

DAFTAR PUSTAKA

- Abbas, B., Giat Sukaryo, S., & Ria Barleany, D. (2015). SYNTHESIS AND CHARACTERIZATION SUPERABSORBENT HYDROGELS OF PARTIALLY NEUTRALIZED ACRYLIC ACID PREPARED USING GAMMA IRRADIATION; SWELLING AND THERMAL BEHAVIOR. Dalam *Indones. J. Chem* (Vol. 15, Nomor 3).
- Abbaspour, M., Makhmalzadeh, B., Rezaee, B., Shoja, S., & Ahangari, Z. (2015). Evaluation of the Antimicrobial Effect of Chitosan/Polyvinyl Alcohol Electrospun Nanofibers Containing Mafenide Acetate. *Jundishapur Journal of Microbiology*, 8(10).
- Abdelazim, E. B., Abed, T., Goher, S. S., Alya, S. H., El-Nashar, H. A. S., EL-Moslamy, S. H., El-Fakharany, E. M., Abdul-Baki, E. A., Shakweer, M. M., Eissa, N. G., Elsabahy, M., & Kamoun, E. A. (2024). In vitro and in vivo studies of Syzygium cumini-loaded electrospun PLGA/PMMA/collagen nanofibers for accelerating topical wound healing. *RSC Advances*, 14(1), 101–117. <https://doi.org/10.1039/D3RA06355K>
- Abourehab, M. A. S., Rajendran, R. R., Singh, A., Pramanik, S., Shrivastav, P., Ansari, M. J., Manne, R., Amaral, L. S., & Deepak, A. (2022). Alginate as a Promising Biopolymer in Drug Delivery and Wound Healing: A Review of the State-of-the-Art. Dalam *International Journal of Molecular Sciences* (Vol. 23, Nomor 16). MDPI. <https://doi.org/10.3390/ijms23169035>
- Akbarpour, A., Rahimnejad, M., Sadeghi-Aghbash, M., & Feizi, F. (2024). Poly(vinyl alcohol) /Alginate nanofibrous mats containing Malva Sylvestris extract: Synthesis, characterization, in vitro and in vivo assessments for burn wound applications. *International Journal of Pharmaceutics*, 654. <https://doi.org/10.1016/j.ijpharm.2024.123928>
- Anand, S., Pandey, P., Begum, M. Y., Chidambaram, K., Arya, D. K., Gupta, R. K., Sankhwar, R., Jaiswal, S., Thakur, S., & Rajinikanth, P. S. (2022). Electrospun Biomimetic Multifunctional Nanofibers Loaded with Ferulic Acid for Enhanced Antimicrobial and Wound-Healing Activities in STZ-Induced Diabetic Rats. *Pharmaceutics*, 15(3). <https://doi.org/10.3390/ph15030302>
- Aslam, M., Kalyar, M. A., & Raza, Z. A. (2018). Polyvinyl alcohol: A review of research status and use of polyvinyl alcohol based nanocomposites. *Polymer Engineering & Science*, 58(12), 2119–2132. <https://doi.org/https://doi.org/10.1002/pen.24855>
- Awada, H., & Daneault, C. (2015). Chemical modification of poly(vinyl alcohol) in water. *Applied Sciences (Switzerland)*, 5(4), 840–850. <https://doi.org/10.3390/app5040840>
- Bazmandeh, A. Z., Mirzaei, E., Fadaie, M., Shirian, S., & Ghasemi, Y. (2020). Dual spinneret electrospun nanofibrous/gel structure of chitosan-gelatin/chitosan-hyaluronic acid as a wound dressing: In-vitro and in-vivo studies. *International Journal of Biological Macromolecules*, 162, 359–373. <https://doi.org/https://doi.org/10.1016/j.ijbiomac.2020.06.181>

- Bhattarai, R. S., Bachu, R. D., Boddu, S. H. S., & Bhaduri, S. (2019). Biomedical applications of electrospun nanofibers: Drug and nanoparticle delivery. Dalam *Pharmaceutics* (Vol. 11, Nomor 1). MDPI AG. <https://doi.org/10.3390/pharmaceutics11010005>
- Bouhadir, K. H., Lee, K. Y., Alsberg, E., Damm, K. L., Anderson, K. W., & Mooney, D. J. (2001). Degradation of partially oxidized alginate and its potential application for tissue engineering. *Biotechnology Progress*, 17(5), 945–950. <https://doi.org/10.1021/bp010070p>
