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arabian journal of chemistry

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Arabian Journal of Chemistry: A Comprehensive Guide

In the rapidly evolving world of scientific publishing, the **Arabian Journal of Chemistry (AJC)**stands out as a pivotal platform for chemists in the Middle East and beyond. Launched in 2005, AJC has grown from a modest regional publication to a respected peer reviewed journal that showcases cutting edge research across all branches of chemistry. Whether you are a seasoned researcher, a graduate student, or an academic librarian, understanding the nuances of AJC—its history, editorial practices, scope, and impact—can help you navigate the journal's offerings and contribute effectively to its growing community.

History and Founding

The inception of the Arabian Journal of Chemistry was driven by a clear vision: to create a high quality outlet for chemists working in Arabic speaking countries and to foster international collaboration. The founding editorial board, comprised of leading scientists from Saudi Arabia, Qatar, the United Arab Emirates, and Egypt, recognized a gap in the literature where region specific research—especially applied studies relevant to local industries—was underrepresented.

From its first issue, AJC emphasized rigorous peer review and adherence to international publishing standards. The journal's early editorial policies mirrored those of established journals such as the Journal of the American Chemical Society and Nature Chemistry, ensuring that the quality of manuscripts met global benchmarks. Over the years, the journal has expanded its editorial board, added associate editors from diverse sub disciplines, and broadened its scope to encompass interdisciplinary studies that intersect with chemistry.

Editorial Structure and Governance

The editorial structure of AJC is designed to maintain transparency, fairness, and scientific integrity. At the helm is the Editor in Chief, who oversees the overall direction of the journal, sets editorial policies, and ensures compliance with open access mandates. Supporting the Editor in Chief are:

- Associate Editors—specialists in organic, inorganic, physical, analytical, and materials chemistry who handle manuscript assignments and initial quality checks.
- Editorial Board Members—renowned chemists from academia and industry who provide strategic guidance, promote the journal, and act as ambassadors in their respective fields.
- Peer Reviewers—expert scientists who evaluate manuscripts for originality, methodology, and significance, ensuring that only robust research is published.

All editorial decisions are made through a double blind review process, protecting both authors and reviewers from bias. The editorial board meets quarterly—virtually or in person—to review performance metrics, discuss potential special issues, and update the journal's mission statements.

Scope and Subject Areas

AJC publishes original research articles, short communications, reviews, and perspective pieces that cover the full spectrum of chemistry. The journal's broad scope encourages submissions that reflect both fundamental science and applied research relevant to the Middle Eastern region. Key subject areas include:

- Organic Chemistry—synthetic methodologies, natural product chemistry, and bioorganic studies.
- Inorganic Chemistry—coordination compounds, catalysis, and materials chemistry.
- Physical Chemistry—spectroscopy, thermodynamics, and quantum chemistry.
- Analytical Chemistry—sensor development, chromatography, and mass spectrometry.
- Environmental Chemistry—pollutant monitoring, remediation technologies, and green chemistry.
- Materials Chemistry—nanomaterials, polymers, and energy storage systems.
- Computational Chemistry—molecular modeling, machine learning applications, and database development.

In addition to these core disciplines, AJC welcomes interdisciplinary research that bridges chemistry with biology, physics, engineering, and data science, especially when it offers insights into regional challenges such as water scarcity, renewable energy, and industrial processing.

Publication Model and Access

AJC operates under an open access model, ensuring that all published articles are freely available to readers worldwide. The journal employs a Creative Commons Attribution (CC BY) license, allowing others to reuse, adapt, and redistribute the content as long as proper credit is given. This approach aligns with global movements toward open science and increases the visibility and citation potential of the research.

Authors pay a modest article processing charge (APC) upon acceptance, which covers editorial services, peer review management, and digital archiving. AJC offers fee waivers or discounts for authors from low income countries, students, and early career researchers, thereby promoting inclusivity and diversity in scientific publishing.

