

DAFTAR PUSTAKA

- Ahmed, S., Rasul, M. G., Brown, R., & Hashib, M. A. (2011). Influence of parameters on the heterogeneous photocatalytic degradation of pesticides and phenolic contaminants in wastewater: A short review. *Journal of Environmental Management*, 92(3), 311–330.
<https://doi.org/10.1016/j.jenvman.2010.08.028>
- Akash, M. S. H., & Rehman, K. (2020). *Ultraviolet-Visible (UV-VIS) Spectroscopy BT - Essentials of Pharmaceutical Analysis* (M. S. H. Akash & K. Rehman (Eds.); pp. 29–56). Springer Nature Singapore.
https://doi.org/10.1007/978-981-15-1547-7_3
- Anavadya, K. K., Meghavathi, P., & Vijayalakshmi, U. (2024). HAp/TiO₂ Composite Coatings and its Effective Use in Biomedical Applications. *Trends in Biomaterials and Artificial Organs*, 38(1), 5–13.
- Anmin, H., Tong, L., Ming, L., Chengkang, C., Huiqin, L., & Dali, M. (2006). Preparation of nanocrystals hydroxyapatite/TiO₂ compound by hydrothermal treatment. *Applied Catalysis B: Environmental*, 63(1–2), 41–44.
<https://doi.org/10.1016/j.apcatb.2005.08.003>
- Aslanov, T., Uzunoğlu, D., & Özer, A. (2017). Synthesis of Hydroxyapatite-alginate Composite: Methylene Blue Adsorption. *Sinop Üniversitesi Fen Bilimleri Dergisi Sinop Uni J Nat Sci*, 2(1), 37–47.
- Aziz, M. (2010). Batu Kapur dan Peningkatan Nilai Tambah. *Jurnal Teknologi Mineral Dan Batubara*, 06(1), 116–131.
- Bouyarmene, H., El Bekkali, C., Labrag, J., Es-saidi, I., Bouhnik, O., Abdelmoumen, H., Laghzizil, A., Nunzi, J. M., & Robert, D. (2021). Photocatalytic degradation of emerging antibiotic pollutants in waters by TiO₂/Hydroxyapatite nanocomposite materials. *Surfaces and Interfaces*, 24(April), 101155. <https://doi.org/10.1016/j.surfin.2021.101155>
- Cahyaningrum, S. E., Herdyastuty, N., Devina, B., & Supangat, D. (2018).

Synthesis and Characterization of Hydroxyapatite Powder by Wet Precipitation Method. *IOP Conference Series: Materials Science and Engineering*, 299(1). <https://doi.org/10.1088/1757-899X/299/1/012039>

Çalışkan, Y., Yatmaz, H. C., & Bektaş, N. (2017). Photocatalytic oxidation of high concentrated dye solutions enhanced by hydrodynamic cavitation in a pilot reactor. *Process Safety and Environmental Protection*, 111, 428–438. <https://doi.org/10.1016/j.psep.2017.08.003>

Chen, D., Cheng, Y., Zhou, N., Chen, P., Wang, Y., Li, K., Huo, S., Cheng, P., Peng, P., Zhang, R., Wang, L., Liu, H., Liu, Y., & Ruan, R. (2020). Photocatalytic degradation of organic pollutants using TiO₂-based photocatalysts: A review. *Journal of Cleaner Production*, 268, 121725. <https://doi.org/10.1016/j.jclepro.2020.121725>

Chenab, K. K., Sohrabi, B., Jafari, A., & Ramakrishna, S. (2020). Water treatment: functional nanomaterials and applications from adsorption to photodegradation. *Materials Today Chemistry*, 16, 100262. <https://doi.org/10.1016/j.mtchem.2020.100262>

Deng, L., Wang, S., Liu, D., Zhu, B., Huang, W., Wu, S., & Zhang, S. (2009). Synthesis, characterization of Fe-doped TiO₂ nanotubes with high photocatalytic activity. *Catalysis Letters*, 129(3–4), 513–518. <https://doi.org/10.1007/s10562-008-9834-5>

Dewi, A. M., Widayatno, W. B., & Kusumawati, Y. (2019). Perbandingan Efektivitas Dekolorisasi Fotokatalitik Metilen Biru dan Metil Jingga menggunakan Semikonduktor ZnO pada Variasi pH. *Jurnal Riset Kimia*, 10(2), 75–84. <https://doi.org/10.25077/jrk.v10i2.328>