- Brinkmann, V., Reichard, U., Goosmann, C., Fauler, B., Uhlemann, Y., Weiss, D. S., Weinrauch, Y., & Zychlinsky, A. (2004). Neutrophil Extracellular Traps Kill Bacteria. *Science*, 303(5663), 1532–1535. <https://doi.org/10.1126/science.1092385>
- Burgess, M., Valdera, F., Varon, D., Kankuri, E., & Nuutila, K. (2022). The Immune and Regenerative Response to Burn Injury. *Cells*, 11(19). <https://doi.org/10.3390/cells11193073>
- Cao, X., Chen, W., Zhao, P., Yang, Y., & Yu, D.-G. (2022). Electrospun Porous Nanofibers: Pore-Forming Mechanisms and Applications for Photocatalytic Degradation of Organic Pollutants in Wastewater. *Polymers*, 14(19). <https://doi.org/10.3390/polym14193990>
- Chen, M., Tian, J., Liu, Y., Cao, H., Li, R., Wang, J., Wu, J., & Zhang, Q. (2019). Dynamic covalent constructed self-healing hydrogel for sequential delivery of antibacterial agent and growth factor in wound healing. *Chemical Engineering Journal*, 373, 413–424. <https://doi.org/https://doi.org/10.1016/j.cej.2019.05.043>
- Cheng, K. C. K., Bedolla-Pantoja, M. A., Kim, Y.-K., Gregory, J. V., Xie, F., de France, A., Hussal, C., Sun, K., Abbott, N. L., & Lahann, J. (2018). Templated nanofiber synthesis via chemical vapor polymerization into liquid crystalline films. *Science*, 362(6416), 804–808. <https://doi.org/10.1126/science.aar8449>
- Choudhary, O. P., & Priyanka. (2017). Scanning Electron Microscope: Advantages and Disadvantages in Imaging Components. *International Journal of Current Microbiology and Applied Sciences*, 6(5), 1877–1882. <https://doi.org/10.20546/ijcmas.2017.605.207>
- Christanti, Y., & Walker, L. M. (2001). Surface tension driven jet break up of strain-hardening polymer solutions. *Journal of Non-Newtonian Fluid Mechanics*, 100(1–3), 9–26.
- Christie, C. D., Dewi, R., Pardede, S. O., & Wardhana, A. (2018). Pediatric Burn Injury Characteristics and Causes of Death. *Kedokteran UKI: XXXIV*, 3.
- Coleman, M. M., & Painter, P. C. (1995). Hydrogen bonded polymer blends. *Progress in Polymer Science*, 20(1), 1–59. [https://doi.org/https://doi.org/10.1016/0079-6700\(94\)00038-4](https://doi.org/https://doi.org/10.1016/0079-6700(94)00038-4)
- Cutting, K. F. (2003). Wound exudate: composition and functions. *British journal of community nursing*, 8(9), 4–9.
- Dessy Abdullah, Budi Febrianto, Nadia Dewi, Ade Vani, & Fitria Ulfah. (2022). The Effectiveness of 80% Kefir Gel Against The Overview The Number of Fibroblasts in Healing Cuts Mice (Mus Musculus). *Jurnal Kesehatan Prima*,

- 16, 18–24. <https://jkip.poltekkes-mataram.ac.id/index.php/home/article/view/748>
- Duan, H., Chen, H., Qi, C., Lv, F., Wang, J., Liu, Y., Liu, Z., & Liu, Y. (2024). A novel electrospun nanofiber system with PEGylated paclitaxel nanocrystals enhancing the transmucous permeability and in situ retention for an efficient cervicovaginal cancer therapy. *International Journal of Pharmaceutics*, 650, 123660. <https://doi.org/https://doi.org/10.1016/j.ijpharm.2023.123660>
- Ebrahimi, F., Sadeghizadeh, A., Neysan, F., & Heydari, M. (2019). Fabrication of nanofibers using sodium alginate and Poly(Vinyl alcohol) for the removal of Cd²⁺ ions from aqueous solutions: adsorption mechanism, kinetics and thermodynamics. *Heliyon*, 5(11), e02941. <https://doi.org/https://doi.org/10.1016/j.heliyon.2019.e02941>
