

DAFTAR PUSTAKA

- Abdullah, M. A. A., Mamat, M., Awang, M., Kusrini, E., Mubin, F. N. A., & Sudin, N. H. (2014). Effect of trihexyltetradecylphosphonium on thermal degradation properties of low linear density polyethylene/montmorillonite nanocomposites. *International Journal of Technology*, 4(2), 291–319.
- Adilina, I. B., Agustian, E., Meliana, Y., & Sulawatty, A. (2015). Synthesis and properties of ethoxylated glycerol monooleate as palm oil based nonionic surfactants. *Indonesian Journal of Applied Chemistry*, 17(1), 49–55.
- Ahagon, A. (2021). Mechanochemistry of natural rubber during processing. In *Chemistry, Manufacture, and Application of Natural Rubber* (pp. 153–173). Woodhead Publishing.
- Ahmad, M. U., Ali, S. M., Ahmad, A., Sheikh, S., & Ahmad, I. (2017). Carbocyclic fatty acids: chemistry and biological properties. In *Fatty Acids Chemistry, Synthesis, and Applications* (pp. 147–185). AOCS Press.
- Ahmadi, Y., & Ahmad, S. (2020). Polymeric nanocomposite coatings. In *Corrosion Protection at the Nanoscale* (pp. 363–378). Elsevier.
- Ajitha, A. R., Mathew, L. P., & Thomas, S. (2020). Compatibilization of polymer blends by micro and nanofillers. In *Compatibilization of Polymer Blends* (pp. 179–203). Elsevier.
- Al-Sabagh, A. M., Nasser, N. M., El-Azabawy, O. E., & El-Tabey, A. E. (2016). Corrosion inhibition behavior of new synthesized nonionic surfactants based on amino acid on carbon steel in acid media. *Journal of Molecular Liquids*, 219(1), 1078–1088.
- Al-Omari, M. M. H., Rashid, I. S., Qinna, N. A., Jaber, A. M., & Badwan, A. A. (2016). Calcium carbonate. In *Profiles of Drug Substances, Excipients and Related Methodology* (Vol. 41, pp. 31–132). Elsevier.
- Ali, F., Mezal, M., & Darmawan, V. (2014). Pengaruh penambahan zeolit dan kulit kerang darah terhadap sifat mekanis rubber compound. *Jurnal Teknik Kimia*, 20(3), 57–65.
- Amanizadeh, F., Naderi, A., Jarestani, Y. C., & Kaptan, N. (2014). Rheologically determined phase behavior and miscibility of reactively compatibilized poly (ethylene terephthalate) / polypropylene blends. *Polymer Bulletin*, 71(6), 1315–1329.
- Amin, K. F., Asrafuzzaman, Nahin, A. M., & Hoque, M. E. (2022). Polymer nanocomposites for adhesives and coatings. In *Advanced Polymer Nanocomposites* (pp. 235–265). Woodhead Publishing.
- Aritonang, B., Tamrin, T., Wirjosentono, B., & Eddiyanto. (2018). Functionalization of cyclic natural rubber (CNR) with oleic acid and divinylbenzene as compatibilizer in variation of dicumylperoxide. *AIP Conference Proceedings*, 2049(1), 020060.

- Aritonang, B., Tamrin, T., Wirjosentono, B., & Eddiyanto. (2019). Grafting of oleic acid on cyclic natural rubber resiprene-35 using dicumyl peroxide initiator and divinylbenzene compatibilizers for paint binder in polyamide Thermoplastics. *Oriental Journal of Chemistry*, 35(1), 173–179.
- Aritonang, B., Tamrin, Wirjosentono, B., & Eddiyanto. (2020). Effect of graft copolymerization of oleic acid on to cyclic natural rubber in polyamide. *Case Studies in Thermal Engineering*, 21(1), 100690.
- ASTM. (2012). E23-12c : Standard test methods for notched bar impact testing of metallic materials. *astm international*, west conshohocken, pa.
- astm. (2014). d638-14 : Standard test method for tensile properties of plastics. *ASTM International*, West Conshohocken, PA.
- Avolio, R., Gentile, G., Avella, M., Carfagna, C., & Errico, M. E. (2013). Polymer–filler interactions in PET/CaCO₃ nanocomposites: chain ordering at the interface and physical properties. *European Polymer Journal*, 49(2), 419–427.
