

## DAFTAR PUSTAKA

- Agrawal, M., Konwar, A.N., Alexander, A. and Borse, V. 2021. Nose-to-brain delivery of biologics and stem cells. In Direct Nose-To-brain Drug Delivery. Academic Press. 305-328
- Alfaro, A.D.T., Balbinot, E., Weber, C.I., Tonial, I.B. and Machado-Lunkes, A. 2015. Fish gelatin: characteristics, functional properties, applications and future potentials. Food Engineering Reviews. 7(1):33-44.
- Alipal, J., N.M. Pu'ad, T.C. Lee, N.H.M. Nayan, N. Sahari, H. Basri, M.I. Idris, and H.Z. Abdullah. 2021. A review of gelatin: properties, sources, process, applications, and commercialisation. Materials Today: Proceedings. 42:240-250.
- Aubry, B., F. Dumur, M. Lansalot, E. Bourgeat-Lami, E. Lacote, and J. Lalevée, J. 2022. Development of water-soluble type I photoinitiators for hydrogel synthesis. Macromol. 2(1):131-140.
- Avadi, M.R., A.M.M. Sadeghi, A. Tahzibi, K.H. Bayati, M. Pouladzadeh, M.J. Zohuriaan-Mehr, and M. Rafiee-Tehrani. 2004. Diethylmethyl chitosan as an antimicrobial agent: Synthesis, characterization and antibacterial effects. European Polymer Journal. 40(7):1355-1361.
- Bakravi, A., Y. Ahamadian, H. Hashemi, and H. Namazi. 2018. Synthesis of gelatin-based *biodegradable* hydrogel nanocomposite and their application as drug delivery agent. Advances in Polymer Technology. 37(7):2625-2635.
- Balakrishnan, B., M. Mohanty, P.R. Umashankar, and A. Jayakrishnan. 2005. Evaluation of an in situ forming hydrogel wound dressing based on oxidized alginate and gelatin. Biomaterials. 26(32):6335-6342.
- Bao, Z., M. Gao, Y. Sun, R. Nian, and M. Xian. 2020. The recent progress of tissue adhesives in design strategies, adhesive mechanism and applications. Materials Science and Engineering: C. 111:110796.
- Basuki, B.R. & I.G.M Sanjaya. 2009. Sintesis ikat silang kitosan dengan glutaraldehid serta identifikasi gugus fungsi dan derajat deasetilasinya. Jurnal Ilmu Dasar. 10(1): 93-101.
- Baysal. K., A.Z. Aroguz, Z. Adiguzel, and B.M. Baysal. 2013. Chitosan/alginate crosslinked hydrogels: preparation, characterization and application for cell growth purposes. International journal of biological macromolecules. 59: 342-348.
- Branfield, A.S. 2004. Use of tissue adhesives in sport? a new application in international ice hockey. British journal of sports medicine. 38(1):95-96.
- Bryant, S.J., C.R. Nuttelman, and K.S. Anseth. 2000. Cytocompatibility of UV and visible light photoinitiating systems on cultured NIH/3T3 fibroblasts in vitro. Journal of Biomaterials Science, Polymer Edition. 11(5):439-457.
- Caballerro, D., R.L. Reis, and S.C. Kundu. 2020. Biomaterials for 3D tumor modeling. Materials today. 3-41.

- Cao, J., L. Xiao, and X. Shi. 2019. Injectable drug-loaded polysaccharide hybrid hydrogels for hemostasis. *RSC Advance*. 9(63):36858-36866.
- Charley, H. 1982. Food science (No. Ed. 2). John Wiley & Sons Ltd.
- Chen, Tianhong, Rabeea Janjua, Martin K. McDermott, Steven L. Bernstein, Scott M. Steidl, and Gregory F. Payne. 2006. Gelatin-based biomimetic tissue adhesive. Potential for retinal reattachment. *Journal of Biomedical Materials Research Part B: Applied Biomaterials: An Official Journal of The Society for Biomaterials, The Japanese Society for Biomaterials, and The Australian Society for Biomaterials and the Korean Society for Biomaterials*. 77(2): 416-422.
- Chen, Z., X. Mo, C. He, C., & H. Wang. 2008. Intermolecular interactions in electrospun collagen-chitosan nanofibers. *Carbohydrate Polymers*. 72:410-418.
