

KEPUSTAKAAN

- Abdullah, A. M., N. J. Al-Thani, K. Tawbi, dan H. Al-Kandari. 2016. Carbon/nitrogen-doped TiO_2 : New synthesis route, characterization and application for phenol degradation. *Arabian Journal of Chemistry* 9: 229–237.
- Ahmadi, A., dan B. Nahri-Niknafs. 2011. Photodegradation of insecticide diazinon under simulated solar light irradiation conditions and identification of photoproducts. *Chem. Bull. "POLITEHNICA" Univ. (Timisoara)* 56.
- Ahmadifard, T., R. Heydari, M. J. Tarrahi, dan G. S. Khorramabad. 2019. Photocatalytic degradation of diazinon in aqueous solutions using immobilized MgO nanoparticles on concrete. *International Journal of Chemical Reactor Engineering*: 1-13.
- Ahmed, S., M. G. Rasul, R. Brown, dan M. A. Hashib. 2011. Influence of parameters on the heterogeneous photocatalytic degradation of pesticides and phenolic contaminants in wastewater: a short review. *Journal Environmental Management* 92: 311-330.
- Alalm, M. G., A. Tawfik, dan S. Ookawara. 2015. Comparison of solar TiO_2 photocatalysis and solar photo-Fenton for treatment of pesticides industry wastewater: Operational conditions, kinetics, and costs. *Journal of Water Process Engineering* 8: 55–63.
- Assalin, M. R., V. L. Ferracini, S. C. N. Queiroz, C. M. Jonsson, Z. Clemente, dan S. R. C. M. Silva. 2016. Photocatalytic degradation of an organophosphorus pesticide from agricultural waste by immobilized TiO_2 under solar radiation. *Ambiente & Água - An Interdisciplinary Journal of Applied Science* 11: 778-787.
- Baneshi, M. M., M. Barafrashtehpour, S. Rezaei, H. Hekmatmanesh, A. Sadat, dan A. Mousavizadeh. 2017. Investigation of photocatalytic degradation of diazinon using titanium dioxide (TiO_2) nanoparticles doped with iron in the presence of ultraviolet rays from the aqueous solution. *Bioscience Biotechnology Research Communication*: 1-8.
- Barndok, H. 2017. Advanced oxidation processes for the treatment of industrial wastewaters containing 1,4-dioxane. *Department of chemical engineering*. Madrid: Complutense University of Madrid.
- Bavcon, M., P. Trebše, dan L. Zupančič-Kralj. 2003. Investigations of the determination and transformations of diazinon and malathion under

- environmental conditions using gas chromatography coupled with a flame ionisation detector. *Chemosphere* 50: 595–601.
- Beduk, F., M. E. Aydin, dan S. Ozcan. 2012. Degradation of malathion and parathion by ozonation, photolytic ozonation, and heterogeneous catalytic ozonation processes. *CLEAN - Soil, Air, Water* 40: 179-187.
- Bougarrani, S., L. El Azzouzi, S. Akel, L. Latrach, A. Bouziani, dan M. El Azzouzi. 2018. Factors influencing imazapyr herbicide removal from wastewater using photocatalytic ozonation. *Acta Chimica Slovenica* 65: 470–474.
- Chen, D., Z. Jiang, J. Geng, Q. Wang, dan D. Yang. 2007. Carbon and nitrogen Co-doped TiO₂ with enhanced visible-light photocatalytic activity. *Industrial & Engineering Chemistry Research* 46: 1-6.
- Chen, H., M. Shen, R. Chen, K. Dai, dan T. Peng. 2011. Photocatalytic degradation of commercial methyl parathion in aqueous suspension containing La-doped TiO₂ nanoparticles. *Environmental Technology* 32: 1-7.
- Chokshi, N. P., dan J. P. Ruparelia. 2015. Photocatalytic ozonation for treatment of wastewater. *2nd International Conference on Multidisciplinary Research & Practice*: 2321-2705.
- Čolović, M., D. Krstić, S. Petrović, A. Leskovac, G. Joksić, J. Savić, M. Franko, P. Trebše, dan V. Vasić. 2010. Toxic effects of diazinon and its photodegradation products. *Toxicology Letter* 193: 9-18.
- Cong, Y., F. Chen, J. Zhang, dan M. Anpo. 2006. Carbon and nitrogen-codoped TiO₂ with high visible light photocatalytic activity. *Chemistry Letters* 35: 800-801.
- Dai, G., S. Liu, Y. Liang, H. Liu, dan Z. Zhong. 2013. A simple preparation of carbon and nitrogen co-doped nanoscaled TiO₂ with exposed {001} facets for enhanced visible-light photocatalytic activity. *Journal of Molecular Catalysis A: Chemical* 368-369: 38-42.
- Dai, K., T. Peng, H. Chen, J. Liu, dan A. L. Zan. 2009. Photocatalytic degradation of commercial phoxim over La-Doped TiO₂ nanoparticles in aqueous suspension. *Environmental Science & Technology* 43: 1540–1545.
- Daneshvar, N., S. Aber, M. Seyeddorraj, A. Khataee, dan M. Rasoulifard. 2007. Photocatalytic degradation of the insecticide diazinon in the presence of prepared nanocrystalline ZnO powders under irradiation of UV-C light. *Separation and Purification Technology* 58: 91-98.
- De Caro, C. A., dan C. Haller. 2015. UV/VIS spectrophotometry - fundamentals and applications. Mettler-Toledo Publication.

