

## Editorial Team

---

**Advisory :**

Genesis Sembiring Depari, Ph.D, Director, Formosa Publisher

**Editor in Chief :**

Professor Jen Peng Huang, Department of Information Management, Southern Taiwan University of Science and Technology

**Managing Editor:**

Nia D Simanjuntak, S.Pd, Formosa Publisher

**Editorial Board:**

Dr. Aaron Raymond See, Southern Taiwan University of Science and Technology, Taiwan  
Wisuwat Wannamakok Ph.D, Graduate school, Dusit Thani College, Bangkok, Thailand  
I Gusti Musa Budidarma, Ph.D, Universitas Klabat, Indonesia  
Le, Ngoc Thang B, Ph.D, National Economics University Hanoi, Vietnam  
Assoc.Prof.Dr. Hery Winoto Tj, SE., MM., CPHR®, CHCP-A., Krida Wacana Christian University, Indonesia  
Lusius Sinurat, SS, M.Hum, Pena Sinergi, Indonesia  
Dr. Uma Shankar Yadar, Motilal Nehru National Institute of Technology Allahabad Prayagraj, India  
Dr. Kamran Abdullayev, Institute of Economics of Azerbaijan National Academy of Sciences, Azerbaijan  
Dr. Lanita Winata, Griffith University, Australia  
Dr. Cris Norman P. Olipas, Nueva Ecija University of Science and Technology, Philippines  
Vinay Singh, UPES, India  
Rammen Andino Sinaga, Institut Agama Kristen Negeri Tarutung, Indonesia

**Reviewer Team :**

Dr. Safuan. ST, M.T., M.M., Universitas Jayabaya, Indonesia  
Muhammad Tasjiddin Teheni, S.Si., M.Si, Politeknik Baubau, Indonesia  
Hendra Cipta, M.Si, Universitas Islam Negeri Sumatera Utara, Indonesia  
Pardomuan Robinson Sihombing, SST, M.Stat,C.PS, BPS-Statistics Indonesia, Indonesia  
La Ode Asmin, S.Si., M.SC., Institut Agama Islam Negeri Kendari, Indonesia  
Wahyu Ziaulhaq. M.Sos, Sekolah Tinggi Agama Islam Aceh Tamiang, Indonesia  
Dr. Nurcaya, S.Pd., M.pd., Universitas Puangrimaggalatung, Indonesia  
Bayu Hari Nugroho, S.T., M.T, Universitas Mercu Buana, Indonesia  
Saut Matedius Situmorang, ST, MT, Universitas Efarina, Indonesia  
Effine Lourrinx, S.T., M.Ling., Politeknik Rukun Abdi Luhur, Indonesia  
Devi Rahmayanti, S.T., M.T, Universitas Gajayana Malang, Indonesia  
Eka Setiawati, M.Pd, STKIP Setia Budhi, Indonesia  
Fathiah, M.Eng., UIN Ar Raniry Banda Aceh, Indonesia Muhammad Yahya Matdoan, S.Si.,M.Si, Universitas Pattimura, Indonesia  
FX Anjar Tri Laksono, S.T., M.Sc. Ph.D, Candidate, Universitas Jenderal Soedirman, Indonesia  
Lalu Delsi Samsumar, M.Eng., Universitas Teknologi Mataram, Indonesia  
Budi Arlius Putra, Ph.D, Universitas Adiwangsa Jambi, Indonesia  
Yeyi Gusla Nengsih, S.Kom., M.Kom, Universitas Imelda Medan, Indonesia  
Dr.eng. La Ode Ahmad Barata, Universitas Halu Oleo Kendari, Indonesia  
Alfry Aristo Jansen Sinlae, S.Kom., M.Cs., Universitas Katolik Widya Mandira, Indonesia  
Dr. Sidarta Sagita, MARS, Universitas Nusa Cendana, Indonesia  
Dr. dr. Hisnindarsyah, SpKL. Subsp.KT(K), SE., M.Kes., MH., C.FEM, FISQua, FRSPH, Head of Study (KPS) Maritime Medicine Specilist Program (Sp.KL) Medical Faculty, Hang Tuah University, Surabaya, Indonesia  
dr. Dito Anurogo, M.Sc., Taipei Medical University, Taiwan  
Enzo Wiranta Battra Siahaan, S.T, M.T, Universitas Darma Agung, Indonesia

