



an Open Access Journal by MDPI

Atomic Layer Materials and Processes

Guest Editors:

Dr. Haozhe Wang

Kavli Institute of Nanoscience, California Institute of Technology, Pasadena, CA 91109, USA

Dr. Qichen Song

Department of Chemistry and Chemical Biology, Harvard University, Cambridge, MA 02138, USA

Prof. Dr. Wei Wang

School of Integrated Circuits, Peking University, Beijing 100871, China

Deadline for manuscript submissions: closed (31 May 2023)

Message from the Guest Editors

As device features become ever smaller, materials and fabrication with atomic precision are particularly of interest in the research community. Atomic layer materials such as graphene have demonstrated extraordinary electrical and optical properties for novel devices. Recent advances in the synthesis and processing of unconventional atomic layers, such as MXenes and 2D metal-organic frameworks (MOFs), offer exciting opportunities for next-generation circuits and systems. Equally exciting, disruptive advances in atomic layer deposition (ALD) and atomic layer etching (ALE) continue to provide new abilities for the additive and subtractive fabrication of 3D structures. For instance, isotropic thermal ALE shows advantages in building concave features and minimizing atomic defects in IC circuits. micro-robotics. advanced micro and electromechanical systems (MEMS).

Accordingly, this Special Issue seeks to showcase research papers and review articles that focus on novel advances in atomic layer materials/processes and their applications in electrical/optical devices, quantum circuits, MEMS, and robotics. We look forward to receiving your submissions!



mdpi.com/si/115554







an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Ai-Qun Liu

 Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication i n *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions. **High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases. **Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Mechanical Engineering*)

Contact Us

Micromachines Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/micromachines micromachines@mdpi.com X@micromach_mdpi