- Azis, Y., Jamarun, N., Alfarisi, C. D., Mutamima, A., & Sisca, V. (2022). Precipitated calcium carbonate (PCC) from coral reef as raw material for synthesis of hydroxyapatite nanoparticles. *Rasayan Journal of Chemistry*, 15(1), 96–101.
- Azkiya, N. I., Prasetia, F., Putri, E. D., Rosiana, A., & Wardhani, S. (2017). Synthesis of precipitated calcium carbonate (PCC) from lime rock nature methods caustic soda. *Jurnal Ilmu Dasar*, 17(1), 31–34.
- Ball, V. (2018). Using covalent chemistry: grafting on and grafting from surfaces. In *Interface Science and Technology* (Vol. 21, pp. 333–365). Elsevier.
- Baruqi, M. S., Sholihah, S. Z., Sugiharto, A., Chandra, B., Tambun, D. L., & Suryaningrum, W. (2019). Pengukuran tensile strenght, compressive strength dan modulus elastisitas benda padat. *Jurnal Fisika dan Terapan*, 1(1), 1–7.
- Declat, A., Reyes, E., & Suárez, O. M. (2016). Calcium carbonate precipitation : a review of the carbonate crystallization process and applications in bioinspired composites. *Reviews on Advanced Materials Science*, 44(1), 87–107.
- Dibyantini, R. E., & Simanungkalit, F. (2013). Modifikasi cyclic natural rubber (CNR) melalui metode epoksidasi dan grafting monomer asam akrilat menggunakan benzoil peroksida (BPO). *Digital Repository Universitas Negeri Medan*, 5(03), 1–12.
- Dobrovzsky, K., & Ronkay, F. (2016). Investigation of compatibilization effects of SEBS-g-MA on polystyrene/polyethylene blend with a novel separation method in melted state. *Polymer Bulletin*, 73(10), 2719–2739.
- Doh, J., Kim, S. W., & Lee, J. (2018). Reliability assessment on the degradation properties of polymers under operating temperature and vibration conditions. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, 232(13), 1782–1798.

- dos Anjos, E. G. R., Backes, E. H., Marini, J., Pessan, L. A., Montagna, L. S., & Passador, F. R. (2019). Effect of LLDPE-g-MA on the rheological, thermal, mechanical properties and morphological characteristic of PA6/LLDPE blends. *Journal of Polymer Research*, 26(6), 134.
- Doufnoune, R., Haddaoui, N., & Riahi, F. (2008). Effects of coupling agents on the tensile properties of calcium carbonate filled LDPE compatibilized with maleic anhydride-g-LDPE (Part I). *International Journal of Polymeric Materials*, 57(4), 295–318.
- Durand, N., Monger, H. C., Canti, M. G., & Verrecchia, E. P. (2018). Calcium carbonate features. In *Interpretation of Micromorphological Features of Soils and Regoliths* (pp. 205–258). Elsevier.
- Eddiyanto. (2007). *Functionalisation of polymers: reactive processing, structure and performance characteristics*. Aston University.
- Epp, J. (2016). X-ray diffraction (XRD) techniques for materials characterization. In *Materials Characterization Using Nondestructive Evaluation (NDE) Methods* (pp. 81–124). Elsevier.
- Erdogan, N., & Eken, H. A. (2017). Precipitated calcium carbonate production, synthesis and properties. *Physicochemical Problems of Mineral Processing*, 53(1), 57–68.
- Essabir, H., Raji, M., Bouhfid, R., & Qaiss, A. el kacem. (2022). Rheology and crystallization of polymer nanocomposites. In *Advanced Polymer Nanocomposites* (pp. 29–47). Woodhead Publishing.
- Girão, A. V., Caputo, G., & Ferro, M. C. (2017). Application of scanning electron microscopy–energy dispersive x-ray spectroscopy (SEM-EDS). In *Comprehensive Analytical Chemistry* (Vol. 75, pp. 153–168). Elsevier.
- Harb, S. V., Trentin, A., Uvida, M. C., & Hammer, P. (2020). Advanced organic nanocomposite coatings for effective corrosion protection. In *Corrosion Protection at the Nanoscale* (pp. 315–343). Elsevier.
