



## An Overview of the Recent Advances in Advanced Electron Microscopy Imaging, Spectroscopy and Their Related Applications

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### Message from the Guest Editors

Advanced electron microscopic techniques including aberration-corrected TEM/STEM, in situ TEM and the corresponding analytical techniques (EDS and EELS) have had a tremendous impact on the way nanomaterials are currently being visualized, analyzed and understood. The very high spatial resolution and temporal resolution made possible by some of the recent developments have made them very exciting, with several new and recent discoveries related to the field of materials. This Special Issue thus serves to bring a status update to this exciting field. Electron microscopic techniques and their applications to a variety of clusters, nanomaterials and 2D materials including catalysts and energy-related materials are the focus of this Special Issue. In addition, techniques including 3D tomography, spectroscopic tomography and in situ techniques which are being explored are also encouraged to be part of this Special Issue. Recent advances in electron microscopic techniques including operando TEM employing specialized holders: liquid cell holders, gas cell holders, etc., and their related applications are also encouraged to contribute to this Special Issue.





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## Editor-in-Chief

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## Message from the Editor-in-Chief

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