DAFTAR PUSTAKA

Ahn, J., Choi, M., 2023. The pH-induced physical properties of ionic contact lens material. Heliyon 9, e12996. https://doi.org/10.1016/j.heliyon.2023.e12996

Azad, M.S., 2024. Influence of Polymer Concentration on the Viscous and (Linear and Non-Linear) Viscoelastic Properties of Hydrolyzed Polyacrylamide Systems in Bulk Shear Field and Porous Media. Polymers 16, 2617. https://doi.org/10.3390/polym16182617

Bahr, M.N., Modi, D., Patel, S., Campbell, G., Stockdale, G., 2019. Understanding the Role of Sodium Lauryl Sulfate on the Biorelevant Solubility of a Combination of Poorly Water-Soluble Drugs Using High Throughput Experimentation and Mechanistic Absorption Modeling. J Pharm Pharm Sci 22, 221–246. https://doi.org/10.18433/jpps30347

Butylina, S., Geng, S., Laatikainen, K., Oksman, K., 2020. Cellulose Nanocomposite Hydrogels: From Formulation to Material Properties. Front. Chem. 8, 655. https://doi.org/10.3389/fchem.2020.00655

Choi, S.W., Kim, J. (2018) 'Lensa Kontak Terapeutik dengan Kendaraan Polimer untuk Pengiriman Obat Okular: Ulasan' Bahan. 11: 1125

Choudhary, R., Koppala, S., Swamiappan, S., 2015. Bioactivity studies of calcium magnesium silicate prepared from eggshell waste by sol–gel combustion synthesis. Journal of Asian Ceramic Societies 3, 173–177. https://doi.org/10.1016/j.jascer.2015.01.002

Daemi, H., Barikani, M., 2012. Synthesis and characterization of calcium alginate nanoparticles, sodium homopolymannuronate salt and its calcium nanoparticles. Scientia Iranica 19, 2023–2028. https://doi.org/10.1016/j.scient.2012.10.005

Dejeu, I.L., Vicaș, L.G., Vlaia, L.L., Jurca, T., Mureșan, M.E., Pallag, A., Coneac, G.H., Olariu, I.V., Muț, A.M., Bodea, A.S., Dejeu, G.E., Maghiar, O.A., Marian, E., 2022. Study for Evaluation of Hydrogels after the Incorporation of Liposomes Embedded with Caffeic Acid. Pharmaceuticals 15, 175. https://doi.org/10.3390/ph15020175

Elim, D., Fitri, A.M.N., Mahfud, M.A.S., Afika, N., Sultan, N.A.F., Hijrah, Asri, R.M., Permana, A.D., 2023. Hydrogel forming microneedle-mediated transdermal delivery of sildenafil citrate from polyethylene glycol reservoir: An ex vivo proof of concept study. Colloids and Surfaces B: Biointerfaces 222, 113018. https://doi.org/10.1016/j.colsurfb.2022.113018

s Hidrogel Superabsorben poli (akrilamida-ko-kalium akrilat) ik Radiasi dan Karakterisasinya. Pusat Aplikasi Teknologi Isotop Jakarta. 107 108.

Fathalla, Z., Mustafa, W.W., Abdelkader, H., Moharram, H., Sabry, A.M., Alany, R.G., 2022. Hybrid thermosensitive-mucoadhesive *in situ* forming gels for enhanced corneal wound healing effect of L-carnosine. Drug Delivery 29, 374–385. https://doi.org/10.1080/10717544.2021.2023236

Haminiuk, C.W.I., Maciel, G.M., Plata-Oviedo, M.S.V., Quenehenn, A., Scheer, A.P., 2009. Study of the Rheological Parameters of Honey Using the Mitschka Method. International Journal of Food Engineering 5. https://doi.org/10.2202/1556-3758.1572

Hoffman, J.J., Burton, M.J., Leck, A., 2021. Mycotic Keratitis—A Global Threat from the Filamentous Fungi. JoF 7, 273. https://doi.org/10.3390/jof7040273