- Hashim, A. S., & Ong, S. K. (2017). Natural rubber and its derivatives. In *Elastomers* (pp. 159–187). IntechOpen.
- Hayes, D. G. (2017). Fatty acids–based surfactants and their uses. In *Fatty Acids Chemistry, Synthesis, and Applications* (pp. 355–384). AOCS Press.
- Italiane, R. (2020). Resiprene 35. <http://www.resineitaliane.com/en/prodotto/resiprene-35/> [Diakses tgl 8 Maret 2020].
- Iwashita, N. (2016). X-ray powder diffraction. In *Materials Science and Engineering of Carbon* (pp. 7–25). Butterworth-Heinemann.
- Izgin, O., Aydin, M., & Arsu, N. (2013). Preparation of nanocoatings in the presence of precipitated CaCO₃ fillers by UV-curing. *Progress in Organic Coatings*, 76(6), 950–954.
- Jamarun, N., Juita, R., & Rahayuningsih, J. (2015). Synthesis and characterizations precipitated calcium carbonate from shell crust (*Anadara granosa*). *Research Journal of Pharmaceutical Biological and Chemical*

Sciences, 6(5), 136–140.

- Jeon, C. W., Park, S., Bang, J. H., Chae, S., Song, K., & Lee, S. W. (2018). Nonpolar surface modification using fatty acids and its effect on calcite from mineral carbonation of desulfurized gypsum. *Coatings*, 8(1), 43.
- Jeon, H. J., & Kim, M. N. (2014). Degradation of linear low density polyethylene (LLDPE) exposed to UV-irradiation. *European Polymer Journal*, 52, 146–153.
- Jia, S., Zhu, Y., Wang, Z., Chen, L., & Fu, L. (2015). Influences of PP-g-MA on the surface free energy, morphologies and mechanical properties of thermoplastic polyurethane/polypropylene blends. *Journal of Polymer Research*, 22(8), 1–10.
- Jimoh, O. A., Otitoju, T. A., Hussin, H., Ariffin, K. S., & Baharun, N. (2017). Understanding the precipitated calcium carbonate (PCC) production mechanism and its characteristics in the liquid–gas system using milk of lime (MOL) suspension. *South African Journal of Chemistry*, 70, 1–7.
- Johannes, K. (2013). Grafting. In *Reactive Polymers: Fundamentals and Applications* (pp. 425–452). William Andrew.
- Kaewsakul, W., Noordermeer, J. W. M., Sahakaro, K., Sengloyluan, K., Saramolee, P., Dierkes, W. K., & Blume, A. (2021). Natural rubber and epoxidized natural rubber in combination with silica fillers for low rolling resistance tires. In *Chemistry, Manufacture, and Application of Natural Rubber* (pp. 247–316). Woodhead Publishing.
- Khanam, P. N., & Al-Maadeed, M. A. A. (2015). Processing and characterization of polyethylene-based composites. *Advanced Manufacturing: Polymer & Composites Science*, 1(2), 63–79.
- Kilic, O. (2015). Cycle of limestone-lime and precipitated calcium carbonates. *12th Mining and Geotechnology Scientific Conference*, 44, 1–5.
- Kim, J., Bea, S. K., Kim, Y. H., Kim, D. W., Lee, K. Y., & Lee, C. M. (2015). Improved suspension stability of calcium carbonate nanoparticles by surface modification with oleic acid and phospholipid. *Biotechnology and Bioprocess Engineering*, 20(4), 794–799.
- Kirboga, S., & Oner, M. (2013). Effect of the experimental parameters on calcium carbonate precipitation. *Chemical Engineering Transactions*, 32(1), 2119–2124.
- Kissin, Y. V. (2020). End-use testing of LLDPE film; extractables, solubles, blocking, and haze. In *Polyethylene* (pp. 159–168). Hanser.
- Kohjiya, S., & Ikeda, Y. (2021). A Short History of Natural Rubber Research. In *Chemistry, Manufacture, and Application of Natural Rubber* (Second, pp. 407–427). Woodhead Publishing.
