

## REFERENCES

## REFERENCES

- Abdolahifard, M., Bahrami, S. H., & Malek, R. M. A. (2011). Surface Modification of PET Fabric by Graft Copolymerization with Acrylic Acid and Its Antibacterial Properties. *ISRN Organic Chemistry*, 2011, 265415. <https://doi.org/10.5402/2011/265415>
- Abdul Khalil, H. P. S., Saurabh, C. K., Syakir, M. I., Fazita, M. R. N., Bhat, A., Banerjee, A.,...Tahir, P. M. (2019). 13 - Barrier properties of biocomposites/hybrid films. In M. Jawaid, M. Thariq, & N. Saba (Eds.), *Mechanical and Physical Testing of Biocomposites, Fibre-Reinforced Composites and Hybrid Composites* (pp. 241-258). Woodhead Publishing. <https://doi.org/https://doi.org/10.1016/B978-0-08-102292-4.00013-8>
- Alem, H., Duwez, A.-S., Lussis, P., Lipnik, P., Jonas, A. M., & Demoustier-Champagne, S. (2008). Microstructure and thermo-responsive behavior of poly(*N*-isopropylacrylamide) brushes grafted in nanopores of track-etched membranes. *Journal of Membrane Science*, 308(1), 75-86. <https://doi.org/https://doi.org/10.1016/j.memsci.2007.09.036>
- Apel, P. (2001). Track etching technique in membrane technology. *Radiation Measurements*, 34(1), 559-566. [https://doi.org/https://doi.org/10.1016/S1350-4487\(01\)00228-1](https://doi.org/https://doi.org/10.1016/S1350-4487(01)00228-1)
- Arundhathi, B., Pabba, M., Raj, S. S., Sahu, N., & Sridhar, S. (2024). Advancements in Mixed-Matrix Membranes for Various Separation Applications: State of the Art and Future Prospects. *Membranes*, 14(11), 224.
- Bashir, S., Hina, M., Iqbal, J., Rajpar, A. H., Mujtaba, M. A., Alghamdi, N. A.,...Ramesh, S. (2020). Fundamental Concepts of Hydrogels: Synthesis, Properties, and Their Applications. *Polymers*, 12(11), 2702.

- Bernardo, P., Drioli, E., & Golemme, G. (2009). Membrane Gas Separation: A Review/State of the Art. *Industrial & Engineering Chemistry Research*, 48(10), 4638-4663. <https://doi.org/10.1021/ie8019032>
- Corporation, C. (n.d.). *Solvent Choice for Microwave Synthesis*. Retrieved June 25 from [https://cem.com/pt/microwave-chemistry/solvent-choice?\\_\\_store=pt&\\_\\_from\\_store=en](https://cem.com/pt/microwave-chemistry/solvent-choice?__store=pt&__from_store=en)
- D. Ramasamy, V. D., & Joyner, J. J. (2017). Effect of Time and Temperature on Respiration Rate of Pomegranate arils (cv. 'Bhagwa'). *International Journal of Current Microbiology and Applied Sciences*, 6(4), 1617-1626. <https://doi.org/10.20546/ijcmas.2017.604.198>
- Daud, S. M., Kim, B. H., Ghasemi, M., & Daud, W. R. (2015). Separators used in microbial electrochemical technologies: Current status and future prospects. *Bioresour Technol*, 195, 170-179. <https://doi.org/10.1016/j.biortech.2015.06.105>
- Drikvand, H. N., Golgoli, M., Zargar, M., Ulbricht, M., Nejati, S., & Mansourpanah, Y. (2022). Thermo-Responsive Hydrophilic Support for Polyamide Thin-Film Composite Membranes with Competitive Nanofiltration Performance. *Polymers*, 14(16), 3376. <https://doi.org/https://doi.org/10.3390/polym14163376>
- Front Matter. (2015). In A. Mishra, T. Vats, & J. H. Clark (Eds.), *Microwave-Assisted Polymerization* (pp. 0). The Royal Society of Chemistry. <https://doi.org/10.1039/9781782623182-FP001>
- Futscher, M. H., Philipp, M., Müller-Buschbaum, P., & Schulte, A. (2017). The Role of Backbone Hydration of Poly(N-isopropyl acrylamide) Across the Volume Phase Transition Compared to its Monomer. *Scientific Reports*, 7(1), 17012. <https://doi.org/10.1038/s41598-017-17272-7>
- Gandhi, A., Paul, A., Sen, S. O., & Sen, K. K. (2015). Studies on thermoresponsive polymers: Phase behaviour, drug delivery and biomedical applications. *Asian Journal of Pharmaceutical Sciences*, 10(2), 99-107. <https://doi.org/10.1016/j.ajps.2014.08.010>
- Gong, S., He, T., Huang, Q., Shu, X., & Zhou, X. (2020). Anchoring PNIPAM on ATP Surface via hydrogen bonding and coordination for a temperature-responsive