- Fadlelmoula, A., Pinho, D., Carvalho, V. H., Catarino, S. O., & Minas, G. (2022). Fourier Transform Infrared (FTIR) Spectroscopy to Analyse Human Blood over the Last 20 Years: A Review towards Lab-on-a-Chip Devices. Dalam *Micromachines* (Vol. 13, Nomor 2). MDPI. <https://doi.org/10.3390/mi13020187>
- Fahimirad, S., Satei, P., Latifi, A., Changizi-Ashtiyani, S., Bahrami, M., & Abtahi, H. (2024). Electrospun PCL/PVA/PHMB nanofibers incorporating Ziziphus jujuba fruit extract as promising wound dressings with potent antibacterial and antidiabetic properties. *Journal of Biomaterials Science, Polymer Edition*, 35(16), 2484–2505. <https://doi.org/10.1080/09205063.2024.2384299>
- Fenglan, X., Yubao, L., Xuejiang, W., Jie, W., & Aiping, Y. (2004). Preparation and characterization of nano-hydroxyapatite/poly(vinyl alcohol) hydrogel biocomposite. *Journal of Materials Science*, 39(18), 5669–5672. <https://doi.org/10.1023/B:JMSC.0000040074.64787.b3>
- Fu, R., Li, C., Yu, C., Xie, H., Shi, S., Li, Z., Wang, Q., & Lu, L. (2016). A novel electrospun membrane based on moxifloxacin hydrochloride/poly(vinyl alcohol)/sodium alginate for antibacterial wound dressings in practical application. *Drug Delivery*, 23(3), 828–839. <https://doi.org/10.3109/10717544.2014.918676>
- Garcia-Orue, I., Gainza, G., Gutierrez, F. B., Aguirre, J. J., Evora, C., Pedraz, J. L., Hernandez, R. M., Delgado, A., & Igartua, M. (2017). Novel nanofibrous dressings containing rhEGF and Aloe vera for wound healing applications. *International Journal of Pharmaceutics*, 523(2), 556–566. <https://doi.org/https://doi.org/10.1016/j.ijpharm.2016.11.006>
- Grandgirard, J., Poinot, D., Krespi, L., Nénon, J.-P., & Cortesero, A.-M. (2002). Costs of secondary parasitism in the facultative hyperparasitoid *Pachycrepoideus dubius*: does host size matter? *Entomologia Experimentalis et Applicata*, 103(3), 239–248. <https://doi.org/https://doi.org/10.1046/j.1570-7458.2002.00982.x>
- Guo, X., Xiu, F., Bera, H., Abbasi, Y. F., Chen, Y., Si, L., Liu, P., Zhao, C., Tang, X., Feng, Y., Cun, D., Zhao, X., & Yang, M. (2023). 20(R)-ginsenoside Rg3-loaded polyurethane/marine polysaccharide based nanofiber dressings improved burn wound healing potentials. *Carbohydrate Polymers*, 317, 121085. <https://doi.org/https://doi.org/10.1016/j.carbpol.2023.121085>

- Gupta, P., Elkins, C., Long, T. E., & Wilkes, G. L. (2005). Electrospinning of linear homopolymers of poly (methyl methacrylate): exploring relationships between fiber formation, viscosity, molecular weight and concentration in a good solvent. *Polymer*, *46*(13), 4799–4810.
- Hadisi, Z., Nourmohammadi, J., & Nassiri, S. M. (2018). The antibacterial and anti-inflammatory investigation of Lawsonia Inermis-gelatin-starch nano-fibrous dressing in burn wound. *International Journal of Biological Macromolecules*, *107*, 2008–2019. <https://doi.org/https://doi.org/10.1016/j.ijbiomac.2017.10.061>
- Hallett, J. P., & Welton, T. (2011). Room-Temperature Ionic Liquids: Solvents for Synthesis and Catalysis. 2. *Chemical Reviews*, *111*(5), 3508–3576. <https://doi.org/10.1021/cr1003248>
- Homaeigohar, S., & Boccaccini, A. R. (2020). Antibacterial biohybrid nanofibers for wound dressings. *Acta Biomaterialia*, *107*, 25–49. <https://doi.org/https://doi.org/10.1016/j.actbio.2020.02.022>
- Homayouni, A., Ehsani, M., Azizi, A., Yarmand, M. s, & Razavi, S. (2007). Effect of lecithin and calcium chloride solution on the Microencapsulation process yield of calcium alginate beads. *Iranian Polymer Journal*, *16*, 597–606.
