

Role of Packaging and Technology Usage in Improving Sustainability

Jesenia Barbosa¹

Professional Practitioner¹

Correspondence Email: jeseniabarbosa@domeindustry.com¹

Abstract

Quality not only emphasizes aspects of the final result, namely products and services, but also concerns human quality, process quality and environmental quality. Service is an activity or benefit offered to consumers or service users so that it can satisfy or meet consumer needs and desires. Service quality is an effort to fulfill consumer needs and desires as well as the accuracy of delivery in keeping with consumer expectations. During peak periods, it is possible that the services provided by producers are very minimal, for example speeding up service times in order to serve as many customers as possible.

Keywords: business, competition, satisfaction.

INTRODUCTION

However, in the business world, it is not enough to be in this position, we have to be competitive and number one, and one way to win the competition is to improve service quality, because increasing service quality will make consumers satisfied and loyal. From the data above, it can be said that many outlets do not necessarily have high consumption value either. Service is an activity or benefit that one person can offer to another which is essentially intangible and does not result in ownership of anything. There are several factors that can influence consumer satisfaction, namely service quality and product quality. Consumers pay in return for the convenience, service and satisfaction they receive from the service, not for ownership of the service.

METHOD

However, in the business world, it is not enough to be in this position, we have to be competitive and number one, and one way to win the competition is to improve service quality, because increasing service quality will make consumers satisfied and loyal. This is the basis for consumers to be able to buy products or services from the same place repeatedly and not switch to other competing companies. From the above definition, it can be concluded that quality is a quality standard where each element is interconnected and can influence performance in meeting customer expectations. The existence of very busy peak periods is a problem in itself for service marketing. From the data above, it can be said that many outlets do not necessarily have high consumption value either. Consumers pay in return for the convenience, service and satisfaction they receive from the service, not for ownership of the service.

RESULT AND DISCUSSION

However, in the business world, it is not enough to be in this position, we have to be competitive and number one, and one way to win the competition is to improve service quality, because increasing service quality will make consumers satisfied and loyal. Service quality is the best matrix for evaluating consumer satisfaction in comparison between

expectations and perceptions of service. However, in the business world, it is not enough to be in this position, we have to be competitive and number one, and one way to win the competition is to improve service quality, because increasing service quality will make consumers satisfied and loyal. From the data above, it can be said that many outlets do not necessarily have high consumption value either.

CONCLUSION

Service quality is an effort to fulfill consumer needs and desires as well as the accuracy of delivery in keeping with consumer expectations. Services in general are intangible and cannot be fully owned by consumers. Service businesses place great importance on the human element. It is impossible to produce quality products and services without quality people and processes. Service is an intangible task that satisfies the needs of consumers or business users. If not controlled, this can have a negative impact on the company, because many customers feel dissatisfied. Services in general are intangible and cannot be fully owned by consumers. This is the basis for consumers to be able to buy products or services from the same place repeatedly and not switch to other competing companies.

REFERENCES

- Alfonsius, E., & Wildan, W. (2023). Employee Payment Information System Based Website Using RFID Identification Attendance (Case Study at Abc Bank). *Journal of Data Science and Information Systems*, 1(3), 117-127.
- Wildan, W., Romadhona, A., & Hernita, A. (2020). Irrigation Monitoring Control Untuk Tanaman Hidroponik Dengan Metode Nft Menggunakan Arduino Berbasis SMS Gateway. *e-Jurnal JUSITI (Jurnal Sistem Informasi dan Teknologi Informasi)*, 9(1), 77-85.
- Santi, D. N., Mahfudh, A. A., & Soeleman, M. A. (2017, October). Image enhancement segmentation Indonesian's Batik based on fuzzy C-means clustering using median filter. In *2017 International Seminar on Application for Technology of Information and Communication (iSemantic)* (pp. 1-4). IEEE.
- Wildan, W., Romadhona, A., & Ramadhani, S. F. (2023). Implementasi Firewall Dan Proxy Menggunakan Prangkat Mikrotik Pada Laboratorium Komputer Smk Bina Potensi Palu. *JTIK (Jurnal Teknik Informatika Kaputama)*, 7(1), 136-143.
- Kharis, M., Wildan, M. A., & Rani, H. A. D. (2024). Aplikasi Augmented Reality Interaktif Tuna Rungu Berbasis Android pada Sekolah Luar Biasa ABCD Muhammadiyah Palu. *Joined Journal (Journal of Informatics Education)*, 7(2), 240-248.
- Hernita, A., Sudarmojo, O. D., Saputra, S., & Kaharu, N. A. (2025). Short-Term IHSG Closing Price Prediction Using Random Forest. *Information Technology Education Journal*, 402-414.
- Talpur, M. A., Kausar, R., Shah, E., & Siddiqui, S. Q. (2025). *Social Sciences Spectrum*.
- Andika, M., Divta, I. K., Ghozali, R., & Bakaramah, W. (2023). Workshop Sistem Informasi E-Surat Berbasis Website Pada Kantor Kelurahan Palupi. *Sistem Informasi-Pengabdian Masyarakat, Penerapan Penelitian*, 2(1).
- GUNA, W. W. S. A., Kharis, M., & Setiawan, R. Rancang Bangun Sistem Kontrol Solar Tracker Menggunakan Regresi Linear Untuk Meningkatkan Produksi Energi Panel Surya.
- GUNA, W. W. S. A. Penerapan Aplikasi Sistem Informasi Pengajuan Cuti Berbasis Web.
- GUNA, W. W. S. A. Sistem Informasi Pengelolaan Berita Berbasis Web.
- Wildan, M., Kharis, M., & Risaldi, R. K. Analisis Sentimen Komentar Pengguna Twitter Terkait Covid-19 Varian Omicron di Indonesia.
- Moutong, K. P. Sistem Informasi Geografis Potensi Daerah Berbasis Website Pada.