- adsorption of hydrophobic drug. *SN Applied Sciences*, 2. <https://doi.org/10.1007/s42452-020-2643-1>
- Gu, J., Hong, Z., Zhang, S., Li, Y., Jia, R., Tan, R.,...Ran, J. (2023). Confined intercalating sulfonated graphene quantum dots into GO laminates for fast alkali recovery. *Journal of Membrane Science*, 685, 121978.
- Gupta, B., Plummer, C., Bisson, I., Frey, P., & Hilborn, J. (2002). Plasma-induced graft polymerization of acrylic acid onto poly(ethylene terephthalate) films: characterization and human smooth muscle cell growth on grafted films. *Biomaterials*, 23(3), 863-871. [https://doi.org/https://doi.org/10.1016/S0142-9612\(01\)00195-8](https://doi.org/10.1016/S0142-9612(01)00195-8)
- Hansen, C. M. (2007). *Hansen solubility parameters: a user's handbook*. CRC press.
- He, W., Ma, Y., Gao, X., Wang, X., Dai, X., & Song, J. (2020). Application of Poly(N-isopropylacrylamide) As Thermosensitive Smart Materials. *Journal of Physics: Conference Series*, 1676(1), 012063. <https://doi.org/10.1088/1742-6596/1676/1/012063>
- Hernández-Rivera, L., Mullen, R., & Cantwell, M. (1992). Textural Changes of Asparagus in Relation to Delays in Cooling and Storage Conditions. *HortTechnology*, 2(3), 378-381. [https://doi.org/https://doi.org/10.21273/HORTTECH.2.3.378](https://doi.org/10.21273/HORTTECH.2.3.378)
- Herrmann, A., Haag, R., & Schedler, U. (2021). Hydrogels and Their Role in Biosensing Applications. *Adv Healthc Mater*, 10(11), e2100062. [https://doi.org/https://doi.org/10.1002/adhm.202100062](https://doi.org/10.1002/adhm.202100062)
- Hsieh, Y.-L., Pugh, C., & Ellison, M. S. (1984). The effects of selected organic solvents on the polymerization of acrylic acid to poly(ethylene terephthalate) by glow discharge. *Journal of Applied Polymer Science*, 29(11), 3547-3560. [https://doi.org/https://doi.org/10.1002/app.1984.070291128](https://doi.org/10.1002/app.1984.070291128)
- Ismail, A. F., Khulbe, K. C., & Matsuura, T. (2015). Fundamentals of Gas Permeation Through Membranes. In *Gas Separation Membranes* (pp. 11-35). [https://doi.org/10.1007/978-3-319-01095-3\\_2](https://doi.org/10.1007/978-3-319-01095-3_2)
- Jain, K., Vedarajan, R., Watanabe, M., Ishikiriya, M., & Matsumi, N. (2015). Tunable LCST behavior of poly(N-isopropylacrylamide/ionic liquid) copolymers