- Hooi, M. T., Phang, S. W., Yow, H. Y., David, E., Kim, N. X., & Choo, H. L. (2021). FTIR spectroscopy characterization and critical comparison of poly(vinyl)alcohol and natural hydroxyapatite derived from fish bone composite for bone-scaffold. *Journal of Physics: Conference Series*, *2120*(1). <https://doi.org/10.1088/1742-6596/2120/1/012004>
- Hsieh, C. T., Lou, C. W., Pan, Y. J., Huang, C. L., Lin, J. H., Lin, Z. I., Chen, Y. S., & Chiang, K. C. (2016). Fabrication of poly(vinyl alcohol) nanofibers by wire electrode-incorporated electrospinning. *Fibers and Polymers*, *17*(8), 1217–1226. <https://doi.org/10.1007/s12221-016-6370-6>
- Huang, Z.-M., Zhang, Y.-Z., Kotaki, M., & Ramakrishna, S. (2003). A review on polymer nanofibers by electrospinning and their applications in nanocomposites. *Composites Science and Technology*, *63*(15), 2223–2253. [https://doi.org/https://doi.org/10.1016/S0266-3538\(03\)00178-7](https://doi.org/https://doi.org/10.1016/S0266-3538(03)00178-7)
- Islam, Md. S., & Karim, M. R. (2010). Fabrication and characterization of poly(vinyl alcohol)/alginate blend nanofibers by electrospinning method. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, *366*(1), 135–140. <https://doi.org/https://doi.org/10.1016/j.colsurfa.2010.05.038>
- Jeong, H. G., Kim, Y. E., & Kim, Y. J. (2013). Fabrication of poly(vinyl acetate)/polysaccharide biocomposite nanofibrous membranes for tissue engineering. *Macromolecular Research*, *21*(11), 1233–1240. <https://doi.org/10.1007/s13233-013-1155-x>
- Kamoun, E. A., Loutfy, S. A., Hussein, Y., & Kenawy, E.-R. S. (2021). Recent advances in PVA-polysaccharide based hydrogels and electrospun nanofibers in biomedical applications: A review. *International Journal of Biological Macromolecules*, *187*, 755–768. <https://doi.org/https://doi.org/10.1016/j.ijbiomac.2021.08.002>
- Khajavi, R., & Damerchely, R. (2007). Effect of polyvinyl alcohol concentration in spinning dope on diameter, beads and HHS of produced nanofibers. *Pakistan*

- Journal of Biological Sciences*, 10(2), 314–317.
<https://doi.org/10.3923/pjbs.2007.314.317>
- Khan, M. U. A., Razak, S. I. A., Haider, S., Mannan, H. A., Hussain, J., & Hasan, A. (2022). Sodium alginate-f-GO composite hydrogels for tissue regeneration and antitumor applications. *International Journal of Biological Macromolecules*, 208, 475–485.
<https://doi.org/https://doi.org/10.1016/j.ijbiomac.2022.03.091>
- Liang, X., Zhong, H. J., Ding, H., Yu, B., Ma, X., Liu, X., Chong, C. M., & He, J. (2024). Polyvinyl Alcohol (PVA)-Based Hydrogels: Recent Progress in Fabrication, Properties, and Multifunctional Applications. Dalam *Polymers* (Vol. 16, Nomor 19). Multidisciplinary Digital Publishing Institute (MDPI).
<https://doi.org/10.3390/polym16192755>
- Lin, K., Chua, K.-N., Christopherson, G. T., Lim, S., & Mao, H.-Q. (2007). Reducing electrospun nanofiber diameter and variability using cationic amphiphiles. *Polymer*, 48(21), 6384–6394.
<https://doi.org/https://doi.org/10.1016/j.polymer.2007.08.056>
- Lin, T., Wang, H., Wang, H., & Wang, X. (2004). The charge effect of cationic surfactants on the elimination of fibre beads in the electrospinning of polystyrene. *Nanotechnology*, 15(9), 1375–1381.