- Kumar, D. V. R., Seenappa, Asha, P. B., & Rao, C. R. P. (2018). Influence of percent filler on tensile strength, impact strength and wear properties of the Al7075-cenosphere composite. *Materials Today: Proceedings*, 5(5 Part 2), 11697–11708.

- Lapčík, L., Mañas, D., Vašina, M., Lapčíková, B., Řezníček, M., & Zádrapa, P. (2017). High density poly (ethylene)/CaCO₃ hollow spheres composites for technical applications. *Composites Part B: Engineering*, *113*, 218–224.
- Lima, M. S., Matias, Á. A., Costa, J. R. C., Fonseca, A. C., Coelho, J. F. J., & Serra, A. C. (2019). Glycidyl methacrylate-based copolymers as new compatibilizers for polypropylene/polyethylene terephthalate blends. *Journal of Polymer Research*, *26*(6), 127.
- Lin, Y., & Chan, C.-M. (2012). Calcium carbonate nanocomposites. In *Advances in Polymer Nanocomposites* (pp. 55–90). Elsevier.
- Liu, M., Liu, Z., Ding, S., Li, S., & Zhang, L. (2003). Graft copolymerization of oleic acid onto low-density polyethylene in the molten state. *Journal of Applied Polymer Science*, *90*(12), 3299–3304.
- Lourenço, A. F., Gamelas, J. A. F., & Ferreira, P. J. (2015). Precipitated calcium carbonate modified by the layer-by-layer deposition method—its potential as papermaking filler. *Chemical Engineering Research and Design*, *104*, 807–813.
- Luo, Z., Wang, Y., Jiang, L., & Xu, X. (2015). Effect of nano-CaCO₃-LDPE packaging on quality and browning of fresh-cut yam. *LWT-Food Science and Technology*, *60*(2), 1155–1161.
- Mahendra, I. P., Wirjosentono, B., Tamrin, Ismail, H., Mendez, J. A., & Causin, V. (2019). The influence of maleic anhydride-grafted polymers as compatibilizer on the properties of polypropylene and cyclic natural rubber blends. *Journal of Polymer Research*, *26*(9), 215.
- Mantia, F. P. La, Morreale, M., Scaffaro, R., & Tulone, S. (2013). Precipitated calcium carbonate/poly (methyl methacrylate) nanocomposite using dolomite: synthesis, characterization and properties. *Journal of Applied Polymer Science*, *127*(4), 2544–2552.
- Mantilaka, M., Karunaratne, D., Rajapakse, R. M. G., & Pitawala, H. (2013). Precipitated calcium carbonate/poly (methyl methacrylate) nanocomposite using dolomite: synthesis, characterization and properties. *Powder Technology*, *235*, 628–632.
- Martín, R. M., Rogerson, M., Prior, T. J., Brasier, A. T., Reijmer, J. J. G., Billing, I., Matthews, A., Love, T., Lepley, S., & Pedley, M. (2021). Towards a morphology diagram for terrestrial carbonates: Evaluating the impact of carbonate supersaturation and alginic acid in calcite precipitate morphology. *Geochimica et Cosmochimica Acta*, *306*, 340–361.
- Masruroh, A. B. M., Titus, L., & Rachmat, T. T. (2013). Penentuan ukuran kristal (crystallite size) lapisan tipis PZT dengan metode XRD melalui pendekatan persamaan Debye Scherrer. *Journal of Educational Innovation*, *1*(2), 24–29.
- McKeen, L. W. (2013). Introduction to the physical, mechanical, and thermal properties of plastics and elastomers. In *The Effect of Long Term Thermal Exposure On Plastics and Elastomers* (pp. 35–64). William Andrew.

- McKeen, L. W. (2016). Binder. In *Fluorinated Coatings and Finishes Handbook* (pp. 59–82). William Andrew.
- Meilianti, M. (2018). Isolasi kalsium oksida (CaO) pada cangkang sotong (cuttlefish) dengan proses kalsinasi menggunakan asam nitrat dalam pembuatan precipitated calcium carbonate (PCC). *Jurnal Distilasi*, 2(1), 1–8.
- Melo, P. M. A., Macêdo, O. B., Barbosa, G. P., Ueki, M. M., & Silva, L. B. (2019). High-density polyethylene/mollusk shell-waste composites: effects of particle size and coupling agent on morphology, mechanical and thermal properties. *Journal of Materials Research and Technology*, 8(2), 1915–1925.