- Affandi, M. R. (2020). *Analisis Pengaruh Rasio Keuangan Terhadap Harga Saham dengan Growth Opportunity Sebagai Variabel Moderating pada Perusahaan Sektor Perdagangan Eceran di Bursa Efek Indonesia* (Doctoral dissertation, Universitas Sumatera Utara).
- Affandi, M. R., & Erlina, K. F. ANALYSIS OF THE EFFECT OF FINANCIAL RATIO ON STOCK PRICES WITH GROWTH OPPORTUNITY AS A MODERATING VARIABLE IN RETAIL TRADE SECTOR COMPANIES IN INDONESIA STOCK EXCHANGE.
- Rifai, A. I., Hadiwardoyo, S. P., Correia, A. G., Pereira, P. A., & Cortez, P. (2015). The data mining applied for the prediction of highway roughness due to overloaded trucks.
- Rifai, A. I., Hadiwardoyo, S. P., Correia, A. G., & Pereira, P. A. U. L. O. (2016). Genetic Algorithm Applied for Optimization of Pavement Maintenance under Overload Traffic: Case Study Indonesia National Highway. *Applied Mechanics and Materials*, 845, 369-378.
- Rifai, A. I., Surgiarti, Y. A., Isradi, M., & Mufhidin, A. (2021). Analysis of Road Performance and the impact of Development in Pasar Minggu, Jakarta (Case Study of Jalan Lenteng Agung-Tanjung Barat). *International Journal of Civil Engineering*, 6(1), 68-74.
- Adiputra, D. S., Rifai, A. I., & Bhakti, S. K. (2022). Design of Road Geometric with AutoCAD® 2D: A Case Wirosari-Ungaran Semarang, Indonesian. *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 729-738.
- Zulfa, N., Rifai, A. I., & Taufik, M. (2022). Road geometric design used AutoCAD® Civil 3D: a case study jalan campaka-wanaraja garut, Indonesia. *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 843-850.
- Sumantri, V. N., Rifai, A. I., & Ferial, F. (2022). Impact of inter-urban street lighting on users perception of road safety behavior: A Case of Jalan Majalengka-Rajagaluh. *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 703-711.
- Rizqi, M., Rifai, A. I., & Bhakti, S. K. (2022). Design of Road Geometric with AutoCAD® Civil 3D: A Case Jalan Kertawangunan-Kadugede, Kuningan-Indonesia. *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 879-887.
- Rizki, R., Rifai, A. I., & Djamal, E. Z. (2022). Geometric Redesign of Jalan Cisauk-Jaha, Banten with Manual Method (Sta. 0+ 000-Sta. 0+ 350). *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 859-864.
- Nurjannah, S. N., Rifai, A. I., & Akhir, A. F. (2022). Geometric Design for Relocation of National Road Sei Duri-Mempawah Section, West Kalimantan using AutoCAD® 2D. *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 692-702.
- Arifin, A., & Rifai, A. I. (2022). Geometric Design of Upper Cisokan Hydroelectric Power Plant Access Road with AutoCAD® Civil 3D (STA 3+ 000-STA. 4+ 800). *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 851-858.
- Firmansyah, F., Rifai, A. I., & Taufik, M. (2022). The Performance of Roundabouts with Traffic Signals: A Case Kadipaten Intersection, Indonesia A Case Kadipaten Intersection, Indonesia. *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 823-832.
- Gunawan, R. Y., Rifai, A. I., & Irianto, M. A. (2022). AutoCAD® 2D for Geometric Design of Terbanggi Besar-Pematang Panggang Highway (Sta. 28+ 650-Sta. 53+ 650). *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 757-765.
- Christine, C., Rifai, A. I., & Handayani, S. (2022). Level of service evaluation of pedestrian facility in tourism area: case study Jalan Braga, Bandung. *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 748-756.
- Isradi, M., Nareswari, N. D., Rifai, A. I., & Prasetijo, J. (2021). Performance Analysis of Road Section and Unsignalized Intersections in Order to Prevent Traffic Jams on Jl H. Djole-Jl. Pasar Lama. *International Journal of Civil Engineering*, 6(1), 56-67.