<https://doi.org/10.1088/0957-4484/15/9/044>
- Lin, W.-C., Yu, D.-G., & Yang, M.-C. (2006). Blood compatibility of novel poly(γ -glutamic acid)/polyvinyl alcohol hydrogels. *Colloids and Surfaces B: Biointerfaces*, 47(1), 43–49.
<https://doi.org/https://doi.org/10.1016/j.colsurfb.2005.11.013>
- Liu, Y., Li, T., Han, Y., Li, F., & Liu, Y. (2021). Recent development of electrospun wound dressing. *Current Opinion in Biomedical Engineering*, 17, 100247.
<https://doi.org/https://doi.org/10.1016/j.cobme.2020.100247>
- Liu, Y., Zhou, S., Gao, Y., & Zhai, Y. (2019). Electrospun nanofibers as a wound dressing for treating diabetic foot ulcer. *Asian Journal of Pharmaceutical Sciences*, 14(2), 130–143.
<https://doi.org/https://doi.org/10.1016/j.ajps.2018.04.004>
- Lou, L., Osemwegie, O., & Ramkumar, S. S. (2020). Functional Nanofibers and Their Applications. *Industrial & Engineering Chemistry Research*, 59(13), 5439–5455. <https://doi.org/10.1021/acs.iecr.9b07066>
- Manaila, E., Craciun, G., & Calina, I. C. (2023). Sodium Alginate-g-acrylamide/acrylic Acid Hydrogels Obtained by Electron Beam Irradiation for Soil Conditioning. *International Journal of Molecular Sciences*, 24(1).
<https://doi.org/10.3390/ijms24010104>
- Mcnesby, K., & Pesce-Rodriguez, R. (2006). *Handbook of Vibrational Spectroscopy*. <https://doi.org/10.1002/0470027320.s7208>
- Megelski, S., Stephens, J. S., Chase, D. B., & Rabolt, J. F. (2002). Micro- and Nanostructured Surface Morphology on Electrospun Polymer Fibers. *Macromolecules*, 35(22), 8456–8466. <https://doi.org/10.1021/ma020444a>
- Muangstri, R., Chuysinuan, P., Thanyacharoen, T., Techsakul, S., Sukhavattanakul, P., & Ummartyotin, S. (2022). Utilization of freeze thaw process for polyvinyl alcohol/sodium alginate (PVA/SA) hydrogel composite.

- Journal of Metals, Materials and Minerals*, 32(2), 34–41.
<https://doi.org/10.55713/jmmm.v32i2.1257>
- Nadya, L. (2023). Sistematik Literatur Review (SLR) Pertolongan Pertama pada Luka Bakar Menurut Tingkat Keparahan. *Journal Of Social Science Research*, 3(5), 3004–3009.
- Najim, M. A., Khalil, B. I., & Hameed, A. A. (2022). Characterizing optimum electrospinning conditions for graft urethanized Poly(Vinyl Alcohol)(U-PVA). *Heliyon*, 8(11). <https://doi.org/10.1016/j.heliyon.2022.e11423>
- Nicolet, T. (2001). *Introduction to Fourier Transform Infrared Spectrometry*. Thermo Nicolet Corporation.
- Nischwitz, S. P., Luze, H., Popp, D., Winter, R., Draschl, A., Schellnegger, M., Kargl, L., Rappl, T., Giretzlehner, M., & Kamolz, L.-P. (2021). Global burn care and the ideal burn dressing reloaded — A survey of global experts. *Burns*, 47(7), 1665–1674. <https://doi.org/https://doi.org/10.1016/j.burns.2021.02.008>
- Noezar, I., Praptowidodo, S., Sin P. Agustin, & Reni Dewita. (2008). Membran PVA-chitosan crosslinked untuk pemisahan campuran etanol-air secara pervaporasi Authors I Noezar. *Jurnal Teknik Kimia Indonesia*, 7(1), 724–730.
- Nurwaha, D., Han, W., & Wang, X. (2013). Investigation of a new needleless electrospinning method for the production of nanofibers. *Journal of Engineered Fibers and Fabrics*, 8(4), 155892501300800420.
