



Tudor Braniste

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📍 **Work:** Stefan cel Mare ave. 168 Technical University of Moldova. National Center for Materials Study and Testing, bl. 3, bir. 326, 2004 Chisinau (Moldova)

ABOUT ME

I am a researcher working on the development of technologies for production and characterization of the micro- and nano-architectures based on wide-bandgap semiconductor materials like GaN, ZnS, TiO₂. I have the PhD in micro-nano-electronics and optoelectronics since 2017. My thesis was at the intersection of nanotechnologies with biomedical engineering, and it was done in close collaboration with Hannover Medical School in Germany, where I spent extended periods of time under different programs funded by DAAD, EC, or Moldovan Government. Since 2019 I joined the management team of the Academy of Sciences of Moldova (ASM), where currently I am coordinating the Department of Academic Management and International Cooperation. My team is responsible for the organization of scientific events of national and international relevance, as public reports of scientific projects realized under the national calls, public lectures, and conferences for specific audience and for the whole society. Analysis of the state of science at national level is another major duty of the department as well as the international collaboration of ASM with other academies. In 2022 together with other young colleagues we initiated the creation of the Moldova Young Academy.

WORK EXPERIENCE

Head of Department of Academic Management and International Cooperation

Academy of Sciences of Moldova [21/12/2019 – Current]

Address: Stefan cel Mare ave. 1 of. 320, 2001 Chisinau (Moldova)

- Organization of scientific events of national and international relevance, as public reports of scientific projects realized under the national calls, public lectures, and conferences for specific audience and for the whole society;
- Analysis of the state of science at national level;
- Promotion of international collaboration of ASM with other academies.

Researcher

Technical University of Moldova, National Center for Materials Study and Testing [

01/01/2017 – Current]

Address: Stefan cel Mare ave. 168 Bl. 3, of. 320, 2004 Chisinau (Moldova)

- materials nanostructuring and characterization
- 2D and 3D Gallium Nitride (GaN) nano-structuring
- investigations of living cells interactions with semiconductor nanoparticles;

University research assistant

Technical University of Moldova, National Center for Materials Study and Testing [01/02/2009 – 31/12/2016]

City: Chisinau

Country: Moldova

- Nano-micro-electronics and optoelectronics;
- Photoelectrochemical processing of wide band gap semiconductors;
- Electrical and optical characterization of nanostructured materials at low temperatures.

EDUCATION AND TRAINING

PhD

Technical University of Moldova [01/11/2013 – 31/10/2016]

City: Chisinau

Country: Moldova

Website: www.utm.md

Field(s) of study: Nano-microelectronics and optoelectronics

Thesis: Two- and three-dimensional nanoarchitectures based on GaN for engineering applications

Link: http://www.cnaa.md/files/theses/2017/51785/fiodod_braniste_thesis.pdf

Master of Science in Engineering

Technical University of Moldova [01/09/2011 – 31/01/2013]

City: Chisinau

Country: Moldova

Website: www.utm.md

Field(s) of study: Microelectronics and Nanotechnologies

Final grade: 9.69 out of 10

Main subjects: VLSI, ULSI Technologies; Smart sensors and microsystems; Advanced signal and image processing; Embedded electronic systems; Nanoelectronics; Nanotechnologies and Nanomaterials.

Bachelor of Science in Electronics and Communications

Technical University of Moldova [01/09/2007 – 30/06/2011]

Field(s) of study: Electronics and Communications

Main subjects: Electronics; Solid State Physics; Optoelectronics; Signal processing; Programming; Microelectronics Technology; Biomedical Instrumentation

TRAININGS

AAAS-TWAS Course on Science Diplomacy

[19/06/2023 – 23/06/2023]

Training and Capacity Building for Enlargement and Integration Countries Open access to JTC Research Infrastructure

[16/11/2020 – 20/11/2020]

Write here the description...

Post-doctoral visiting researcher at Leibniz Research Laboratories for Biotechnology and Artificial Organs, Hannover Medical School, Germany

[01/06/2019 – 31/08/2019]

Nano-bio-technology and cells culture research.

Visiting PhD student at Leibniz Research Laboratories for Biotechnology and Artificial Organs, Hannover Medical School, Germany

[01/08/2014 – 31/03/2016]

Short research visits for the realization of the individual project: „Investigation of living cells interaction with GaN based nanoparticles” obtained in the framework of the scholarship won from the **German Academic Exchange Service (DAAD)** for short research stages (sandwich model) at Leibniz Research Laboratories for Biotechnology and Artificial Organs, **Hannover Medical School**, Germany.

Investigations related to the optical properties of multilayer porous GaN (GaN growth, PL and reflectance characterization) at the Advanced Semiconductors for Photonics and Electronics Lab, École Polytechnique Fédérale de Lausanne, Switzerland.

[26/02/2017 – 11/03/2017]

Gallium nitride processing technology training at the Department of High Frequency Electronics, Technical University Darmstadt, Germany.

[01/07/2010 – 31/08/2010]

LANGUAGE SKILLS

Mother tongue(s): **Romanian**

Other language(s):

English

LISTENING C1 READING C1 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION C1

Russian

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B2

French

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

German

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

HONOURS AND AWARDS

National Scholarship Program winner

The World Federation of Scientists [01/07/2014]

Excellence Scholarship for the best PhD students of Moldova for the year 2015

Government of the Republic of Moldova [01/01/2015]

NETWORKS AND MEMBERSHIPS

SPIE member

[05/09/2015 – Current]

Link: [https://spie.org/profile/Tudor-\(Fiodor\).Braniste-248913?SSO=1](https://spie.org/profile/Tudor-(Fiodor).Braniste-248913?SSO=1)

Member of the Moldova Biomedical Engineering Society

[Chisinau, 01/01/2023 – Current]

Founding member of Moldova Young Academy

[Chisinau, 21/03/2022 – Current]

DIGITAL SKILLS

Microsoft Office / Adobe Photoshop and premiere / Autodesk AutoCAD (2006/2017)

ORGANISATIONAL SKILLS

Summer School „The path to scientific discoveries”

On June 13-15, 2023, “[The Path to Scientific Discoveries](https://asm.md/en/summer-school-path-scientific-discoveries)” Summer School was organized at the Academy of Sciences of Moldova. The event attracted pupils and students passionate about science and technology and was organized within the [European Researchers' Night 2022-2023 project](#), which aims to promote the scientific research and demonstrate the impact of science and innovation on everyday life and social well-being.

Link: <https://asm.md/en/summer-school-path-scientific-discoveries>

PROJECTS

The elaboration of surfaces with controlled degree of hydrophobicity determined by nano-microstructuring

[01/01/2019 – 31/12/2019]

Leader of a team of 6 young researchers in the framework of a national project funded by the National Agency for Research and Development of the Republic of Moldova.

Obtaining and characterization of ultrathin GaN membranes for sensor applications

[01/07/2014 – 30/06/2015]

Individual project in the framework of the **National Scholarship Programme** awarded by **The World Federation of Scientists** for the realization of the project: “Obtaining and characterization of ultrathin GaN membranes for sensor applications”. **Received funding: 1800 Swiss Francs**

PUBLICATIONS

[Publication list](#)

DRIVING LICENCE

Driving Licence: B