



Handbook on the Physics and Chemistry of Rare Earths: High Temperature Rare Earths Superconductors - I: 30


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This volume of the Handbook is the first of a two-volume set of reviews devoted to the rare-earth-based high-temperature oxide superconductors (commonly known as hiTC superconductors). The history of hiTC superconductors is a few months short of being 14 years old when Bednorz and Müller published their results which showed that $(La,Ba)_2CuO_4$ had a superconducting transition of ~ 30 K, which was about 7K higher than any other known superconducting material. Within a year the upper temperature limit was raised to nearly 100K with the discovery of an ~ 90 K superconducting transition in $YBa_2Cu_3O_{7-\delta}$. The announcement of a superconductor with a transition temperature higher than the boiling point of liquid nitrogen set-off a frenzy of research on trying to find other oxide hiTC superconductors. Within a few months the maximum superconducting transition reached 110 K ($Bi_2Sr_2Ca_2Cu_3O_{10}$), and then 122K ($TlBa_2Ca_3Cu_4O_{11}$). It took several years to push TC up another 11 K to 133 K with the discovery of superconductivity in $HgBa_2Ca_2Cu_3O_8$, which is still the record holder today.

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