- Nuutila, K., & Eriksson, E. (2021). Moist Wound Healing with Commonly Available Dressings. Dalam *Advances in Wound Care* (Vol. 10, Nomor 12, hlm. 685–698). Mary Ann Liebert Inc. <https://doi.org/10.1089/wound.2020.1232>
- Pamela, V. Y., Syarief, R., Iriani, E. S., & Suyatma, N. E. (2016). Karakteristik Mekanik, Termal Dan Morfologi Film Polivinil Alkohol Dengan Penambahan Nanopartikel Zno Dan Asam Stearat Untuk Kemasan Multilayer. *Indonesian Journal of Agricultural Postharvest Research*, 13(2), 63–73.
- Park, J.-C., Ito, T., Kim, K.-O., Kim, K.-W., Kim, B.-S., Khil, M.-S., Kim, H.-Y., & Kim, I.-S. (2010). Electrospun poly(vinyl alcohol) nanofibers: effects of degree of hydrolysis and enhanced water stability. *Polymer Journal*, 42(3), 273–276. <https://doi.org/10.1038/pj.2009.340>
- Pawar, S. N., & Edgar, K. J. (2012). Alginate derivatization: A review of chemistry, properties and applications. *Biomaterials*, 33(11), 3279–3305. <https://doi.org/10.1016/j.biomaterials.2012.01.007>
- Pham, T. N., Bettencourt, A. P., Bozinko, G. M., Chang, P. H., Chung, K. K., Craig, C. K., Fagin, A. M., Hollowed, K. A., Johnson, L. S., Kwan, P., Mann-Salinas, E. A., Molnar, J. A., Rae, L., Ahrenholz, D. H., Conlon, K. M., & Carrougher, G. J. (2018). *Advanced Burn Life Support Course*. American Burn Association.
- Rachma, N., & Andriany, M. (2013). STUDI KASUS: PENGGUNAAN PEMBALUT HERBAL SEBAGAI ABSORBED PADA MODERN DRESSING. *Jurnal Keperawatan Komunitas*, 1(2), 130–134.
- Rahmati, M., Mills, D. K., Urbanska, A. M., Saeb, M. R., Venugopal, J. R., Ramakrishna, S., & Mozafari, M. (2021). Electrospinning for tissue

- engineering applications. *Progress in Materials Science*, 117, 100721. <https://doi.org/https://doi.org/10.1016/j.pmatsci.2020.100721>
- Rhein-Knudsen, N., Ale, M. T., Ajallouelian, F., & Meyer, A. S. (2017). Characterization of alginates from Ghanaian brown seaweeds: *Sargassum* spp. and *Padina* spp. *Food Hydrocolloids*, 71, 236–244. <https://doi.org/https://doi.org/10.1016/j.foodhyd.2017.05.016>
- Rice, P. L., & Orgill, D. (2021). Assessment and classification of burn injury. *UpToDate, [Internet]*, 8, 129–132.
- Rošic, R., Pelipenko, J., Kristl, J., Kocbek, P., Bešter-Rogač, M., & Baumgartner, S. (2013). Physical characteristics of poly (vinyl alcohol) solutions in relation to electrospun nanofiber formation. *European Polymer Journal*, 49(2), 290–298. <https://doi.org/https://doi.org/10.1016/j.eurpolymj.2012.11.013>
- Safae-Ardakani, M. R., Hatamian-Zarmi, A., Sadat, S. M., Mokhtari-Hosseini, Z. B., Ebrahimi-Hosseinzadeh, B., Kooshki, H., & Rashidiani, J. (2019). In situ Preparation of PVA/Schizophyllan-AgNPs Nanofiber as Potential of Wound Healing: Characterization and Cytotoxicity. *Fibers and Polymers*, 20(12), 2493–2502. <https://doi.org/10.1007/s12221-019-9388-8>
- San Miguel, L., Torra i Bou, J. E., & Verdú Soriano, J. (2007). Economics of pressure-ulcer care: review of the literature on modern versus traditional dressings. *Journal of wound care*, 16(1), 5–9.
- Saputra, D. (2023). Tinjauan Komprehensif tentang Luka Bakar: Klasifikasi, Komplikasi dan Penanganan. *SCIENA*, II(5), 197–208.