- [10.1039/C5PY00998G]. *Polymer Chemistry*, 6(38), 6819-6825.  
<https://doi.org/https://doi.org/10.1039/C5PY00998G>
- Kajornprai, T., Katesripongsa, P., Nam, S. Y., Hamid, Z. A. A., Ruksakulpiwat, Y., Suppakarn, N., & Trongsatitkul, T. (2023). Potential Applications of Thermoresponsive Poly(N-Isopropylacrylamide)-Grafted Nylon Membranes: Effect of Grafting Yield and Architecture on Gating Performance. *Polymers*, 15(3), 497.
- Kajornprai, T., Katesripongsa, P., Nam, S. Y., Hamid, Z. A. A., Ruksakulpiwat, Y., Suppakarn, N., & Trongsatitkul, T. (2023). Potential Applications of Thermoresponsive Poly(N-Isopropylacrylamide)-Grafted Nylon Membranes: Effect of Grafting Yield and Architecture on Gating Performance. *Polymers*, 15(3).  
<https://doi.org/https://doi.org/10.3390/polym15030497>
- Kappe, C. O., Stadler, A., & Dallinger, D. (2012). *Microwaves in organic and medicinal chemistry* (Vol. 52). John Wiley & Sons.
- Kargwal, R., Garg, M., Singh, V. K., Garg, R., & Kumar, N. (2020). Principles of modified atmosphere packaging for shelf life extension of fruits and vegetables: An overview of storage conditions. *International Journal of Chemical Studies*, 8, 2245-2252.
- Katesripongsa, P., & Trongsatitkul, T. (2019). An optimization of microwave-assisted grafting of poly(N-isopropylacrylamide) (PNIPAM) onto nylon-6 porous film for thermo-responsive gating membrane. *Mechanical Engineering Journal*, 6(3), 19-00038. <https://doi.org/https://doi.org/10.1299/mej.19-00038>
- Kempe, K., Becer, C. R., & Schubert, U. S. (2011). Microwave-Assisted Polymerizations: Recent Status and Future Perspectives. *Macromolecules*, 44(15), 5825-5842.  
<https://doi.org/https://doi.org/10.1021/ma2004794>
- Kobayashi, S., & Müllen, K. (2015). *Encyclopedia of polymeric nanomaterials*. Springer Berlin Heidelberg Berlin Heidelberg.
- Kotsanopoulos, K. V., & Arvanitoyannis, I. S. (2015). Membrane Processing Technology in the Food Industry: Food Processing, Wastewater Treatment, and Effects on Physical, Microbiological, Organoleptic, and Nutritional Properties of Foods.

- Critical Reviews in Food Science and Nutrition*, 55(9), 1147-1175.  
<https://doi.org/10.1080/10408398.2012.685992>
- Kurecic, M., Smole, M., & Stana-Kleinschek, K. (2012). UV POLYMERIZATION OF POLY (N-ISOPROPYLACRYLAMIDE) HYDROGEL UV POLIMERIZACIJA POLI (N-ISOPROPILAKRILAMIDNEGA) HIDROGELA. *Materiali in Tehnologije, MTAEC9*, 2012.
- Lanzalaco, S., & Armelin, E. (2017). Poly(N-isopropylacrylamide) and Copolymers: A Review on Recent Progresses in Biomedical Applications. *Gels*, 3(4).  
<https://doi.org/https://doi.org/10.3390/gels3040036>
- Li, J., Zhu, X., Zhu, J., & Cheng, Z. (2006). Microwave-assisted nitroxide-mediated radical polymerization of styrene. *Radiation Physics and Chemistry*, 75(2), 253-258.  
<https://doi.org/https://doi.org/10.1016/j.radphyschem.2005.06.006>
- Liu, X., Zhang, G., Al Mohawes, K. B., & Khashab, N. M. (2024). Smart membranes for separation and sensing [10.1039/D4SC04793A]. *Chemical Science*, 15(45), 18772-18788. <https://doi.org/10.1039/D4SC04793A>
- Liu, Z., Ju, X. J., Wang, W., Xie, R., Jiang, L., Chen, Q.,...Chu, L. Y. (2017). Stimuli-Responsive Capsule Membranes for Controlled Release in Pharmaceutical Applications. *Curr Pharm Des*, 23(2), 295-301.  
<https://doi.org/10.2174/1381612822666161021141429>
- Luna, E., Olazabal, I., Roosen, M., Müller, A., Jehanno, C., Ximenis, M.,...Sardon, H. (2024). Towards a better understanding of the cosolvent effect on the low-temperature glycolysis of Polyethylene Terephthalate (PET). *Chemical Engineering Journal*, 482, 148861.  
<https://doi.org/https://doi.org/10.1016/j.cej.2024.148861>
- Ma, R., Li, J., Zeng, P., Duan, L., Dong, J., Ma, Y., & Yang, L. (2024). The Application of Membrane Separation Technology in the Pharmaceutical Industry. *Membranes*, 14(1), 24.
- Macedo, I., Sousa-Gallagher, M. J., Oliveira, J., & Byrne, E. (2013). Quality by design for packaging of granola breakfast product. *Food Control*, 29, 438-443.  
<https://doi.org/10.1016/j.foodcont.2012.05.045>