- Mora, E., & Selpas, N. (2013). Isolasi dan karakterisasi asam oleat dari kulit buah kelapa sawit (*Elais guinensis* Jacq.). *Penelitian Farmasi Indonesia*, 1(2), 47–51.
- Na, Y., Dai, S., & Chen, C. (2018). Direct synthesis of polar-functionalized linear low-density polyethylene (LLDPE) and low-density polyethylene (LDPE). *Macromolecules*, 51(11), 4040–4048.
- Niu, S., Zhou, Y., Yu, H., Lu, C., & Han, K. (2017). Investigation on thermal degradation properties of oleic acid and its methyl and ethyl esters through TG-FTIR. *Energy Conversion and Management*, 149, 495–504.
- Oliveira, A. G. de, Moreno, J. F., de Sousa, A. M. F., Escócio, V. A., de Oliveira Cavalcanti Guimarães, M. J., & da Silva, A. L. N. (2019). Composites based on high-density polyethylene, polylactide and calcium carbonate: effect of calcium carbonate nanoparticles as co-compatibilizers. *Polymer Bulletin*, 77(6), 2889–2904.
- Oskooie, A. J., Aghjeh, M. K. R., Rafeie, O., & Tavakoli, A. (2017). Composition and compatibilization induced morphology alteration in PVDF/LLDPE blends: correlation between rheology and morphology. *Journal of Polymer Research*, 24(2), 21.
- Ouarhim, W., Hassani, F.-Z. S. A., & Bouhfid, R. (2020). Rheology of Polymer Nanocomposites. In *Rheology of Polymer Blends and Nanocomposites* (pp. 73–96). Elsevier.
- Pang, A. L., Ismail, H., & Abu Bakar, A. (2018a). Mechanical, morphological, and thermal properties of kenaf filled linear low-density polyethylene/poly (vinyl alcohol) composites: Effect of chemical treatment. *Journal of Vinyl and Additive Technology*, 24, 164–171.
- Pang, A. L., Ismail, H., & Bakar, A. A. (2018b). Linear low density polyethylene/poly (vinyl alcohol)/kenaf composites: Effect of natural weathering on functional group, weight loss characteristics, tensile, morphological and thermal properties. *Sains Malays*, 47(3), 571–580.
- Pang, A. L., Ismail, H., & Bakar, A. A. (2020). Effect of lysine treatment on the properties of linear low-density polyethylene/poly (vinyl alcohol)/kenaf composites. *BioResources*, 15(1), 1915–1926.

- Passador, R., Ruvolo-Filho, F. C., Pessan, A., & Antonio, L. (2016). Structural, thermal, and gas transport properties of HDPE/LLDPE blend-based nanocomposites using a mixture of HDPE-g-MA and LLDPE-g-MA as compatibilizer. *Polymer Engineering & Science*, 56(7), 765–775.
- Patel, R. M. (2016). Polyethylene. In J. R. W. Jr. (Ed.), *Multilayer Flexible Packaging* (pp. 17–34). William Andrew.
- Phinyocheep, P. (2014). Chemical modification of natural rubber (NR) for Improved Performance. In *Chemistry, Manufacture and Applications of Natural Rubber* (pp. 68–118). Woodhead Publishing.
- Popov, B. N. (2015). Organic Coatings. In B. N. Popov (Ed.), *Corrosion Engineering: Principles and Solved Problems* (pp. 557–579). Elsevier.
- Pradittham, A., Charitngam, N., Puttajan, S., Atong, D., & Pechyen, C. (2014). Surface modified CaCO₃ by palmitic acid as nucleating agents for polypropylene film: mechanical, thermal and physical properties. *Energy Procedia*, 56, 264–273.
- Rahmawati, L., Amri, A., Zultiniar, Z., & Yelmida, Y. (2015). sintesa precipitated calcium carbonate (PCC) dari cangkang kerang darah (anadara granosa) dengan variasi ukuran partikel dan waktu karbonasi. *Jurnal Online Mahasiswa Fakultas Teknik Universitas Riau*, 2(2), 1–7.