- Dehghani, M. H., dan A. M. Fadaei. 2012. Photocatalytic oxidation of organophosphorus pesticides using zinc oxide. *Research Journal of Chemistry and Environment* 16.
- Deng, Y., dan R. Zhao. 2015. Advanced oxidation processes (AOPs) in wastewater treatment. *Current Pollution Report*: 167–176.
- Devi, L. G., dan R. Kavitha. 2013. A review on non metal ion doped titania for the photocatalytic degradation of organic pollutants under UV/solar light: Role of photogenerated charge carrier dynamics in enhancing the activity. *Applied Catalysis B Environmental* s: 559–587.
- Dolat, D., N. Quici, E. Kusiak-Nejman, A. W. Morawski, dan G. Li Puma. 2012. One-step, hydrothermal synthesis of nitrogen, carbon co-doped titanium dioxide (N,CTiO₂) photocatalysts. Effect of alcohol degree and chain length as carbon dopant precursors on photocatalytic activity and catalyst deactivation. *Applied Catalysis B: Environmental* 115-116: 81-89.
- Doong, R., dan W. Chang. 1997. Photoassisted titanium dioxide mediated degradation of organophosphorus pesticides by hydrogen peroxide. *Journal of Photochemistry and Photobiology A: Cheafistry* 107: 239-244.
- El-Sheikh, S. M., T. M. Khedr, AmerHakki, A. A. I. Ismail, W. A. Badawy, dan D. W. Bahnemann. 2017. Visible light activated carbon and nitrogen co-doped mesoporous TiO₂ as efficient photocatalyst for degradation of ibuprofen. *Separation and Purification Technology* 173: 258-268.
- Ezzi, L., Z. Haouas, I. B. Salah, A. Sakly, I. Grissa, S. Chakroun, E. Kerkeni, M. Hassine, M. Mehdi, dan H. B. Cheikh. 2016. Toxicopathic changes and genotoxic effects in liver of rat following exposure to diazinon. *Environmental Science Pollutant Research International* 23: 11163-11170.
- Fadaei, A., dan H. Karyab. 2015. Sonocatalytic degradation of the insecticide parathion in water. *Life Science Journal* 2.
- Fitriyani, Y. O., U. Septiani, D. V. Wellia, R. A. Putri, dan Safni. 2017. Degradation of direct Red-23 dye by photolysis with the addition of C-N-codoped TiO₂ catalyst. *Jurnal Kimia VALENSI* 3: 152-159.
- Garg, A., T. Singhania, A. Singh, S. Sharma, S. Rani, A. Neogy, S. R. Yadav, V. K. Sangal, dan N. Garg. 2019. Photocatalytic degradation of Bisphenol-A using N, Co Codoped TiO₂ catalyst under solar light. *Scientific Report* 9: 765.