- Salsabila, S., Rifai, A. I., & Taufik, M. (2022). The Geometric Design of Horizontal Curves Using The Autocad Civil 3D® Method: A Case Study of Trans Flores Roads. *Indonesian Journal of Multidisciplinary Science*, 1(1), 251-264.
- Farid, M. R., Rifai, A. I., & Taufik, M. (2022). The Alignment Horizontal Design of Alternative Road: A Case of Jalan Subang-Cikamurang, West Java. *Indonesian Journal of Multidisciplinary Science*, 1(1), 344-356.
- Ulchurriyyah, N., Rifai, A. I., & Taufik, M. (2022). The Geometric Redesign of Horizontal Curved Using AutoCAD Civil 3D®: A Case Jalan Garuda-Jalan Moh. Hatta, Tasikmalaya West Java. *Indonesian Journal of Multidisciplinary Science*, 1(1), 288-303.
- Andriyani, A., Dermawan, W. B., Isradi, M., & Rifai, A. I. (2021). Operational Performance Analysis of Rapid Transit Bus (BRT) Corridor 11 in Pulogebang Bus Station. *World Journal of Civil Engineering*, 2(2), 71-80.
- Sony, S., Rifai, A. I., & Handayani, S. (2022). The Effectiveness Analysis of Bus Rapid Transit Services (A Case Trans Semarang, Indonesia). *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 712-719.
- Isradi, M., Molina, P., Rifai, A. I., Mufhidin, A., & Prasetijo, J. (2021). Evaluasi of Performance and Services of Integrated Transportation System (Case Study: Connecting Line between MRT Dukuh Atas Station and KRL Sudiran Station). In *Proceedings of the International Conference on Industrial Engineering and Operations Management* (pp. 496-507). Proceedings of the International Conference on Industrial Engineering and Operations Management.
- Rifai, A. I., Ramadhan, A. H., Isradi, M., & Dermawan, W. B. (2021). Analysis of Pedestrian Facility Services on Shopping Mall Area in Satellite City During Pandemic COVID-19. *ADRI International Journal of Sciences, Engineering and Technology*, 6(1), 99-107.
- Nugroho, R. B., Rifai, A. I., & Akhir, A. F. (2022). The Geometric Design of Horizontal Alignment: A Case of Bojonggede-Kemang Area Route, West Java Indonesia. *Indonesian Journal of Multidisciplinary Science*, 1(1), 331-343.
- Rifai, A. I., Wibowo, T., Isradi, M., & Mufhidin, A. (2020). On-Street Parking and Its Impact on Road Performance: Case Commercial Area in Jakarta City. *World Journal of Civil Engineering*, 1(1), 10-18.
- Rifai, A. I., & Arifin, F. (2020, March). Analysis of the level of passenger satisfaction with services and transport facilities-based integration in Jakarta. In *Journal of World Conference (JWC)* (Vol. 2, No. 2, pp. 66-73).
- Pratama, A., Rifai, A. I., & Thole, J. (2022). The Analysis of Pedestrian Service in Railway Station Area: A Case Tanah Abang Station, Jakarta A Case Tanah Abang Station, Jakarta. *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 794-803.
- Dewantoro, R. B., Rifai, A. I., & Akhir, A. F. (2022). The Satisfaction Analysis of Bus Double Decker Passengers: A Case Bekasi-Semarang Route. *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 720-728.
- Setiaputri, H. A., Isradi, M., Rifai, A. I., Mufhidin, A., & Prasetijo, J. (2021). Analysis Of Urban Road Damage With Pavement Condition Index (PCI) And Surface Distress Index (SDI) Methods. *ADRI International Journal of Sciences, Engineering and Technology*, 6(1), 10-19.
- Rifai, A. I., Rafianda, D. F., Isradi, M., & Mufhidin, A. (2021). Analysis Of Customer Satisfaction On The Application Of The Covid-19 Protocol At The Inter-City Bus Terminal. *Journal of Engineering, Science and Information Technology*, 1(1), 75-81.
- Rifai, A. I., & Aulia, E. S. (2019). Analysis of Factors Causing Traffic Accidents on Sultan Agung Street, Bekasi. *Neutron*, 18(2), 1-9.

