sukarjo, & Dewi, T. (2022). Distribusi Logam Berat Pb, Cd, Cr, Ni dan Risiko Kesehatan Akibat Paparan Logam Berat Melalui Saluran Pencernaan di Lahan Sawah Sekitar Kawasan Industri Kabupaten Bandung. *Jurnal Tanah dan Iklim*, 46(1). <https://doi.org/10.21082/jti.v46n1.2022.47-59>
- Pavia, D. L., Lampman, G. M., Kriz, G. S., & Vyvyan, J. R. (2013). *Introduction To Spectroscopy*.
- Penias, C., Ernawati, R., & Nursanto, E. (2021). Dampak Pencemaran Logam Berat Terhadap Kualitas Air dan Strategi Untuk Mengurangi Kandungan Logam Berat. 3. <http://ejurnal.itats.ac.id/semitan/article/view/1967/1695>
- Pratiwi, D. Y. (2020). Dampak Pencemaran Logam Berat (Timbal, Tembaga, Merkuri, Kadmium, Krom) Terhadap Organisme Perairan dan Kesehatan Manusia. Dalam *Jurnal Akuatek* (Vol. 1, Nomor 1).
- Rahman, A., & Sedyadi, E. (2020a). Kajian Adsorpsi Komposit  $\text{Fe}_3\text{O}_4$  Lempung Terhadap Ion Logam Pb(II). Dalam *online, Indonesian Journal of Materials Chemistry IJMC* (Vol. 3, Nomor 2).
- Ramadani, K., Sjamsiah, Putriani, & Rabiatal, S. (2023). Pemanfaatan Zeolit Sodium Dodecyl Benzene Sulfonate (Zeolit-Sdbs) Dari Abu Sekam Padi Sebagai Adsorben Logam Timbal (Pb).
- Ramalla, I., Gupta, R. K., & Bansal, K. (2015). Effect on superhydrophobic surfaces on electrical porcelain insulator, improved technique at polluted areas for longer life and reliability. *International Journal of Engineering & Technology*, 4(4), 509. <https://doi.org/10.14419/ijet.v4i4.5405>
- Rati Nur Ainna. (2013). Analisis Kadar Logam Berat Timbal (Pb) Pada Air Sungai Kelay Kab. Berau Kalimantan Timur Dengan Metode Spektrofotometri Serapan Atom (SSA).
- Razzak, I., Dahlan, & Haeruddin. (2019). Pembuatan Komposit Magnesium Silika Jenis Forsterite ( $\text{Mg}_2\text{SiO}_4$ ) Berbasis Silika Pasir Pantai Metode

- Sol-Gel Sebagai Adsorben Asam Lemak Bebas Pada Minyak Goreng Bekas. *Jurnal Pendidikan Kimia Universitas Halu Oleo*, 4.
- Rostika, A., Rakhmawati, D., & Margana, B. (2020). Ekstraksi dan Karakterisasi Silika dari Sekam Padi Untuk Pelapis Baja Anti Korosi. *Jurnal FMIPA Universitas Padjajaran*.
- Selvam, N. C. S., Kumar, R. T., Kennedy, L. J., & Vijaya, J. J. (2011). Comparative study of microwave and conventional methods for the preparation and optical properties of novel MgO-micro and nano-structures. *Journal of Alloys and Compounds*, 509(41), 9809–9815. <https://doi.org/10.1016/j.jallcom.2011.08.032>
- Shah, V., Dhakal, M., & Scott, A. (2022). Long-term performance of MgO–SiO<sub>2</sub> binder. *Materials and Structures/Materiaux et Constructions*, 55(2). <https://doi.org/10.1617/s11527-022-01901-3>
- Shen, Z., Kuang, Y., Zhou, S., Zheng, J., & Ouyang, G. (2023). Preparation of magnetic adsorbent and its adsorption removal of pollutants: An overview. Dalam *TrAC - Trends in Analytical Chemistry* (Vol. 167). Elsevier B.V. <https://doi.org/10.1016/j.trac.2023.117241>
- Shiver, & Atkins. (2010). *Inorganic Chemistry* (Fifth Edition). Oxford University Press.
- Sprynskyy, M., Buszewski, B., Terzyk, A. P., & Namieśnik, J. (2006). Study of the selection mechanism of heavy metal (Pb<sup>2+</sup>, Cu<sup>2+</sup>, Ni<sup>2+</sup>, and Cd<sup>2+</sup>) adsorption on clinoptilolite. *Journal of Colloid and Interface Science*, 304(1), 21–28. <https://doi.org/10.1016/j.jcis.2006.07.068>
- Sri Hardyanti, I., Nurani, I., Septyaningsih Hardjono, D. H., Apriliani, E., Agus Prastyo Wibowo, E., Kimia, J., Matematika dan Ilmu Pengetahuan Alam, F., & Negeri Semarang, U. (2017). Pemanfaatan Silika (SiO<sub>2</sub>) dan Bentonit sebagai Adsorben Logam Berat Fe pada Limbah Batik. *Jurnal Sains Terapan*, 3(2).
- Sugiura, H., Fukui, T., Higashida, Y., & Kadooka, T. (1995). *Mgo-sio2 porcelain powder and its production*.
- Sulastris, S. (2009). *Modifikasi Silika Gel Dalam Kaitannya Dengan Peningkatan Manfaat*.
- Suryadi, J. (2021). *Perolehan Kembali Senyawa Silika Dari Limbah Padat Geotermal Menggunakan Metode Sol Gel*.
- Taherpoor, P., Farzad, F., & Zaboli, A. (2024). Investigation of the effects of solvent on oxygen evolution reactions on the surface of magnesium oxide. *Results in Materials*, 21, 100527. <https://doi.org/10.1016/j.rinma.2024.100527>
- Takagi, T., Inomata, H., & Ametani, K. (1993). Production Of MgO-SiO<sub>2</sub> Type Oxide. *Journal Nara Institute of Science and Technology (NAIST)*.
- Tessema, B., Gonfa, G., Hailegiorgis, S. M., & Prabhu, S. V. (2024). Synthesis and Characterization of Modified Silica Gel from Teff Straw Ash Using Sol-gel Method. *Next Materials*, 3, 100146. <https://doi.org/10.1016/j.nxmte.2024.100146>