Eddy, D. R., Lestari, P. R., Permana, M. D., Juliandri, & Rahayu, I. (2023). Simple Synthesis Pathway of Uniform Nanoparticle TiO₂ from Hydrolysis of TiCl₄ and Kinetic Study of Photocatalytic Decomposition of Azo Compounds. *Research Journal of Chemistry and Environment*, 27(1), 48–54. <https://doi.org/10.25303/2701rjce048054>

El ouinani, A., Boumanchar, I., Zbair, M., Chhiti, Y., Sahibed-Dine, A., Bentiss,

- F., & Bensitel, M. (2017). The photocatalytic degradation of Methylene Bleu over TiO₂ catalysts supported on hydroxyapatite. *Journal of Materials and Environmental Science*, 8(4), 1301–1311.
- Eslami, H., Khavidak, S. S., Salehi, F., Khosravi, R., Fallahzadeh, R. ali, Peirovi, R., & Sadeghi, S. (2017). Biodegradation of Methylene Blue By Bacteria Strains Isolated From Contaminated Soil. *Environment Health*, 51(3), 25–35. <https://doi.org/10.55230/mabjournal.v51i3.2190>
- Fihri, A., Len, C., Varma, R. S., & Solhy, A. (2017). Hydroxyapatite: A review of syntheses, structure and applications in heterogeneous catalysis. In *Coordination Chemistry Reviews* (Vol. 347). <https://doi.org/10.1016/j.ccr.2017.06.009>
- Fitriyana, D. F., Ismail, R., Santosa, Y. I., Nugroho, S., Hakim, A. J., & Syahreza Al Mulqi, M. (2019). Hydroxyapatite Synthesis from Clam Shell Using Hydrothermal Method : A Review. *2019 International Biomedical Instrumentation and Technology Conference, IBITeC 2019*, 7–11. <https://doi.org/10.1109/IBITeC46597.2019.9091722>
- Gibson, I. R. (2020). Natural and Synthetic Hydroxyapatites. In *Biomaterials Science: An Introduction to Materials in Medicine* (Fourth Edi). Elsevier. <https://doi.org/10.1016/B978-0-12-816137-1.00023-4>
- González-Santamaría, D. E., Justel, A., Fernández, R., Ruiz, A. I., Stavropoulou, A., Rodríguez-Blanco, J. D., & Cuevas, J. (2021). SEM-EDX study of bentonite alteration under the influence of cement alkaline solutions. *Applied Clay Science*, 212, 106223. <https://doi.org/https://doi.org/10.1016/j.clay.2021.106223>
- Groeneveld, I. (2023). *Photodegradation Illuminated: New Analytical Tools for Studying Photochemical Processes* [Ridderprint, The Netherlands]. <https://doi.org/978-94-6483-079-8>
- Guo, Q., Zhou, C., Ma, Z., & Yang, X. (2019). Fundamentals of TiO₂ Photocatalysis: Concepts, Mechanisms, and Challenges. *Advanced Materials*, 31(50), 1–26. <https://doi.org/10.1002/adma.201901997>

- Gupta, N., Kushwaha, A. K., & Chattopadhyaya, M. C. (2012). Adsorptive removal of Pb²⁺, Co²⁺ and Ni²⁺ by hydroxyapatite/chitosan composite from aqueous solution. *Journal of the Taiwan Institute of Chemical Engineers*, 43(1), 125–131. <https://doi.org/10.1016/j.jtice.2011.07.009>
- Haider, A. J., Al-Anbari, R. H., Kadhim, G. R., & Salame, C. T. (2017). Exploring potential Environmental applications of TiO₂ Nanoparticles. *Energy Procedia*, 119, 332–345. <https://doi.org/10.1016/j.egypro.2017.07.117>
- Kangkan, S., Arpornmaeklong, P., & Ummartyotin, S. (2020). Synthesis of hydroxyapatite from cuttlebone under various pH conditions: An approach for medical materials. *Journal of Metals, Materials and Minerals*, 30(2), 136–141. <https://doi.org/10.14456/jmmm.2020.30>
- Kato, K., Kobayashi, F., Xin, Y., Nakagawa, S., Nishikawa, H., & Shirai, T. (2022). HAp / TiO₂ heterojunction catalyst towards low- temperature thermal oxidation of VOC. *Material Research Express*, 9, 10.1088/2053-1591/ac5350
- Kaviyarasu, K., Mariappan, A., Neyvasagam, K., Ayeshamariam, A., Pandi, P., Palanichamy, R. R., Gopinathan, C., Mola, G. T., & Maaza, M. (2017). Photocatalytic performance and antimicrobial activities of HAp-TiO₂ nanocomposite thin films by sol-gel method. *Surfaces and Interfaces*, 6, 247–255. <https://doi.org/10.1016/j.surfin.2016.10.002>
- Khan, I., Saeed, K., Ali, N., Khan, I., Zhang, B., & Sadiq, M. (2020). Heterogeneous photodegradation of industrial dyes: An insight to different mechanisms and rate affecting parameters. *Journal of Environmental Chemical Engineering*, 8(5). <https://doi.org/10.1016/j.jece.2020.104364>
- Khan, I., Saeed, K., Zekker, I., Zhang, B., Hendi, A. H., Ahmad, A., Ahmad, S., Zada, N., Ahmad, H., Shah, L. A., Shah, T., & Khan, I. (2022). Review on Methylene Blue: Its Properties, Uses, Toxicity and Photodegradation. *Water (Switzerland)*, 14(2). <https://doi.org/10.3390/w14020242>