- Purnama, E., Rifai, A. I., & Nasrun, N. (2022). Analysis of Road Performance Used Indonesian Highway Capacity Manual 1997: A Case Jalan KH Abdul Halim Majalengka-Indonesia. *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 888-895.
- Andika, I., Rifai, A. I., Isradi, M., & Prasetyo, J. (2022). A Traffic Management System for Minimization of Intersection Traffic Congestion: Case Bengkong Junction, Batam. *IJEBD International Journal Of Entrepreneurship And Business Development*, 5(05), 945-956.
- Rifai, A. I. (2021). Analisis Text Clustering Masyarakat Di Twitter Mengenai Omnibus Law Menggunakan Orange Data Mining. *Journal of Information Systems and Informatics*, 3(1), 1-12.
- Immanuel, Y., Rifai, A. I., & Prasetyo, J. (2022). The Road Performance Analysis of the Tuah Madani Roundabout, Batam-Indonesia. *Indonesian Journal of Multidisciplinary Science*, 1(1), 27-36.
- Rahayu, A. J., Rifai, A. I., & Akhir, A. F. (2022). The phenomena of on-street parking at Kadipaten traditional market, West Java. *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 815-822.
- Salsabila, V. F., Rifai, A. I., & Isradi, M. (2022). The Geometric Design of Horizontal Curved on Jalan Drono-Nganom, Wonogiri Using Autocad® Civil 3D. *Indonesian Journal of Multidisciplinary Science*, 1(1), 304-317.
- Agniya, A. H., Rifai, A. I., & Taufik, M. (2022). The Geometric Design of New Jakarta-Cikampek Highway Access Using Autocad® Civil 3D: A Case of West Karawang Industrial Area. *Indonesian Journal of Multidisciplinary Science*, 1(1), 189-198.
- Rifai, A. I., Harefa, R. A., Isradi, M., & Mufhidin, A. (2021, September). How did the impact of the 2nd wave of COVID-19 on parking characteristics at non-referral hospitals? case study: permata cibubur hospital, Indonesia. In *Journal of World Conference (JWC)* (Vol. 3, No. 5, pp. 481-490).
- Andito, I. R., Rifai, A. I., & Akhir, A. F. (2022). The Design of Alignment Horizontal Using Indonesia Highway Design Standard: A Case of Jalan Babat-Tapen, East Java. *Indonesian Journal of Multidisciplinary Science*, 1(1), 199-210.
- Hasan, M., Rifai, A. I., & Djamal, E. Z. (2022). Phenomena of Online Transportation Mode Choice as an Alternative Public Transport in South of Jakarta. *Citizen: Jurnal Ilmiah Multidisiplin Indonesia*, 2, 776-784.
- Rifai, A. I., Putra, M. G. D., Isradi, M., Mufhidin, A., & Prasetyo, J. (2022). Evaluation of Selection of Public Transport Mode Corridor Blok M-Bundaran Hotel Indonesian in the New Normal Era with Stated Preference. *IJEBD International Journal Of Entrepreneurship And Business Development eISSN 2597-4785 pISSN 2597-4750*, 5(4), 792-805.
- Rifai, A. I., Latief, Y., & Rianti, L. S. (2018). Data mining applied for earthworks optimisation of a toll road construction project. In *MATEC Web of Conferences* (Vol. 195, p. 04019). EDP Sciences.
- Girma, W. M., Fahmi, M. Z., Permadi, A., Abate, M. A., & Chang, J. Y. (2017). Synthetic strategies and biomedical applications of I-III-VI ternary quantum dots. *Journal of Materials Chemistry B*, 5(31), 6193-6216.
- Permadi, A., Fahmi, M. Z., Chen, J. K., Chang, J. Y., Cheng, C. Y., Wang, G. Q., & Ou, K. L. (2012). Preparation of poly (ethylene glycol) methacrylate coated CuInS₂/ZnS quantum dots and their use in cell staining. *Rsc Advances*, 2(14), 6018-6022.
- Ahda, M., Suhendra, & Permadi, A. (2024). Spirulina platensis microalgae as high protein-based products for diabetes treatment. *Food Reviews International*, 40(6), 1796-1804.
- Permadi, A., Setyawan, M., Ibdal, I., Rahmawati, N., & Sembiring, N. S. (2022, August). Pelatihan pembuatan lilin aromaterapi berbasis minyak jelantah di dusun sidomoyo kragilan godean sleman di yogyakarta. In *PROSIDING SEMINAR NASIONAL*

PENELITIAN DAN PENGABDIAN KEPADA MASYARAKAT (SNPPM) UNIVERSITAS MUHAMMADIYAH METRO (Vol. 4, No. 1, pp. 182-189).

