

CURRICULUM VITAE

Dr. NICOLAE M. AVRAM

Emeritus Professor,
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<http://www.physics.uvt.ro/~avram/>
Married, 2 children;

Educational Background

MSc in Physics and Mathematics, West University of Timisoara, Romania (1962)

PhD in Physics, University of Craiova, Romania (1974)

Positions held

2010-present	West University of Timisoara, Romania	Emeritus Professor	Department of Physics
1990-2010	West University of Timisoara, Romania	Professor	Department of physics
1976-1990	University of Timisoara, Romania	Associate Professor	Department of Physics
1971-1976	University of Timisoara, Romania	Assistant Professor	Department of Physics
1962-1971	University of Timisoara, Romania	Assistant Lecturer	Department of Physics

Courses taught

Physics of Atoms and Molecules, Quantum Mechanics, Atomic and Molecular Spectroscopy, Condensed Matter Spectroscopy, Crystals Symmetry, Spectroscopy of Laser Crystals.

Research Fields

Atomic and Molecular Spectroscopy, Solid State Spectroscopy, Quantum Optics, Spectroscopy of Laser Crystals, Crystal Field Theory.

Fields of interest

- Semi- empirical , *ab initio* multireference calculations and DFT modeling of electronic, magnetic, optical, spectral and elastic properties of pure and doped crystals, glasses, nanomaterials;
- Ligand field theory (modeling the crystal field parameters and simulation the energy level schemes);
- Vibronic interactions and Jahn-Teller effect in molecules and crystals;
- Modeling of the EPR parameters and their relation with local deformations around paramagnetic ion;
- Electron density analysis for molecular crystals;

Awards

- “Dragomir Hurmuzescu” award of Romanian Academy, 2006;

Membership

- Romanian Academy of Scientists;
- Romanian Physical Society;
- European Physical Society;
- Optical Society of America;
- American Chemical Society;

Academic activities:

- PhD Supervisor
- Director of National Laboratory of X-ray Diffraction, West University of Timisoara (2001-2010)
- Assessment specialist for CNCSIS and CNEAA (ARACIS) -1994-2005

- Editor in Chief : Analele Universitatii de Vest din Timisoara-Seria Fizica (1978-2012)
- Senior Editor :The Annals of the West University of Timisoara, Physics Series (2012-present)

Referee for Journals:

Optical Materials, Journal of Luminescence, Journal of Alloys and Compounds , Journal of Physics and Chemistry of Solids, Journal of Magnetism and Magnetic Materials, Physica B: Condensed Matter, Computational Materials Science, Journal of Experimental Nanoscience, , Physica Scripta, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, International Journal of Theoretical Physics, The Journal of Physical Chemistry, Materials Chemistry and Physics, Powder Technology, Molecular Physics, Acta Physica Polonica A, Chemistry and Physics, Journal of Molecular Structure.

Administrative positions at West University of Timisoara:

- 2005- 2010: Head of PhD School, Faculty of Physics, West University of Timisoara
- 1996 - 2004: Vice-Rector, West University of Timisoara
- 1984 - 1990: Dean of the Faculty of Natural Science, University of Timisoara
- 1976 - 1986: Head of the Physics Department, Faculty of Natural Science, University of Timisoara

Miscellaneous

- Scientific Projects: 19;
- Published papers in ISI journals: 102;
- Published books: 16;
- Cited number of the papers published in ISI journals: 765;
- Average citations per year: 46.05
- Member of Scientific Committee of Conferences: 20;
- Hirsh Index:16 (Web of Science);

Timisoara,
17 of December, 2020