Jurnal Multidisiplin Madani (MUDIMA)

E-ISSN 2808-5639 (Online)
DOI Prefix 10.55927
Editoral Team **Vol. 6, No. 10 October 2026**

Advisory:
Genesis Sembiring Depari Director of Formosa Publisher, Indonesia

Editorial in Chief:
Marisa Yunita, of Formosa Publisher, Indonesia

Managing Editorial:
Nia D Simanjuntak of Formosa Publisher, Indonesia

Editor Board:
Dr. Aaron Raymond See of Southern Taiwan University of Science and Technology, Taiwan
Wisuwat Wannamakok Ph.D of Graduate school, Dusit Thani College, Bangkok, Thailand
Lusius Sinurat, SS, M.Hum of Pena Sinergi, Indonesia
Lê Thị Bích Ngọc, Ph.D of National Economics University Hanoi, Vietnam
Ari Kristanta Tarigan S.Sn., M.Sn of Formosa Publisher, indonesia
Irwan Ginting S.Th.,M.Pd.K of Formosa Publisher, indonesia

Reviewer Team:
Timi Olubiyi, M.IoD., M.Phil., Ph.D, Babcock University
Dr. Syarifuddin Sulaiman, SE., M.Si, Universitas Muhammadiyah Makassar
Dr. Abhishek Sharma, Shri Jagdishprasad Jhabarmal Tibrewala University, Rajasthan
Genesis Sembiring Depari, Ph.D, Universitas Pelita Harapan, Kampus Medan, Indonesia
Kattareeya Prompreing, Ph.D, Rajamangala University of Technology Lanna, Thailand
Lia Retno Widyaningrum, S.AP., M.M, Universitas Esa Unggul
Samino Hendrianto, S.E., M.Ak, Universitas Muhammadiyah Tangerang
Sahala Purba, SE., M.Si, Universitas Methodist Indonesia
Dr. S. Purnamasari, SH., S. Sos.I., MSI, UNISKA MAB Banjarmasin
Dr. Tommy Kuncara., SE., MMSI., CA., ACPA., CTA, Universitas Gunadarma
Dedi Sufriadi, SE., M.Si, Universitas Serambi Mekkah Banda Aceh
Dr. Abdul Samad A., S.E., M.Si., Universitas Fajar di Makassar
Ade Putra Ode Amane, S.Sos., M.Si, Universitas Muhammadiyah Luwuk
Rizqy Aiddha Yuniawati, S.A., Ak., M.Acc, Akuntansi Universitas Airlangga, S2 Magister Akuntansi Universitas Gadjah Mada
PhD SCHOLAR, DEPARTMENT OF COMMERCE, BHARATHIAR UNIVERSITY
M. Zaenul Muttaqin, S.Sos., M.Si, Universitas Cenderawasih Jurusan Administrasi Publik
Zulfia Hanum Alfi Syahr, S.Pd., M.M, Universitas Terbuka Jurusan Manajemen
Faihatuz Zuhairoh, S.Si., M.Sc, Universitas Gadjah Mada (Matematika)

