

Superconductivity at IBM - a Centennial Review:
Part II – Materials and Physics

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Abstract - The history of materials and physics research in superconductivity at IBM Research spans a broad range of topics including major contributions in the discovery of organic and high temperature superconductors, elucidation of grain boundary critical currents and magnetic phase diagram, and proposals for the underlying mechanism of high temperature superconductivity.

Keywords - HTS, organic superconductors, nanostructures, YBCO, grain boundaries, giant flux creep, vortex glass, d-wave superconductor

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