- Kusumawardani, L. J., Widdyanti, T., Iryani, A., Hasanah, U., & Nurlela, N. (2024). Optimization and Mechanism Elucidation of Catalytic Photodegradation Methylene Blue by TiO₂/Zeolite Coal Fly Ash Nanocomposite Under H₂O₂ Presence. *Jurnal Sains Natural*, 14(2), 98–108. <https://doi.org/10.31938/jsn.v14i2.722>
- Lau, Y. Y., Wong, Y. S., Teng, T. T., Morad, N., Rafatullah, M., & Ong, S. A. (2015). Degradation of cationic and anionic dyes in coagulation-flocculation process using bi-functionalized silica hybrid with aluminum-ferric as auxiliary agent. *RSC Advances*, 5(43), 34206–34215. <https://doi.org/10.1039/c5ra01346a>
- Legeros, R. Z., & Legeros, J. P. (2008). Hydroxyapatite. *Bioceramics and Their Clinical Applications*, 367–394. <https://doi.org/10.1533/9781845694227.2.367>
- Lima, É. C., Adebayo, M. A., & Machado, F. M. (2015). Kinetic and equilibrium models of adsorption. In *Carbon Nanostructures* (Vol. 0, Issue 9783319188744). https://doi.org/10.1007/978-3-319-18875-1_3
- Madi. (2022). Edisi Juli 2022: Scanning Electron Microscope (SEM) & Energy Dispersive X-ray (EDX). *Laboratorium Penelitian Dan Pengujian Terpadu Universitas Gadjah Mada*. <https://lppt.ugm.ac.id/id/2022/07/01/edisi-juli-2022scanning-electron-microscope-sem-energy-dispersive-x-ray-edx/>
- Maria, G. M., Truşcă, R. D., Banciu, C., Vladimirescu, M., Paica, I. C., Catană, R. D., & Manole, A. (2023). Sem-Edx Identification and Characterization of Airborne Microspheres: Potential Effects on Human Health. *Carpathian Journal of Earth and Environmental Sciences*, 18(2), 299–306. <https://doi.org/10.26471/cjees/2023/018/260>
- Meski, S., Tazibt, N., Khireddine, H., Ziani, S., Biba, W., Yala, S., Sidane, D., Boudjouan, F., & Moussaoui, N. (2019). Synthesis of hydroxyapatite from mussel shells for effective adsorption of aqueous Cd(II). *Water Science and Technology*, 80(7), 1226–1237. <https://doi.org/10.2166/wst.2019.366>
- Mohd Pu'ad, N. A. S., Abdul Haq, R. H., Mohd Noh, H., Abdullah, H. Z., Idris,