Daniel Alfa Puryono, S.Kom., M.Kom, STMIK AKI Pati, Indonesia  
Dr. H. Ahyar Wahyudi, S.Kep.Ns., M.kep, Lembaga Akreditasi Fasilitas Kesehatan Indonesia, Indonesia  
Ratna Indrawati, Lembaga Akreditasi Fasilitas Kesehatan Indonesia, Indonesia  
Putri Sari Margaret Julianty Silaban SE, M.Si, Universitas Negeri Medan, Indonesia  
Rosario Trijuliamos Manalu, M.Si, Bioteknologi - IPB University, Indonesia  
Apt. Muh Taufiqurrahman, M.Farma, Magister Farmasi, Universitas Pancasila, Indonesia  
Thirunavukkarasu, National Taiwan Ocean University, Taiwan  
Mohamad Nur Yahya, M.Si, Universitas Indonesia - Fisika Instrumentasi, Indonesia  
Alamsyah, SE., M.Si, Universitas Muslim Indonesia, Indonesia  
Dr. Ruth G. Luciano, Nueva Ecija University of Science and Technology, Philippines  
Ir. Rinasa Agsitya Anugrah, S.Pd., M.Eng., Universitas Gadjah Mada Jurusan S2 Teknik Mesin, Indonesia  
Dr. Eko Prasetyo, S.KM, M.Kes, Doktor Ilmu Kedokteran dan Kesehatan, Fakultas Kedokteran, Universitas Diponegoro Semarang, Indonesia  
Ida Setya Wahyu Atmaja, S.P., M.Si, Institut Pertanian Bogor (Pengelolaan Daerah aLAiran Sungai Departamen Ilmu Tanah dan Sumberdaya Lahan, Indonesia  
Rindi Wulandari, S.ST, M.Si, Elektronika Instrumentasi- STTN BATAN Yogyakarta Fisika- ITB, Indonesia  
Ir. Syamsul Ma'arif, S.T, M.Eng., S1 Teknik Mesin UMS, Surakarta S2 Teknik Mesin UGM, Yogyakarta Profesi Insinyur (Teknik Mesin) ITB, Bandung S3 Teknik Industri UGM, Yogyakarta (2021-on going), Indonesia  
Mrs. ABDULKAREEM Habibat Bolanle, Kwara State University, Malete and Alhikmah University, Ilorin, Kwara State, Nigeria  
I Gede Suputra Widharma, ST, MT, Universitas Gadjah Mada Yogyakarta, Jurusan Teknik Elektro, Indonesia  
Nurul Pratiwi, M.Si., Kimia-Universitas Andalas, Indonesia  
Dr.Phoummixay siharath, University of The Philippines Deliman, Philippines  
Dr. Stella Tinny Kaunang, SPi, MSi, CSMA, Lulusan Program Doktorat Jurusan Managemen Sumberdaya Perairan dari Universitas Sam Ratulangi Manado, Indonesia  
Ilham Martadinata, S.Pd., M.Pd., M.Han., Graduate: Department of Mathematics Education, State Islamic University of Raden Fatah Palembang, 2012-2016, Postgraduate: Department of Mathematics Education, Sriwijaya University, 2018-2020, Postgraduate: Department of Total War Strategy, the Republic of Indonesia Defense University, 2023-2025;), Indonesia  
Tanti Tri Lestary, S.ST,Bdn.,M.Keb, S2 Magister Kebidanan Universitas Brawijaya, Indonesia  
Dr muhammad nur abdi SE MM, Universitas islam negeri alauddin makassar, Indonesia  
DENY HADI SISWANTO, S.Pd., M.Pd., Magister Pendidikan Matematika, Universitas Ahmad Dahlan, Indonesia

**Administration:**

Tiara Friska Mauliana, Formosa Publisher, Indonesia

**Address:**

Jl. Sutomo Ujung No.28 D, Durian, Kecamatan Medan Timur, Kota Medan, Sumatera Utara 20235, Indonesia.