- Choi, Y.C., J.S. Choi, Y.J.Jung, and Y.W. Cho. 2014. Human gelatin tissue-adhesive hydrogels prepared by enzyme-mediated biosynthesis of DOPA and Fe<sup>3+</sup> ion crosslinking. *Journal of Materials Chemistry B*. 2(2):201-209.
- Choi, Y. R., E.H. Kim, S. Lim, & Y.S. Choi. 2018. Efficient preparation of a permanent chitosan/gelatin hydrogel using an acid-tolerant tyrosinase. *Biochemical Engineering Journal*, 129, 50–56.
- Choi, J. R., K.W. Yong, J.Y. Choi and A.C. Cowie. 2019. Recent advances in photocrosslinkable hydrogels for biomedical applications. *BioTechniques*, 66(1): 40-53.
- Choudhury, N.A., Northrop, P.W., Crothers, A.C., Jain, S. and Subramanian, V.R. 2012. Chitosan hydrogel-based electrode binder and electrolyte membrane for EDLCs: experimental studies and model validation. *Journal of Applied Electrochemistry*. 42(11):935-943.
- Denavi, G. A., M. Perez-Mateos, M.C. Anon, P. Montero, A.N. Mauri, & Gomez-Guillen, M. C. 2009. Structural and functional properties of soy protein isolate and cod gelatin blend films. *Food Hydrocolloids*. 23:2094-2101
- De Alvarenga, E.S. 2011. Characterization and properties of chitosan. *Biotechnology of biopolymers*. 91:48-53.
- Ding, W., X. Pang, Z. Ding, D.C. Tsang, Z. Jiang, and B. Shi. 2020. Constructing a robust chrome-free leather tanned by biomass-derived polyaldehyde via crosslinking with chitosan derivatives. *Journal of Hazardous Materials*. 396: 122771.
- Du, X., Hou, Y., Wu, L., Li, S., Yu, A., Kong, D., Wang, L. and Niu, G. 2020. An anti-infective hydrogel adhesive with non-swelling and robust mechanical properties for sutureless wound closure. *Journal of Materials Chemistry B*. 8(26):5682-5693.
- Eren, T.N., N. Kariksiz, G. Demirci, D. Tuncel, N. Okte, H.Y. Acar, and D. Avci. 2021. Irgacure 2959-functionalized poly (ethyleneimine) s as improved photoinitiators: enhanced water solubility, migration stability and visible-light operation. *Polymer Chemistry*. 12(18), pp.2772-2785.
- Fatoni, A., P. Loekitowati, H. Hermansyah, and A. Lesbani, A. 2018. Synthesis and characterization of chitosan linked by methylene bridge and schiff base of 4, 4-diaminodiphenyl ether-vanillin. *Indonesian Journal of Chemistry*. 18(1):92-101.

- Fouassier, J.P. & J. Lalevée, J. 2012. Photoinitiators for polymer synthesis: scope, reactivity, and efficiency. John Wiley & Sons.
- Figuerola-Pizano, M.D., I. Vélaz, F.J. Peñas, P. Zavala-Rivera, A.J Rosas-Durazo, Maldonado-Arce, A.D. and M.E. Martínez-Barbosa. 2018. Effect of freeze-thawing conditions for preparation of chitosan-poly (vinyl alcohol) hydrogels and drug release studies. *Carbohydrate polymers*. 195: 476-485.
- Ge, L. & S. Chen. 2020. Recent advances in tissue adhesives for clinical medicine. *Polymers*. 12(4):939.
- GMIA. 2012. Gelatin Handbook. Gelatin Manufacturers Institute of America.
- Gomez-Guillen, M. C., B. Gimenez, M.A. Lopez-Caballero, dan M.P. Montero. 2011. Functional and Bioactive Properties of Collagen and Gelatin from Alternative Sources: A Review. *Food Hydrocolloids*. 25(8): 1813-1827.
- Habib, F.N., S.S. Kordestani, F. Afshar-Taromi, and Z. Shariatnia. 2011. A novel topical tissue adhesive composed of urethane prepolymer modified with chitosan. *International Journal of Polymer Analysis and Characterization*. 16(8): 609-618.
- Han, W.T., T. Jang, S. Chen, L.S.H. Chong, HD. Jung, and J. Song. 2020. Improved cell viability for large-scale biofabrication with photo-crosslinkable hydrogel systems through a dual-photoinitiator approach. *Biomaterials Science*. 8: 450-461.