- Yudhana, A., Yudianto, R., Septiyani, R., Rahayu, W. M., & Permadi, A. (2023). Pemberdayaan sentra industri herbal Wahana Mandiri Indonesia (WMI) menggunakan teknologi pemantauan kubah pengering tenaga surya berbasis Internet of Things (IoT). *Jurnal Pengabdian Pada Masyarakat*, 8(3), 623-632.
- Permadi, A., Suhendra, S., Ahda, M., Padya, S. A., Bachtiar, A. R., Rahma, A. N., ... & Triwidyastuti, Y. (2022). Pemanfaatan Spirulina platensis sebagai masker gel peel-off. *J. Pendidik. Konseling*, 4, 2260-2268.
- Setyawan, M., & Permadi, A. Ibdal.(2021). Pelatihan pengolahan minyak jelantah menjadi sabun dan lilin untuk pelaku usaha restoran di Sidomoyo Godean. In *Prosiding Seminar Nasional hasil Pengabdian Kepada Masyarakat Universitas Ahmad Dahlan* (pp. 277-285).
- Firdaus, S. M., Rosyidah, M., Permadi, A., Sulistiawati, E., & Setya, B. Optimasi Proses Ekstraksi Maserasi: Analisis Terhadap Variabel yang Berpengaruh.
- Permadi, A., Suharto, T. E., Satar, I., Chasanah, A., Kurniawan, A., Arwini, A., ... & Suyitno, S. (2023). Pelatihan Pembuatan Eco Enzyme dari Sampah Kulit Buah bagi Masyarakat Desa Sorogenen II Kulon Progo. *Pelita: Jurnal Pengabdian Kepada Masyarakat*, 3(3), 63-69.
- Permadi, A., Wahyuningsih, I., Yuliani, S., Satar, I., & Wijayatri, R. (2022). Effect of gelatin as a binder on turmeric extract tablet formulation. *Jurnal Farmasi Sains Dan Praktis*, 180-187.
- Satar, I., Permadi, A., & Ahmed, W. A. (2022). Evaluating physicochemical properties of mutated jatropha curcas seed oils and their feasibility as new feedstocks for biodiesel production. *Engenharia Agrícola*, 42(spe), e20220093.
- Satar, I., Sirajuddin, M. M. I., Permadi, A., & Latifatunnajib, S. (2023). Tofu Wastewater (TWW) Treatment and Hydrogen (H₂) Production by Using A Microbial Electrolysis Cell (MEC) System. *Indonesian Journal of Environmental Management and Sustainability*, 7(1), 13-19.
- Permadi, A., Maryudi, M., Suhendra, S., Zufar, A. F., Padya, S. A., Rahmawati, N., & Sembiring, N. S. (2022). Pembuatan Minuman Herbal/Jamu Untuk Meningkatkan Imunitas Di Masa Pandemi Covid-19. *Jurnal Pengabdian Masyarakat Bumi Raflesia*, 5(2), 909-912.
- Permadi, A. (2010). Enzyme Separation and Purification using Electrofiltration x. *Enzyme Separation and Purification using Electrofiltration x*.
- Permadi, A., & Wilson, M. (2024). Exploration of Squalene from Natural Materials as its Potential in Health and Food Fields. *Indonesian Journal of Chemical Engineering*, 2(2), 79-89.
- Permadi, A., Aziz, A., Ramadani, N., & Eka, T. (2023). Evaluation and Comparison Anti-aging Facial Serum from Algae Extract. *CHEMICA: Jurnal Teknik Kimia*, 10(3), 144-150.
- Permadi, A., Yuliani, S., Wahyuningsih, I., & Satar, I. (2022). Optimization of thin layers of coated turmeric extract (*Curcuma longa* L) tablets using a dipping method. *Media Farmasi: Jurnal Ilmu Farmasi*, 19(1), 1.
- Utami, W. S., Herlambang, H., Kiswanto, K., Permadi, A., & Saud, O. R. (2025). Model Alometrik untuk menduga volume pohon berdiri Shorea leprosula Miq, PT Gunung Muro Wahana Jaya. *Wahana Forestra: Jurnal Kehutanan*, 20(1), 13-24.
- Permadi, A., Hidayah, N., Ramadhan, R., Alamsyah, T., Al Haq, P. A., Sapsuha, N., ... & Wibisono, I. K. (2024). Pemberdayaan Kelompok Tani Bangkit di Desa Semoyo melalui Pengembangan Budidaya Serai Wangi dan Komersialisasi Produk. *Jurnal Pengabdian Masyarakat Bangsa*, 2(8), 3334-3341.
- Rahayu, W. M., Mustaqim, L., Khairi, A. N., Permadi, A., & Hidayah, N. (2024). Characteristics of ice cream from black soybean sprout juice-red dragon fruit with yolk emulsifier. *Journal of Halal Science and Research*, 5(2), 123-133.