WhatsApp: +62 878-6950-2631

Email: [admin@formasapublisher.org](mailto:admin@formasapublisher.org)

Website: <https://journal.formosapublisher.org/index.php/>

**Table of Contents**

Vol. 4 No. 11 November 2025

Editorial Team

Content

Editorial

---

Material Tectonics Variable Framework: A Study of Tectonic Theory Application in Contemporary Indonesian Architecture Analysis <i>Wahyu Hidayat, Ibrahim Tohar, Darmansjah Tjahja Prakasa</i>	3365-3384
Study of Symbols and Perceptions as an Effort to Exist Architecture in Muhammadiyah Educational Buildings <i>Abdul Malik, Ibrahim Tohar, R.A Retno Hastijanti</i>	3385-3402
Analysis of the Exchange Rate of Income and Welfare of Dryland Farming Households in Sekotong District, West Lombok Regency <i>Hasrah Fahrizan, Hayati, Taslim Sjah</i>	3403-3416
Formulation and Activity Test of Itchy Leaf Extract Anti-Acne Gel ( <i>Laportea aestuans</i> ) Against <i>Propionibacterium acneBacteri</i> <i>Risna, Gabriela Welma Litaay</i>	3417-3432
The Influence of Litter Size, Birth Weight, and Pre-Weaning Mortality on Reproductive Performance in Pigs: A Systematic Literature Review <i>Joana da Costa Freitas, Yuliaty, Vicente Manuel Luis Guterres, Maria Joana Baptista Barbosa, Zeferino Viegas Tilman</i>	3433-3444
Experimental Investigation of Cooling Effects on the Tensile Strength of ST 37 Steel Welded by SMAW <i>Jandri Fan HT Saragi, Eka Putra Dairi Boangmanalu, Franklin Taruyun Hudeardo Sinaga, Nisfan Bahri, Abri Andry Saresa Marbu</i>	3445-3454
Transformation of Tanean Lanjhang Architecture from Time to Time Study of Kemuning Village, Tragah District, Bangkalan Regency <i>Erik Yuliar Ramadhan, R.A. Retno Hastijanti, Ibrahim Tohar</i>	3455-3472
Rethinking Community Based Economic Models in Addressing Environmental Degradation in Emerging Economies <i>Kasman Karimi, Arief Farhan Karim</i>	3473-3486
Physical and Sensory Quality of Nuggets from Spent Laying Hens Using Durian Seed Flour ( <i>Durio ZibethinusMurr</i> ) <i>Kristania Mandagi, Friets S. Ratulangi, Moureen Tamasolen</i>	3487-3496
Investigation of Factors Influencing Building Damage Due to Salt Attacks in the Tsunami-Affected Area of Banda Aceh City	3497-3516

