

## Prof. MEHMET RECAİ ELLİALTIOĞLU

### Personal Information

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### Education Information

Post Doctorate, University of Missouri-Columbia, Faculty Of Science, Department Of Physics, United States Of America  
1979 - 1980

Doctorate, University of Missouri-Columbia, Faculty Of Science, Department Of Physics, United States Of America 1975 - 1979

Postgraduate, Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey 1967 - 1973

Undergraduate, Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey 1967 - 1972

### Foreign Languages

English, C1 Advanced

### Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Equations of State, Phase Equilibria, and Phase Transitions, Lattice Dynamics, Mechanical and Acoustic Properties of Condensed Matter, Thermal Properties of Condensed Matter, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electronic structure of bulk material, Natural Sciences

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of Core Electrons in Defining the Total Energy, Correlation Energy, and Binding Energy of Graphene, Graphite, and Diamond: a First-Principles Study**  
AKBUDAK S., ELLİALTIOĞLU M. R.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.31, no.10, pp.3097-3104, 2018 (SCI-Expanded)
- II. **The effect of the substitution of Cu for Mn on magnetic and magnetocaloric properties of Ni<sub>50</sub>Mn<sub>34</sub>In<sub>16</sub>**  
Kaya M., YILDIRIM S., Yuzuak E., Dincer I., Ellialtioglu R., Elerman Y.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.368, pp.191-197, 2014 (SCI-Expanded)
- III. **The peak effect (PE) region of the antiferromagnetic two layer Ising nanographene**  
Sarli N., Akbudak S., ELLİALTIOĞLU M. R.  
PHYSICA B-CONDENSED MATTER, vol.452, pp.18-22, 2014 (SCI-Expanded)
- IV. **Structural, electronic and vibrational properties of ordered intermetallic alloys Co<sub>Z</sub> (Z=Al, Be, Sc and Zr) from first-principles total-energy calculations**

- Ugur S., Iyigor A., Charifi Z., Baaziz H., ELLİALTIOĞLU M. R.  
PHILOSOPHICAL MAGAZINE, vol.93, no.24, pp.3260-3277, 2013 (SCI-Expanded)
- V. Electronic structure and vibrational properties in cobalt-based full-Heusler compounds: A first principle study of Co<sub>2</sub>MnX (X = Si, Ge, Al, Ga)  
Candan A., Ugur G., Charifi Z., Baaziz H., ELLİALTIOĞLU M. R.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.560, pp.215-222, 2013 (SCI-Expanded)
- VI. A first-principles study of the structural, elastic, electronic and phonon properties of LiMgP and LiMgAs in the alpha, beta and gamma phases  
Soyalp F., Ugur G., Ugur S., Sen H. C., ELLİALTIOĞLU M. R.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.551, pp.108-117, 2013 (SCI-Expanded)
- VII. First-principles study of B2-like intermetallics LaMg and YMg  
Ugur S., Ugur G., Soyalp F., ELLİALTIOĞLU M. R.  
INTERMETALLICS, vol.22, pp.218-225, 2012 (SCI-Expanded)
- VIII. Structural, electronic and elastic properties of YCu from first principles  
Ugur G., Civi M., Ugur S., Soyalp F., Ellialtioglu R.  
JOURNAL OF RARE EARTHS, vol.27, no.4, pp.661-663, 2009 (SCI-Expanded)
- IX. Electronic structure calculations of rare-earth intermetallic compound YAg using ab initio methods  
Ugur S., Ugur G., Soyalp F., Ellialtioglu R.  
JOURNAL OF RARE EARTHS, vol.27, no.4, pp.664-666, 2009 (SCI-Expanded)

## Supported Projects

ELLİALTIOĞLU M. R., Project Supported by Higher Education Institutions, Manyetik Şekil Hafızalı Alaşımında Faz Geçişlerinin İncelenmesi, 2013 - 2017

ELLİALTIOĞLU M. R., Project Supported by Higher Education Institutions, 20. Yoğun Madde Fiziği Ankara Toplantısı, 2014 - 2015

## Metrics

Publication: 9

Citation (WoS): 116

Citation (Scopus): 85

H-Index (WoS): 6

H-Index (Scopus): 5

## Non Academic Experience

TÜBİTAK Marmara Araştırma Merkezi

University of Missouri -Columbia

TAEK Ankara Nükleer Araştırma Merkezi