- Harchegani, A. B., A. Rahmani, E. Tahmasbpour, H. B. Kabootaraki, H. Rostami, dan A. Shahriary. 2018. Mechanisms of diazinon effects on impaired spermatogenesis and male infertility. *Toxicol Ind Health* 34: 653-664.
- Hossaini, H., G. Moussavi, dan M. Farrokhi. 2014. The investigation of the LED-activated FeFNS-TiO₂ nanocatalyst for photocatalytic degradation and mineralization of organophosphate pesticides in water. *Water Research* 59: 130-144.
- Hossaini, H., G. Moussavi, dan M. Farrokhi. 2017. Oxidation of diazinon in cns-ZnO/LED photocatalytic process: Catalyst preparation, photocatalytic examination, and toxicity bioassay of oxidation by-products. *Separation and Purification Technology* 174: 320-330.
- Hunge, Y. M., dan A. A. Yadav. 2018. Basics and advanced developments in photocatalysis – a review. *International Journal of Hydrology* 2: 539-540.
- Jafari, S. J., G. Moussavi, dan H. Hossaini. 2014. Degradation and mineralization of diazinon pesticide in UVC and UVC/TiO₂ process. *Desalination and Water Treatment* 57: 3782-3790.
- Jonidi-Jafari, A., M. Gholami, M. Farzadkia, A. Esrafil, dan M. Shirzad-Siboni. 2017. Application of Ni-doped ZnO nanorods for degradation of diazinon: Kinetics and by-products. *Separation Science and Technology* 52: 2395-2406.
- Jonidi-Jafari, A., M. Shirzad-Siboni, J. Yang, M. Naimi-Joubani, dan M. Farrokhi. 2015. Photocatalytic degradation of diazinon with illuminated ZnO–TiO₂ composite. *Journal of the Taiwan Institute of Chemical Engineers* 50: 100-107.
- Kakroudi, M. A., F. Kazemi, dan B. Kaboudin. 2014. Highly efficient photodeoximation under green and blue LEDs catalyzed by mesoporous C-N-codoped nano TiO₂. *Journal of Molecular Catalysis A: Chemical* 392: 112-119.
- Kalantary, R. R., Y. D. Shahamat, M. Farzadkia, A. Esrafil, dan H. Asgharnia. 2014. Photocatalytic degradation and mineralization of diazinon in aqueous solution using nano-TiO₂(Degussa, P25): kinetic and statistical analysis. *Desalination and Water Treatment* 55: 555-563.
- Kamani, H., S. Nasser, M. Khoobi, N. R. Nodehi, dan A. H. Mahvi. 2016. Sonocatalytic degradation of humic acid by N-doped TiO₂ nano-particle in aqueous solution. *Journal of Environmental Health Science & Engineering* 14: 1-9.
- Karanth, S. 2014. Diazinon. 55-56.

- Khan, J. A., X. He, H. M. Khan, N. S. Shah, dan D. D. Dionysiou. 2013. Oxidative degradation of atrazine in aqueous solution by UV/H₂O₂/Fe²⁺, UV/S₂O₈²⁻/Fe²⁺ and UV/HSO₅⁻/Fe²⁺ processes: A comparative study. *Chemical Engineering Journal* 218: 376–383.
- Khoiriah, K., D. V. Wellia, dan S. Safni. 2019. Degradasi pestisida diazinon dengan proses fotokatalisis sinar matahari menggunakan katalis C,N-codoped TiO₂. *Jurnal Kimia dan Kemasan* 41: 17-25.
- Kouloumbos, V. N., D. F. Tsipi, A. E. Hiskia, D. Nikolic, dan R. B. Breemen. 2003. Identification of photocatalytic degradation products of diazinon in tio₂ aqueous suspensions using GC/MS/MS and LC/MS with quadrupole time-of-flight mass spectrometry. *Journal of The American Society for Mass Spectrometry* 14: 803–817.
- Ku, Y., J. Chang, dan S. Cheng. 1998. Effect of solution pH on the hydrolysis and photolysis of diazinon in aqueous solution. *Water, Air, and Soil Pollution* 108: 445–456.
- Kumar, A., dan G. Pandey. 2017. A Review on the factors affecting the photocatalytic degradation of hazardous materials. *Material Science & Engineering International Journal* 1: 1-10.
- Kumar, S. G., dan L. G. Devi. 2011. Review on modified TiO₂ photocatalysis under UV/visible light: selected results and related mechanisms on interfacial charge carrier transfer dynamics. *Journal of Physical Chemistry A* 115: 13211-13241.
- Kurade, M. B., J. R. Kim, S. P. Govindwar, dan B.-H. Jeon. 2016. Insights into microalgae mediated biodegradation of diazinon by *Chlorella vulgaris* : Microalgal tolerance to xenobiotic pollutants and metabolism. *Algal Research* 20: 126-134.
- Laoufi, N. A., D. Tassalit, dan F. Bentahar. 2008. The degradation of phenol in water solution by TiO₂ photocatalysis in a helical reactor. *Global NEST Journal* 10: 404-418.
- Lazarević-Pašti, T. D., A. M. Bondžić, I. A. Pašti, S. V. Mentus, dan V. M. Vasić. 2013. Electrochemical oxidation of diazinon in aqueous solutions via electrogenerated halogens – Diazinon fate and implications for its detection. *Journal of Electroanalytical Chemistry* 692: 40-45.
- Li, F., J. Zhou, C. Du, W. Li, Y. Wang, G. He, dan Q. He. 2017. Preparation and photocatalytic properties of porous C and N co-doped TiO₂ deposited on brick by a fast, one-step microwave irradiation method. *Journal of environmental sciences* 60: 24-32.