- Hanjaya-Putra, D., F. Fan, and S. Saha. 2021. Biomimetic hydrogels to promote wound healing. *Frontiers in Bioengineering and Biotechnology*. 773.
- He, X.Y., A. Sun, T. Li, Y.J. Qian, H. Qian, Y.F. Ling, L.H. Zhang, Q.Y. Liu, T. Peng, T. and Z. Qian. 2020. Mussel-inspired antimicrobial gelatin/chitosan tissue adhesive rapidly activated in situ by H<sub>2</sub>O<sub>2</sub>/ascorbic acid for infected wound closure. *Carbohydrate Polymers*. 247:116692.
- Hom, W.L. and S.R. Bhatia. 2017. Significant enhancement of elasticity in alginate-clay nanocomposite hydrogels with PEO-PPO-PEO copolymers. *Polymer*. 109:170-175.
- Hu, Z., D.Y. Zhang, S.T. Lu, P.W. Li, and S.D. Li. 2018. Chitosan-based composite materials for prospective hemostatic applications. *Marine drugs*. 16(8):273.
- Jaipan, P., A. Nguyen, and R.J Narayan. 2017. Gelatin-based hydrogels for biomedical applications. *Mrs Communications*. 7(3):416-426.
- Jătariu, A.N., M. Popa, S. Curteanu, and C.A. Peptu. 2011. Covalent and ionic co-cross-linking—An original way to prepare chitosan–gelatin hydrogels for biomedical applications. *Journal of Biomedical Materials Research Part A*. 98(3): 342-350.
- Jătariu, A.N., M. Danu, C.A. Peptu, G. Ioanid, C. Ibanescu, and M. Popa. 2013. Ionically and covalently cross-linked hydrogels based on gelatin and chitosan. *Soft materials*. 11(1): 45-54.

- Jayakumar, R., M. Prabakaran, S.V. Nair, S. Tokura, H. Tamura, and N. Selvamurugan. 2010. Novel carboxymethyl derivatives of chitin and chitosan materials and their biomedical applications. *Progress in Materials Science*. 55(7):675-709.
- Kamala, Fiskina Zulfa. 2021. Optimasi Konsentrasi Irgacure® 2959 Sebagai Fotoinisiator pada Hidrogel Berbasis Kitosan- K-Karagenan untuk Perakat Jaringan Kolon. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.
- Kamoun, E.A., A.M. Omer, M.M. Abu-Serie, S.N. Khattab, H.M. Ahmed, and A.A. Elbardan. 2018. Photopolymerized PVA-g-GMA hydrogels for biomedical applications: factors affecting hydrogel formation and bioevaluation tests. *Arabian Journal for Science and Engineering*. 43(7):3565-3575.
- Kar, M., Chourasiya, Y., Maheshwari, R. and Tekade, R.K. 2019. Current developments in excipient science: implication of quantitative selection of each excipient in product development. In *Basic Fundamentals of Drug Delivery*. 29-83. Academic Press.
- Khan, Y.A., Ozaltin, K., Bernal-Ballen, A. and Di Martino, A. 2021. Chitosan-alginate hydrogels for simultaneous and sustained releases of ciprofloxacin, amoxicillin and vancomycin for combination therapy. *Journal of Drug Delivery Science and Technology*. 61:102126.
- Kim, S., M.E. Nimni, Z. Yang, and B. Han. 2005. Chitosan/gelatin-based films crosslinked by proanthocyanidin. *Journal of Biomedical Materials Research Part B: Applied Biomaterials: An Official Journal of The Society for Biomaterials, The Japanese Society for Biomaterials, and The Australian Society for Biomaterials and the Korean Society for Biomaterials*. 75(2):442-450.
- Kudo, S. & Nakashima, S. 2020. Water retention capabilities of collagen, gelatin and peptide as studied by IR/QCM/RH system. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. 241:118619.
- Lai, J.Y. 2010. Biocompatibility of chemically cross-linked gelatin hydrogels for ophthalmic use. *Journal of Materials Science: Materials in Medicine*. 21(6):1899-1911.
- Li, H., T. Lv, H. Sun, G. Qian, N. Li, Y. Yao, and T. Chen. 2019. Ultrastretchable and superior healable supercapacitors based on a double cross-linked hydrogel electrolyte. *Nature communications*. 10(1):1-8.
