

Scientific Research Review: A Platform for Interdisciplinary Science, Innovation, and Global Knowledge Exchange

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Abstract: This editorial introduces Scientific Research Review (SRR) as an international, peer-reviewed, open-access journal designed to advance integrative scientific research addressing complex global challenges. While interdisciplinary research is widely advocated, its practical implementation in scholarly publishing remains limited. SRR responds to this gap by establishing structured mechanisms for interdisciplinary integration, including cross-disciplinary peer review, methodological transparency requirements, and encouragement of data-sharing and reproducible research practices. The journal focuses on key domains where integration is essential, including data science and artificial intelligence, environmental sustainability, health systems, and governance and policy research. Rather than adopting a purely broad scope, SRR prioritizes research that explicitly connects multiple domains to generate actionable insights. To ensure quality and rigor, the journal emphasizes transparent methodologies, reproducibility standards, and real-world applicability. By combining editorial oversight with interdisciplinary evaluation frameworks, SRR aims to foster research that is not only theoretically robust but also practically relevant. Ultimately, the journal seeks to serve as a platform for collaborative knowledge production that bridges disciplinary boundaries and contributes to evidence-based solutions in both emerging and developed contexts.

Keywords: interdisciplinary science; scientific research; engineering research; data science; innovation; open access publishing



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1. Introduction

Scientific research occupies a central position in shaping the trajectory of modern societies. Advances in science and technology have transformed nearly every dimension of human life, from healthcare systems and industrial production to environmental management, economic development, and digital governance. In an era characterized by rapid technological innovation, environmental uncertainty, and increasing global interconnectedness, the role of rigorous and interdisciplinary research has become more important than ever. Addressing contemporary challenges—such as climate change, public health crises, digital transformation, and sustainable development—requires not only specialized expertise but also collaborative inquiry that bridges traditional disciplinary boundaries.

The twenty-first century has witnessed an unprecedented expansion in scientific knowledge and research capacity across the world. Emerging technologies, including artificial intelligence, advanced data analytics, biotechnology, and renewable energy systems, are reshaping both scientific practice and societal structures. At the same time, these developments generate complex ethical, institutional, and governance questions that require integrative perspectives from multiple fields. As scientific problems increasingly intersect with social, economic, and environmental systems, interdisciplinary research becomes essential for developing comprehensive and sustainable solutions (National Academies of Sciences, Engineering, and Medicine, 2018; Bammer, 2013).

In this evolving intellectual landscape, scholarly communication plays a critical role in disseminating knowledge and fostering collaboration among researchers. Academic journals serve not only as repositories of scientific findings but also as platforms that shape research agendas, methodological innovation, and intellectual exchange. Open-access publishing, in particular, has significantly expanded the accessibility of scientific knowledge by removing financial and institutional barriers to information. By making research freely available to scholars, practitioners, and policymakers worldwide, open-access platforms promote greater transparency, inclusivity, and global collaboration in the advancement of knowledge (Suber, 2012; Tennant et al., 2016).

It is within this broader context that *Scientific Research Review (SRR)* is established as an international peer-reviewed, open-access journal dedicated to advancing interdisciplinary scientific scholarship. The journal aims to provide a platform where researchers from diverse academic traditions can present innovative findings, methodological developments, and integrative analyses addressing complex contemporary challenges. By positioning itself at the intersection of science, technology, and societal development, SRR seeks to facilitate intellectual dialogue that transcends conventional disciplinary boundaries and encourages collaborative approaches to knowledge creation.

The establishment of SRR reflects the recognition that many of today's most pressing problems cannot be adequately addressed within the confines of a single academic discipline. Environmental sustainability, for example, involves interactions among ecological systems, technological innovation, economic incentives, and public policy frameworks. Similarly, digital transformation encompasses technological development alongside questions of governance, ethics, and social impact. These multidimensional challenges demand research approaches that integrate insights from natural sciences, engineering, health sciences, environmental studies, data science, economics, governance, and related disciplines (Rafols, 2014; Ledford, 2015).

Another defining feature of contemporary scientific inquiry is the increasing emphasis on methodological rigor and reproducibility. As research becomes more data-intensive and computationally sophisticated, the credibility of scientific findings depends on transparent methodologies, accessible datasets, and replicable analytical procedures. The reproducibility movement has highlighted the importance of clear reporting standards, open data practices, and collaborative verification processes in strengthening the reliability of scientific knowledge (Baker, 2016). SRR actively encourages such practices by promoting research that demonstrates analytical clarity, methodological robustness, and openness in data and methodological reporting.

