Asymmetric Science
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Editorial

Breaking the Symmetry, Rebuilding the World

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Science has long chased symmetry. It is elegant, mathematically comforting, and foundational to our early understanding of natural laws. But the closer we look, the more obvious the truth becomes: asymmetry—not symmetry—is what actually drives the physical world, as the law of parity nonconservation reveals.

Without imbalance, nothing happens. The irreversible arrow of time, the stark disparity between matter and antimatter, the specific handedness of biological molecules—these are not just quirks or deviations from a symmetrical ideal. They are the core engines of formation, evolution, and function. We have reached a point where uncovering the mechanics of asymmetry is no longer just an interesting theoretical niche; it is an absolute prerequisite for the next major leaps in both fundamental science and engineering innovation.

Look at the universe. It is inherently lopsided. That initial breaking of cosmic symmetry gave us structure instead of a void. Zoom all the way in, and asymmetry dictates chemical selectivity and biological viability. In engineered systems, it is the secret behind non-reciprocal transport, chiral materials, and novel quantum phenomena. Across entirely different disciplines, asymmetry is the thread tying complexity and directionality together.

That is exactly why we are launching *Asymmetric Science*.

This new international, peer-reviewed, open-access journal is built specifically to explore this unifying framework. We want to provide a dedicated home for high-quality research that treats asymmetry as the main event—probing its origins, its mechanics, and its real-world applications.

Our scope spans the natural sciences, technology and engineering, including (but certainly not limited to):

- Symmetry breaking and asymmetric phenomena in physical systems
- Cosmological asymmetry and the origins of universal structure
- Mathematical foundations of asymmetry and nonlinear dynamics
- Molecular chirality, asymmetric synthesis, and stereochemical control
- The role of asymmetry in the origin of life and biological systems
- Bioengineering and biomedical applications of asymmetric systems
- Asymmetry in materials science, optics, and advanced technologies

We aren't just looking to publish papers; we want to foster a community. *Asymmetric Science* will highlight the breakthroughs, the applied innovations, and the theoretical challenges of this field. Through rigorous peer review, we aim to illuminate how asymmetric principles can be harnessed and translated into transformative technologies.

If your work challenges the symmetrical status quo, we want to hear from you. Join us in building *Asymmetric Science* into the premier forum for uncovering the profound imbalances that shape our universe.

Conflicts of Interest

The author declares no conflict of interest.

Use of AI and AI-Assisted Technologies

During the preparation of this work, the author used Deepseek for language refinement. After using those tools, the author reviewed and edited the content as needed and takes full responsibility for the content of the published article.