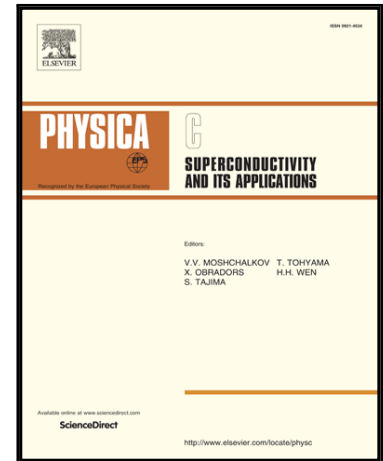


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Simulated Increase of Critical Currents in Heterogeneous Hybrid Superconducting Samples

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**Highlights**

- Pinning arrays with density gradient present highest increases in critical current.
- Even in absence of curvature of the arrays, the increases are very high.
- Conclusions obtained via TDGL equations contrast with those of vortex dynamics model.
- Some performance metrics are introduced, fit for optimisation of critical currents.
- Results are presented for two novel arrays, regarding also material and temperature.

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