- Sazegar, M., Bazgir, S., & Katbab, A. A. (2020). Preparation and characterization of water-absorbing gas-assisted electrospun nanofibers based on poly(vinyl alcohol)/chitosan. *Materials Today Communications*, 25, 101489. <https://doi.org/https://doi.org/10.1016/j.mtcomm.2020.101489>
- Schneider, A., Wang, X. Y., Kaplan, D. L., Garlick, J. A., & Egles, C. (2009). Biofunctionalized electrospun silk mats as a topical bioactive dressing for accelerated wound healing. *Acta Biomaterialia*, 5(7), 2570–2578. <https://doi.org/https://doi.org/10.1016/j.actbio.2008.12.013>
- Sharma, P., Kumar Agrawal, P., Singh, V. K., Chauhan, S., & Bhaskar, J. (2023). A Comprehensive Review on Properties of Polyvinyl Alcohol (PVA) Crosslinked with Carboxylic Acid. *Journal of Materials and Environmental Science*, 14(10), 1236–1252. <http://www.jmaterenvironsci.com>
- Shen, Y., Yu, X., Cui, J., Yu, F., Liu, M., Chen, Y., Wu, J., Sun, B., & Mo, X. (2022). Development of Biodegradable Polymeric Stents for the Treatment of Cardiovascular Diseases. *Biomolecules*, 12(9). <https://doi.org/10.3390/biom12091245>
- Shivakumara, L. R., & Demappa, T. (2019). Synthesis and swelling behavior of sodium alginate/poly(Vinyl alcohol) hydrogels. *Turkish Journal of Pharmaceutical Sciences*, 16(3), 252–260. <https://doi.org/10.4274/tjps.galenos.2018.92408>
- Simões, D., Miguel, S. P., Ribeiro, M. P., Coutinho, P., Mendonça, A. G., & Correia, I. J. (2018). Recent advances on antimicrobial wound dressing: A review. *European journal of pharmaceutics and biopharmaceutics*, 127, 130–141.

- Subaryono. (2010). MODIFIKASI ALGINAT DAN PEMANFAATAN PRODUKNYA. *Squalen*, 5(1), 1–7.
- Tang, J. C., Taniguchi, H., Chu, H., Zhou, Q., & Nagata, S. (2009). Isolation and characterization of alginate-degrading bacteria for disposal of seaweed wastes. *Letters in applied microbiology*, 48(1), 38–43. <https://doi.org/10.1111/j.1472-765X.2008.02481.x>
- Tang, Y., Lan, X., Liang, C., Zhong, Z., Xie, R., Zhou, Y., Miao, X., Wang, H., & Wang, W. (2019). Honey loaded alginate/PVA nanofibrous membrane as potential bioactive wound dressing. *Carbohydrate Polymers*, 219, 113–120. <https://doi.org/https://doi.org/10.1016/j.carbpol.2019.05.004>
- Thakur, S., Pandey, S., & Arotiba, O. A. (2016). Development of a sodium alginate-based organic/inorganic superabsorbent composite hydrogel for adsorption of methylene blue. *Carbohydrate Polymers*, 153, 34–46. <https://doi.org/https://doi.org/10.1016/j.carbpol.2016.06.104>
- Tracy, L. E., Minasian, R. A., & Catterson, E. J. (2014). Extracellular Matrix and Dermal Fibroblast Function in the Healing Wound. *Advances in Wound Care*, 5(3), 119–136. <https://doi.org/10.1089/wound.2014.0561>
- Tsuge, M., Takahashi, K., Kurimoto, R., Fulati, A., Uto, K., Kikuchi, A., & Ebara, M. (2019). Fabrication of water absorbing nanofiber meshes toward an efficient removal of excess water from kidney failure patients. *Fibers*, 7(5). <https://doi.org/10.3390/FIB7050039>
- Varaprasad, K., Jayaramudu, T., Kanikireddy, V., Toro, C., & Sadiku, E. R. (2020). Alginate-based composite materials for wound dressing application:A mini review. *Carbohydrate Polymers*, 236, 116025. <https://doi.org/https://doi.org/10.1016/j.carbpol.2020.116025>
- Venkatesan, J., Nithya, R., Sudha, P. N., & Kim, S.-K. (2014). Role of alginate in bone tissue engineering. Dalam *Advances in Food and Nutrition Research* (Vol. 73, hlm. 45–57). <https://doi.org/10.1016/B978-0-12-800268-1.00004-4>
- Wade, R. J., & Burdick, J. A. (2014). Advances in nanofibrous scaffolds for biomedical applications: From electrospinning to self-assembly. *Nano Today*, 9(6), 722–742. <https://doi.org/https://doi.org/10.1016/j.nantod.2014.10.002>
- Wang, M., Yu, D.-G., Li, X., & Williams, G. R. (2020). The Development and Bio-applications of Multifluid Electrospinning. *Materials Highlights*, 1(1–2), 1. <https://doi.org/10.2991/mathi.k.200521.001>
- Wang, Y., Ding, C., Zhao, Y., Zhang, J., Ding, Q., Zhang, S., Wang, N., Yang, J., Xi, S., Zhao, T., Zhao, C., & Liu, W. (2023). Sodium alginate/poly(vinyl alcohol)/taxifolin nanofiber mat promoting diabetic wound healing by modulating the inflammatory response, angiogenesis, and skin flora. *International Journal of Biological Macromolecules*, 252, 126530. <https://doi.org/https://doi.org/10.1016/j.ijbiomac.2023.126530>
- Wardhana, A., Cindy, D. C., Rismala, D., & Pardede, S. O. (2017). Luka Bakar Pada Anak Karakteristik dan Penyebab Kematian. *Majalah Kedokteran UKI*, 34(3).