Peer Review Process

The integrity of AJC hinges on its meticulous peer review workflow. Manuscripts undergo the following stages:

1. Initial Screening—The editorial office checks for compliance with formatting guidelines, ethical considerations, and scope alignment.
2. Associate Editor Assignment—An associate editor evaluates the manuscript’s novelty and assigns two independent reviewers.
3. Reviewer Evaluation—Reviewers assess methodology, data integrity, and the significance of findings. They provide detailed comments and recommend acceptance, revision, or rejection.
4. Author Revision—Authors respond to reviewer comments in a structured rebuttal letter, addressing each point and revising the manuscript accordingly.
5. Final Decision—The associate editor synthesizes reviewer feedback and author responses to make a recommendation to the Editor in Chief, who makes the final decision.

To maintain transparency, the journal publishes a brief summary of reviewer comments (confidential or anonymized) along with the final decision, fostering accountability and encouraging constructive dialogue.

Impact and Indexing

Since its inception, AJC has steadily climbed the ranks in the scientific community. The journal is indexed in major databases such as:

- Scopus—providing visibility to researchers worldwide.
- —enhancing citation tracking and impact assessment.
- PubMed Central—extending reach to life science researchers.
- Directory of Open Access Journals (DOAJ)—validating the journal’s open access status.

AJC’s impact factor, calculated by Clarivate Analytics, has shown a consistent upward trajectory, reflecting the journal’s growing influence. In 2024, the impact factor reached 2.8, positioning AJC competitively among regional

chemistry journals.

Submission Guidelines

To facilitate a smooth submission experience, AJC provides a comprehensive author guide. Key points include:

- Manuscript Types—Original research, short communication, review, and perspective.
- Formatting—Use the provided LaTeX or Word templates; ensure all figures and tables meet the required resolution and style guidelines.
- Ethical Standards—Disclose any conflicts of interest, obtain necessary approvals for animal or human studies, and provide data availability statements.
- References—Follow the journal's citation style (APA 7th edition) and include DOIs for all cited works.
- Cover Letter—Highlight the manuscript's novelty, relevance to the journal's scope, and potential impact.

Authors are encouraged to use the online submission portal, which tracks manuscript status and facilitates communication with reviewers and editors.

Notable Articles and Research Themes

AJC has published several landmark studies that have shaped contemporary chemistry. Highlights include:

- Green Catalysis for Petrochemical Refining—A study demonstrating a novel iron based catalyst that reduces energy consumption in hydrocarbon processing.
- Water Purification Nanofiltration Membranes—Research on graphene oxide composites that achieve 99.9% removal of heavy metals from brackish water.
- Biodegradable Polymers from Date Palm Fibers—An interdisciplinary effort combining materials science and agricultural waste utilization.
- Machine Learning Driven Reaction Prediction—A computational framework that predicts reaction outcomes with 92% accuracy, aiding synthetic chemists.

These studies not only highlight scientific excellence but also emphasize the journal's commitment to addressing regional challenges through chemistry.

Special Issues and Thematic Collections

To spotlight emerging trends and foster collaboration, AJC regularly publishes special issues curated by guest editors. Recent themes include:

- Renewable Energy Materials—Exploring solar cells, batteries, and fuel cells tailored to Middle Eastern climates.
- Environmental Remediation—Innovations in pollutant detection, degradation, and sustainable waste management.
- Pharmaceutical Chemistry—Drug discovery, formulation, and delivery systems relevant to regional health concerns.
- Computational Chemistry in Drug Design—Leveraging AI and high performance computing for faster lead identification.

These special issues attract high impact submissions and provide a platform for researchers to showcase collaborative work.

Author and Reviewer Resources

AJC offers a suite of resources to support authors and reviewers throughout the publication process:

- Author Workshops—Webinars covering manuscript preparation, data presentation, and ethical publishing.

- Reviewer Training—Guidelines and best practices for conducting thorough, unbiased reviews.
- Template Repository—Downloadable LaTeX and Word templates, figure guidelines, and supplementary material instructions.
- Editorial Board Profiles—Detailed bios and research interests of editorial staff, fostering trust and transparency.

These tools help maintain high standards and streamline the workflow for all stakeholders.

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