

DAFTAR PUSTAKA

- Azuma, K., Nishihara, M., Shimizu, H., Itoh, Y., Takashima, O., Osaki, T., Itoh, N., Imagawa, T., Murahata, Y., Tsuka, T., Izawa, H., Ifuku, S., Minami, S., Saimoto, H., Okamoto, Y. and Morimoto, M. (2015) 'Biological adhesive based on carboxymethyl chitin derivatives and chitin nanofibers', *Biomaterials*. Elsevier Ltd, 42, pp. 20–29. doi: 10.1016/j.biomaterials.2014.11.043.
- Balakrishnan, B., Soman, D., Payanam, U., Laurent, A., Labarre, D. and Jayakrishnan, A. (2017) 'A novel injectable tissue adhesive based on oxidized dextran and chitosan', *Acta Biomaterialia*. Acta Materialia Inc., 53, pp. 343–354. doi: 10.1016/j.actbio.2017.01.065.
- Brammann, C. and Müller-Goymann, C. C. (2020) 'An update on formulation strategies of benzoyl peroxide in efficient acne therapy with special focus on minimizing undesired effects', *International Journal of Pharmaceutics*. Elsevier, 578(December 2019), p. 119074. doi: 10.1016/j.ijpharm.2020.119074.
- Bu, Y. and Pandit, A. (2021) 'Cohesion mechanisms for *bioadhesives*', *Bioactive Materials*. KeAi Communications Co., Ltd, 13(October 2021), pp. 105–118. doi: 10.1016/j.bioactmat.2021.11.008.
- Chen, S., Gil, C. J., Ning, L., Jin, L., Perez, L., Kabboul, G., Tomov, M. L. and Serpooshan, V. (2021) 'Adhesive Tissue Engineered Scaffolds: Mechanisms and Applications', *Frontiers in Bioengineering and Biotechnology*, 9(July). doi: 10.3389/fbioe.2021.683079.
- Cohen, B., Pinkas, O., Foox, M. and Zilberman, M. (2013) 'Gelatin-alginate novel tissue adhesives and their formulation-strength effects', *Acta Biomaterialia*. Acta Materialia Inc., 9(11), pp. 9004–9011. doi: 10.1016/j.actbio.2013.07.002.
- de León-Martínez, P. A., Sáenz-Galindo, A., Ávila-Orta, C. A., Castañeda-Facio, A. O., Andrade-Guel, M. L., Sierra, U., Alvarado-Tenorio, G. and Bernal-Martínez, J. (2021) 'Ultrasound-assisted surface modification of mwcnt using organic acids', *Materials*, 14(1), pp. 1–13. doi: 10.3390/ma14010072.
- Duarte, A. P., Coelho, J. F., Bordado, J. C., Cidade, M. T. and Gil, M. H. (2012) 'Surgical adhesives: Systematic review of the main types and development forecast', *Progress in Polymer Science*. Elsevier Ltd, 37(8), pp. 1031–1050. doi: 10.1016/j.progpolymsci.2011.12.003.
- Dong, W., Gu, X., Han, J. and You, L. (2021) 'Universal Adhesives- Different Curing Methods and Applications', *E3S Web of Conferences*, 290, pp. 1–5. doi: 10.1051/e3sconf/202129001021.
- Foxx, M., Ben-Tzur, M., Koifman, N. and Zilberman, M. (2016) 'Effect of gamma radiation on novel gelatin alginate-based bioadhesives', *International Journal of Polymeric Materials and Polymeric Biomaterials*, 65(12), pp. 611–618. doi: 10.1080/00914037.2016.1157792.

Furia, T. (1972). Handbook of food additives. 2nd edn. CRC Press Inc: Florida.

Hamed, H., Moradi, S., Hudson, S. M., Tonelli, A. E. and King, M. W. (2022) 'Chitosan based *bioadhesives* for biomedical applications: A review', *Carbohydrate Polymers*. Elsevier Ltd, 282(December 2021), p. 119100. doi: 10.1016/j.carbpol.2022.119100.

Hassan, N., Ahmad, T., Zain, N. M. and Awang, S. R. (2021) 'Identification of bovine, porcine and fish gelatin signatures using chemometrics fuzzy graph method', *Scientific Reports*. Nature Publishing Group UK, pp. 1–10. doi: 10.1038/s41598-021-89358-2.