- Anugrah, N., Permadi, A., Rahayu, A., Maryudi, M., Suharto, T. E., & Nazzal, S. (2024). Comparative Analysis of Anti-aging Serum based SNI 16-4399-1996 using Aloe Vera, Binahong Leaves (*Anredera cordifolia*), and Mangosteen Peel (*Garcinia mangostana* L) Extracts. *CHEMICA: Jurnal Teknik Kimia*, 11(1).
- Permadi, A., Sholihah, L. M. N., Purwanti, P., Oemardy, Z. L., Khasanah, F. N., Putri, A. C., ... & Ma'arif, S. A. (2024). ELKATU: Pembuatan Pelet Ikan Bandeng Tinggi Protein Berbasis Limbah Bekatul di Desa Gadingsari. *Pelita: Jurnal Pengabdian kepada Masyarakat*, 4(2), 46-54.
- Satar, I., Syamsuddin, A., Suharto, T. E., Permadi, A., Widyaningrum, T., Khakim, M., ... & Setyanto, B. N. (2023). Penyuluhan sebagai Strategi Peningkatan Pengetahuan Masyarakat tentang Dampak Sampah Plastik dan Pengelolaannya di Desa Panjanglejo Bantul Yogyakarta. *Pelita: Jurnal Pengabdian kepada Masyarakat*, 3(3), 70-76.
- Permadi, A., & Suharto, T. E. (2023). PENGARUH PRETREATMENT BAHAN KIMA DAN BIOLOGI TERHADAP AKUMULASI VOLUME BIOGAS DARI LIMBAH MAKANAN. *Agroindustrial Technology Journal*, 7(1).
- Widyaningrum, T., Febrianti, N., Prastowo, I., Saifuddin, M. F., & Permadi, A. (2022). Exploration, screening and identification of indigenous yeast from some palm juices for bioethanol production. *Biodiversitas Journal of Biological Diversity*, 23(8).
- Widyaningrum, T., Utami, L. B., Prastowo, I., Meylani, V., & Permadi, A. (2022). Comparison of bioethanol production using *Saccharomyces cerevisiae* and *Zymomonas mobilis* in fermented jackfruit peel treated with blend crude cellulose enzymes. *Journal homepage: http://ieta.org/journals/ijdne*, 17(4), 633-637.
- Satar, I., & Permadi, A. (2022). Treating The Tofu Wastewater (TWW) using a Green Technology of Microbial Fuel Cell (MFC) System. *Indonesian Journal of Environmental Management and Sustainability*, 6(1), 1-6.
- Satar, I., Suharto, T. E., Permadi, A., & Aisa, N. N. M. (2022). Pelatihan pengolahan zeolit alam menjadi pasir kucing di Kalurahan Hargomulyo Gunung Kidul. In *Seminar Nasional Hasil Pengabdian kepada Masyarakat; e-ISSN* (Vol. 2686, p. 2964).
- Suharto, T. E., Permadi, A., Satar, I., & Aisha, N. N. M. (2022). Sosialisasi potensi zeolit alam dan aplikasinya di Hargomulyo Gunung Kidul. In *Seminar Nasional Hasil Pengabdian kepada Masyarakat; e-ISSN* (Vol. 2686, p. 2964).
- Shitophyta, L. M., Pernadi, A., Rahmawati, N., & Sembiring, N. S. (2021). Perbandingan Pretreatment Kimia dan Biologi pada limbah makanan untuk Produksi Biogas. *ITERA*, 6(2), 297-301.
- Permadi, A., Yuliani, S., Wahyuningsih, I., & Satar, I. (2021). Formulasi Tablet Ekstrak Kunyit (*Curcuma longa* L) sebagai Kandidat Anti Demensia. *Media Farmasi*, 17(1), 70-77.
- Satar, I., Permadi, A., & Latifatunnajib, S. (2021). Microbial Enrichment Process in the Anode of Microbial Fuel Cell System Using Tofu Wastewater (Tww) Anaerobic Sludge. *Ecotrophic*, 15(2), 204-212.
- Hakim, M. A. L., Permadi, A., Astuti, E., & Mohamed, F. (2025). Comparative Efficacy of Wet Wipe Preservatives: Antimicrobial Performance to Inhibit Microbial Growth. *Jurnal Biologi Tropis*, 25(2), 2379-2389.
- Firdaus, S., Permadi, A., & Sulistiawati, E. (2025). Comparative study of ultrasonic and maceration extraction in enhancing antioxidant and SPF properties of green coffee beans serum. *Current Research on Biosciences and Biotechnology*, 6(2), 36-43.
- Alamsyah, T., Hidayah, N., Ramadhan, R., Permadi, A., Al Haq, P. A., Sapsuha, N., ... & Wibisono, I. K. (2024). Keberlanjutan Sanggar Tani Muda Desa Semoyo: Meningkatkan kemandirian petani muda melalui pemanfaatan teknologi pertanian modern. *Jurnal Pengabdian Masyarakat Bangsa*, 2(8), 3276-3284.

