

Editorial

Journal of AI Chemistry: A New Era of Intelligent Discovery

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Introduction

Under the leadership of Editor-in-Chief Professor Xueji Zhang and in partnership with Scilight, we proudly announce the launch of the **Journal of AI Chemistry**. This premier open-access journal is dedicated to serving as the definitive global forum for pioneering research that transforms chemical science through artificial intelligence.

Aims and Scope

The **Journal of AI Chemistry** aims to catalyze a paradigm shift at the dynamic intersection of AI and chemistry. We publish high-impact original research that integrates advanced computational intelligence—including machine learning, deep learning, generative AI, and robotic automation—into every facet of chemical inquiry. Our scope encompasses the development of novel algorithms, the creation of disruptive methodologies, and transformative applications addressing grand challenges across molecular, materials, and systems chemistry. The journal is committed to accelerating discovery and shaping the future of an intelligent, data-driven chemical sciences landscape.

Editorial Leadership

The journal is guided by the vision of its founding Editor-in-Chief, Professor Xueji Zhang, a distinguished scholar renowned for his pioneering contributions to advanced AI sensors, nanomaterials, and biomedical engineering. With over 900 SCI publications, 60,000 citations, and an H-index of 121, his exceptional record in scientific innovation and editorial leadership provides the strategic direction needed to establish this journal as a beacon of quality and innovation. Under his stewardship, the **Journal of AI Chemistry** will uphold the highest standards of academic excellence, integrity, and transformative impact.

Key Research Areas

We invite submissions that advance knowledge in areas including, but not limited to:

- **AI-Driven Discovery & Design:** Generative models for novel molecules, materials, catalysts, and optimized synthetic pathways.
- **Chemical Informatics & Data Science:** Mining and representation of chemical big data, knowledge graphs, and development of open, high-quality datasets.
- **Intelligent Simulation & Computation:** Machine learning force fields, AI-accelerated quantum chemistry, and multiscale modeling.
- **Autonomous & Robotic Chemical Systems:** Self-driving laboratories, automated synthesis platforms, and closed-loop experimental optimization.
- **Novel AI Algorithms for Chemistry:** Innovative model architectures addressing domain-specific challenges such as data sparsity, interpretability, and uncertainty quantification.
- **Cross-Disciplinary Applications:** Breakthroughs in drug discovery, energy materials, environmental sustainability, and smart chemical manufacturing.



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Publication Features

- **Open Access:** Immediate, permanent, and free online access to all research, ensuring global reach and visibility.
- **Rigorous Peer Review:** A fair, efficient, and constructive review process overseen by an international editorial board of leading experts.
- **Diverse Content:** Research Articles, Communications, Reviews, Perspectives, and Methodologies.

Our Commitment to the Community

To ensure a successful launch, the **Journal of AI Chemistry** has established a clear roadmap: forming a diverse and esteemed International Editorial Board, developing a state-of-the-art online submission and hosting platform, and implementing transparent policies on publication ethics, open-access licensing (CC BY), and peer review. We will actively engage the community through strategic outreach, conference partnerships, and a curated inaugural issue designed to set the agenda for the field.

Submission Information

Manuscripts should be submitted electronically via the journal's online system. For detailed author guidelines, formatting templates, and editorial policies, please visit our official website: <https://www.sciltp.com/journals/jaic>.

We invite the global research community to join us in this exciting endeavor. Together, we will build the **Journal of AI Chemistry** into the cornerstone publication for advancing the intelligent future of chemical science.

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 to assist with English language editing. After using this tool, the author reviewed and edited the content as needed and takes full responsibility for the content of the published article.