- M. I., & Lee, T. C. (2019). Synthesis method of hydroxyapatite: A review. *Materials Today: Proceedings*, 29(November 2018), 233–239. <https://doi.org/10.1016/j.matpr.2020.05.536>
- Mohd Pu'ad, N. A. S., Koshy, P., Abdullah, H. Z., Idris, M. I., & Lee, T. C. (2019). Syntheses of hydroxyapatite from natural sources. *Heliyon*, 5(5), e01588. <https://doi.org/10.1016/j.heliyon.2019.e01588>
- Mustapha, S., Tijani, J. O., Ndamitso, M. M., Abdulkareem, A. S., Shuaib, D. T., Amigun, A. T., & Abubakar, H. L. (2021). Facile synthesis and characterization of TiO₂ nanoparticles: X-ray peak profile analysis using Williamson–Hall and Debye–Scherrer methods. *International Nano Letters*, 11(3), 241–261. <https://doi.org/10.1007/s40089-021-00338-w>
- Noviyanti, A. R., Rahayu, I., Fauzia, R. P., & Risdiana. (2021). The effect of Mg concentration to mechanical strength of hydroxyapatite derived from eggshell. *Arabian Journal of Chemistry*, 14(4), 103032. <https://doi.org/10.1016/j.arabjc.2021.103032>
- Oates, J. A. . (1998). *Lime and Limestone, Chemistry and Technology, Production and Uses*. Federal Republic of Germany. https://books.google.co.id/books?hl=en&lr=&id=MVoEMNI5Vb0C&oi=fnd&pg=PP2&dq=limestone&ots=T9cK0SXVIF&sig=b9PQzIGwsnukMxB2E2Ra7Y8ta2A&redir_esc=y#v=onepage&q=limestone&f=false
- Peng, X., Li, Y., Liu, S., Jiang, T., Chen, W., Li, D., Yuan, J., & Xu, F. (2021). A Study of Adsorption Behaviour of Cu(II) on Hydroxyapatite-Coated-Limestone/Chitosan Composite. *Journal of Polymers and the Environment*, 29(6), 1727–1741. <https://doi.org/10.1007/s10924-020-02009-x>
- Piccirillo, C., & Castro, P. M. L. (2017). Calcium hydroxyapatite-based photocatalysts for environment remediation : Characteristics , performances and future perspectives. *Journal of Environmental Management*, 193, 79–91. <https://doi.org/10.1016/j.jenvman.2017.01.071>
- Purnama, E. F., & Langenati, S. N. R. (2006). DIBUAT DENGAN MEDIA AIR DAN CAIRAN TUBUH BUATAN (SYNTHETIC BODY FLUID)

Preparasi Pelarut SBF 1 Liter Identifikasi Hidroksiapatit dengan XRD
Identifikasi Hidroksiapatit dengan FTIR. *Jurnal Sains Materi Indonesia
Indonesian Journal of Materials Science*, 154–159.

- Rahman, M., Ahmed, S., Yeasmin, Z., & Masum, S. (2018). Efficacy of biomaterial based photocatalytic composite in treating dye pollutants. *Bangladesh Journal of Scientific and Industrial Research*, 53(2), 139–144. <https://doi.org/10.3329/bjsir.v53i2.36675>
- Rha Hayu, L. D., Nasra, E., Azhar, M., & Etika, S. B. (2022). Adsorpsi Zat Warna Methylene Blue Menggunakan Karbon Aktif dari Kulit Durian (*Durio zibethinus* Murr.). *Jurnal Periodic Jurusan Kimia UNP*, 11(1), 8. <https://doi.org/10.24036/p.v11i1.113349>
- Sadat-Shojai, M., Khorasani, M. T., Dinpanah-Khoshdargi, E., & Jamshidi, A. (2013). Synthesis methods for nanosized hydroxyapatite with diverse structures. *Acta Biomaterialia*, 9(8), 7591–7621. <https://doi.org/10.1016/j.actbio.2013.04.012>
- Salama, A., Kamel, B. M., Osman, T. ., & Rashad, R. . (2022). *Investigation of Mechanical Properties of UHMWPE Composites Reinforced with HAP+TiO2 Fabricated by Solvent Dispersing Technique* (pp. 4330–4343). <https://doi.org/https://doi.org/10.1016/j.jmrt.2022.11.038>
- Salarian, M., Xu, W. Z., Wang, Z., Sham, T. K., & Charpentier, P. A. (2014). Hydroxyapatite-TiO₂-based Nanocomposites Synthesized in Supercritical CO₂ for Bone Tissue Engineering: Physical and Mechanical Properties. *ACS Applied Materials and Interfaces*, 6(19), 16918–16931. <https://doi.org/10.1021/am5044888>
- Samuel, J. J., & Yam, F. K. (2020). Photocatalytic degradation of methylene blue under visible light by dye sensitized titania. *Materials Research Express*, 7(1). <https://doi.org/10.1088/2053-1591/ab6409>
- Sawada, M., Sridhar, K., Kanda, Y., & Yamanaka, S. (2021). Pure hydroxyapatite synthesis originating from amorphous calcium carbonate. *Scientific Reports*, 11(1), 1–9. <https://doi.org/10.1038/s41598-021-91064-y>

