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Analysis of electromagnetic forces and causality in electron microscopy

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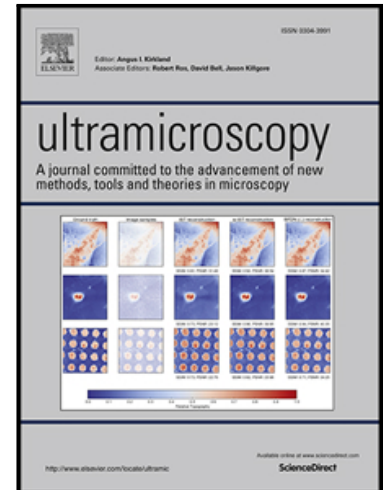
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Highlights

- Non-causal extrapolated dielectric functions cause a pre-echo in the induced dipole
- A direct and efficient method to detect non-causal dielectric functions is presented
- Causality is crucial to yield physical results for all-frequencies-required problem
- Several dielectric functions proposed and used in literature are non-causal functions

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