

Special Issue

Correlative Microscopy: Workflows and Applications in Materials Science

Message from the Guest Editors

Almost 40 years have passed since the first paper was published by M. Osborn, R.E. Webster and K. Weber describing the possibility of combining light and electron microscopy to observe the same region of interest. Later, this particular approach to microscopy became known as correlative microscopy, and the combination of these two techniques is called CLEM—Correlative Light to Electron Microscopy. For a long time, this technique was strictly limited to the life sciences, but the need for specific and different information from a particular region of interest has extended this approach to materials science, including other characterization techniques such as RAMAN, AFM or XRM.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

Application of different combinations of correlative microscopy in material science.

Development of innovative workflows for fast and accurate correlative microscopy.

Methods of data analysis for correlative microscopy, including the employment of IA systems.

Guest Editors

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Deadline for manuscript submissions

closed (20 May 2025)



Applied Sciences

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CiteScore 5.5



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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