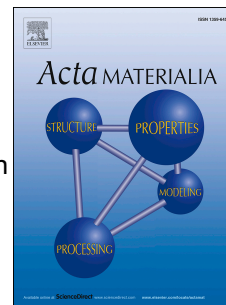


# Accepted Manuscript

Investigation on temporal evolution of the grain refinement in copper under high strain rate loading via *in-situ* synchrotron measurement and predictive modeling

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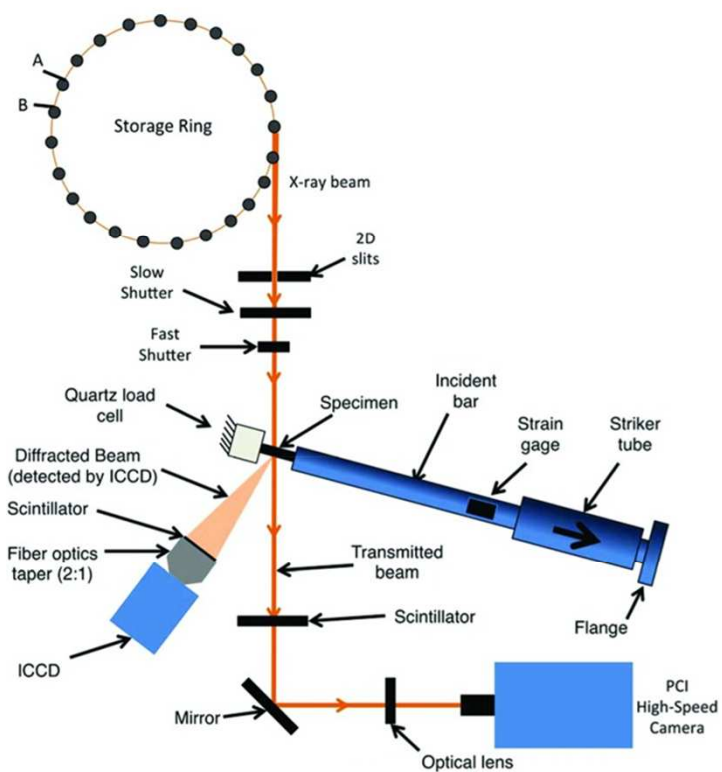
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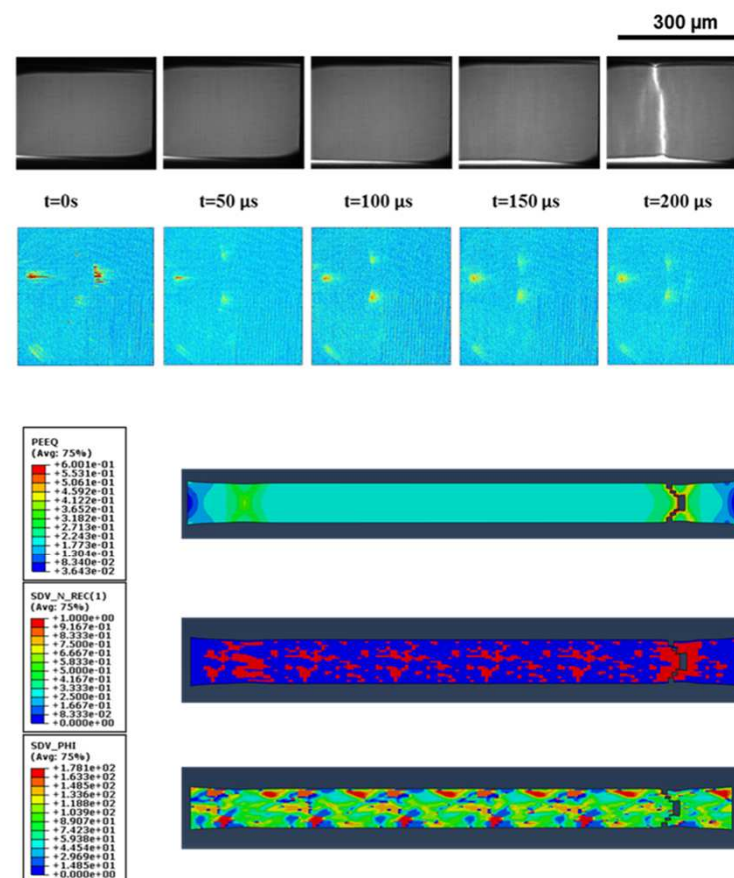
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## In situ Synchrotron measurements



## Probabilistic multiscale grain refinement framework



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