- Li, W., Y. Liu, J. Duan, J. Van Leeuwen, dan C. P. Saint. 2015. UV and UV/H₂O₂ treatment of diazinon and its influence on disinfection byproduct formation following chlorination. *Chemical Engineering Journal* 274: 39-49.
- Lin, L., M. Xie, Y. Liang, Y. He, G. Y. S. Chan, dan T. Luan. 2012. Degradation of cypermethrin, malathion and dichlorovos in water and on tea leaves with O₃/UV/TiO₂ treatment. *Food Control* 28: 374-379.
- Liu, G., C. Han, M. Pelaez, D. Zhu, S. Liao, V. Likodimos, A. G. Kontos, P. Falaras, dan D. D. Dionysiou. 2013. Enhanced visible light photocatalytic activity of CN-codoped TiO₂ films for the degradation of microcystin-LR. *Journal of Molecular Catalysis A: Chemical* 372: 58-65.
- Liu, S., dan H. Syu. 2013. High visible-light photocatalytic hydrogen evolution of C,N-codoped mesoporous TiO₂ nanoparticles prepared via an ionic-liquid-template approach. *International journal of hydrogen energy* 38: 13856-13865.
- Loddo, V., M. Bellardita, G. Camera-Roda, F. Parrino, dan L. Palmisano. 2018. Heterogeneous photocatalysis: a promising advanced oxidation process. current trends and future developments on (Bio-) Membranes: 1-43.
- Mahmoodi, N. M., M. Aramia, N. Y. Limaee, dan K. Gharanjig. 2007. Photocatalytic degradation of agricultural N-heterocyclic organic pollutants using immobilized nanoparticles of titania. *Journal of Hazardous Material* 145: 65-71.
- Mehrjouei, M., S. Müller, dan D. Möller. 2015. A review on photocatalytic ozonation used for the treatment of water and wastewater. *Chemical Engineering Journal* 263: 209-219.
- MeiLi, G., dan D. Jiulin. 2013. Electronic and optical properties of C-N-codoped TiO₂: A first-principles GGA+U investigation. *International Journal of Modern Physics B* 27: 1-10.
- Mirmasoomi, S. R., M. M. Ghazi, dan M. Galedari. 2017. Photocatalytic degradation of diazinon under visible light using TiO₂/Fe₂O₃ nanocomposite synthesized by ultrasonic-assisted impregnation method. *Separation and Purification Technology* 175: 418-427.
- Mishra, N., R. Reddy, A. Kuila, A. Rani, A. Nawaz, dan S. Pichiah. 2017. A Review on advanced oxidation processes for effective water treatment. *Current World Environment* 12: 469-489.

