

## DAFTAR PUSTAKA

1. Mishra A, Mehta A, Basu S. Clay supported TiO<sub>2</sub> nanoparticles for photocatalytic degradation of environmental pollutants: A review. *J Environ Chem Eng*. Published online 2018.
2. Chen Q, Liu H, Xin Y, Cheng X. TiO<sub>2</sub> nanobelts - Effect of calcination temperature on optical, photoelectrochemical and photocatalytic properties. *Electrochim Acta*. Published online 2013.
3. Helza P, Muhktar A. Karakterisasi Lempung Alam Desa Gema Teraktivasi Fisika. 2015;8(1):1-6.
4. Suarya P. Adsorpsi Pengotor Minyak Daun Cengkeh Oleh Lempung Teraktivasi Asam. *J Kim*. Published online 2008.
5. Meetani MA, Rauf MA, Hisaindee S, Khaleel A, Alzamly A, Ahmad A. Mechanistic studies of photoinduced degradation of Orange G using LC/MS. *RSC Adv*. 2011;1(3):490-497.
6. Saikia BJ, Parthasarathy G. Fourier Transform Infrared Spectroscopic Characterization of Kaolinite from Assam and Meghalaya, Northeastern India. *J Mod Phys*. Published online 2010.
7. Sumarlan I. Optimasi Fotodegradasi Metil Oranye Menggunakan Fotokatalis TiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> monmorilonit. 2015;X(1):22-28.
8. Darmawan PR, Wardhani S, Purwonugroho D. Pengaruh Penambahan NO<sub>3</sub>- Terhadap Degradasi Methyl Orange Menggunakan Fotokatalis TiO<sub>2</sub>-Bentonit. 2013;1(1):140-146.
9. Szczepanik B. Photocatalytic degradation of organic contaminants over clay-TiO<sub>2</sub> nanocomposites: A review. *Appl Clay Sci*. 2017;141:227-239.
10. Santos LR do., Mascarenhas AJS, Silva LA. Preparation and evaluation of composite with a natural red clay and TiO<sub>2</sub> for dye discoloration assisted by visible light. *Appl Clay Sci*. Published online 2017.
11. Weems JB. Chemistry of Clays. *Iowa Geol Surv Annu Rep*. 1904;14:319-346.
12. Nayak PS, Singh BK. Instrumental characterization of clay by FTIR, XRF, BET and, TPD-NH<sub>3</sub>. *Bull Mater Sci*. 2007;30(3):235-238.
13. Murray H. Structure and composition of the clay minerals and their physical and

- chemical. *Clay Miner.* Published online 1997:7-31.
14. Barton CD, Karathanasis AD. Clay minerals in Rattan Lal. *Encycl Soil Sci.* Published online 2002:187-192.
  15. Bhattacharyya KG, Gupta S Sen. Adsorption of a few heavy metals on natural and modified kaolinite and montmorillonite: A review. *Adv Colloid Interface Sci.* Published online 2008.
  16. Masunga N, Mmesesi OK, Kefeni KK, Mamba BB. Recent advances in copper ferrite nanoparticles and nanocomposites synthesis, magnetic properties and application in water treatment: Review. *J Environ Chem Eng.* 2019;7(3):103179.
  17. Varma RS. Clay and clay-supported reagents in organic synthesis. *Tetrahedron.* 2002;58(7):1235-1255.
  18. Kaur N, Kishore D. Montmorillonite: An efficient, heterogeneous and green catalyst for organic synthesis. *J Chem Pharm Res.* 2012;4(2):991-1015.
  19. Licciulli A, Lisi D. Self-cleaning glass. Published online 2002:1-29.
  20. Sun H, Peng T, Liu B, Xian H. Effects of montmorillonite on phase transition and size of TiO<sub>2</sub> nanoparticles in TiO<sub>2</sub>/montmorillonite nanocomposites. *Appl Clay Sci.* 2015;114:440-446.
  21. Wardhani S, Bahari A, Khunur MM. Aktivitas Fotokatalitik Beads Tio<sub>2</sub>-N/Zeolit-Kitosan Pada Fotodegradasi Metilen Biru (Kajian Pengembangan, Sumber Sinar Dan Lama Penyinaran). 2016;03(02):78-84.
  22. Rahmayeni, Arief S, Jamarun N, Emriadi, Stiadi Y. Magnetically separable ZnO-MnFe<sub>2</sub>O<sub>4</sub> nanocomposites synthesized in organic-free media for dye degradation under natural sunlight. *Orient J Chem.* 2017;33(6):2758-2765.
  23. Rohmawati L, Wardhani S, Purwonugroho D. Studi pendahuluan mengenai degradasi zat warna azo (metil orange) dalam pelarut air menggunakan mesin berkas electron 350 keV/10 mA. *Kim Student J.* 2013;1(1):57-63.
  24. Rao BG, Mukherjee D, Reddy BM. Novel approaches for preparation of nanoparticles. In: *Nanostructures for Novel Therapy: Synthesis, Characterization and Applications.* ; 2017.
  25. Liza YM, Yasin RC, Maidani SS, Zainul R. Gelation Sol- Gel Proses s Densification Ageing Drying. *Pendidik FMIPA Univ Negeri Padang.* Published online 2018.