Dr. Semuel Risal, M.Si, Fakultas Ilmu Administrasi Universitas Brawijaya
Muhammad Fajar Maulana, S.Pi.,MP, Universitas Brawijaya, Sosial Ekonomi Pertanian
Lintang Madina Cahyani, S.Pd., M.Pd, S1 Pendidikan Akuntansi Universitas Sebelas Maret (2015-2019), S2 Pendidikan Ekonomi Universitas Sebelas Maret (2020-2022)
Alamsyah, SE., M.Si, Universitas Muslim Indonesia
Dina Lusianti, SE, MM, AAK, Magister Manajemen Universitas Diponegoro
Dr. Meylani Tuti., SS., M.Pd., MM, SB IPB
Richard M. Oco, PhD, Master of Arts in Education major in Educational Management, Southern de Oro Philippines College. Master of Arts in Education major in Mathematics, Liceo de Cagayan University. Doctor of Philosophy in Education major in Educational Management, Capitol University
Dr. Jujuk Kusumawati, S.T, M.Si, Universitas Tarumanagara - Program Doktor Teknik Sipil
Asep Amaludin, S. Pd., M. Si, Universitas Negeri Semarang, Universitas Stikubank Semarang
Nurul Pratiwi, M.Si, Kimia-Universitas Andalas
Nur Achmad Jabrial, S.H., M.M, Mahasiswa Pascasarjana S3 Manajemen Pendidikan Universitas Pakuan Bogor
Ilham Martadinata, S.Pd., M.Pd., M.Han, Department of Mathematics Education, State Islamic University of Raden Fatah Palembang, 2012, Postgraduate: Department of Mathematics Education, Sriwijaya University, 2018-2020, Postgraduate: Department of Total War Strategy, the Republic of Indonesia Defense University, 2023-2025
DENY HADI SISWANTO, S.Pd., M.Pd, Magister Pendidikan Matematika, Universitas Ahmad Dahlan
Dr. Anesito L. Cutillas, Dev. Ed. D, University of San Jose Recoletos, Philippines
Dr. Ni Made Ayu Suardani Singapurwa, STP., M.Si, Universitas Udayana
Yura Witsqa Firmansyah, S.K.M., M.Kes, Universitas Sebelas Maret
Ir. Rinasa Agistya Anugrah, S.Pd, M.Eng, Universitas Muhammadiyah Yogyakarta
Alfry Aristo Jansen Sinlae, S.Kom., M.Cs, Universitas Katolik Widya Mandira
Dr. Khaidir Rahman Nasir, M.Pd, Sekolah Tinggi Manajemen Informatika dan Komputer (STMIK) AKBA
Charli Sitinjak, Ph.D, Universitas Esa Unggul
Pardomuan Robinson Sihombing,SST, M.Stat, C.PS, Fungsional Statistisi Ahli Muda BPS RI
Irvin Dayadi, S.Hut, M.P, Universitas Mulawarman
Muhammad Yahya Matdoan, S.Si.,M.Si, Universitas Pattimura
FX Anjar Tri Laksono, S.T., M.Sc. Ph.D, Universitas Jenderal Soedirman
Ir. Maryadi, ST., MT., IPM., ASEAN Eng, Universitas Pancasila
Budi Arlius Putra, Ph.D, Universitas Adiwangsa Jambi
Enzo Wiranta Battra Siahaan, S.T, M.T, Universitas Darma Agung
Rindayatno, S.Hut, M.P, Universitas Mulawarman
I Made Marthana Yusa, S.Ds., M.Ds, Kajian Budaya, Universitas Udayana, Bali
Irvin Dayadi, S.Hut, M.P, Universitas Mulawarman
Muhammad Yahya Matdoan, S.Si.,M.Si, Universitas Pattimura