Hu, C., Lu, W., Mata, A., Nishinari, K., Fang, Y., 2021. Ions-induced gelation of alginate: Mechanisms and applications. International Journal of Biological Macromolecules 177, 578–588. https://doi.org/10.1016/j.ijbiomac.2021.02.086

Ibrahim, S.M., Abou El Fadl, F.I., El-Naggar, A.A., 2014. Preparation and characterization of crosslinked alginate–CMC beads for controlled release of nitrate salt. J Radioanal Nucl Chem 299, 1531–1537. https://doi.org/10.1007/s10967-013-2820-4

Ioniță, M., Vlăsceanu, G.M., Toader, A.G., Manole, M., 2023. Advances in Therapeutic Contact Lenses for the Management of Different Ocular Conditions. JPM 13, 1571. https://doi.org/10.3390/jpm13111571

Jansook, P., Maw, P.D., Soe, H.M.S.H., Chuangchunsong, R., Saiborisuth, K., Payonitikarn, N., Autthateinchai, R., Pruksakorn, P., 2020. Development of amphotericin B nanosuspensions for fungal keratitis therapy: effect of self-assembled γ-cyclodextrin. J. Pharm. Investig. 50, 513–525. https://doi.org/10.1007/s40005-020-00474-z

Kalalo, T., Miatmoko, A., Tanojo, H., Erawati, T., Hariyadi, D.M., Rosita, N., 2022. Effect of Sodium Alginate Concentration on Characteristics, Stability and Drug Release of Inhalation Quercetin Microspheres. JFIKI 9, 107–114. https://doi.org/10.20473/jfiki.v9i22022.107-114

Korogiannaki, M., Guidi, G., Jones, L., Sheardown, H., 2015. Timolol maleate release from hyaluronic acid-containing model silicone hydrogel contact lens materials. J Biomater Appl 30, 361–376. https://doi.org/10.1177/0885328215581507

Lu, H., Butler, J.A., Britten, N.S., Venkatraman, P.D., Rahatekar, S.S., 2021. Natural Antimicrobial Nano Composite Fibres Manufactured from a Combination of ıd Oregano Essential Oil. Nanomaterials 11, 2062. ɡ/10.3390/nano11082062

hirah, N.A., Akram, M., Mahfufah, U., Saputra, M.D., Elim, D., :., Sultan, N.A.F., Himawan, A., Domínguez-Robles, J., ɔmkul, B., Mir, M., Permana, A.D., 2023. Solid Dispersion into Dissolving Microneedles for Improved Antifungal Activity of B: *In Vivo* Study in a Fungal Keratitis Model. Mol.

Pharmaceutics 20, 6246–6261. https://doi.org/10.1021/acs.molpharmaceut.3c00647

Mishra, A., Bano, M., Bisen, A.C., Verma, S., Sanap, S.N., Kishor, R., Shukla, P.K., Bhatta, R.S., 2020. Topical corneal targeted sustained release amphotericin B liposomal formulation for the treatment of fungal keratitis and its PK-PD evaluation. Journal of Drug Delivery Science and Technology 60, 101944. https://doi.org/10.1016/j.jddst.2020.101944

Mualim, E., Hukman, S.A.F., Siagian, J.R., Mantong, T.A., Dahlan, R.M., Permana, A.D., 2024. UV–Vis spectrophotometry for rapid and specific quantification of amphotericin B: analytical method validation for ex vivo and in vivo studies in the development of nanoemulsion-incorporated thermosensitive gel. ANAL. SCI. 40, 615–631. https://doi.org/10.1007/s44211-023-00493-4

Nan, N.F.C., Zainuddin, N., Ahmad, M., 2019. Nan, N.F.C., Norhazlin Zainuddin, dan Mansor Ahmad. “Preparation and swelling study of CMC hydrogel as potential superabsorbent.” Pertanika Journal of Science and Technology 27 (1 Januari 2019): 489–98. Pertanika Journal of Science and Technology 27, 489–498.