- Mahajan, P. V., Pathak, N., Bovi, G. G., Ntsoane, M. L., Jalali, A., Keshri, N.,...Geyer, M. (2021). Recent Advances on Packaging and Storage Technologies for the Preservation of Fresh Produce. In *Innovative Food Processing Technologies* (pp. 1-21). <https://doi.org/10.1016/b978-0-08-100596-5.23040-0>
- Mauricio, M. R., Carvalho, G. M., Radovanovic, E., Muniz, E. C., & Rubira, A. F. (2009). Analysis of poly(*N*-isopropylacrylamide) grafted onto the surface of PET films by SI-ATRP technique. *Materials Science and Engineering: C*, 29(2), 594-598. <https://doi.org/https://doi.org/10.1016/j.msec.2008.10.017>
- Nagase, K. (2021). Thermoresponsive interfaces obtained using poly(*N*-isopropylacrylamide)-based copolymer for bioseparation and tissue engineering applications. *Adv Colloid Interface Sci*, 295, 102487. <https://doi.org/https://doi.org/10.1016/j.cis.2021.102487>
- Naito, H., Takewa, Y., Mizuno, T., Ohya, S., Nakayama, Y., Tatsumi, E.,...Taenaka, Y. (2004). Three-Dimensional Cardiac Tissue Engineering Using a Thermoresponsive Artificial Extracellular Matrix. *ASAIO Journal*, 50(4).
- Naziri Mehrabani, S. A., Vatanpour, V., & Koyuncu, I. (2022). Green solvents in polymeric membrane fabrication: A review. *Separation and Purification Technology*, 298, 121691. <https://doi.org/https://doi.org/10.1016/j.seppur.2022.121691>
- Nur Hanani, Z. A., Sonawane, A. D., & Mahajan, P. V. (2023). Impact of humidity, temperature and condensation on O<sub>2</sub> and CO<sub>2</sub> transmission rate of modified atmosphere packages. *Food Packaging and Shelf Life*, 39. <https://doi.org/https://doi.org/10.1016/j.fpsl.2023.101132>
- Obotey Ezugbe, E., & Rathilal, S. (2020). Membrane Technologies in Wastewater Treatment: A Review. *Membranes*, 10(5), 89.
- Okano, T., Yamada, N., Okuhara, M., Sakai, H., & Sakurai, Y. (1995). Mechanism of cell detachment from temperature-modulated, hydrophilic-hydrophobic polymer surfaces. *Biomaterials*, 16(4), 297-303. [https://doi.org/https://doi.org/10.1016/0142-9612\(95\)93257-E](https://doi.org/https://doi.org/10.1016/0142-9612(95)93257-E)
- Oral, N., & Basal, G. (2023). Smart Antifouling and Self-Cleaning Membrane for Effective Oil/Water Separation. *Macromolecular Chemistry and Physics*, 224(20), 2300239. <https://doi.org/https://doi.org/10.1002/macp.202300239>