- Mital, G. S., dan T. Manoj. 2011. A review of TiO₂ nanoparticles. *Chinese Science Bulletin* 56: 1639-1657.
- Mohagheghian, A., S.-A. Karimi, J.-K. Yang, dan M. Shirzad-Siboni. 2015. Photocatalytic degradation of diazinon by illuminated WO₃ nanopowder. *Desalination and Water Treatment*: 1-8.
- Moussavi, G., H. Hossaini, S. J. Jafari, dan M. Farokhi. 2014. Comparing the efficacy of UVC, UVC/ZnO and VUV processes for oxidation of organophosphate pesticides in water. *Journal of Photochemistry and Photobiology A: Chemistry* 290: 86-93.
- Muranli, F. D. G., M. Kanev, dan K. Ozdemir. 2015. Genotoxic effects of diazinon on human peripheral blood lymphocytes. *Arh Hig Rada Toksikol* 66: 153-158.
- Nakaoka, Y., H. Katsumata, S. Kaneco, T. Suzuki, dan K. Ohta. 2012. Photocatalytic degradation of diazinon in aqueous solution by platinized TiO₂. *Desalination and Water Treatment* 13: 427-436.
- Neishabouria, E. Z., Z. M. Hassan, E. Azizi, dan S. N. Ostad. 2004. Evaluation of immunotoxicity induced by diazinon in C57bl/6 mice. *Toxicology* 196: 173-179.
- Oh, J.-Y., M.-K. Kim, H.-S. Son, dan K.-D. Zoh. 2008. A Study on the degradation mechanism of diazinon and the acute toxicity assessment in photolysis and photocatalysis. *Journal Korean Social Environmental Engineering* 30: 1087-1094.
- Pang, Y. L., dan A. Z. Abdullah. 2013. Effect of carbon and nitrogen co-doping on characteristics and sonocatalytic activity of TiO₂ nanotubes catalyst for degradation of Rhodamine B in water. *Chemical Engineering Journal* 214: 129-138.
- Pang, Y. L., A. Z. Abdullah, dan S. Bhatia. 2011. Review on sonochemical methods in the presence of catalysts and chemical additives for treatment of organic pollutants in wastewater. *Desalination* 277: 1-14.
- Paranjape, K., V. R. Gowariker, V. N. Krishnamurthy, dan S. Gowariker. 2015. The pesticide encyclopedia. Wallingford, Oxfordshire CABI.
- Pelaez, M., N. T. Nolan, S. C. Pillai, M. K. Seery, P. Falaras, A. G. Kontos, P. S. M. Dunlop, J. W. J. Hamilton, J. A. Byrne, K. O'Shea, M. H. Entezari, dan D. D. Dionysiou. 2012. A review on the visible light active titanium dioxide photocatalysts for environmental applications. *Applied Catalysis B: Environmental* 125: 331-349.

- Pirsaheb, M., A. Dargahi, S. Hazrati, dan M. Fazlzadehdavil. 2014. Removal of diazinon and 2,4-dichlorophenoxy-acetic acid (2,4-D) from aqueous solutions by granular-activated carbon. *Desalination and Water Treatment* 54: 4350–4355.
- Preto, S., dan C. C. Gomes. 2017. Ultraviolet radiation in sunlight and artificial lighting systems: are they alike? In: Goonetilleke R. S. and Karwowski W. (eds) *International Conference on Applied Human Factors and Ergonomics*.
- Qiu, P., B. Park, J. Choi, B. Thokchom, A. B. Pandit, dan J. Khim. 2018. A review on heterogeneous sonocatalyst for treatment of organic pollutants in aqueous phase based on catalytic mechanism. *Ultrason Sonochem* 45: 29–49.
- Rajeswari, R., dan S. Kanmani. 2009. A study on synergistic effect of photocatalytic ozonation for carbaryl degradation. *Desalination* 242: 277–285.
- Ramadhan, L. O. A. N., dan Amiruddin. 2013. Photodegradation of diazinon pesticide in suspension of TiO_2 . *Jurnal Ilmu Dasar* 14: 23–28.
- Real, F. J., F. J. Benitez, J. L. Acero, dan M. Gonzalez. 2007. Removal of diazinon by various advanced oxidation processes. *Journal of Chemical Technology and Biotechnology* 82: 566–574.
- Rezaei, S. S., E. Dehghanifard, M. Noorisepehr, K. Ghadirinejad, B. Kakavandi, dan A. R. Esfahani. 2019. Efficient clean-up of waters contaminated with diazinon pesticide using photo-decomposition of peroxymonosulfate by ZnO decorated on a magnetic core/shell structure. *Journal Environmental Management* 250: 109472.
- Safitri, V. Y., A. Santoni, D. V. Wellia, Khoiriah, dan Safni. 2017. Degradation of paracetamol by photolysis using C-N-codoped TiO_2 . *Molekul* 12: 189–195.
- Safni, Desmiati, dan H. Suyani. 2009. Degradasi senyawa dikofol dalam pestisida Kelthane 200 EC secara fotolisis dengan penambahan TiO_2 -anatase. *Jurnal Riset Kimia* 2: 140–148.
- Safni, R. A. Putri, D. V. Wellia, dan U. Septiani. 2017. Photodegradation of orange F3R Dyes: effect of light sources and the addition of CN-Codoped TiO_2 catalyst. *Der Pharma Chemica* 9: 1–5.
- Safni, S., D. V. Weillia, P. S. Komala, R. A. Putri, dan Deliza. 2016. Photocatalytic degradation of Yellow-GCN dye using C-N-codoped TiO_2 thin film in degradation reactor using visible-light irradiation. *Der PharmaChemica* 8: 642–646.