Nurkhanifah, S.I., Husni, A., 2020. Rasio Natrium Karbonat Dalam Ekstraksi Berpengaruh Pada Mutu Natrium Alginat *Sargassum muticum*. teknosains 10, 10. https://doi.org/10.22146/teknosains.41982

Nurman, S., Yulia, R., Irmayanti, Noor, E., Candra Sunarti, T., 2019. The Optimization of Gel Preparations Using the Active Compounds of Arabica Coffee Ground Nanoparticles. Sci. Pharm. 87, 32. https://doi.org/10.3390/scipharm87040032

Prajapat, V.M., Aalhate, M., Sriram, A., Mahajan, S., Maji, I., Gupta, U., Kumari, D., Singh, K., Kalia, N.P., Dua, K., Singh, S.K., Singh, P.K., 2024. Amphotericin B loaded nanoemulsion: Optimization, characterization and in-vitro activity against L. donovani promastigotes. Parasitology International 100, 102848. https://doi.org/10.1016/j.parint.2023.102848

Priya, A.S., Premanand, R., Ragupathi, I., Bhaviripudi, V.R., Aepuru, R., Kannan, K., Shanmugaraj, K., 2024. Comprehensive Review of Hydrogel Synthesis, Characterization, and Emerging Applications. J. Compos. Sci. 8, 457. https://doi.org/10.3390/jcs8110457

Ramöller, I. et al. (2020) ‘Novel Design Approaches in the Fabrication of Polymeric Microarray Patches via Micromoulding’, Micromachines, 11(6), p. 554. Available at: https://doi.org/10.3390/mi11060554.

ić, I.M., Svirčev, Z., 2023. Preparation and Characterization of rogels with High Water-Retaining Capacity. Polymers 15, 2592. g/10.3390/polym15122592

Schwarte, L.A., 2018. Correlation Coefficients: Appropriate Use retation. Anesthesia & Analgesia 126, 1763–1768. g/10.1213/ANE.0000000000002864

Seera, S.D.K., Kundu, D., Banerjee, T., 2020. Physical and chemical crosslinked microcrystalline cellulose-polyvinyl alcohol hydrogel: freeze–thaw mediated synthesis, characterization and in vitro delivery of 5-fluorouracil. Cellulose 27, 6521–6535. https://doi.org/10.1007/s10570-020-03249-9

Shi, X., Zhong, Q., Zhang, S., 2025. Starch-calcium inclusion complexes: Optimizing transparency, anti-fogging, and fluorescence in thermoplastic starch. Carbohydrate Polymers 348, 122842. https://doi.org/10.1016/j.carbpol.2024.122842

Siepmann, J., Siepmann, F., 2020. Sink conditions do not guarantee the absence of saturation effects. International Journal of Pharmaceutics 577, 119009. https://doi.org/10.1016/j.ijpharm.2019.119009

Singh, A., Sharma, S., Yadagiri, G., Parvez, S., Gupta, R., Singhal, N.K., Koratkar, N., Singh, O.P., Sundar, S., Shanmugam, V., Mudavath, S.L., 2020. Sensible graphene oxide differentiates macrophages and *Leishmania*: a bio-nano interplay in attenuating intracellular parasite. RSC Adv. 10, 27502–27511. https://doi.org/10.1039/D0RA04266H

Siqueira, E.C.D., França, J.A.A.D., Souza, R.F.M.D., Leoterio, D.M.D.S., Cordeiro, J.N., Doboszewski, B., 2023. Recent advances in the development of the physically crosslinked hydrogels and their biomedical applications. RSD 12, e18212843073. https://doi.org/10.33448/rsd-v12i8.43073

Stapleton, F., 2023. The epidemiology of infectious keratitis. The Ocular Surface 28, 351–363. https://doi.org/10.1016/j.jtos.2021.08.007

Stojkov, G., Niyazov, Z., Picchioni, F., Bose, R.K., 2021. Relationship between Structure and Rheology of Hydrogels for Various Applications. Gels 7, 255. https://doi.org/10.3390/gels7040255