Jacob, J., Haponiuk, J. T., Thomas, S. and Gopi, S. (2018) 'Biopolymer based nanomaterials in drug delivery systems: A review', *Materials Today Chemistry*, 9, pp. 43–55. doi: 10.1016/j.mtchem.2018.05.002.

Jeon, O., Samorezov, J. E. and Alsberg, E. (2014) 'Single and dual crosslinked oxidized methacrylated alginate/PEG hydrogels for *bioadhesive* applications', *Acta Biomaterialia*. Acta Materialia Inc., 10(1), pp. 47–55. doi: 10.1016/j.actbio.2013.09.004.

Khanlari, S. and Dub, M. A. (2013) 'Bioadhesives : A Review', pp. 573–587. doi: 10.1002/mren.201300114.

Kinloch, A.J. (1987). Adhesion and Adhesives. Chapman & Hall. New York.

Kuo, C. K. and Ma, P. X. (2008) 'Maintaining dimensions and mechanical properties of ionically crosslinked alginate hydrogel scaffolds in vitro', *Journal of Biomedical Materials Research - Part A*, 84(4), pp. 899–907. doi: 10.1002/jbm.a.31375.

Li, C., Wang, T., Hu, L., Wei, Y., Liu, J., Mu, X., Nie, J. and Yang, D. (2014) 'Photocrosslinkable *bioadhesive* based on dextran and PEG derivatives', *Materials Science and Engineering C*. Elsevier B.V., 35(1), pp. 300–306. doi: 10.1016/j.msec.2013.10.032.

Lih, E., Lee, J. S., Park, K. M. and Park, K. D. (2012) 'Rapidly curable chitosan-PEG hydrogels as tissue adhesives for hemostasis and wound healing', *Acta Biomaterialia*. Acta Materialia Inc., 8(9), pp. 3261–3269. doi: 10.1016/j.actbio.2012.05.001.

Luque, G. C., Stürtz, R., Passeggi, M. C. G., Gugliotta, L. M., Gonzalez, V. D. G. and Minari, R. J. (2020) 'New hybrid acrylic/collagen nanocomposites and their potential use as bio-adhesives', *International Journal of Adhesion and Adhesives*, 100(April). doi: 10.1016/j.ijadhadh.2020.102624.

M. Petrie, E., (2006). Handbook of Adhesives and Sealants. 1st edn. McGraw Hill: New York.

Othmer, K.A. (1994). Encyclopedia of Chemical Technology. 4th edn. John Wiley & Sons: New York.

Pandey, N., Soto-Garcia, L. F., Liao, J., Zimmermann, P., Nguyen, K. T. and Hong, Y. (2020) 'Mussel-inspired bioadhesives in healthcare: Design parameters, current trends, and future perspectives', *Biomaterials Science*. Royal Society of Chemistry, 8(5), pp. 1240–

1255. doi: 10.1039/c9bm01848d.