26. Christina M, Mu'nisatun, Saptaaji R, Marjanto D. Studi Pendahuluan Mengenai Degradasi Zat Warna Azo ( Metil Orange ) Dalam Pelarut Air Menggunakan Mesin Berkas Elektron 350 keV/10mA. *J Forum Nukl BATAN*. 2007;1(1):31-44.
27. Ningsih SKW. Sintesis Dan Karakterisasi Nanopartikel Zno Doped Cu<sup>2+</sup> Melalui Metoda Sol-Gel. *Eksakta Berk Ilm Bid MIPA*. Published online 2017.
28. Indarti Ayu D. Sintesis Nano TiO<sub>2</sub> Menggunakan Metode Sol- Gel dengan Penambahan PEG Sebagai Antimikroba. Published online 2015.
29. Temuujin J, Jadambaa T, Burmaa G, Erdenechimeg S, Amarsanaa J, MacKenzie KJD. Characterisation of acid activated montmorillonite clay from Tuulant (Mongolia). *Ceram Int*. Published online 2004.
30. Um N, Hirato T. Dissolution behavior of La<sub>2</sub>O<sub>3</sub>, Pr<sub>2</sub>O<sub>3</sub>, Nd<sub>2</sub>O<sub>3</sub>, CaO and Al<sub>2</sub>O<sub>3</sub> in sulfuric acid solutions and study of cerium recovery from rare earth polishing powder waste via two-stage sulfuric acid leaching. *Mater Trans*. Published online 2013.
31. Tyagi B, Chudasama CD, Jasra R V. Determination of structural modification in acid activated montmorillonite clay by FT-IR spectroscopy. *Spectrochim Acta - Part A Mol Biomol Spectrosc*. Published online 2006.
32. Saikia BJ, Parthasarathy G. Fourier Transform Infrared Spectroscopic Characterization of Kaolinite from Assam and Meghalaya, Northeastern India. *J Mod Phys*. 2010;01(04):206-210.
33. Djomgoue P, Njopwouo D. FT-IR Spectroscopy Applied for Surface Clays Characterization. *J Surf Eng Mater Adv Technol*. Published online 2013.
34. Tchakoute HK, Rüscher CH, Djobo JNY, Kenne BBD, Njopwouo D. Influence of gibbsite and quartz in kaolin on the properties of metakaolin-based geopolymer cements. *Appl Clay Sci*. 2015;107:188-194.
35. Dong Z, Ling M, Jiang Y, et al. Preparation and properties of TiO<sub>2</sub>/illite composites synthesized at different hydrothermal pH values. *Chem Phys*. 2019;525(March):110394.
36. Saikia BJ, Parthasarathy G, Borah RR, Borthakur R. Raman and FTIR Spectroscopic Evaluation of Clay Minerals and Estimation of Metal Contaminations in Natural Deposition of Surface Sediments from Brahmaputra River. *Int J Geosci*.

Published online 2016.

37. Otieno SO, Kengara FO, Kemmegne-Mbougouen JC, Langmi HW, Kowenje CBO, Mokaya R. The effects of metakaolinization and fused-metakaolinization on zeolites synthesized from quartz rich natural clays. *Microporous Mesoporous Mater.* 2019;290(July):109668.
38. Shankar M V., Anandan S, Venkatachalam N, Arabindoo B, Murugesan V. Fine route for an efficient removal of 2,4-dichlorophenoxyacetic acid (2,4-D) by zeolite-supported TiO<sub>2</sub>. *Chemosphere*. Published online 2006.