In addition to methodological excellence, the journal places strong emphasis on the practical relevance of research. Scientific discoveries gain broader significance when they contribute to addressing real-world challenges and informing evidence-based decision-making. By connecting academic scholarship with policy debates, technological innovation, and societal needs, SRR aims to support the development of knowledge that not only advances theory but also generates actionable insights for practitioners and policymakers. Such engagement is particularly important in a global context where scientific research increasingly informs public policy, industrial development, and sustainable governance strategies (Nowotny, Scott, & Gibbons, 2001).

SRR therefore seeks to cultivate an inclusive intellectual community where scholars, researchers, and professionals from diverse backgrounds can contribute to the advancement of interdisciplinary knowledge. The journal welcomes research that explores complex systems, technological innovation, sustainability transitions, and institutional development across both emerging and developed contexts. By fostering dialogue across disciplinary, geographic, and institutional boundaries, SRR aspires to become a platform that supports collaborative inquiry and promotes solutions that are evidence-based, scalable, and socially relevant.

While the journal maintains an interdisciplinary orientation, it prioritizes research that integrates key domains where cross-sectoral insights are most critical. These include:

- (i) data science and artificial intelligence, 98
- (ii) environmental sustainability, 99
- (iii) health and biomedical systems, and 100
- (iv) governance, policy, and economic development. 101

Rather than covering all disciplines broadly, SRR focuses on research that explicitly connects these areas to address complex, real-world challenges. 102

Ultimately, the launch of *Scientific Research Review* reflects a broader commitment to strengthening the role of scientific research in addressing global challenges. As societies navigate the uncertainties of technological transformation, environmental change, and economic development, rigorous and interdisciplinary scholarship will remain essential for generating the knowledge required to guide informed decision-making and sustainable progress. Through its dedication to academic excellence, methodological rigor, and open knowledge dissemination, SRR aims to contribute meaningfully to this evolving landscape of global scientific inquiry. 104

To clarify the thematic orientation of the journal, Table 1 presents the principal research domains and the broader intellectual scope of *Scientific Research Review*. These domains illustrate the interdisciplinary character of the journal and highlight how scientific inquiry contributes to addressing complex global challenges. 112

Table 1: Major Research Domains of Scientific Research Review (SRR) 116

Major Research Domain	Key Research Areas	Illustrative Research Questions	Broader Scientific and Societal Relevance
Science, Technology, and Innovation	Scientific discovery, research systems, technological innovation, interdisciplinary science	How can scientific collaboration accelerate innovation and knowledge production?	Strengthens global research ecosystems and technological advancement
Data Science and Artificial Intelligence	Machine learning, data analytics, computational modeling, algorithmic systems	How can data driven methods improve prediction, decision making, and scientific discovery?	Advances digital transformation and evidence based decision making
Environmental Science and Sustainability	Climate change, environmental governance, sustainable resource management, ecological systems	What scientific strategies can support sustainable development and environmental resilience?	Supports climate action and long term ecological sustainability
Engineering and Applied Technology	Engineering design, infrastructure systems, advanced materials, energy technologies	How can technological innovations address complex societal and industrial challenges?	Promotes industrial innovation and technological solutions for development
Health and Biomedical Research	Public health innovation, biomedical technologies, healthcare systems, medical data science	How can interdisciplinary research improve healthcare outcomes and disease prevention?	Enhances global health systems and medical innovation
Digital Transformation and Emerging Technologies	Cybersecurity, digital governance, information systems, smart technologies	How do emerging digital technologies reshape institutions, economies, and societies?	Supports responsible technological development and digital governance
Economic Systems and Sustainable Development	Economic innovation, technological entrepreneurship, development strategies	How can scientific and technological progress support inclusive economic development?	Contributes to sustainable and equitable economic growth
Governance, Institutions, and Policy Systems	Institutional effectiveness, regulatory frameworks, science policy, innovation governance	How can institutions design policies that support responsible technological and scientific advancement?	Strengthens evidence based policymaking and institutional development
Education and Knowledge Systems	Science education, research capacity building, higher education systems	How can education systems cultivate scientific literacy and innovation?	Builds human capital and research capacity worldwide
Interdisciplinary Research Methods	Quantitative methods, qualitative analysis, mixed methods research, computational approaches	How can integrative methodologies improve scientific understanding of complex systems?	Enhances methodological innovation and interdisciplinary collaboration

Table 1 summarizes the principal research domains that define the interdisciplinary scope of *Scientific Research Review*. The domains illustrate how the journal integrates diverse fields of scientific inquiry, ranging from technological innovation and data science to environmental sustainability, health research, and institutional development. By bringing these areas together, the journal encourages research that combines strong methodological foundations with practical relevance in addressing complex global challenges.