- Selfira, W., & Aini, S. (2021). Penguraian Zat Warna Metilen Biru Menggunakan Katalis $\text{Fe}_3\text{O}_4\text{-Fe}_2\text{O}_3$ Dalam Silika Mesopori. *Jurnal Periodic Jurusan Kimia UNP*, 10(1), 45. <https://doi.org/10.24036/p.v10i1.109591>
- Shafiq, F., Liu, C., Zhou, H., Chen, H., Yu, S., & Qiao, W. (2023). Adsorption mechanism and synthesis of adjustable hollow hydroxyapatite spheres for efficient wastewater cationic dyes adsorption. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 672, 131713. <https://doi.org/https://doi.org/10.1016/j.colsurfa.2023.131713>
- Sharifat, S., Zolgharnein, H., Hamidifalahi, A., Enayati-Jazi, M., & hamid, E. (2014). Preparation and Characterization of HAp/TiO₂ nanocomposite for photocatalytic degradation of methyl orange under UV-irradiation. *Advanced Materials Research*, 829, 594–599. <https://doi.org/10.4028/www.scientific.net/AMR.829.594>
- Sharma, A., Karn, R. ., & Pandiyan, S. . (2014). Synthesis of TiO₂ Nanoparticles by Sol-gel Method and Their Characterization. *Journal of Basic and Applied Engineering Research*, 1(1), 1–5. <https://doi.org/10.30538/psrp-ojc2019.0009>
- Siddique, I. (2024). Exploring Functional Groups and Molecular Structures: A Comprehensive Analysis using FTIR Spectroscopy. *SSRN Electronic Journal*, 9(2), 70–76. <https://doi.org/10.2139/ssrn.4886526>
- Singh, M. K., & Singh, A. (2022). Chapter 13 - Fourier transform infrared (FTIR) analysis. In M. K. Singh & A. B. T.-C. of P. and F. Singh (Eds.), *The Textile Institute Book Series* (pp. 295–320). Woodhead Publishing. <https://doi.org/https://doi.org/10.1016/B978-0-12-823986-5.00014-2>
- Singh, N., Chakraborty, R., & Gupta, R. K. (2018). Mutton bone derived hydroxyapatite supported TiO₂ nanoparticles for sustainable photocatalytic applications. *Journal of Environmental Chemical Engineering*, 6(1), 459–467. <https://doi.org/10.1016/j.jece.2017.12.027>
- Sinulingga, K., Sirait, M., Siregar, N., & Abdullah, H. (2021). Synthesis and characterizations of natural limestone-derived nano-hydroxyapatite (HAp): A comparison study of different metals doped HAps on antibacterial activity.

- RSC Advances*, 11(26), 15896–15904. <https://doi.org/10.1039/d1ra00308a>
- Sirait, M., Sinulingga, K., Siregar, N., & Siregar, R. S. D. (2020). Synthesis of hydroxyapatite from limestone by using precipitation method. *Journal of Physics: Conference Series*, 1462(1), 0–8. <https://doi.org/10.1088/1742-6596/1462/1/012058>
- Slama, H. Ben, Bouket, A. C., Pourhassan, Z., Alenezi, F. N., Silini, A., Cherif-Silini, H., Oszako, T., Luptakova, L., Golińska, P., & Belbahri, L. (2021). Diversity of synthetic dyes from textile industries, discharge impacts and treatment methods. *Applied Sciences (Switzerland)*, 11(14), 1–21. <https://doi.org/10.3390/app11146255>
- Sukarta, I. N., Ayuni, N. S. P., Sastrawidana, I. D. K., Sudiana, I. K., & Eka, P. S. (2019). Degradasi Zat Warna Rhemazol Blue Secara Fotokatalitik Menggunakan Komposit Tio₂-Batu Apung Sebagai Fotokatalis. *Wahana Matematika Dan Sains*, 13(2), 1–13.
- Sukarta, I. N., & Sastrawidana, I. D. K. (2024). Synthesis and Characterization of Hydroxyapatite/Titania Composite and Its Application on Photocatalytic Degradation of Remazol Red B Textile Dye Under UV Irradiation. *Ecological Engineering and Environmental Technology*, 25(2), 178–189. <https://doi.org/10.12912/27197050/176230>
- Sultan, K. (2022a). Infrared Spectroscopy. In *Practical Guide to Materials Characterization* (pp. 183–197). <https://doi.org/https://doi.org/10.1002/9783527838820.ch8>
- Sultan, K. (2022b). X-ray Diffraction. In *Practical Guide to Materials Characterization* (pp. 15–42). <https://doi.org/https://doi.org/10.1002/9783527838820.ch2>
- Suparto, I. H., Putra, D., Laia, O., Science, N., & Biopharmaca, T. (2023). *JURNAL*. 13(1), 85–96.
- Tan, K. L., & Hameed, B. H. (2017). Insight into the adsorption kinetics models for the removal of contaminants from aqueous solutions. *Journal of the*

