

ION N. MIHAILESCU

Affiliation and official address: “Laser-Surface-Plasma Interactions” Laboratory, Lasers Department; National Institute for Lasers, Plasma and Radiation Physics (INFLPR); P.O. Box MG-36 RO-77125 Magurele, Ilfov; Romania, Tel: +40(0)21 4574491 ; Fax: +40(0)21 4574243; Mobile : +40(0)743 788923 ; e-mail: ion.mihailescu@inflpr.ro; <http://lspi.inflpr.ro/>

Head of Laser-Surface-Plasma Interactions (LSPI) Laboratory, INFLPR since 1975

Date and place of birth: May 30, 1947, Slatina, Olt, Romania, **Nationality:** Romanian

Education (degrees, dates, universities):

- July 1982: Received Ph.D. from the Central Institute of Physics, Bucharest; Ph.D. thesis: “Interaction of 1.06 mm laser radiation of ms duration with metallic targets in vacuum”

- July 1969: Graduated from the University of Bucharest Faculty of Physics after majoring in Nuclear Physics and Optics, Spectroscopy, and Plasma Physics; graduation thesis: “Statistical fluctuations in nuclear reactions”

Career/Employment

- 1990 to date: Senior research scientist 1-st degree, LSPI-INFLPR
- 1990 to date: Professor, Faculty of Physics, University of Bucharest
- 1975-1989: Research scientist, Institute of Physics and Technology of Radiation Devices, Central Institute of Physics, Bucharest
- 1969–1975: Physicist, Lasers Department, Institute of Atomic Physics, Bucharest

Specialization:

(i) main field: Laser interactions; lasers and plasma physics; nanostructured thin films technology, nanopowders generation and characterization, surface physics and engineering, laser spectroscopy.

(ii) other fields: Biophysics and biomedicine; nano- bio- technologies, gas- and bio- sensors, plasma and laser theory.

(iii) current research interests: Top pulsed laser deposition techniques, modification and characterization of nanostructured coatings; laser surface studies and processing; biomaterials thin layers; tissue engineering; biomimetic metallic implants; optoelectronics and sensors.

Foreign languages: English, French, Russian, Italian

Participation in PhD juries:

- 40 PhD theses supervised and defended since 1995, 5 under way

- sitting in PhD juries in Romania and abroad: France, Bulgaria, Serbia, Moldova, Italia, Spain

Management of projects:

Presently, I am the manager of the contract POG 35 G (aprox 3,3M EURO) co-financed by the European Union and Romanian Ministry of Research and Education, and the main responsible from Romanian side for H2020 MSCA Contract: DOC 3D Printing (aprox 1M EURO).

I was leading R&D contracts since early 80' under the generic title: "Laser Interactions with Matter". After the instauration of competition principles, in early 90', I was continuously coordinating as manager of national (over 30) and international projects (over 20); or responsible from Romanian side, EU or NATO contracts every year (over 20), since now. More details can be found on my personal website: http://spi.inflpr.ro/People/CV_Ion_Mihailescu.html

Awards:

- 2019: OSA Fellow for outstanding contributions to the field of Optics of high pulsed energy laser radiation, with ground breaking applications in nano-biomedicine, chemistry, and metallurgy
- December 17, 2015: Doctor Honoris Causa of the University of Cergy-Pontoise, France
- 2012: Honorary Award and Medal from Institute of Atomic Physics, Bucharest "for contributions in the field of laser – mater interactions "
- 1994: "Galileo Galilei" Award of the International Commission for Optics (ICO) "for outstanding contributions to the field of Optics"
- 1975: "Constantin Miculescu" Prize of the Romanian Academy for contributions to Laser Interactions Physics and Applications

Patents: 18 patents. Among them Victor G. Ivanov, Emil S. Vlahov, Ion N. Mihailescu, Carmen Ristoscu, "Structure for Enhanced Raman Scattering and Method for its preparation/fabrication", 112167/04.12.2015 (in Bulgaria). Romanian Patent No. 123461, issued December 5, 2006, by OSIM, "Methane gas sensitive material and threshold sensor for methane detection", M. Popescu, F. Sava, A. Lorinczi, A. Tomescu, C. Simion, D. Savastru, S. Miclos, Ion N. Mihailescu, G. Socol, E. Axente, was awarded with Gold Medal at 5th International Exhibition of Innovations, New Ideas, Products, and Technologies, Arca 2007, Zagreb, Croatia, September 11-16, 2007 and Bronze Medal at 11th International Exhibition of Inventions, Scientific Research and New Technologies, Inventika 2007, October 2-6, 2007, Bucharest, Romania

Member of the Steering Panel of *International Conference on Photo-Excited Processes and Applications* – ICPEPA since 2016 when I organised and Chaired this event in Brasov, Romania;

Member of the editorial board of Nanomaterials – MDPI, Chalcogenide Letters, Journal of Optoelectronics and Advanced Materials

Publications: 624 ISI papers with 5448 independent citations, average citations per item 10.96 and a H-index of 36, being the most cited researcher from INFLPR, 42 books and monographs;

<https://scholar.google.ro/citations?user=NcAopnsAAAAJ&hl=en>,

PROF. DR. ION N. MIHAILESCU