

METALS AND SUPERCONDUCTORS

Thallium-Based High-Temperature 2212 Superconductor with Partial Substitution of Oxygen by Fluorine and of Calcium by Cerium

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Received March 2, 2006; in final form, May 16, 2006

Abstract—Fluorine- and cerium-substituted thallium-based high-temperature 2212 superconductors are synthesized, the limits of solubility of the substitutes are investigated, the critical temperatures of the superconducting transitions are measured, and the local structure is refined using the Mössbauer technique.

PACS numbers: 61.10.Nz, 61.18.Fs, 74.62.Bf, 74.72.Jt

DOI: 10.1134/S1063783407030031

1. INTRODUCTION

It is generally accepted that the density of charge carriers (holes) in the Cu–O planes determines the superconducting properties of cuprate superconductors. Successful attempts to reduce the hole density and thereby increase the superconducting transition temperature have been related to either producing oxygen nonstoichiometry or substituting elements with a higher valence for the cations. Partial substitution of fluorine for oxygen in a complex cuprate reduces the hole concentration in the cuprate planes; so most of the

oxyfluorides synthesized in the past years have higher superconducting transition temperatures T_c than do their oxide counterparts (Table 1) [1–12]. High-temperature superconducting oxyfluorides of various compositions (based on Y, Sr, Hg, Bi, or Tl) and structural types (2223, 2212, 2201, 1223, 1234, 123) have been synthesized and studied.

It is known [1, 5] that fluorination of thallium-based superconductors increases the critical currents and is sometimes accompanied by a phase transformation, for example, Tl-2223 into Tl-1223, as shown in [5]. It is

Table 1. Published data on oxyfluorides of cuprate superconductors

Material	Crystal structure	T_c , K	Reference
(Tl _{0.5} Pb _{0.5})Sr _{1.6} Ba _{0.4} Cu ₂ Cu ₃ O ₇ F _x	1223	128	[1]
(Tl _{0.5} Pb _{0.5})Sr _{1.6} Ba _{0.4} Cu ₂ Cu ₃ O ₇ F ₂	1234	128	[2]
(Tl _{0.6} Pb _{0.4})Sr _{1.4} Ba _{0.2} Cu _{1.9} Cu ₃ O ₇ F _{0.6}	1223	116	[3]
Tl _{1.9} Sn _{0.1} Ba ₂ Cu ₃ O ₇ F _{1.2}	2201	97	[4]
Tl ₂ Ba ₂ Cu ₂ Cu ₃ O ₇ F ₂	2223	119	[5]
Tl ₃ Ba ₂ Cu ₂ Cu ₃ O ₇ F ₂	1212	115	[5]
Bi _{1.2} Sr ₂ CaCu ₂ O ₈ + 2 wt % NH ₄ HF ₂	2212	105	[3]
Bi ₂ Sr ₂ Ca ₂ Cu ₃ O ₈ F ₄	2223	105	[6]
Bi ₂ Sr ₂ Ca ₂ Cu ₃ O ₈ F ₄	2212	75	[6]
HgBa ₂ Ca ₂ Cu ₃ O ₈ F _{0.4}	1223	131.1	[7]
Hg _{0.8} Rc _{0.2} Ba ₂ Ca ₂ Cu ₃ O ₇ F _{0.88}	1223	132	[8]
YBa ₂ Cu ₃ O ₇ F _{1.2}	123	90	[9]
SrBaYCu ₃ F ₂ O ₆	123	105	[10]
YBa ₂ Cu ₃ O ₇ F ₂	123	155	[11]
SrCa ₂ Cu ₃ O ₆ F ₂	–	111	[12]

Thallium Based High Temperature Superconductors

Sabine Zange

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