

Topic: Using Machine Vision to Drive Nanoscale In Situ Discoveries That Solve Real-World Problems

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Abstract:

In order to fine-tune materials for stronger steels, more efficient catalysts, better batteries, etc., understanding how the environment affects a material's atomic-scale foundation over time is critical. Protochips has created the first-of-its-kind line of machine vision empowered in situ TEM solutions for this purpose. These solutions enable you to quantitatively analyze your material's atomic foundation, in a highly realistic environment within the TEM, while taking advantage of machine vision software to generate higher quality data in less time and unveil trends that would otherwise be hidden. Join us to learn about in situ liquid phase, environmental gas phase, and vacuum heating and electrical characterization inside the TEM that furthers research for catalysts, batteries, corrosion of steel, electronic devices, nanomaterial synthesis and characterization, and more.