

## DAFTAR PUSTAKA

- Abdel-Ghaffar, A. M., & Ali, H. E. (2022). Effect of gamma radiation on the properties of novel polyvinyl alcohol /carboxymethyl cellulose/citric acid/glycerol bioblend film. *Polym. Bull.*, 79(7), 5105–5119.
- Alexandre, B., Langevin, D., Médéric, P., Aubry, T., Couderc, H., Nguyen, Q. T., Saiter, A., & Marais, S. (2009). Water barrier properties of polyamide 12/montmorillonite nanocomposite membranes: Structure and volume fraction effects. *J. Membr. Sci.*, 328(1–2), 186–204.
- Awadhiya, A., Kumar, D., & Verma, V. (2016). Crosslinking of agarose bioplastic using citric acid. *Carbohydr. Polym.*, 151, 60–67.
- Bauli, C. R., Lima, G. F., de Souza, A. G., Ferreira, R. R., & Rosa, D. S. (2021). Eco-friendly carboxymethyl cellulose hydrogels filled with nanocellulose or nanoclays for agriculture applications as soil conditioning and nutrient carrier and their impact on cucumber growing. *Colloids Surf. A Physicochem. Eng. Asp.*, 623(March), 126771.
- Biricik, Y., Sonmez, S., & Ozden, O. (2011). Effects of surface sizing with starch on physical strength properties of paper. *Asian J. Chem.*, 23(7), 3151–3154.
- Borges, R., Prevot, V., Forano, C., & Wypych, F. (2017). Design and Kinetic Study of Sustainable Potential Slow-Release Fertilizer Obtained by Mechanochemical Activation of Clay Minerals and Potassium Monohydrogen Phosphate. *Ind. Eng. Chem. Res.*, 56(3), 708–716.
- Chen, J., Lü, S., Zhang, Z., Zhao, X., Li, X., Ning, P., & Liu, M. (2018). Environmentally friendly fertilizers: A review of materials used and their effects on the environment. *Sci. Total Environ.*, 613–614, 829–839.
- Daitx, T. S., Giovanela, M., Carli, L. N., & Mauler, R. S. (2019). Biodegradable polymer/clay systems for highly controlled release of NPK fertilizer. *Polym Adv Technol.*, 30(3), 631–639.
- Gao, X., Li, M., Zhou, F., Wang, X., Chen, S., & Yu, J. (2021). Flexible zirconium doped strontium titanate nanofibrous membranes with enhanced visible-light photocatalytic performance and antibacterial activities. *J. Colloid Interface Sci.*, 600, 127–137.
- Ghadiri, M., Chrzanowski, W., & Rohanizadeh, R. (2015). Biomedical applications

of cationic clay minerals. *RSC Adv.*, 5(37), 29467–29481.

Ghorpade, V. S., Yadav, A. V., Dias, R. J., Mali, K. K., Pargaonkar, S. S., Shinde, P. V., & Dhane, N. S. (2018). Citric acid crosslinked carboxymethylcellulose-poly(ethylene glycol) hydrogel films for delivery of poorly soluble drugs. *Int. J. Biol. Macromol.*, 118, 783–791.

Harmaen, A. S., Khalina, A., Ali, H. M., & Azowa, I. N. (2016). Thermal, Morphological, and Biodegradability Properties of Bioplastic Fertilizer Composites Made of Oil Palm Biomass, Fertilizer, and Poly(hydroxybutyrate-co-valerate). *Int. J. Polym. Sci.*, 2016.

Hebbar, R. S., Isloor, A. M., & Ismail, A. F. (2014). Preparation and evaluation of heavy metal rejection properties of polyetherimide/porous activated bentonite clay nanocomposite membrane. *RSC Adv.*, 4(88), 47240–47248.

Indriana, K., Kukuh, H. I., Chotimah, Eko, S. K., & Rochmadi. (2019). Effect of zeolite addition on the properties of bioplastic composites of carboxymethyl cellulose-urea. *Mater. Sci. Forum*, 948 MSF, 175–180.