- Septiyani, R., Rahayu, W. M., & Permadi, A. (2024). STABILITAS WARNA DAN PERUBAHAN pH WEDANG UWUH SIAP MINUM SELAMA PENYIMPANAN. *Jurnal Ilmiah Teknosains*, 10(1/Mei), 43-50.
- Hadi, S., Permadi, A., Syamsuddin, A., & Zufar, A. F. (2024). Analysis water content of Seawater Desalination Technology by Using Multistage Distillation. *Indonesian Journal of Chemical Engineering*, 2(1), 22-28.
- Permadi, A., Maryudi, M., Nuraisyah, F., Khakim, M., Baswara, A. R. C., Aziz, A., ... & Ramadhan, M. K. S. (2024). Sosialisasi dan Implementasi Pemanfaatan Spirulina Sebagai Bahan Kosmetik Alami dan Suplemen Kesehatan Bagi Masyarakat Kelurahan Caturharjo Pandak Bantul. *Abdimas Indonesian Journal*, 4(1), 91-98.
- Permadi, A., Shitophyta, L. M., & Satar, I. (2024). One-step phase transferring method on preparing CuInS₂/ZnS QDs dispersion via ultrasonic treatment for bioimaging. *Int J Adv Appl Sci*, 13(1), 73-83.
- Sinaga, A. M. T., Permadi, A., Sulistiawati, E., & Suharto, T. E. (2024). The Effect of Adding Bread Yeast, Tempeh Yeast, and Tape Yeast on The Process of Making VCO from Coconut. *Indonesian Journal of Chemical Engineering*, 2(1), 1-8.
- Permadi, A., & Wulandari, A. D. (2023). Potential economic feasibility of suweg flour production as a high carbohydrate food ingredient. *Journal of Halal Science and Research*, 4(2), 115-119.
- Permadi, A., Hadi, S., Sinaga, A. M., Pitoyo, J., & Chang, J. Y. (2023). Effect of pH on Swelling Ratio and Fluorescence of Quantum Dots (QDs) Hydrogel (CuInS₂/ZnS Hydrogel). *macromolecules*, 10(2), 102-111.
- Permadi, A. (2023). Innovation and Business Feasibility Analysis of Banana Flavored Spinach Chlorophyll Functional Drink "Dally". *Indonesian Journal of Chemical Engineering*, 1(1), 49-55.
- Permadi, A., Suhendra, S., Ahda, M., Zufar, A. F., Padya, S. A., Anugrah, N., ... & Suharto, T. E. (2022, October). Perbandingan Kandungan Klorofil Dan Antioksidan Spirulina Dengan Beberapa Jenis Sayuran. In *Prosiding Seminar Nasional Penelitian LPPM UMJ*.
- Permadi, A., Suhendra, S., Ahda, M., Padya, S. A., Zufar, A. F., Anugrah, N., ... & Suharto, T. E. (2022, October). Nilai Klorofil Dan Antioksidan Pada Pencampuran Spirulina Dengan Beberapa Campuran Sayuran. In *Prosiding Seminar Nasional Penelitian LPPM UMJ*.
- Maryudi, S., Permadi, A., & Kragilan, T. (2021). Penyuluhan pengolahan air bersih dengan membran reverse osmosis. In *Prosiding Seminar Nasional Hasil Pengabdian Kepada Masyarakat Universitas Ahmad Dahlan; e-ISSN (Vol. 2686, p. 2964)*.
- Permadi, A., & Wenten, I. G. (2010). Enzyme Separation and Purification Using. In *Prosiding Seminar Nasional Teknik Kimia "Kejuangan (pp. F03-10)*.
- Permadi, A., Syamsuddin, A., Widyaningrum, T., Satar, I., Suharto, T. E., & Pitoyo, J. Utilization of the heat from combustion of water for the heating process in water desalination. *Int J Adv Appl Sci ISSN*, 2252(8814), 8814.
- Permadi, A., & Putri, M. W. (2025). Pengaruh Rasio Asam Sitrat dan 4-carboxy-3-chlorobenzene boronic acid terhadap Quantum Yield dari Graphene Quantum Dots. *Journal of Industrial Process and Chemical Engineering (JOICHE)*, 4(2), 29-36.
- Permadi, A. (2025). Pemodelan Perilaku Kelarutan Molekul Air terhadap Variasi Pelarut pada Permukaan CuInS₂/ZnS Quantum Dots Menggunakan Pendekatan ab-initio berbasis Density Functional Theory. *Journal of Industrial Process and Chemical Engineering (JOICHE)*, 4(2), 12-19.
- Permadi, A., Perawironegoro, D., Afwiyah, F., Syahputri, A. A., Sugianti, A. F., & Putri, M. W. (2025). PUBLIC AWARENESS OF WASTE MANAGEMENT IN YOGYAKARTA

- THROUGH THE FRAMEWORK OF ISLAMIC ECOLOGICAL ETHICS. *International Journal of Multidisciplinary Research*, 1(5), 104-116.
- Permadi, A. (2025). EXPLORING ISLAMIC PSYCHOLOGY CONCEPTS IN ENHANCING THE LEARNING MOTIVATION OF ENTREPRENEURSHIP STUDENTS. *International Journal of Multidisciplinary Research*, 1(5), 117-127.
- Suharto, T. E., Permadi, A., Syamsuddin, A., Putri, M. W., Lupi, A., Saputri, R. I., & Al Pariz, A. R. (2025). PENGUATAN MANAJEMEN PRODUKSI PASIR KUCING PADA BUMDes HARGOMULYO GUNUNG KIDUL. *Jurnal Abdi Insani*, 12(11), 5988-5996.
- Permadi, A. (2025). THE ROLE OF LONG-TERM MEMORY IN QUR'AN LEARNING: COGNITIVE NEUROSCIENCE PERSPECTIVES. *As-Sulthan Journal of Education*, 2(2), 136-149.
- Hadi, M., Permadi, A., Suharto, T. E., Putri, M. W., Gulo, H. A. P., Maema, N. O., ... & Lupi, A. (2025). Phytochemical Test of Sacha Inchi Oil from Central Java. *Journal of Agri-Food Science and Technology*, 6(3), 168-177.
- Hakim, M. A. L., Permadi, A., Astuti, E., binti Yahya, A., & Mohamed, F. (2025). Optimization of Chlorphenesin Concentration and Solubilizer for Wet Wipes Through Challenge and Accelerated Stability Tests. *CHEMICA: Jurnal Teknik Kimia*, 12(2), 93-102.
- Efiana, N. A., Khotimah, R. K., Irawan, A. C., Atmaji, D. T., Muhamed, F., Zohera, F. T., ... & Wahyuningsih, I. (2025). Development of Nanostructured Lipid Carrier (NLC) as a Promising Carrier for Capsanthin. *Research Journal of Pharmacy and Technology*, 18(7), 2941-2947.
- Sofiana, N., Permadi, A., Jamilatun, S., & Mufrodi, Z. (2024). Pengaruh Berbagai Metode Ekstraksi dan Jenis Pelarutnya pada Kandungan Fitokimia dalam Minyak Jagung: Literature Review. *Muhammadiyah Journal of Nutrition and Food Science (MJNF)*, 5(2), 134-144.
- Permadi, A. (2025). Biokonjugasi AmineQDs untuk Penargetan Spesifik Sel Kanker. *Journal of Industrial Process and Chemical Engineering (JOICHE)*, 3(1), 23-29.
- Permadi, A., Aulia, V. L., Rohmah, A. A., Supriyanti, T. E., & Lupi, A. (2025). Optimizing Hospital Waste Management Systems through Statistical Approaches: Evidence from a Central Java Hospital. *Indonesian Journal of Chemical Engineering*, 3(1), 17-21.
- Permadi, A., Syamsuddin, A., Suharto, T. E., Putri, M. W., & Wulandana, R. (2025). The Effect of Distillation on Several Types of River Water On Clean Water and Drinking Water Quality Standards. *CHEMICA: Jurnal Teknik Kimia*, 12(1), 25-34.
- Permadi, A., Budiastuti, P., Setyanto, B. N., Wulandana, R., Nuraisyah, F., Novitasari, P. R., ... & Rosandy, A. R. (2025). Identification and antioxidant activity test of β -tocopherol from Dompu corn oil as anti-aging. *Int J Adv Appl Sci*, 14(1), 175-184.
- Syahputri, A. A., & Permadi, A. (2025, February). : PROSES PEMBUATAN CUKA BUAH APEL MELALUI PENDEKATAN FERMENTASI DAN EVALUASI KANDUNGAN GIZI. In *Prosiding Seminar Nasional Sains dan Teknologi" SainTek"* (Vol. 2, No. 1, pp. 35-42).
- Sofiana, N., Syamsuddin, A., Permadi, A., Jamilatun, S., Widyaningrum, T., Rahayu, W. M., ... & Sunarti, S. (2025). Potential of Ferulic Acid from Corn Oil as a Natural Whitening Agent: In Vitro Study on Tyrosinase Enzyme Inhibition. In *BIO Web of Conferences* (Vol. 190, p. 01029). EDP Sciences.
- Permadi, A., Sofiana, N., Firdaus, S. M., Putri, M. W., Nazzal, S., & Mohamed, F. (2024). Analysis of Virgin Coconut Oil and Its Potential in Food, Nutrition, and Health. *CHEMICA: Jurnal Teknik Kimia*, 11(3), 124-131.
- Firdaus, S. M., & Permadi, A. (2024). Potensi Serum Antiaging dari Berbagai Jenis Tanaman. *Journal of Pharmacopolium*, 7(2).