*Syahrul Ikhsan, Ella Meilianda, Eldina Fatima*

- Evaluation of Drug Management Using the ABC-VEN Approach and the Implementation of the Bryant Method at Prof. Dr. W. Z. Johannes Regional General Hospital in Kupang City in 2023 3517-3532  
*Charly Titus Rycho Rupiasa, Jason Merari Peranginangin, Wiwin Herdwian*
- Competitive Advantage and Sustainability of MSMEs: The Key to Successful Economic Growth in Depok City 3533-3544  
*M. Hilman Zainuri, Gunartin, Ian Permana Wahyu*
- From Volume to Value: Determinants of Export Price and Revenue in Indonesia's Coffee Industry 3545-3558  
*Desmon Gunadi Siagian, Katrin Jenny Sirait, Artha Putri Br Karo, Andreas Panjaitan, Debora Silvia Hutagalung, Septri Anis*
- The Relationship between Clock Drawing Test and Current Blood Glucose Level (GDS) in the Elderly at the Sentani Jayapura Nursing Home 3559-3570  
*Prysta Aderlia Sitanggang, Kaida Irma Setyarini, Maryam Kathrien Labobar, Gregorius Adista Enrico Astawa, Yogi Haryanto*
- The Meaning of Social and Ethical Values in Consumer Decision-Making for Sustainable Products in Urban Markets 3571-3584  
*Anna M Ngabalin*
- Orchestrating Organizational Resilience through Digital Leadership and Artificial Intelligence Capability in the Age of Disruption 3585-3600  
*Kazwaini, Heribertus Yudho Warsono, Ahmad Farhani, Sumarno*
- Optimization of Solar Energy Conversion Efficiency through Nanostructured Photovoltaic Materials 3601-3614  
*Paulus G. D. Lasmono S*
- Land Use Transformation Impacting Water Sustainability in Indonesian Watershed Systems 3629-3644  
*Asikin Muchtar*
- Strategic Adaptation Narratives of Small Businesses Facing Digital Transformation 3645-3658  
*Hernawati W. Retno Wiratih, Miswan, Dharma Widada, Siti Mahmuda*
- Climate Change: Impacts on Carbon Sequestration Biodiversity and Agriculture 3669-3682  
*Rizka Azhari, Suwardji, Lolita E.S*
- Analysis of Consumer Behavior towards Demand for Fresh Vegetables in Fresh Markets in Mataram City 3683-3692  
*Rizka Azhari, Taslim Sjah, I Ketut Budastra*
- The Dynamics of Customary Law Recognition in Environmental Dispute Resolution in Indonesia 3693-3706  
*Sumiyati*

Integrated Nursing-Pharmacy Management: Vitamin C Levels at Air Itam Community Health Center <i>Lili Amaliah, Muhamad Seto Sudirman, Syamsul Rizal Sinulingga, Martha Meti Kody, Neng Nurwiatin</i>	3707-3720
Diversity and Habitat Adaptation of Endemic Fish in Tropical River Ecosystems <i>Jefry Jack Mamangkey</i>	3721-3736
Exploring Community Participation in Shaping Inclusive Urban Public Spaces <i>Riko Londah</i>	3737-3750

Welcome to the inaugural issue of the Formosa Journal of Science and Technology (FJST), a platform dedicated to the advancement and dissemination of knowledge in the fields of science and technology. As a peer-reviewed journal, FJST aims to publish high-quality research articles, reviews, and case studies that reflect the latest advancements and innovative practices in various scientific disciplines.

In an era characterized by rapid technological change and scientific exploration, the importance of sharing research findings and fostering collaboration among scholars cannot be overstated. FJST seeks to bridge the gap between theoretical knowledge and practical application, providing researchers, practitioners, and educators with a forum to exchange ideas, discuss challenges, and explore solutions.

Each issue of FJST will feature contributions from diverse fields, including but not limited to, environmental science, engineering, information technology, and biotechnology. Our editorial board comprises esteemed scholars and practitioners who are committed to maintaining the highest standards of academic integrity and rigor.

We are excited to showcase a collection of groundbreaking research in this issue, reflecting the vibrancy and dynamism of the scientific community in Formosa and beyond. We invite our readers to engage with these articles, share insights, and contribute to the ongoing dialogue that drives innovation and progress.

Thank you for being a part of the Formosa Journal of Science and Technology. We look forward to your support and contributions as we embark on this exciting journey together.

Sincerely,

Professor Jen Peng Huang  
Editor-in-Chief, Formosa Journal of Science and Technology (FJST)