- Trisnayanti, N. P. (2020). *Penggunaan Katalis MgO Termodifikasi dalam Produksi Biodiesel*.  
<https://www.researchgate.net/publication/341755991>
- Trivana, L., Sugiarti, S., & Rohaeti, E. (2015). *Sintesis Dan Karakterisasi Natrium Silikat (Na<sub>2</sub>SiO<sub>3</sub>) Dari Sekam Padi*. 7(2), 66–75.
- Twumasi Afriyie, E., Norberg, P., Sjöström, C., & Forslund, M. (2013). Textural and hydrogen sulphide adsorption behaviour of double metal–silica modified with potassium permanganate. *Journal of Porous Materials*, 20(3), 447–455. <https://doi.org/10.1007/s10934-012-9614-x>
- Uğurlu, E., Birol, B., Gencten, M., & Bayrak, Y. (2023). Removal of Cu(II) Ions from Aqueous Solutions by Ferrochrome Ash: Investigation of Mechanism and Kinetics. *Water (Switzerland)*, 15(6). <https://doi.org/10.3390/w15061063>
- Urashima, S., Uchida, T., & Yui, H. (2020). A hydrogen-bonding structure in self-formed nanodroplets of water adsorbed on amorphous silica revealed via surface-selective vibrational spectroscopy. *Physical Chemistry Chemical Physics*, 22(46), 27031–27036. <https://doi.org/10.1039/D0CP03207G>
- Utary, C. M., Nurlaila, R., Ishak, I., Sylvia, N., & Meriatna, M. (2023). Pengaruh Waktu dan Suhu Pembakaran Abu Sekam Padi Pada Proses Ekstraksi Silika dengan Pelarut NaOH. *Chemical Engineering Journal Storage (CEJS)*, 3(4), 469. <https://doi.org/10.29103/cejs.v3i4.9795>
- Wang, M., Jiao, Y., Li, N., & Su, Y. (2023). Synthesis of a SiO<sub>2</sub>-MgO composite material derived from yellow phosphorus slag with excellent malachite green adsorption activity. Dalam *Journal of Alloys and Compounds* (Vol. 969). Elsevier Ltd. <https://doi.org/10.1016/j.jallcom.2023.172344>
- Xu, C., Shi, S., Wang, X., Zhou, H., Wang, L., Zhu, L., Zhang, G., & Xu, D. (2020). Electrospun SiO<sub>2</sub>-MgO hybrid fibers for heavy metal removal: Characterization and adsorption study of Pb(II) and Cu(II). *Journal of Hazardous Materials*, 381. <https://doi.org/10.1016/j.jhazmat.2019.120974>
- Yoro, M., Tukur, S. A., Mbahi, M. A., Suleiman, T. A., Favour, R. A., & Joshua, H. (2024). *Solvent-free Mechanochemical Synthesis, Characterization and Antibacterial Potency of MgO@SiO<sub>2</sub> Nanocomposite* IOASD Journal of Medical and Pharmaceutical Sciences Abbreviated Key Title: IOASD J Med Pharm Sci Frequency: Quarterly ISSN (Online): [www.ioasdpublisher.com](http://www.ioasdpublisher.com) Solvent-free Mechanochemical Synthesis, Characterization and Antibacterial Potency of MgO@SiO<sub>2</sub> Nanocomposite. <https://www.researchgate.net/publication/378861053>
- Yus Nasution, A., Indriani, R. I., Farmasi, F., Kesehatan, I., & Abdurrah, U. (2021). Determination of Lead (Pb) in Patin Fish Oil (Pangasius hypophthalmus) Using Atomic Absorption Spectrophotometry (AAS) Penetapan Kadar Timbal pada Minyak Ikan Patin (Pangasius hypophthalmus) dengan Metode Spektrofotometri Serapan Atom. *Jurnal Proteksi Kesehatan*, 10(1), 1–5.

- Yusmaniar, Paristiowati, M., & Jofita, N. (2014). *Sintesis dan Uji Adsorpsi Silika Termodifikasi 3-Aminopropiltriethoxysilan (APTS) Pada Logam Cu (II) Dalam Larutan*. 4(2).
- Zhang, N., Yu, H., Ma, H., Ma, H., & Ba, M. (2022). The phase composition of the MgO–MgSO<sub>4</sub>–H<sub>2</sub>O system and mechanisms of chemical additives. *Composites Part B: Engineering*, 247, 110328. <https://doi.org/10.1016/j.compositesb.2022.110328>
- Zhu, Z., Shi, X., Rao, Y., & Huang, Y. (2023). Recent progress of MgO-based materials in CO<sub>2</sub> adsorption and conversion: Modification methods, reaction condition, and CO<sub>2</sub> hydrogenation. *Chinese Chemical Letters*, 108954. <https://doi.org/10.1016/j.cclet.2023.108954>
- Zulichatun, S., Wijayanti, A., Hidayah, N., Marfina, A., Pranata, A., & Nurbaeti, L. (2015). *Analisis Luas Permukaan Zeolit Alam Termodifikasi Dengan Metode BET Menggunakan Surface Area Analyzer (SAA)*.