Khairul Syafuddin, S.I.Kom., M.A, Kajian Budaya dan Media, Universitas Gadjah Mada
Ir. Rinasa Agsitya Anugrah, S.Pd., M.Eng, Universitas Gadjah Mada
I Gede Suputra Widharma, ST., MT, Universitas Gadjah Mada Yogyakarta, Jurusan Teknik Elektro
Fathayatul Husna, S.I.Kom., M.A, Interdisciplinary Islamic Studies (Konsentrasi Kajian Komunikasi dan Masyarakat Islam) UIN Sunan Kalijaga
Syed Ghazanfer Abbas, Ph.D, International Islamic University
Dr. Imam Tabroni, M.Pd.I,. CIIQA,. CPITA., CIAR., CIT., CIRR, STAI Dr. KH. EZ. Muttaqien Purwakarta
Imeldawaty Gultom, S.Kom., M.Pd, (STMIK Kaputama Binjai Indonesia
Muannif Ridwan, S.Pd.I, MH, Universitas Islam indragiri
La Ode Asmin, S.Si., M.Sc, Institut Agama Islam Negeri Kendari
Emma Martina Pakpahan, S.Pd., M.A, Universitas Prima Indonesia
Ramdanil Mubarok, S.Pd.I., M.M, STAI Sangatta
Dr. Zainuddin, M.Pd.I, IAIQI Indralaya
Fidya Arie Pratama, S.Pd., M.Pd, IAI Bunga Bangsa Cirebon
Dewi Natalia Marpaung, S.Pd.,M.Pd, Universitas Musamus
Dr. Farikah, M.Pd, Universitas Tidar
Sigit Widiyarto, M.Pd, Indraprasta PGRI University Jakarta
Imam Hanafi, S.Pd.I., M.A, Universitas Wiraraja
Dr. Siraj, S.Pd., M.Pd, Universitas Malikussaleh
Dr. Sukino, M.Ag, IAIN Pontianak
Dr. Nabyendu Roy Choudhury, Independent Researcher, West Bengal, India
Dr. Ifeanyi Martins Nwokeocha, Ph.D, Heritage Polytechnic, Eket, AkwaIbom State, Nigeria
Bewket Ayele Birihanie, M.A, Hawassa University, Etiopia
Heylen Amildha Yanuarita, S.A.P.,M.Si, Universitas Kadiri
Marno Wance, S.IP.,M.I.P, Universitas Pattimura
Dr. Djone Georges Nicolas, M.Th, Sekolah Tinggi Teologi Katharos Indonesia Bekasi
Astika Ummy Athahirah, S.STP, M.Si, Institut Pemerintahan Dalam Negeri
Yayan Firmansyah,S.E.,M.Si, Politeknik Negeri Bandung
Dr. Janes Sinaga, S. Th, M. Th, Universitas Advent Indonesia
Dr A A Musyaffa, M.Pd.I, Universitas Islam Negeri STS Jambi
Dr. Purnama Rozak, S.Sos.I.,M.S.I, STIT Pemalang
Mohamad Hidayat Muhtar,SH,.MH, Universitas Negeri Gorontalo
Mutiara Nurmanita, Institut Agama Islam Negeri Manado
Adison Adrianus Sihombing, Badan Litbang dan Diklat Kementerian Agama
Andi Muh. Taqiyuddin BN, S.H., M.H, STAI Al-Azhar Gowa
Assoc. Prof. Dr. Abdul Mufid, Lc., M.S.I, STAI Khozinatul Ulum Blora
I Ketut Putu Suardana, S.Pd.H., M.I.Kom, IAHN Gde Pudja Mataram
Dr. Wilda Rasaili, S.IP., M.A, Universitas Jember
Dr. Moh. Wardi, M.Pd.I, UIN Sunan Ampel Surabaya, Pendidikan Agama Islam
Dr. Kristiawan Indriyanto, S.S., M.Hum, Universitas Gadjah Mada, Fakultas Ilmu Budaya Program Studi Pengkajian Amerika
Ahmad Rezy Meidina, S.H, Ilmu Syari'ah UIN Sunan Kalijaga Yogyakarta

Rizky Ramadhani Arsyah Putra S.I.Kom, Ilmu Komunikasi UNS
Dr. Erian Fatria, S.Pd., M.Pd, Universitas Negeri Jakarta, Program Studi Pendidikan Kependudukan dan Lingkungan Hidup
Moh. Ghoizi Eriyanto, M.Pd, Universitas Negeri Surabaya, Pendidikan Luar Sekolah atau Pendidikan Masyarakat
Lewi Kabanga', M.Hum, Universitas Hasanuddin (Bahasa Inggris/ Linguistik Bahasa Inggris)
Dr. Nuridin Widya Pranoto, S.Pd., M.Or, Universitas Negeri Padang
Ratno Susanto, S.Pd., M.Pd, IKIP Budi Utomo
Dr. Syawal Kamiluddin Saptaputra, S.KM., M.Sc, Universitas Halu Oleo
Ns. Ahmad Zainal Abidin.,S.Kep,M.Kes, ISTeK ICSADA BOJONEGORO
Dr.Lenny Irmawaty Sirait, SST., M.Kes, Sekolah Tinggi Ilmu Kesehatan Medistra Indonesia
Serly Sani Mahoklory, S.Kep., Ns., M.Kep, STIKes Maranatha Kupang
drg. Pindobilowo, M.Kes, Universitas Prof.Dr.Moestopo
dr. Dito Anurogo, M.Sc, Taipei Medical University
Nadi Aprilyadi.S.Sos.S.Kep.M.Kes, Prodi Keperawatan Lubuklinggau
Vincencius Surani, S.Kep., Ns., M.Kep, Universitas Katolik Musi Charitas Palembang
Hernastiti Sedya Utami, M.Tr.Kes, Universitas Muhammadiyah Purwokerto
Ns. Ahmad Syaripudin, M.MRS.,M.Kep.,Dipl.CIMI.,ETN, Institut Teknologi Dan Kesehatan Mahardika
Michael Johannes Hadiwijaya Louk, M.Or, S1 PJKR dan S2 Ilmu Keolahragaan Kosentrasi Pendidikan Olahraga Usia Dini di Universitas Negeri Yogaykarta IKOR
drg. Pindobilowo., M.Kes, Magister Ilmu Kedokteran Gigi Komunitas FKG UI tahun 2014
Tanti Tri Lestary, S.ST.,Bdn.,M.Keb, Magister Kebidanan Universitas Brawijaya

