

PREFACE

The March issue of *ALCHEMY Jurnal Penelitian Kimia* 22 (1) 2026 presents twenty-two original contributions that collectively illustrate the evolving landscape of chemical sciences and their allied fields. This edition underscores the journal's dedication to disseminating high-quality, peer-reviewed research while fostering interdisciplinary perspectives that connect fundamental inquiry with practical application.

The articles featured span diverse domains. Several works emphasize the potential of natural compounds, including studies on phloroglucinol derivatives, Indonesian herbal essential oils, Moringa leaf bioactives, and *Artabotrys sp.* extracts, underscoring the continued relevance of phytochemistry in antibacterial, antioxidant, and anticancer research. Complementary research on chroman derivatives, silver nanoparticles synthesized with Kitolod extract, and Dadap leaf phytochemistry further demonstrates the promise of plant-based resources in pharmaceutical innovation.

Advances in materials science and sustainability are equally prominent. Contributions on biopolymer composite membranes for lithium-ion batteries, hydrogels derived from carrageenan-chitosan, and bioplastics from sago liquid waste showcase chemistry's role in enabling eco-friendly technologies. Studies on coal fly ash-based geopolymers, zeolite-supported syntheses, and cellulose biocoagulants from jengkol peel exemplify the transformative potential of applied chemistry in environmental remediation and resource recovery.

Methodological rigor is reflected in works that employ FTIR, NMR, and HPLC analyses, as well as in optimization frameworks such as central composite design. Computational approaches, including DFT studies of Cu(II) complexes and molecular docking analyses of antioxidant compounds, illustrate the integration of theoretical and experimental paradigms that characterize contemporary chemical research. Collectively, these contributions articulate a coherent narrative of scientific progress, one that enriches disciplinary knowledge, advances sustainable development, and supports innovations in public health and technology.

On behalf of the editorial board, we extend our sincere gratitude to all authors for their commitment to advancing scientific inquiry and to the reviewers whose critical assessments and constructive feedback have ensured the scholarly integrity of this issue. Their collective efforts exemplify the collaborative ethos that sustains the advancement of science and strengthens the global research community.

Best regards,
Editorial Team
ALCHEMY: Jurnal Penelitian Kimia