- Ramakrishna, C., Thenepalli, T., & Ahn, J. W. (2017). A brief review of aragonite precipitated calcium carbonate (PCC) synthesis methods and its applications. *Korean Chemical Engineering Research*, 55(4), 443–455.
- Ritonga, A. H., Aritonang, B., & Faisal, H. (2019). Modifikasi karet alam siklis dan maleat anhidrat dengan adanya penambahan bentonit-cetil trimetil amonium bromida (CTAB) menggunakan inisiator benzoil peroksida. *Prosiding Seminar Nasional Kimia 2018*, 1(1), 1–8.
- Ritonga, A. H., Aritonang, B., & Zai, L. I. P. (2018). Modifikasi kopolimer karet alam siklis grafting asam oleat menggunakan inisiator benzoil peroksida dan bahan pengisi bentonit-cetil trimetil amonium bromida. *Jurnal Kimia Mulawarman*, 16(1), 42–48.
- Ronca, S. (2017). Polyethylene. In *Brydson's Plastics Materials* (pp. 247–278). Butterworth-Heinemann.
- Rubin. (2020). Resiprene 35. PT. Industri Karet Nusantara. <http://www.ikn.co.id/uploads/Brochure-Resiprene.pdf> [Diakses tgl 8 Maret 2020].
- Sastrohamidjojo, H. (2018). Dasar-Dasar Spektroskopi. Gadjah Mada University Press. 264 hal.
- Savas, L. A., Tayfun, U., & Dogan, M. (2016). The use of polyethylene copolymers as compatibilizers in carbon fiber reinforced high density polyethylene composites. *Composites Part B: Engineering*, 99, 188–195.
- Schweitzer, J. (2014). Scanning Electron Microscope. Purdue University, Radiological and Environmental Management.

- Setiorini, I. A. (2017). Sifat kuat tarik dan morfologi termoplastik elastomer dari komposit polypropylene & natural rubber. *Jurnal Teknik Patra Akademika*, 8(01), 42–54.
- Sezer, N., & Arol, A. I. (2014). Production of precipitated calcium carbonate from marble wastes. *Proceedings of 14th International Mineral Processing Symposium*, 1(1), 611–618.
- Singh, A. P., Dwivedi, R. K., Kumar, R., Agarwal, A., & Suhane, A. (2022). Study of oleic acid as a surface modifying agent for oxide nanoparticles. *Materials Today: Proceedings*, 62(1), 1–10.
- Siregar, M. S., & Syaputra, I. R. (2015). Grafting maleat anhidrat pada karet alam siklis (cyclic natural rubber/CNR) dengan inisiator dicumyl peroksida. *Agrium*, 17(2), 128–133.
- Siregar, M. S., Tamrin, & Basuki, W. S. (2015). Modifikasi karet alam siklis (cyclic natural rubber/CNR) dengan teknik grafting: menggunakan monomer metil metakrilat dan inisiator benzoil peroksida. *Agrium: Jurnal Ilmu Pertanian*, 17(3), 172–175.
- Siregar, M. S., Thamrin, Wirjosentono, B., Eddiyanto, & Mendez, J. A. (2014). Grafting of maleic anhydride onto cyclized natural rubber by reactive processing : The effect of maleic anhydride concentrations. *Chemistry and Material Research*, 6(11), 15–21.
- Sisca, V., Deska, A., Syukri, S., Zilfa, Z., & Jamarun, N. (2021a). Synthesis and characterization of CaO limestone from lintau buo supported by TiO₂ as a heterogeneous catalyst in the production of biodiesel. *Indonesian Journal of Chemistry*, 21(4), 979–989.
- Sisca, V., Tanjung, D. A., Syukri, S., Zilfa, Z., & Jamarun, N. (2021b). Catalytic activity of precipitated calcium carbonate for biodiesel production. *Rasayan Journal of Chemistry*, 14(3), 1587–1593.
- Sitanggang, B. C., & Eddyanto, E. (2019). Functionalization of cyclic natural rubber grafted maleic anhydride (CNR-g-MA) with variation of MA concentration, inisiator and reaction time. *Jurnal Pendidikan Kimia*, 11(3), 87–94.
- Smallman, R. E., & Ngan, A. H. W. (2014). Characterization and analysis. In *Modern Physical Metallurgy* (pp. 159–250). Butterworth-Heinemann.