- Park, S., Thanakkasaranee, S., Shin, H., Lee, Y., Tak, G., & Seo, J. (2021). PET/Bio-Based Terpolyester Blends with High Dimensional Thermal Stability. *Polymers*, 13, 728. <https://doi.org/10.3390/polym13050728>
- Phromphen, P. (2015). *The permeation and moisture transmission properties of a thermosensitive membrane barrier for chemical protective clothing* University of Leeds]. <https://etheses.whiterose.ac.uk/12002/>
- Pinnau, I., & Freeman, B. D. (1999). Formation and Modification of Polymeric Membranes: Overview. In *Membrane Formation and Modification* (Vol. 744, pp. 1-22). American Chemical Society. <https://doi.org/doi:10.1021/bk-2000-0744.ch001>
- 10.1021/bk-2000-0744.ch001
- Plasquy, E., Florido, M. C., Sola-Guirado, R. R., García Martos, J. M., & García Martín, J. F. (2021). Effect of Temperature and Time on Oxygen Consumption by Olive Fruit: Empirical Study and Simulation in a Non-Ventilated Container. *Fermentation*, 7(4), 200.
- Pramod, V. M., & Dong Sun, L. (2023). Modified atmosphere and moisture condensation in packaged fresh produce: Scientific efforts and commercial success. *Postharvest Biology and Technology*, 198, 112235. <https://doi.org/https://doi.org/10.1016/j.postharvbio.2022.112235>
- Praveen, W., Madathil, B. K., Sajin Raj, R. S., Kumary, T. V., & Anil Kumar, P. R. (2017). A flexible thermoresponsive cell culture substrate for direct transfer of keratinocyte cell sheets. *Biomedical Materials*, 12(6), 065012. <https://doi.org/https://dx.doi.org/10.1088/1748-605X/aa8436>
- Rahman, N., Sato, N., Sugiyama, M., Hidaka, Y., Okabe, H., & Hara, K. (2014). The effect of hot DMSO treatment on the  $\gamma$ -ray-induced grafting of acrylamide onto PET films. *Polymer Journal*, 46(7), 412-421. <https://doi.org/https://doi.org/10.1038/pj.2014.12>
- Rana, M. M., & De la Hoz Siegler, H. (2021). Tuning the Properties of PNIPAm-Based Hydrogel Scaffolds for Cartilage Tissue Engineering. *Polymers*, 13(18). <https://doi.org/https://doi.org/10.3390/polym13183154>

- Ranganath, A. S., Baji, A., Fortunato, G., & Rossi, R. M. (2023). Fibrous thermoresponsive Janus membranes for directional vapor transport. *arXiv preprint arXiv:2301.00348*.
- Reinecke, S. A., & Sleep, B. E. (2002). Knudsen diffusion, gas permeability, and water content in an unconsolidated porous medium. *Water Resources Research*, 38(12), 16-11-16-15. <https://doi.org/10.1029/2002wr001278>
- Saçlak, M., Eski, N., & Talu, M. (1995). Graft Copolymerization of Methyl Methacrylate onto Poly(Ethylene Terephthalate) Fibers Using Benzoyl Peroxide. *Journal of Macromolecular Science, Part A*, 32(10), 1735-1749. <https://doi.org/10.1080/10601329508010018>
- Salehi, H., Shakeri, A., & Lammertink, R. G. H. (2022). Thermo-responsive graft copolymer PSf-g-PNIPM: Reducing the structure parameter via morphology control of forward osmosis membrane substrates. *Journal of Membrane Science*, 661, 120794. <https://doi.org/https://doi.org/10.1016/j.memsci.2022.120794>
- Shoji, T., Sugo, D., Nagasawa, F., Murakoshi, K., Kitamura, N., & Tsuboi, Y. (2017). Highly Sensitive Detection of Organic Molecules on the Basis of a Poly(N-isopropylacrylamide) Microassembly Formed by Plasmonic Optical Trapping. *Analytical Chemistry*, 89(1), 532-537. <https://doi.org/10.1021/acs.analchem.6b04024>
- Silvestre, W. P., Duarte, J., Tessaro, I. C., & Baldasso, C. (2022). Non-Supported and PET-Supported Chitosan Membranes for Pervaporation: Production, Characterization, and Performance. *Membranes*, 12(10). <https://doi.org/https://doi.org/10.3390/membranes12100930>
- Siracusa, V. (2012). Food Packaging Permeability Behaviour: A Report. *International Journal of Polymer Science*, 2012, 1-11. <https://doi.org/10.1155/2012/302029>
- Siti, N., David, K. W., Christelle, Y., Julius, M., Simon, S., & João, C. (2017). Vacuum-assisted tailoring of pore structures of phenolic resin derived carbon membranes. *Journal of Membrane Science*, 525, 240-248. <https://doi.org/https://doi.org/10.1016/j.memsci.2016.11.002>
- Tai, S. L., Abidin, M. N. Z., Ma'amor, A., Hashim, N. A., & Hashim, M. L. H. (2025). Polyethylene terephthalate membrane: A review of fabrication techniques,