- Wilkinson, H. N., & Hardman, M. J. (2023). Wound healing: Cellular mechanisms and pathological outcomes. Dalam *Advances in Surgical and Medical*

- Specialties* (hlm. 341–370). Taylor and Francis. <https://doi.org/10.1098/rsob.200223>
- Wongkanya, R., Chuysinuan, P., Pongsuk, C., Techasakul, S., Lirdprapamongkol, K., Svasti, J., & Nooeaid, P. (2017). Electrospinning of alginate/soy protein isolated nanofibers and their release characteristics for biomedical applications. *Journal of Science: Advanced Materials and Devices*, 2(3), 309–316. <https://doi.org/10.1016/j.jsamd.2017.05.010>
- Yan, X., Xiao, X., Au, C., Mathur, S., Huang, L., Wang, Y., Zhang, Z., Zhu, Z., Kipper, M. J., Tang, J., & Chen, J. (2021). Electrospinning nanofibers and nanomembranes for oil/water separation. *Journal of Materials Chemistry A*, 9(38), 21659–21684. <https://doi.org/10.1039/D1TA05873H>
- Yao, L., Sun, C., Lin, H., Li, G., Lian, Z., Song, R., Zhuang, S., & Zhang, D. (2023). Electrospun Bi-decorated BixTiyOz/TiO2 flexible carbon nanofibers and their applications on degradating of organic pollutants under solar radiation. *Journal of Materials Science & Technology*, 150, 114–123. <https://doi.org/10.1016/j.jmst.2022.07.066>
- Yao, Y., Zhang, A., Yuan, C., Chen, X., & Liu, Y. (2021). Recent trends on burn wound care: hydrogel dressings and scaffolds. *Biomaterials Science*, 9(13), 4523–4540. <https://doi.org/10.1039/D1BM00411E>
- Yu, D.-G., & Zhou, J. (2024). Electrospun multi-chamber nanostructures for sustainable biobased chemical nanofibers. *Next Materials*, 2, 100119. <https://doi.org/10.1016/j.nxmte.2024.100119>
- Zhang, M., & Zhao, X. (2020). Alginate hydrogel dressings for advanced wound management. *International Journal of Biological Macromolecules*, 162, 1414–1428. <https://doi.org/10.1016/j.ijbiomac.2020.07.311>
- Zhang, S., Han, D., Ding, Z., Wang, X., Zhao, D., Hu, Y., & Xiao, X. (2019). Fabrication and Characterization of One Interpenetrating Network Hydrogel Based on Sodium Alginate and Polyvinyl Alcohol. *Journal of Wuhan University of Technology-Mater. Sci. Ed.*, 34(3), 744–751. <https://doi.org/10.1007/s11595-019-2112-0>
- Zhang, S., Yang, W., Gong, W., Lu, Y., Yu, D. G., & Liu, P. (2024). Recent progress of electrospun nanofibers as burning dressings. *RSC Advances*, 14(20), 14374–14391. <https://doi.org/10.1039/d4ra01514b>
- Zhao, H., & Chi, H. (2018). Electrospun Bead-on-String Fibers: Useless or Something of Value? Dalam T. Lin (Ed.), *Novel Aspects of Nanofibers*. IntechOpen. <https://doi.org/10.5772/intechopen.74661>