- Ramadhan, M. K. S., Permadi, A., & Sulistiawati, E. (2024). Qualitative and Quantitative Analysis of Lecithin Content and Bioactive Chemical Compensents of Corn Oil From Dompu District. *Jurnal Biologi Tropis*, 24(3), 477-487.
- Suharto, T. E., Mahdi, I., Alfihan, R. N., Permadi, A., & Satar, I. (2024, July). Identification and Removal of Microplastics in Well Water Around the Landfill Piyungan Yogyakarta with Activated Carbon. In *International Conference on Engineering, Construction, Renewable Energy, and Advanced Materials*.
- Permadi, A., Firdaus, S. M., Suharto, T. E., Munawaroh, A. L., Dewi, K. T., Halimah, N., ... & Maryudi, M. (2024). Pelatihan Pembuatan Virgin Coconut Oil (VCO) bagi Ibu-Ibu di Dusun Gupit Karangsewu Kulon Progo. *Pelita: Jurnal Pengabdian kepada Masyarakat*, 4(1), 1-7.
- Lupi, A., Halimathusyakhdyah, H., Gulo, H. A. P., Putri, M. W., Maema, N. O., Akbar, M. A., ... & Permadi, A. (2024). Composition analysis of Indonesian sacha inchi (*Plukenetia volubilis* L.) oil and potential for food nutrition. In *BIO Web of Conferences* (Vol. 148, p. 04009). EDP Sciences.
- Permadi, A., Jayanti, T. D., Saputra, M. R., Salsabila, H., Audina, P. P., & Fitriyanto, E. (2024). Performance of reverse osmosis membrane as a bathroom wastewater filter. In *BIO Web of Conferences* (Vol. 148, p. 02007). EDP Sciences.
- Hasnaeni, H., Rosandy, A. R., Apridamayanti, P., Permadi, A., & Rumaisha, S. (2023). Determination of Routin Compound Content of Moringa Folium (*Moringa oleifera*) using Several Extraction Methods. *Jurnal Fitofarmaka Indonesia*, 10(3), 91-94.
- Permadi, A., Firdaus, S. M., Aziz, A., & Zufar, A. F. (2023). Shampoo With Basic Ingredients Chamomile Flower Extract (*Matricaria Chamomilla*): Formulation and Evaluation of Preparations. *Indonesian Journal of Chemical Engineering*, 1(2), 95-102.
- Firdaus, S. M., Sulistiawati, E., Hidayah, D., Hardiyasari, P. D., & Permadi, A. (2023, October). Pengaruh Suhu pada Pengeringan Biji Nangka sebagai Upaya Subtitusi Terigu. In *Prosiding Seminar Nasional Penelitian LPPM UMIJ* (Vol. 1, No. 1).