- separation processes, and modifications. *Separation and Purification Technology*, 354, 129343. <https://doi.org/https://doi.org/10.1016/j.seppur.2024.129343>
- Thirupathi, K., Phan, T. T. V., Santhamoorthy, M., Ramkumar, V., & Kim, S. C. (2022). pH and Thermoresponsive PNIPAm-co-Polyacrylamide Hydrogel for Dual Stimuli-Responsive Controlled Drug Delivery. *Polymers*, 15(1). <https://doi.org/https://doi.org/10.3390/polym15010167>
- Tiwari, A., & Sancaktar, E. (2018). Poly (N-isopropylacrylamide) grafted temperature responsive PET membranes: An ultrafast method for membrane processing using KrF excimer laser at 248 nm. *Journal of Membrane Science*, 552, 357-366. <https://doi.org/https://doi.org/10.1016/j.memsci.2018.02.017>
- Tripathi, B. P., Dubey, N. C., Simon, F., & Stamm, M. (2014). Thermo responsive ultrafiltration membranes of grafted poly(N-isopropyl acrylamide) via polydopamine. *RSC Adv.*, 4(64), 34073-34083. <https://doi.org/https://doi.org/10.1039/C4RA03485F>
- Vazquez, E., Muro, C., Pérez-Sicairos, S., Alvarado, Y., Díaz-Blancas, V., & Hernández, K. (2024). Synthesis of Responsive Membranes for Water Recovery through Desalination of Saline Industrial Effluents. *Sustainability*, 16(13), 5796.
- Vikulina, A. S., Feoktistova, N. A., Balabushevich, N. G., von Klitzing, R., & Volodkin, D. (2020). Cooling-Triggered Release from Mesoporous Poly(N-isopropylacrylamide) Microgels at Physiological Conditions. *ACS Appl Mater Interfaces*, 12(51), 57401-57409. <https://doi.org/https://doi.org/10.1021/acsami.0c15370>
- Wang, G., Xie, R., Ju, X. J., & Chu, L. Y. (2012). Thermo-Responsive Polyethersulfone Composite Membranes Blended with Poly(N-isopropylacrylamide) Nanogels. *Chemical Engineering & Technology*, 35(11), 2015-2022. <https://doi.org/https://doi.org/10.1002/ceat.201200235>
- Wang, J., Yang, X., Zheng, D., Yao, A., Hua, D., Srinivasapriyan, V., & Zhan, G. (2020). Fabrication of Bioinspired Gallic Acid-Grafted Chitosan/Polysulfone Composite Membranes for Dye Removal via Nanofiltration. *ACS Omega*, 5(22), 13077-13086. <https://doi.org/10.1021/acsomega.0c01013>