- Safni., D. Anggraini, D. V. Wellia, dan Khoiriah. 2015. Degradasi zat warna direct Red-23 dan direct violet dengan metode ozonolisis, fotolisis dengan sinar UV dan cahaya matahari menggunakan katalis N-doped TiO₂. *Jurnal Litbang Industri* 5: 123-130.
- Saharan, V. K., D. V. Pinjari, P. R. Gogate, dan A. B. Pandit. 2014. Advanced oxidation technologies for wastewater treatment: An overview. In: Vivek V. Ranade Vinay M. Bhandari (ed) *Industrial Wastewater Treatment, Recycling and Reuse*, Edition: 1. Butterworth-Heinemann: 141-191.
- Sakkas, V. A., A. Dimou, K. Pitarakis, G. Mantis, dan T. Albanis. 2005. TiO₂ photocatalyzed degradation of diazinon in an aqueous medium. *Environmental Chemistry Letters* 3: 57-61.
- Salarian, A., Z. Hami, N. Mirzaie, S. M. Mohseni, A. Asadi, H. Bahrami, M. Vosoughi, A. Alinejad, dan M. Zare. 2016. N-doped TiO₂ nanosheets for photocatalytic degradation and mineralization of diazinon under simulated solar irradiation: Optimization and modeling using a response surface methodology. *Journal of Molecular Liquids* 220: 183-191.
- Salgado, B. C. B., R. A. Cardeal, dan A. Valentini. 2019. Photocatalysis and photodegradation of pollutants. *Nanomaterials Applications for Environmental Matrices*: 449-488.
- Shemer, H., dan K. G. Linden. 2006. Degradation and by-product formation of diazinon in water during UV and UV/H₂O₂ treatment. *Journal of Hazardous Material* 136: 553-559.
- Shirzad-Siboni, M., A. Jonidi-Jafari, M. Farzadkia, A. Esrafil, dan M. Gholami. 2017. Enhancement of photocatalytic activity of Cu-doped ZnO nanorods for the degradation of an insecticide: Kinetics and reaction pathways. *Journal Environmental Management* 186: 1-11.
- Sillanpää, M., dan A. Matilainen. 2015. NOM removal by advanced oxidation processes natural organic matter in water: 159-211.
- Speight, J. G. 2017. Transformation of inorganic chemicals in the environment. *Environmental Inorganic Chemistry for Engineers*: 333-382.
- Sud, D., dan P. Kaur. 2012. Heterogeneous photocatalytic degradation of selected organophosphate pesticides: A review. *Critical Reviews in Environmental Science and Technology* 42: 2365-2407.

- Tabasideh, S., A. Maleki, B. Shahmoradi, E. Ghahremani, dan G. McKay. 2017. Sonophotocatalytic degradation of diazinon in aqueous solution using iron-doped TiO_2 nanoparticles. *Separation and Purification Technology* 189: 186-192.
- Thammana, M. 2016. A Review on high performance liquid chromatography (HPLC). *Journal of Pharmaceutical Analysis* 5: 22-28.
- Tijani, J. O., F. O. O., G. Madzivire, dan L. F. Petrik. 2014. A review of combined advanced oxidation technologies for the removal of organic pollutants from water. *Water Air Soil Pollution* 225: 1-30.
- Tomlin, C. 2000. *The Pesticide Manual: A World Compendium*. 12th ed. Farnham, Surrey, UK British Crop Protection Council.
- Toolabi, A., M. Malakootian, M. T. Ghaneian, A. Esrafil, M. H. Ehrampoush, M. AskarShahi, dan M. Tabatabaei. 2018. Modeling photocatalytic degradation of diazinon from aqueous solutions and effluent toxicity risk assessment using *Escherichia coli* LMG 15862. *AMB Express* 8: 1-13.
- Usman, M. R., A. R. Noviyanti, dan D. R. Eddy. 2017. Photocatalytic degradation of diazinon using titanium oxide synthesized by alkaline solvent. *Indonesian Journal of Chemistry* 17: 22 - 29.
- Wang, C.-K., dan Y.-H. Shih. 2016. Facilitated ultrasonic irradiation in the degradation of diazinon insecticide. *Sustainable Environment Research* 26: 110-116.
- Wang, C., dan Y. Shih. 2015. Degradation and detoxification of diazinon by sono-Fenton and sono-Fenton-like processes. *Separation and Purification Technology* 140: 6-12.
- Wang, J., Y. Jiang, Z. Zhang, X. Zhang, T. Ma, G. Zhang, G. Zhao, P. Zhang, dan Y. Li. 2007. Investigation on the sonocatalytic degradation of acid red B in the presence of nanometer TiO_2 catalysts and comparison of catalytic activities of anatase and rutile TiO_2 powders. *Ultrason Sonochem* 14: 545-551.
- Wang, X., dan T. Lim. 2010. Solvothermal synthesis of C-N codoped TiO_2 and photocatalytic evaluation for bisphenol A degradation using a visible-light irradiated LED photoreactor. *Applied Catalysis B: Environmental* 100: 355-364.
- Wellia, D. V., D. Fitria, dan Safni. 2018. C-N-Codoped TiO_2 synthesis by using peroxo sol gel method for photocatalytic reduction of Cr(VI) . *The Journal of Pure and Applied Chemistry Research* 7: 26-32.