- Pinkas, O., Goder, D., Noyvirt, R., Peleg, S., Kahlon, M. and Zilberman, M. (2017) 'Structuring of composite hydrogel *bioadhesives* and its effect on properties and bonding mechanism', *Acta Biomaterialia*. Acta Materialia Inc., 51, pp. 125–137. doi: 10.1016/j.actbio.2017.01.047.
- Reddy, N. and Yang, Y. (2010) 'Citric acid cross-linking of starch films', *Food Chemistry*. Elsevier Ltd, 118(3), pp. 702–711. doi: 10.1016/j.foodchem.2009.05.050.
- Samaneh K & Marc A.D. (2013).Bioadhesives:A review Macromolecular Reaction Engineering, 7(11), pp. 573-587.
- Saarai, A., Kasparkova, V., Sedlacek, T. and Saha, P. (2013) 'On the development and characterisation of crosslinked sodium alginate/gelatine hydrogels', *Journal of the Mechanical Behavior of Biomedical Materials*. Elsevier, 18, pp. 152–166. doi: 0.1016/j.jmbbm.2012.11.010.
- Sharma, B., Sandilya, A., Patel, U., Shukla, A. and Sadhu, S. D. (2021) 'A bio-inspired exploration of eco-friendly bael gum and guar gum-based *bioadhesive* as tackifiers for packaging applications', *International Journal of Adhesion and Adhesives*. Elsevier Ltd, 110, p. 102946. doi: 10.1016/j.ijadhadh.2021.102946.
- Shokrani, H., Shokrani, A., Seidi, F., Munir, M. T., Rabiee, N., Fatahi, Y., Kucinska-Lipka, J. and Saeb, M. R. (2022) 'Biomedical engineering of polysaccharide-based tissue adhesives: Recent advances and future direction', *Carbohydrate Polymers*. Elsevier Ltd, 295(April), p. 119787. doi: 10.1016/j.carbpol.2022.119787.
- Subaryono (2010) 'Modifikasi Alginat dan Pemanfaatan Produknya', *Squalen Bulletin of Marine and Fisheries Postharvest and Biotechnology*, 5(1), pp. 1–7.
- Taguchi, T., Saito, H., Uchida, Y., Sakane, M., Kobayashi, H., Kataoka, K. and Tanaka, J. (2004) 'Bonding of soft tissues using a novel tissue adhesive consisting of a citric acid derivative and collagen', *Materials Science and Engineering C*, 24(6-8 SPEC. ISS.), pp. 775–780. doi: 10.1016/j.msec.2004.08.037.
- Tang, N. F. R., Heryanto, H., Armynah, B. and Tahir, D. (2023) 'Bibliometric analysis of the use of calcium alginate for wound dressing applications: A review', *International Journal of Biological Macromolecules*. Elsevier B.V., 228(November 2022), pp. 138–152. doi: 10.1016/j.ijbiomac.2022.12.140.
- Wan, P., Wu, S., Liu, Q., Zou, Y., Zhao, Z. and Chen, S. (2022) 'Recent advances in calcium alginate hydrogels encapsulating rejuvenator for asphalt self-healing', *Journal of Road Engineering*. The Authors, 2(3), pp. 181–220. doi: 10.1016/j.jreng.2022.06.002.
- Wang, Q. Q., Liu, Y., Zhang, C. J., Zhang, C. and Zhu, P. (2019) 'Alginate/gelatin blended hydrogel fibers cross-linked by Ca²⁺ and oxidized starch: Preparation and properties', *Materials Science and Engineering C*. Elsevier, 99(April 2018), pp. 1469–1476. doi: 10.1016/j.msec.2019.02.091.
- Wang, T., Nie, J. and Yang, D. (2012) 'Dextran and gelatin based photocrosslinkable tissue adhesive', *Carbohydrate Polymers*. Elsevier Ltd., 90(4), pp. 1428–1436. doi:



10.1016/j.carbpol.2012.07.011.

Yuan, L., Wu, Y., Fang, J., Wei, X., Gu, Q., El-Hamshary, H., Al-Deyab, S. S., Morsi, Y. and Mo, X. (2017) 'Modified alginate and gelatin cross-linked hydrogels for soft tissue adhesive', *Artificial Cells, Nanomedicine and Biotechnology*, 45(1), pp. 76–83. doi: 10.3109/21691401.2015.1129622.

Zheng, K., Gu, Q., Zhou, D., Zhou, M. and Zhang, L. (2022) 'Recent progress in surgical adhesives for biomedical applications', *Smart Materials in Medicine*. Elsevier Ltd, 3(November 2021), pp. 41–65. doi: 10.1016/j.smaim.2021.11.004.

Zhu, W., Chuah, Y. J. and Wang, D. A. (2018) 'Bioadhesives for internal medical applications: A review', *Acta Biomaterialia*. Acta Materialia Inc., 74, pp. 1–16. doi: 10.1016/j.actbio.2018.04.034.

Zhu, H., Tian, J., Mao, H. and Gu, Z. (2021) 'Bioadhesives: Current hotspots and emerging challenges', *Current Opinion in Biomedical Engineering*. Elsevier Ltd, 18, p. 100271. doi: 10.1016/j.cobme.2021.100271.

Zhu, J., Zhou, H., Michael, E., Zhang, S., Itzel, F., Rodríguez, P., Pan, T., Yang, H., Lin, Y., Yang, J. and Cheng, H. (2023) 'Bioactive Materials Smart bioadhesives for wound healing and closure', *Bioactive Materials*. KeAi Communications Co., Ltd, 19(February 2022), pp. 360–375. doi: 10.1016/j.bioactmat.2022.04.020.