Szekalska, M., Sosnowska, K., Czajkowska-Kośnik, A., Winnicka, K., 2018. Calcium Chloride Modified Alginate Microparticles Formulated by the Spray Drying Process: A Strategy to Prolong the Release of Freely Soluble Drugs. Materials 11, 1522. https://doi.org/10.3390/ma11091522

Szulc-Musioł, B., Siemiradzka, W., Dolińska, B., 2023. Formulation and Evaluation of Hydrogels Based on Sodium Alginate and Cellulose Derivatives with Quercetin for Topical Application. Applied Sciences 13, 7826. https://doi.org/10.3390/app13137826

Tan, J., Luo, Y., Guo, Y., Zhou, Y., Liao, X., Li, D., Lai, X., Liu, Y., 2023. Development of alginate-based hydrogels: Crosslinking strategies and biomedical applications. International Journal of Biological Macromolecules 239, s://doi.org/10.1016/j.ijbiomac.2023.124275

S., Deshmukh, R., Said, D.G., Dua, H.S., 2021. Infectious pdate on epidemiology, causative microorganisms, risk factors, imicrobial resistance. Eye 35, 1084–1101. g/10.1038/s41433-020-01339-3

Tran, N.-P.-D., Yang, M.-C., 2020. The Ophthalmic Performance of Hydrogel Contact Lenses Loaded with Silicone Nanoparticles. Polymers 12, 1128. https://doi.org/10.3390/polym12051128

Tran, N.-P.-D., Yang, M.-C., Tran-Nguyen, P.L., 2021. Evaluation of silicone hydrogel contact lenses based on poly(dimethylsiloxane) dialkanol and hydrophilic polymers. Colloids and Surfaces B: Biointerfaces 206, 111957. https://doi.org/10.1016/j.colsurfb.2021.111957

Wahyuningsih, R., Adawiyah, R., Sjam, R., Prihartono, J., Ayu Tri Wulandari, E., Rozaliyani, A., Ronny, R., Imran, D., Tugiran, M., Siagian, F.E., Denning, D.W., 2021. Serious fungal disease incidence and prevalence in Indonesia. Mycoses 64, 1203–1212. https://doi.org/10.1111/myc.13304

Wang, X., Mohammad, I.S., Fan, L., Zhao, Z., Nurunnabi, M., Sallam, M.A., Wu, J., Chen, Z., Yin, L., He, W., 2021. Delivery strategies of amphotericin B for invasive fungal infections. Acta Pharmaceutica Sinica B 11, 2585–2604. https://doi.org/10.1016/j.apsb.2021.04.010

Weng, J., Tong, H.H.Y., Chow, S.F., 2020. In Vitro Release Study of the Polymeric Drug Nanoparticles: Development and Validation of a Novel Method. Pharmaceutics 12, 732. https://doi.org/10.3390/pharmaceutics12080732

Wu, N., Yu, H., Sun, M., Li, Z., Zhao, F., Ao, Y., Chen, H., 2020. Investigation on the Structure and Mechanical Properties of Highly Tunable Elastomeric Silk Fibroin Hydrogels Cross-Linked by γ-Ray Radiation. ACS Appl. Bio Mater. 3, 721–734. https://doi.org/10.1021/acsabm.9b01062

Xu, J., Xue, Y., Hu, G., Lin, T., Gou, J., Yin, T., He, H., Zhang, Y., Tang, X., 2018. A comprehensive review on contact lens for ophthalmic drug delivery. Journal of Controlled Release 281, 97–118. https://doi.org/10.1016/j.jconrel.2018.05.020

Yang, X., Dargaville, B., Hutmacher, D., 2021. Elucidating the Molecular Mechanisms for the Interaction of Water with Polyethylene Glycol-Based Hydrogels: Influence of Ionic Strength and Gel Network Structure. Polymers 13, 845. https://doi.org/10.3390/polym13060845

Zhang, H., Cheng, J., Ao, Q., 2021. Preparation of Alginate-Based Biomaterials and Their Applications in Biomedicine. Marine Drugs 19, 264. https://doi.org/10.3390/md19050264