- Lima-Tenório, M. K., E.T. Tenório-Neto, M.R. Guilherme, F.P. Garcia, C.V. Nakamura, E.A.G. Pineda, & Rubira, A. F. 2015. Water transport properties through starch-based hydrogel nanocomposites responding to both pH and a remote magnetic field. *Chemical Engineering Journal*. 259:620–629.
- Liu, Y., Ng, S.C., Yu, J. and Tsai, W.B. 2019. Modification and crosslinking of gelatin-based biomaterials as tissue adhesives. *Colloids and Surfaces B: Biointerfaces*. 174:316-323.
- Liu, J., J. Li, F. Yu, YX. Zhao, XM. Mo, and JF. Pan. 2020. In situ forming hydrogel of natural polysaccharides through schiff base reaction for soft tissue adhesive and hemostasis. *International Journal of Biological Macromolecules*. 147: 653-666.

- Ma, Z., G. Bao, and Li, J. 2021. Multifaceted Design and Emerging Applications of Tissue Adhesives. *Advanced Materials*. 33(24):2007663.
- Mariod, A.A. & H. Fadul. 2013. Gelatin, source, extraction and industrial applications. *Acta Scientiarum Polonorum Technologia Alimentaria*. 12(2):135-147.
- Nam, S. & D. Mooney. 2021. Polymeric tissue adhesives. *Chemical Reviews*. 121(18):11336-11384.
- Narayanan, A., Y. Xu, A. Dhinojwala, and A. Joy. 2020. Advances in photoreactive tissue adhesives derived from natural polymers. *ChemEngineering*. 4(2):32.
- Nezhad-Mokhtari, P., M. Ghobarni, L. Roshangar, and J. S. Rad. 2019. Chemical gelling of hydrogels-based biological macromolecules for tissue engineering: photo- and enzymatic-crosslinking methods. *International Journal of Biological Macromolecules*. 139: 760-772.
- Nokoorani, Y.D., Shamloo, A., Bahadoran, M. and Moravvej, H. 2021. Fabrication and characterization of scaffolds containing different amounts of allantoin for skin tissue engineering. *Scientific reports*. 11(1):1-20.
- Ono, K., Y. Satio, H. Yura, K. Ishikawa, A. Kurita, T. Akaike, and M. Ishihara. 2000. Photocrosslinkable chitosan as a biological adhesive. *Jurnal Biomedis Material Research*. 49(2): 289-295.
- Panda, A., S. Kumar, A. Kumar, R. Bansal, and S. Bhartiya. 2009. Fibrin glue in ophthalmology. *Indian journal of ophthalmology*. 57(5): 371.
- Pappas, S. Peter. 1989. *Comprehensive Polymer Science and Supplements*. Photoinitiated Polymerization. 337–355.
- Park, H., Guo, X., Temenoff, J.S., Tabata, Y., Caplan, A.I., Kasper, F.K. and Mikos, A.G. 2009. Effect of swelling ratio of injectable hydrogel composites on chondrogenic differentiation of encapsulated rabbit marrow mesenchymal stem cells in vitro. *Biomacromolecules*. 10(3):541-546.
- Pella, A.C.G., M.K. Lima-Tenório, E.K. Tenório-Neto, M.K. Guilherme, E.C. Muniza, and A.F. Rubira. 2018. Chitosan-based hydrogels: from preparation to biomedical applications. 196: 233-245.
- Phuong, P.T.M., H.J. Won, Y.J. Oh, H.S. Lee, K.D. Lee, and S.Y. Park. 2019. The chemistry and engineering of mussel-inspired glue matrix for tissue adhesive and hemostatic. *Journal of Industrial and Engineering Chemistry*. 80: 749-756.
- Pinkas, O. & M. Zilberman. 2014. Effect of hemostatic agents on properties of gelatin–alginate soft tissue adhesives. *Journal of Biomaterials Science. Polymer Edition*. 25(6): 555-573.
- Pujana, M.A., L. Pérez-Álvarez, L.C.C. Iturbe, and I. Katime. 2013. Biodegradable chitosan nanogels crosslinked with genipin. *Carbohydrate Polymers*. 94(2):836-842.



- Puspitasari, D. 2021. Optimasi Konsentrasi Irgacure® 2959 sebagai Fotoinisiator pada Hidrogel Berbasis Kitosan-Alginat untuk Perakat Jaringan Kolon. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.