- Wu, J., C. Lan, dan G. Y. S. Chan. 2009. Organophosphorus pesticide ozonation and formation of oxon intermediates. *Chemosphere* 76: 1308-1314.
- Wu, Y., dan L. Ju. 2014. Annealing-free synthesis of CN co-doped TiO₂ hierarchical spheres by using amine agents via microwave-assisted solvothermal method and their photocatalytic activities. *Journal of Alloys and Compounds* 604: 164-170.
- Xu, Q. C., D. V. Wellia, S. Yan, D. W. Liao, T. M. Lim, dan T. T. Y. Tan. 2011. Enhanced photocatalytic activity of C-N-codoped TiO₂ films prepared via an organic-free approach. *Journal of Hazardous Material* 188: 172-180.
- Yahiat, S., F. Fourcade, S. Brosillon, dan A. Amrane. 2011. Photocatalysis as a pre-treatment prior to a biological degradation of cyproconazole. *Desalination* 281: 61-67.
- Yang, J., H. Bai, Q. Jiang, dan J. Lian. 2008. Visible-light photocatalysis in nitrogen-carbon-doped TiO₂ films obtained by heating TiO₂ gel-film in an ionized N₂ gas. *Thin Solid Films* 516: 1736-1742.
- Yang, T., J. Peng, Y. Zheng, X. He, Y. Hou, L. Wu, dan X. Fu. 2018. Enhanced photocatalytic ozonation degradation of organic pollutants by ZnO modified TiO₂ nanocomposites. *Applied Catalysis B: Environmental* 221: 223-234.
- Yang, Z.-p., X.-y. Gong, dan C.-j. Zhang. 2010. Recyclable Fe₃O₄/hydroxyapatite composite nanoparticles for photocatalytic applications. *Chemical Engineering Journal* 165: 117-121.
- Žabar, R. 2012. Persistence, degradation and toxicity of transformation products of selected insecticides. *Graduate School*. Nova Gorica: University of Nova Gorica.
- Zahedi, F., M. Behpour, S. M. Ghoreishi, dan H. Khalilian. 2015. Photocatalytic degradation of paraquat herbicide in the presence TiO₂ nanostructure thin films under visible and sun light irradiation using continuous flow photoreactor. *Solar Energy* 120: 287-295.
- Zhang, S., dan L. Song. 2009. Preparation of visible-light-active carbon and nitrogen codoped titanium dioxide photocatalysts with the assistance of aniline. *Catalysis Communications* 10: 1725-1729.
- Zhang, Y., Y. Hou, F. Chen, Z. Xiao, J. Zhang, dan X. Hu. 2011. The degradation of chlorpyrifos and diazinon in aqueous solution by ultrasonic irradiation: effect of parameters and degradation pathway. *Chemosphere* 82: 1109-1115.

- Zhou, G. 2013. Photocatalytic degradation of organic compounds using carbon based composite catalysts. *Department of Chemical Engineering*. Curtin University.
- Zhuykov, S. 2014. Electrons and holes in a semiconductor. In: Zhuykov S. (ed) Nanostructured Semiconductor Oxides for the Next Generation of Electronics and Functional Devices. *Properties and Applications*: 1-49.

