

Assoc. Prof. Dr. Haluk KORALAY

Address : Gazi University, Science Faculty,
Dept. of Physics,
Teknikokullar Ankara TURKEY

Gsm : +90 (532) 656 30 71

E-mail : hkoralay@gmail.com

<http://websitem.gazi.edu.tr/koralay/AnaSayfa>



Education:

2007 Doctor of Science, Solid State Physics, University of Gazi, Ankara. Turkey

1996 Master of Science, Solid State Physics, University of Firat, Elazig, Turkey.

1994 Bachelor of Science, Physics, University of Firat, Elazig, Turkey.

Membership:

Turkish Physical Society

Research Focus:

Superconductivity, Glass-ceramics, Crystallography, Thermal Analysis

Teaching: 2010 Spring Semester:

PHYS 102: General Physics II

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PHYS 407: Solid State Physics

PHYS 152: Elec. Lab.

MSN 532 : Physical Principles and Applications of Thermal Analysis Methods

ILT 532 : Glass Ceramic Structures

Work Experience:

2012- - : Associate Professor in the field of Solid State (Superconductivity).

2009-2012 : Assistant Professor in Gazi University, Science Faculty, Physics
Department, Ankara

2000-2009: Researcher, Saraykoy Nuclear Research and Training Center,
Department of Technology, Ankara

1996-2000: Research Assistant, in Firat University, Elazığ, Türkiye

Some Publications:

1. H. Koralay, S.Cavdar, M.A.Aksan, "Kinetics of non-isothermal crystallization of $\text{Bi}_3\text{Sr}_2\text{Ca}_2\text{Cu}_{3-x}\text{Sn}_x\text{O}_{10+\square}$ glass-ceramics", Physica B , 405, 4801, 2010

2. S. Cavdar, F. Yakuphanoglu, H. Koralay, A. Gunen, "The electrical transport properties and Hall effect measurements on a (TBCCO) superconductor", *Physica C (ISI)* 434 (1), 85-89 pp., 2006
3. S. Cavdar, H. Koralay, N. Tugluoglu and A. Gunen, "Frequency-dependent dielectric characteristics of Tl-Ba-Ca-Cu-O bulk superconductor", *Superconductor Science and Technology (ISI)* 18 (9), 1204-1209 pp., 2005
4. H. Koralay, F. Yakuphanoglu, S. Cavdar, A. Gunen, E. Aksu, "Crystallization kinetics of $\text{Bi}_{1.7}\text{V}_{0.3}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_x$ glass-ceramic", *Physica B* 355 (1-4), 64, 2005
5. E. Aksu, A. Gencer, N. Calınlı, H. Koralay, S. Cavdar, "Investigation of odd-order harmonic susceptibilities of a bulk $\text{Tl}_2\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ superconductors using critical state approach", *Physica B* 363 (1-4), 158-165 pp., 2005
6. T. S. Kayed, N. Calınlı, E. Aksu, H. Koralay, A. Günen, İ. Ercan, S. Aktürk, and Ş. Çavdar, "Microstructural, thermal, and electrical properties of $\text{Bi}_{1.7}\text{V}_{0.3}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_x$ glass-ceramic superconductor", *Crystal Research and Technology (ISI)* 39 (12), 1063-1069 pp., 2004
7. S. Çavdar, E. Aksu, H. Koralay, H. Özkan, N. M. Gasanly, and I. Ercan, "Effect of B_2O_3 addition on the formation and properties of Tl-2212 and Tl-2223 superconductors", *physica status solidi (a)* 199 (2), 272, 2003
8. Haluk Koralay, Mehmet Ceylan, Hulusi Yavuz, "The crystal growth kinetics of $\text{Bi}_2\text{Sr}_2\text{CaCu}_3\text{O}_x$ glass-ceramics", *Journal of Materials Processing Technology (ISI)* 141 (2), 243-250 pp., 2003
9. Çavdar, S., Koralay, H., Altındal, Ş. "Effect of vanadium substitution on the dielectric properties of glass ceramic Bi-2212 superconductor" *Journal of Low Temperature Physics, (ISI)* 164, 102-114 pp, 2011
10. S. Cavdar, E. Deniz, H. Koralay, O. Ozturk, M. Erdem, A. Gunen "The Effect of PbSe Addition on the Mechanical Properties of Bi-2212 Superconductors" *J. Supercond Nov Magn* 25, 2297, 2012
11. A. Arslan, H. Koralay, Ş. Çavdar, A. Günen "Crystallization kinetic studies on $\text{Bi}_{1.75}\text{Pb}_{0.25}\text{Sr}_2\text{Ca}_2\text{Cu}_{3-x}\text{Sn}_x\text{O}_\delta$ glass-ceramic by using non-isothermal technique" *Journal of Non-Crystalline Solids* 358 1190–1195, 2012
12. E. Erbilen, Ş. Çavdar, H. Koralay, A. Günen, "Effect of Vanadium Substitution on the Microstructural and Superconducting Properties of

Tl₂Ba₂Ca₂-xVxCu₃O_y Superconductors", Physica B, DOI Number:
10.1016/j.physb.2012.12.038, 2013