- Qi, Z., J. Xu, Z. Wang, J. Nie, and G. Ma. 2013. Preparation and properties of photocrosslinkable hydrogel based on photopolymerizable chitosan derivative. *International Journal of Biological Macromolecules*. 53: 144-149.
- Qian, Y.F., K.H. Zhang, F. Chen, Q.F. Ke, and X.M. Mo. 2011. Cross-linking of gelatin and chitosan complex nanofibers for tissue-engineering scaffolds. *Journal of Biomaterials Science, Polymer Edition*. 22(8):1099-1113.
- Reece, T.B., T.S. Maxey, and I.L. Kron. 2001. A prospectus on tissue adhesives. *The American journal of surgery*. 182(2): 40-44.
- Rhoades, J. and S. Roller. 2000. Antimicrobial actions of degraded and native chitosan against spoilage organisms in laboratory media and foods. *Applied and environmental microbiology*. 66(1):80-86.
- Rivera, R. F., & M. Fagan. 2018. Laceration Repair. *Urgent Care Medicine Secrets*. 270–278.
- Rohindra, D.R., Nand, A.V. and Khurma, J.R. 2004. Swelling properties of chitosan hydrogels. *The South Pacific Journal of Natural and Applied Sciences*. 22(1):32-35.
- Rouillard, A.D., C.M. Berglund, J.Y. Lee, W.J. Polacheck, Y. Tsui, L.J. Bonassar, and B.J. Kirby. 2011. Methods for photocrosslinking alginate hydrogel scaffolds with high cell viability. *Tissue Engineering Part C*. 17(2): 173-179.
- Rukmana, N.F. 2016. Identifikasi pengaruh ph terhadap sifat reologi polimer (karbopol 940, xanthan gum, na cmc, na alginat dan tragakan) tunggal dan kombinasi. Fakultas kedokteran dan ilmu kesehatan. UIN Syarif Hidayatullah Jakarta. Skripsi
- Samimi Gharaie, S., Habibi, S. and Nazockdast, H. 2018. Fabrication and characterization of chitosan/gelatin/thermoplastic polyurethane blend nanofibers. *Journal of Textiles and Fibrous Materials*. 1:2515221118769324.
- Santoso, A., R. Surdiding, S.H. Yusuf, dan S.A. Suminar. 2001. Pengaruh komposisi perekat lignin resolsinol formaldehida terhadap emisi formaldehida dan sifat fisismekanis kayu lamina. *J. Teknologi Hasil Hutan*. 14(2):7-15.
- Setha, B., F. Rumata, and B.B. Silaban. 2019. Karakteristik kitosan dari kulit udang vaname dengan menggunakan suhu dan waktu yang berbeda dalam proses deasetilasi. *Jurnal Pengolahan Hasil Perikanan Indonesia*. 22(3):498-507.
- Shahram, E., S.H. Sadraie, G. Kaka, H. Khoshmohabat, M. Hosseinalipour, F. Panahi, and M.R Naimi-Jamal. 2013. Evaluation of chitosan–gelatin films for use as postoperative adhesion barrier in rat cecum model. *International Journal of Surgery*. 11(10): 1097-1102.
- Siangsanoh, C., S. Ummartyotin, K. Sathirakul, P. Rojanapanthu, and W. Treesuppharat. 2018. Fabrication and characterization of triple-responsive composite hydrogel for

- targeted and controlled drug delivery system. *Journal of Molecular Liquids*. 256:90-99.
- Singer, A.J., Giordano, P., Fitch, J.L., Gulla, J., Ryker, D. and Chale, S. 2003. Evaluation of a new high-viscosity octylcyanoacrylate tissue adhesive for laceration repair: A randomized, clinical trial. *Academic Emergency Medicine*. 10(10):1134-1137.
- Sockalingam, K., H. Nelson, M.I. Idris, and H.Z. Abdullah. 2016. Effects of pre-treatment durations on properties of black tilapia (*Oreochromis Mossambicus*) skin gelatin. In *Materials Science Forum*. 840:146-150. Trans Tech Publications Ltd.
- Su, K. & C. Wang. 2015. Recent advances in the use of gelatin in biomedical research. *Biotechnology letters*. 37(11):2139-2145.
- Sulistiyanto, E.P., Darmanto, Y.S. and Amalia, U. 2015. Characteristic of Fish Glue From Three Different Marine Fishes. *Jurnal Ilmu dan Teknologi Kelautan Tropis*. 7(1).