Taiwan Institute of Chemical Engineers, 74, 25–48.

<https://doi.org/10.1016/j.jtice.2017.01.024>

Tan, Y. N., Wong, C. L., & Mohamed, A. R. (2011). An Overview on the Photocatalytic Activity of Nano-Doped- TiO₂ in the Degradation of Organic Pollutants . *ISRN Materials Science*, 2011, 1–18.

<https://doi.org/10.5402/2011/261219>

Tayeb, A. M., & Hussein, D. S. (2015). Synthesis of TiO₂ Nanoparticles and Their Photocatalytic Activity for Methylene Blue. *American Journal of Nanomaterials*, 3(2), 57–63. <https://doi.org/10.12691/ajn-3-2-2>

Theivasanthi, T., & Alagar, M. (2013). *Titanium dioxide (TiO₂) Nanoparticles XRD Analyses: An Insight*. <http://arxiv.org/abs/1307.1091>

Vallejo, W., Cantillo, A., & Díaz-Urbe, C. (2020). Methylene Blue Photodegradation under Visible Irradiation on Ag-Doped ZnO Thin Films. *International Journal of Photoenergy*, 2020.

<https://doi.org/10.1155/2020/1627498>

Vanitha, C., Abirami, R., Chandraleka, S., Kuppusamy, M. R., & Sridhar, T. M. (2023). Green synthesis of photocatalyst hydroxyapatite doped TiO₂/GO ternary nanocomposites for removal of methylene blue dye. *Materials Today: Proceedings*.

<https://doi.org/https://doi.org/10.1016/j.matpr.2023.02.354>

Wang, J., & Guo, X. (2020). Adsorption kinetic models: Physical meanings, applications, and solving methods. *Journal of Hazardous Materials*, 390(November 2019), 122156.

<https://doi.org/10.1016/j.jhazmat.2020.122156>

Wang, X., Jiang, J., & Gao, W. (2022). Reviewing textile wastewater produced by industries: characteristics, environmental impacts, and treatment strategies. *Water Science and Technology*, 85(7), 2076–2096.

<https://doi.org/10.2166/wst.2022.088>

Wang, Z., Gao, M., Li, X., Ning, J., Zhou, Z., & Li, G. (2020). Efficient

adsorption of methylene blue from aqueous solution by graphene oxide modified persimmon tannins. *Materials Science and Engineering C*, 108, 110196. <https://doi.org/10.1016/j.msec.2019.110196>

Wardhani, S., Farid Rahman, M. F., Purwonugroho, D., Triandi Tjahjanto, R., Adi Damayanti, C., & Oktavia Wulandari, I. (2016). Photocatalytic Degradation of Methylene Blue Using TiO₂-Natural Zeolite as A Photocatalyst. *The Journal of Pure and Applied Chemistry Research*, 5(1), 19–27. <https://doi.org/10.21776/ub.jpacr.2016.005.01.232>

Wei, W., Yang, L., Zhong, W. H., Li, S. Y., Cui, J., & Wei, Z. G. (2015). Fast removal of methylene blue from aqueous solution by adsorption onto poorly crystalline hydroxyapatite nanoparticles. *Digest Journal of Nanomaterials and Biostructures*, 10(4), 1343–1363.

Yudono, B. (2017). *Spektrometri* (A. A. Bama (Ed.); 1st ed.). Simetri. [https://repository.unsri.ac.id/66193/1/Buku Spektrometri-Lengkap-Bambang Yudono.pdf](https://repository.unsri.ac.id/66193/1/Buku_Spektrometri-Lengkap-Bambang_Yudono.pdf)

Zannoni, C. (Ed.). (2022). X-ray Diffraction. In *Liquid Crystals and their Computer Simulations* (pp. 596–601). Cambridge University Press. <https://doi.org/DOI: 10.1017/9781108539630.023>