- Streitberger, H.-J., & Goldschmidt, A. (2018). Coating Technology. In *BASF Handbook Basics of Coating Technology* (pp. 439–611). European Coatings.
- Tanzi, M. C., Farè, S., & Candiani, G. (2019). Techniques of analysis. In *Foundations of biomaterials engineering* (pp. 393–469). Academic Press.
- Tariq, A., Afzal, A., Rashid, I. A., & Shakir, M. F. (2020). Study of thermal, morphological, barrier and viscoelastic properties of PP grafted with maleic anhydride (PP-g-MAH) and PET blends. *Journal of Polymer Research*, 27(10), 1–10.

- Taufik, D., Wahyudi, K., & Hernawan, H. (2017). Sintesis precipitated calcium carbonated dengan asam stearat sebagai pengubah permukaan. *Jurnal Keramik Dan Gelas Indonesia*, 26(2), 87–95.
- Tirth, V., Ghorri, S. W., & Gupta, P. (2022). 1 - Fundamentals of polymer nanocomposites. In *Advanced Polymer Nanocomposites* (pp. 3–27). Woodhead Publishing.
- Tolinski, M. (2015). Coupling and compatibilizing. In *Additives For Polyolefins* (pp. 153–158). William Andrew.
- Tomić, N. Z., & Marinković, A. D. (2020). Compatibilization of polymer blends by the addition of graft copolymers. In *Compatibilization of Polymer Blends* (pp. 103–144). Elsevier.
- Vipulanandan, C., & Liu, J. (2018). Polymer coatings for concrete surfaces: testing and modeling. In *Handbook of Environmental Degradation of Materials* (pp. 621–653). William Andrew.
- Widiarti, L., Wirjosentono, B., & Eddyanto (2017). Thermal and solubility properties of cyclic liquid natural rubber. *Jurnal Kimia Mulawarman*, 14(2), 139–143.
- Wirjosentono, B., Mahendra, I. P., Nasution, D. Y., Ismail, H., & Mendez, J. A. (2018a). Compatibility and wettability of polypropylene-cyclic natural rubber-nanocrystal cellulose nanocomposites containing methacrylic acid and methylacrylate as coagents. *Journal of Physics: Conference Series*, 1120(1), 12087.
- Wirjosentono, B., Tamrin, Siregar, A. H., Nasution, T. I., Dalimunthe, K. Z., & Nasution, D. A. (2018b). Compatibilization of cyclic natural rubber (resiprene-35) with polypropylene in the presence of oleic acid and benzoyl peroxide. *Journal of Physics: Conference Series*, 1116(4), 042043.
- Wong, A. C. Y., & Wong, A. C. M. (2018). Extrudate swell ratio characteristics of CaCO₃ added linear low density polyethylene. *Polymer Testing*, 71, 262–271.
- Wypych, G. (2016). LLDPE linear low density polyethylene. In *Handbook of Polymers* (pp. 185–189). ChemTec Publishing.
- Xie, X.-M., & Sui, X. (2020). Compatibilization of polymer blends by the addition of random copolymers. In *Compatibilization of Polymer Blends* (pp. 145–177). Elsevier.
- Xu, Z., Mu, M., Fan, Y., Fang, Y., & Zhang, Y. (2022). Silicon-hybrid ionic liquid surfactant derived from natural oleic acid: Synthesis and properties of an aqueous solution. *Journal of Molecular Liquids*, 349, 118453.
- Yong, M. Y., Ang, D. T. C., & Sarih, N. M. (2019). Novel natural rubber-based epoxy coating. *Progress in Organic Coatings*, 135, 105–113.
- Yuan, C. L., Xu, Z. Z., Fan, M. X., Liu, H. Y., Xie, Y. H., & Zhu, T. (2014). Study on characteristics and harm of surfactants. *Journal of Chemical and Pharmaceutical Research*, 6(7), 2233–2237.

Zapata, P. A., Palza, H., Díaz, B., Armijo, A., Sepúlveda, F., Ortiz, J. A., Ramírez, M. P., & Oyarzún, C. (2019). Effect of CaCO₃ nanoparticles on the mechanical and photo-degradation properties of LDPE. *Molecules*, 24(1), 126.