2. Interdisciplinary Research and Knowledge Integration

Contemporary scientific challenges increasingly require collaboration across disciplinary boundaries. Many of the issues facing modern societies such as climate change, digital transformation, global health risks, and sustainable development involve complex systems that cannot be adequately understood through a single field of study. Interdisciplinary research enables scholars to integrate perspectives from the natural sciences, engineering, social sciences, and applied policy research in order to generate more comprehensive insights.

For example, a study combining machine learning models with public health data to predict disease outbreaks, while incorporating policy analysis for intervention strategies, reflects the type of integrative research SRR seeks to promote. *Scientific Research Review* encourages such integrative scholarship by providing a platform where diverse research communities can engage in meaningful intellectual exchange. By promoting dialogue across disciplines, the journal aims to support research that advances theoretical understanding while also contributing to practical solutions for global challenges.

3. Methodological Rigor and Reproducible Science

Methodological rigor remains a fundamental requirement for credible scientific inquiry. As research becomes increasingly data intensive and computationally sophisticated, transparent research practices and reproducibility have become essential components of responsible scholarship. Clear documentation of methods, careful data analysis, and replicable research designs strengthen the reliability of scientific findings and allow other researchers to verify and extend existing knowledge.

Scientific Research Review places strong emphasis on research that demonstrates analytical clarity and robust methodological approaches. The journal encourages authors to adopt *transparent* reporting standards and to promote openness in data and analytical procedures whenever possible. Such practices contribute to the development of trustworthy and cumulative scientific knowledge.

4. Science, Innovation, and Societal Impact

Scientific research plays a critical role in shaping technological progress and social development. Innovations in areas such as artificial intelligence, environmental technology, *biomedical* science, and advanced engineering have transformed the ways societies respond to economic, environmental, and health related challenges. At the same time, scientific discoveries increasingly inform public policy and institutional decision making.

By publishing research that connects scientific knowledge with real world applications, *Scientific Research Review* seeks to contribute to the broader societal value of research. The journal *encourages* studies that generate insights relevant to technological advancement, sustainable development, and evidence based policymaking. Through this approach, scientific knowledge can more effectively support informed decisions and responsible innovation.

5. Conclusion

The establishment of *Scientific Research Review* reflects a commitment to advancing interdisciplinary scientific scholarship in an increasingly complex global environment. By *promoting* rigorous research, methodological transparency, and open access dissemination

of knowledge, the journal aims to strengthen collaboration among scholars across diverse fields of inquiry.

As scientific and technological developments continue to shape the future of societies, the need for integrative and evidence based research will remain essential. *Scientific Research Review* aspires to provide a platform where innovative ideas, methodological advances, and interdisciplinary perspectives contribute to the advancement of knowledge and the development of sustainable solutions for global challenges.

6. Editorial Framework and Implementation Strategy

To operationalize its interdisciplinary vision, Scientific Research Review adopts a structured editorial and evaluation framework designed to ensure both integration and rigor.

First, the journal implements a cross-disciplinary peer review model, where manuscripts that span multiple domains are evaluated by reviewers from complementary fields. This approach ensures that both methodological soundness and interdisciplinary relevance are adequately assessed.

Second, SRR emphasizes methodological transparency and reproducibility. Authors are encouraged to provide detailed methodological documentation, share datasets where feasible, and ensure that analytical procedures are replicable. Submissions involving computational or data-driven methods are expected to include clear model descriptions and, where possible, code availability.

Third, the journal promotes thematic integration through special issues and editorial curation. Periodic special issues will focus on key global challenges—such as climate resilience, digital governance, and health system innovation—bringing together contributions from diverse disciplines within a unified analytical framework.

Fourth, SRR incorporates quality control mechanisms to maintain high academic standards. These include double-blind peer review, editorial screening for methodological rigor, and clear guidelines for ethical research practices.

Finally, the journal recognizes the practical challenges of interdisciplinary research, including differences in terminology, methods, and evaluation standards across fields. To address these challenges, SRR encourages authors to clearly articulate the integrative contribution of their work and to communicate findings in a way that is accessible to a broader scholarly audience.

Through these combined strategies, SRR aims to move beyond a conceptual commitment to interdisciplinarity and establish a concrete, implementable model for integrative scientific publishing.

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