- Sumarni, W., A.T. prasetya, dan E.F. Rahayu. 2017. Effect of glycerol on physical properties of biofilms gembili starch (*dioscorea esculenta*) – chitosan. *Proceeding of Chemistry Conferences*. 2: 56-65.
- Tazwir, T., D.L. Ayudiarti, and R. Peranginangin. 2007. Optimasi pembuatan gelatin dari tulang ikan kaci-kaci (*plectorhynchus chaetodonoides lac.*) Menggunakan berbagai konsentrasi asam dan waktu ekstraksi. *Jurnal Pascapanen dan Bioteknologi Kelautan dan Perikanan*. 2(1):35-43.
- Tenório-Neto, E.T., D. de Souza Lima, M.R. Guilherme, M.K. Lima-Tenório, D.B. Scariot, C.V. Nakamura, M.H. Kunita, and A.F. Rubira. 2017. Synthesis and drug release profile of a dual-responsive poly (ethylene glycol) hydrogel nanocomposite. *RSC advances*. 7(44):27637-27644.
- Tomal, W. & J. Ortyl. 2020. Water-soluble photoinitiators in biomedical applications. *Polymers*. 12(5): 1073.
- Van Hoorick, J., P. Gruber, M. Markovic, M. Rollot, G.J. Graulus, M. Vagenende, M. Tromayer, J. Van Erps, H. Thienpont, J.C. Martins, and S. Baudis. 2018. Highly Reactive Thiol-Norbornene Photo-Click Hydrogels: Toward Improved Processability. *Macromolecular rapid communications*. 39(14):1800181.
- Wang, G., X. Wang, and L. Huang. 2017. Feasibility of chitosan-alginate (chi-alg) hydrogel used as scaffold for neural tissue engineering: a pilot study in vitro. *Biotechnology & Biotechnological Equipment*. 31(4): 766-773.
- Wang, C.S., N. Virgilio, P.M. Wood-Adams, P.M. and M.C Heuzey. 2018. A gelation mechanism for gelatin/polysaccharide aqueous mixtures. *Food Hydrocolloids*. 79:462-472.
- Williams, C.G., A. N. Malik, T.K. Kim. P.N. Manson, and J. H. Elisseeff. 2005. Variable cytocompatibility of six cell lines with photoinitiators used for polymerizing hydrogels and cell encapsulation. *Biomaterials*. 26: 1211-1218.



- Winiati, W., T. Wahyudi, I. Kurniawan, and R. Yulina. 2012. Peningkatan Sifat Mekanik Serat Kitosan Melalui Proses Plastisisasi Dengan Gliserol Setelah Proses Dehidrasi Dengan Metanol. *Arena Tekstil*. 27(2).
- Wu, X., H.A. Reed, L.F. Rhodes, L.F., E. Elce, R. Ravikiran, R.A. Shick, C.L. Henderson, S.A.B. Allen, and P.A. Kohl. 2003. Photoinitiation systems and thermal decomposition of photodefinable sacrificial materials. *Journal of applied polymer science*. 88(5):1186-1195.
- Wu, Y., L. Yuan, N.A. Sheng, Z.Q. Gu, W.H. Feng, H.Y. Yin, Y. Morsi, and X.M. Mo. 2017. A soft tissue adhesive based on aldehyde-sodium alginate and amino-carboxymethyl chitosan preparation through the Schiff reaction. *Frontiers of Materials Science*. 11(3):215-222.
- Yadollahi, M., H. Namazi, and M. Aghazadeh. 2015. Antibacterial carboxymethyl cellulose/Ag nanocomposite hydrogels cross-linked with layered double hydroxides. *International journal of biological macromolecules*. 79:269-277.
- Yang, Q. 2021, March. Recent developments of nanotechnology in tissue adhesives. In *IOP Conference Series: Earth and Environmental Science*. IOP Publishing. 714(3): 032089.
- Zhang, Y. 2021. Applications of Fibrin Tissue Sealant. In *IOP Conference Series: Earth and Environmental Science*. IOP Publishing. 632(5):052098.
- Zhang, S. & R. Ruiz. 2012. Adhezion Biomedical LLC, 2012. Stable and sterile tissue adhesive composition with a controlled high viscosity. U.S. Patent 8,293,838.