Jiménez-Rosado, M., Perez-Puyana, V., Rubio-Valle, J. F., Guerrero, A., & Romero, A. (2020). Evaluation of Superabsorbent Capacity of Soy Protein-Based Bioplastic Matrices with Incorporated Fertilizer for Crops. *J. Polym. Environ.*, 28(10), 2661–2668.

Jiménez-Rosado, M., Perez-Puyana, V., Sánchez-Cid, P., Guerrero, A., & Romero, A. (2021). Incorporation of zno nanoparticles into soy protein-based bioplastics to improve their functional properties. *Polymers*, 13(4), 1–14.

Kanafi, N. M., Rahman, N. A., & Rosdi, N. H. (2019). Citric acid cross-linking of highly porous carboxymethyl cellulose/poly(ethylene oxide) composite hydrogel films for controlled release applications. *Materials Today: Proceedings*, 7, 721–731.

Kartini, I., Lumbantobing, E. T., Suyanta, S., Sutarno, S., & Adnan, R. (2020). Bioplastic composite of carboxymethyl cellulose/N-P-K fertilizer. *Key Eng. Mater.*, 840 KEM(Cmc), 156–161.

Liu, M., Arshadi, M., Javi, F., Lawrence, P., Davachi, S. M., & Abbaspourrad, A. (2020). Green and facile preparation of hydrophobic bioplastics from tea waste. *J. Clean. Prod.*, 276, 123353.

Marin, E., Boschetto, F., Sunthar, T. P. M., Zanocco, M., Ohgitani, E., Zhu, W., &

- Pezzotti, G. (2021). Antibacterial effects of barium titanate reinforced polyvinyl-siloxane scaffolds. *Int. J. Polym. Mater. Polym. Biomater.*, 70(6), 425–436.
- Olad, A., Zebhi, H., Salari, D., Mirmohseni, A., & Tabar, A. R. (2018). Water retention and slow release studies of a salep-based hydrogel nanocomposite reinforced with montmorillonite clay. *New J. Chem.*, 42(4), 2758–2766.
- Pereira, E. I., Minussi, F. B., Cruz, C. C. T., Bernardi, A. C. C., Ribeiro, C., Luiz, R. W., & Luiz, R. W. (2012). Urea–Montmorillonite–Extruded Nanocomposites A Novel Slow-.pdf. *J. Agric. Food Chem.*, 60, 5267–5272.
- Poueymiro, M., & Genin, S. (2009). Secreted proteins from *Ralstonia solanacearum*: a hundred tricks to kill a plant. *Curr. Opin. Microbiol.*, 12(1), 44–52.
- Ruidisch, M., Bartsch, S., Kettering, J., Huwe, B., & Frei, S. (2013). The effect of fertilizer best management practices on nitrate leaching in a plastic mulched ridge cultivation system. *Agric. Ecosyst. Environ.*, 169(3), 21–32.
- Shah, A. A., Khan, A., Dwivedi, S., Musarrat, J., & Azam, A. (2018). Antibacterial and Antibiofilm Activity of Barium Titanate Nanoparticles. *Mater. Lett.*, 229, 130–133.
- Shuai, C., Liu, G., Yang, Y., Qi, F., Peng, S., Yang, W., He, C., Wang, G., & Qian, G. (2020). A strawberry-like Ag-decorated barium titanate enhances piezoelectric and antibacterial activities of polymer scaffold. *Nano Energy*, 74(January), 104825.
- Singh, A., Dhiman, N., Kar, A. K., Singh, D., Purohit, M. P., Ghosh, D., & Patnaik, S. (2020). Advances in controlled release pesticide formulations: Prospects to safer integrated pest management and sustainable agriculture. *J. Hazard. Mater.*, 385(October 2019), 121525.
- Singh, B., & Sharma, N. (2008). Mechanistic implications of plastic degradation. *Polymer Degradation and Stability*, 93(3), 561–584.
- Swain, S., Bowen, C., & Rautray, T. (2021). Dual response of osteoblast activity and antibacterial properties of polarized strontium substituted hydroxyapatite—Barium strontium titanate composites with controlled strontium substitution. *J. Biomed. Mater. Res. Part A*, 109(10), 2027–2035.
- Swain, S., Padhy, R. N., & Rautray, T. R. (2020). Polarized piezoelectric bioceramic composites exhibit antibacterial activity. *Mater. Chem. Phys.*, 239(April 2019), 122002.