Administration:

Nava Arbina Br Sembiring, S. Pd of Formosa Publisher, Indonesia

Address:
PT. FORMOSA CENDEKIA GLOBAL
Jl. Sutomo Ujung No.28 D, Durian, Kecamatan Medan Timur, Kota Medan, Sumatera Utara
20235, Indonesia.
Website: http://formosapublisher.org
Phone: +62 877-1388-1007
Email: admin@formosapublisher.org

Jurnal Multidisiplin Madani (MUDIMA)

E-ISSN 2808-5639 (Online)
DOI Prefix 10.55927

Table of Contents **Vol. 6, No.10 October 2026**

Editorial Team
Content
Editorial

A Case Report - The Underlying Disease Behind Chronic Headache: More Than Just a Primary Headache?
Tri Wahyuliati, 1304-1310

Co-production in Community Empowerment through the Kampung Lali Gadget Social Innovation
Adinda Sastro Wardoyo, Amirul Mustofa, Sri Kamariyah, 1311-1319

Growth and Yield of Lettuce (Lactuca sativa L.) in a Hydroponic Wick System Using Two AB Mix Formulations Partially Substituted with Liquid Organic Fertilizer
Ellok Dwi Sulichantini, Alvera Prihatini Dewi Nazari, Eunike Rama Sari, 1320-1327

Institutional Quality and Islamic Economy Performance: Evidence From Leading Islamic Economies
Kholilatul Khusni, M. Bastomi Fahri Zusak, 1328-1338

Mapping the Intellectual Structure of Overconfidence Research Through Global Scientific Collaboration and Bibliometric Network Analysis
Retnoning Ambarwati, Muhammad Sultan, Darsono, 1339-1352

Growth and Yield of Lettuce (Lactuca sativa L.) Using the Deep Flow Technique (DFT) System with Different Growing Media
Eliyani, Penny Pujowati, Alvera Prihatini Dewi Nazari, Gusri, 1353-1357

Generative AI in Elementary Teacher Education: Opportunities, Risks, and Professional Ethics
Syamsurijal, Mujahidah, 1358-1370

Digital-Age Ethics for Elementary Teachers: Challenges and Strategies for Professional Integrity
Mujahidah, Syamsurijal, 1371-1384

The Influence of Competence, Job Demands, and Tenure on the Productivity of Generation Z Employees at PT Permodalan Nasional Madani (PNM) Mekaar, Palembang 2 Region
Andreas Theo Wicaksono, 1385-1390

Riparian Vegetation Quality Assessment Using QBRy Index Across Three Sub-Basins in Kiliti Watershed, Ethiopia
Haileyesus Gelaw, Getahun Haile, 1391-1398

Jurnal Multidisiplin Madani (MUDIMA)

E-ISSN 2808-5639 (Online)
DOI Prefix 10.55927
Editoral **Vol. 6, No. 10 October 2026**

It is with great pleasure that we present this edition of Jurnal Multidisiplin Madani. Our journal seeks to bridge knowledge across various disciplines, fostering a collaborative environment for scholars, researchers, and professionals to share their insights and discoveries. In a world that faces increasingly complex issues, multidisciplinary approaches are essential for generating impactful solutions.

Jurnal Multidisiplin Madani is dedicated to advancing understanding across the fields of science, technology, humanities, social sciences, and beyond. By publishing high-quality, peer-reviewed research, our goal is to provide a platform where diverse academic perspectives can converge, inspiring innovative ideas and fostering deeper connections between fields that may otherwise seem disconnected.

In this issue, we are proud to feature articles that explore a range of topics, from sustainable development to advances in educational methodologies, technological innovation, and cultural studies. Each contribution reflects the commitment of our authors to rigorous scholarship and their dedication to contributing to the global body of knowledge.

We extend our gratitude to the authors for their valuable work and to the reviewers who volunteered their time and expertise to uphold the quality of this journal. We are also grateful to our editorial team, whose dedication ensures the integrity and excellence of each publication.

We hope that readers find the articles in this edition thought-provoking and insightful. As you explore the diverse research presented here, may it inspire new ideas and foster a deeper appreciation for the power of multidisciplinary collaboration in addressing the challenges of our time.

Happy Reading
Genesis Sembiring Depari Director of Formosa Publisher, Indonesia

Editorial in Chief:
Marisa Yunita, of Formosa Publisher, Indonesia