

information (specifically, size and areal density). This paper serves to demonstrate the power of deep learning-based computer vision models for material image studies and suggests the possibility that most aspects of defect analysis may soon be practically automated, and many, if not all, handcrafted feature-based methods may be replaced by deep learning methods.

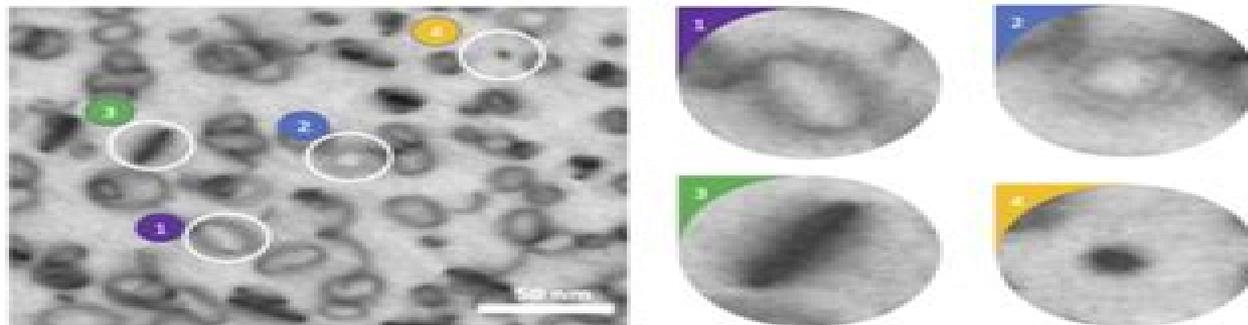


Figure 1. Selected bright field scanning transmission electron microscopy (STEM) image of an irradiated ferritic alloy showing four common morphologies of dislocation loops: (1) open ellipse loops (single ring edge), (2) open ellipse loops (double ring edges), (3) closed elliptical solid loops, (4) closed circular solid dots. Open single edge ellipse loops (1) are dislocation loops with a Burgers vector of  $\frac{a_0}{2}(111)$ . Open double edge ellipse loops (2) and closed elliptical solid loops (3) are dislocation loops with a Burgers vector of  $a_0(100)$ . Closed circular solid dots (4) are black dot defects with a Burgers vector of either  $\frac{a_0}{2}(111)$  or  $a_0(100)$ . Image size: Primary image is  $290 \times 290$  nm; inset scales arbitrary.

# Defect Analysis In Electron Microscopy

**Marcel A. Müller**



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