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Editorial

Inaugural Editorial

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The twenty-first century is defined by the intertwined challenges of climate change, resource scarcity, and the urgent need for a sustainable industrial transformation. At the heart of this transition lies biomass—the most abundant renewable carbon resource on Earth. After decades of foundational discovery, the field of biomass science has arrived at a critical juncture. The questions before us are no longer solely about understanding nature's designs, but about how to translate that understanding into tangible, scalable solutions. This moment—this convergence of scientific maturity and pressing global need—demands a dedicated platform: one that carries forward the accumulated knowledge of the past, captures the vibrancy of current innovation, and, with a spirit akin to the primordial force that gives rise to new worlds, charts the course for what comes next. It is with this mission that we launch ENGINEERING Biomass—a new international journal, and an official sub-journal of ENGINEERING of the Chinese Academy of Engineering, created to serve as the intellectual home for this transformative era.

As the founding Editor-in-Chief, I am honored to introduce this journal. While our scope thoughtfully encompasses the full richness of the field—from fundamental mechanisms to industrial applications—our central purpose is singular: to provide a forum where the past, present, and future of biomass science converge. We are here to curate the discoveries that define our present and to inspire the breakthroughs that will shape generations to come. Our goal is to foster the interdisciplinary fusion necessary to drive innovation from the laboratory bench to industrial practice, ultimately contributing to the sustainable development of global biomass-related industries.

Our commitment is to publish high-impact research that addresses the core challenges in biomass engineering. We particularly encourage submissions that demonstrate technical feasibility and clear potential for industrial translation. ENGINEERING Biomass is established through a collaborative partnership committed to excellence and open access. We are dedicated to a rigorous, transparent, and efficient peer-review process, with an initial review completed within four to six weeks. Accepted articles will be published promptly and made freely available under a Creative Commons license, ensuring maximum accessibility and impact. Through our collective networks, we will ensure that the research we publish reaches the global academic, industrial, and policy communities. I am privileged to work alongside an outstanding international editorial board comprised of leading scholars who bring diverse expertise across the engineering and biological sciences. Their collective dedication will ensure that our journal remains responsive to emerging scientific trends and the evolving needs of our community.

I extend a warm invitation to researchers, engineers, and practitioners worldwide to contribute your pioneering work to ENGINEERING Biomass. Whether your expertise lies in fundamental mechanisms, transformative technologies, or integrated system design, your insights are essential to shaping a future where biomass engineering plays a central role in a sustainable and circular economy. This journal is a forum for our community, and its success depends on your contributions as authors, reviewers, and readers. Let us collectively engineer the future of biomass.

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