

## VIKTOR G. HADJIEV

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Cullen College of Engineering  
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### Education:

1981 MS (Physics) University of Sofia  
1988 PhD (Physics) University of Sofia

### Employment History:

2003 - Research Scientist, TcSUH and Dept. of Mechanical Engineering.  
2000 - 2002 Aerospace Fellowship position, Institute for Space Systems Operations (ISSO) and TcSUH (on leave of absence from University of Sofia).  
1996 - 1999 Visiting Professor, Max-Planck Institute for Solid State Research, Stuttgart, Germany (in part on leave of absence from University of Sofia).  
1994 - 2001 Tenured Professor of Physics, Dept. of Condensed Matter Physics, University of Sofia.  
1990 - 1992 Guest Scientist, Alexander von Humboldt Research Fellowship, Max-Planck Institute for Solid State Research, Stuttgart, Germany (on leave of absence from University of Sofia),  
1988 - 1993 Assistant Professor (tenure track), Dept. of Condensed Matter Physics, University of Sofia.  
1981 - 1987 Staff Physicist, Dept. of Solid State Physics, University of Sofia.

### Honors and Awards:

- Aerospace Fellowship, Institute for Space System Operations, Houston, 1999.
- Max-Planck Society Fellowship, Germany, 1992.
- Alexander von Humboldt Fellowship, Germany, 1990.

### Lab Facilities/Expertise:

- Condensed Matter Physics: Interplay between structural, electronic and magnetic degree of freedom of solid and soft condensed matter as in high-temperature superconductors and related compounds, fullerenes, carbon nanotubes, graphene, (magnetic) semiconductors, amorphous materials, polymers, hybrid organic-inorganic photovoltaics, nanocomposites.
- Experimental methods employing coupling of light to matter: Raman, infrared and visible to ultraviolet spectroscopy, including modulation spectroscopy methods.
- Experimental methods for solving nano-scale problems: Combined Atomic Force Microscopy (AFM), confocal, and near-field Raman imaging.
- First-principles simulations of material properties: Use of various computational codes to assist the interpretation of experimental results and predict new properties.

### Publications:

Researcher ID: [A-7069-2008](#)

Scopus Author ID: [7004824725](#)

ORCID ID: [0000-0001-8579-9357](#)

Google Scholar: <https://scholar.google.com/citations?hl=en&user=-CXRDvEAAAAJ>