- Xiao, Q., Cui, Y., Meng, Y., Guo, F., Ruan, X., He, G., & Jiang, X. (2022). PNIPAm hydrogel composite membrane for high-throughput adsorption of biological macromolecules. *Separation and Purification Technology*, 294, 121224. <https://doi.org/https://doi.org/10.1016/j.seppur.2022.121224>
- Xie, W., Li, T., Chen, C., Wu, H., Liang, S., Chang, H.,...Crittenden, J. C. (2019). Using the Green Solvent Dimethyl Sulfoxide To Replace Traditional Solvents Partly and Fabricating PVC/PVC-g-PEGMA Blended Ultrafiltration Membranes with High Permeability and Rejection. *Industrial & Engineering Chemistry Research*, 58(16), 6413-6423. <https://doi.org/10.1021/acs.iecr.9b00370>
- Xu, X., Bizmark, N., Christie, K. S. S., Datta, S. S., Ren, Z. J., & Priestley, R. D. (2022). Thermoresponsive Polymers for Water Treatment and Collection. *Macromolecules*, 55(6), 1894-1909. <https://doi.org/https://doi.org/10.1021/acs.macromol.1c01502>
- Yang, X., Sun, Z., Gao, J., Yang, C., & Tang, D. (2019). Plasma-initiated polymerization of N-isopropylacrylamide and functionalized with dopamine for the adhesion to Hela cells. *Polymer Bulletin*, 77(2), 963-974. <https://doi.org/https://doi.org/10.1007/s00289-019-02784-1>
- Yu, D., Xiao, X., Shokoohi, C., Wang, Y., Sun, L., Juan, Z.,...Chen, J. (2023). Recent Advances in Stimuli-Responsive Smart Membranes for Nanofiltration. *Advanced Functional Materials*, 33(9), 2211983. <https://doi.org/https://doi.org/10.1002/adfm.202211983>
- Zaman, M., Liu, H., Xiao, H., Chibante, F., & Ni, Y. (2013). Hydrophilic modification of polyester fabric by applying nanocrystalline cellulose containing surface finish. *Carbohydrate Polymers*, 91(2), 560-567. <https://doi.org/https://doi.org/10.1016/j.carbpol.2012.08.070>
- Zhai, X., Cui, Z., Li, Y., Hou, S., & Shen, W. (2022). Evaluation of poly(N-isopropylacrylamide)/tetraphenylethylene/amphotericin B-based visualized antimicrobial nanofiber wound dressing for whole skin wound healing in rats. *Heliyon*, 8(12), e12063. <https://doi.org/10.1016/j.heliyon.2022.e12063>

- Zhang, H., Du, Z., Jiang, Y., & Yu, Q. (2012). Preparation and characterization of grafting polyacrylamide from PET films by SI-ATRP via water-borne system. *Journal of Applied Polymer Science*, 126(6), 1941-1955. <https://doi.org/10.1002/app.36865>
- Zhang, K., Ma, J., Zhang, B., Zhao, S., Li, Y., Xu, Y.,...Wang, J. (2007). Synthesis of thermoresponsive silica nanoparticle/PNIPAM hybrids by aqueous surface-initiated atom transfer radical polymerization. *Materials Letters*, 61(4), 949-952. <https://doi.org/https://doi.org/10.1016/j.matlet.2006.06.021>
- Zhao, S., Jiang, Y., Fu, Y., Chen, W., Zhang, Q., He, L.,...Chai, Y. (2024). Chaperone solvent-assisted assembly of polymers at the interface of two immiscible liquids. *Nature Communications*, 15(1), 7423. <https://doi.org/10.1038/s41467-024-51657-3>
- Zhou, Y., Cao, J., Zhao, J., Xie, Y., Fei, J., & Cai, Y. (2016). Temperature-responsive amperometric H<sub>2</sub>O<sub>2</sub> biosensor using a composite film consisting of poly(N-isopropylacrylamide)-b-poly (2-acrylamidoethyl benzoate), graphene oxide and hemoglobin. *Microchimica Acta*, 183(9), 2501-2508. <https://doi.org/https://doi.org/10.1007/s00604-016-1893-5>
- Zohuri, G. (2012). *Polymer science: a comprehensive reference*.
- Zubair, M., Farooq, S., Hussain, A., Riaz, S., & Ullah, A. (2024). A review of current developments in graphene oxide-polysulfone derived membranes for water remediation [10.1039/D4VA00058G]. *Environmental Science: Advances*, 3(7), 983-1003. <https://doi.org/10.1039/D4VA00058G>