- Tamara, T., Sumari, Nazriati, & Arni, S. (2020). Properties of cassava starch-based bioplastics and CMC with sorbitol as A plasticizer. *IOP Conference Series: Earth and Environmental Science*, 456(1).
- Tangkoonboribun, R., Sassanarakkit, S., Tantisiriwit, R., Rungkvaee, P., & Bumrungsuk, P. (2013). The Effect of bioplastic mixed in organic fertilizer on corn growth and soil properties. *J. Biobased Mater. Bioenergy*, 7(4), 516–518.
- Tokiwa, Y., Calabia, B. P., Ugwu, C. U., & Aiba, S. (2009). Biodegradability of plastics. *Int. J. Mol. Sci.*, 10(9), 3722–3742.
- Wahyuni, S., Suyanta, S., Sedayu, B. B., Nafisyah, W., & Kartini, I. (2022). Synthesis Bioplastic Fertilizer of Carboxymethyl Cellulose/N-P-K/Zeolite Using Twin-Screw Extruder as a Model Slow-Release. *Key Eng. Mater.*, 928(August), 89–94.
- Wang, B., Wu, Z., Lan, J., Li, Y., Xie, L., Huang, X., Zhang, A., Qiao, H., Chang, X., Lin, H., Zhang, H., Li, T., & Huang, Y. (2021). Surface modification of titanium implants by silk fibroin/Ag co-functionalized strontium titanate nanotubes for inhibition of bacterial-associated infection and enhancement of in vivo osseointegration. *Surf. Coat. Technol.*, 405(September 2020), 126700.
- Wu, H., Lei, Y., Lu, J., Zhu, R., Xiao, D., Jiao, C., Xia, R., Zhang, Z., Shen, G., Liu, Y., Li, S., & Li, M. (2019). Effect of citric acid induced crosslinking on the structure and properties of potato starch/chitosan composite films. *Food Hydrocoll.*, 97(July), 105208.
- Wu, L., & Liu, M. (2008). Preparation and properties of chitosan-coated NPK compound fertilizer with controlled-release and water-retention. *Carbohydr. Polym.*, 72(2), 240–247.
- Yang, J., Ching, Y. C., Chuah, C. H., Hai, N. D., Singh, R., & Nor, A. R. M. (2021). Preparation and characterization of starch-based bioplastic composites with treated oil palm empty fruit bunch fibers and citric acid. *Cellulose*, 28(7), 4191–4210.
- Yaradoddi, J. S., Banapurmath, N. R., Ganachari, S. V., Soudagar, M. E. M., Mubarak, N. M., Hallad, S., Hugar, S., & Fayaz, H. (2020). Biodegradable carboxymethyl cellulose based material for sustainable packaging application. *Sci. Rep.*, 10(1), 1–13.
- Zhang, C., Yang, X., Li, Y., Qiao, C., Wang, S., Wang, X., Xu, C., Yang, H., & Li, T.

(2020). Enhancement of a zwitterionic chitosan derivative on mechanical properties and antibacterial activity of carboxymethyl cellulose-based films. *Int. J. Biol. Macromol.*, 159, 1197–1205.

Zhang, F., Xu, H., Konishi, H., Shelobolina, E. S., & Roden, E. E. (2012). Polysaccharide-catalyzed nucleation and growth of disordered dolomite: A potential precursor of sedimentary dolomite. *Am. Mineral.*, 97(4), 556–567.

Zhang, L., Tan, P. Y., Chow, C. L., Lim, C. K., Tan, O. K., Tse, M. S., & Sze, C. C. (2014). Antibacterial activities of mechanochemically synthesized perovskite strontium titanate ferrite metal oxide. *Colloids Surf. A Physicochem. Eng. Asp.*, 456(1), 169–175.