



## Newsletter | August 2024

### Editor's Note

Welcome to the August 2024 issue of the Nanotechnology Council newsletter. This issue brings you the latest updates and activities in the IEEE-NTC community. We hope you enjoy it and do let us know if there is any topic you'd like to see covered in the future. All future content submissions to the newsletter should be sent to the editors: Yijun Cui and Ke Chen.



**Yijun Cui**  
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**Ke Chen**  
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Nanjing, China

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## BREAKING NEWS

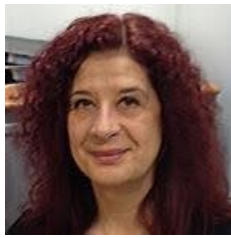
### IEEE Nanotechnology Council 2024 Election Results

The IEEE Nanotechnology Council (NTC) elected new officers at its Annual Administrative Committee Meeting held in Gijon, Spain, on 8 July 2024.

Representatives of the twenty-two IEEE Societies who are Council members gather annually to conduct Council business and elect officers. The positions up for election were: President-elect (2025), VP-elect for Educational Activities, **VP-elect for Publications** and **VP-elect for Technical Activities** (3 years, elect 2025; VP 2026-2027), and **Member-at-Large (MAL)** (up to 3) (2025-2026).

**Kremena Makasheva**, French National Center for Scientific Research (CNRS), Laboratory on Plasma and Conversion of Energy (LAPLACE), Toulouse, France was elected President-elect 2025, **Georgios Sirakoulis**, Democritus University of Thrace (DUTH), Greece was elected VP-elect for Educational Activities, **Xiaoning Jiang**, University of North Carolina, **Chapel Hill** was elected VP-elect for Publications and **Jie Han**, University of Alberta, Canada, was elected VP-elect for Technical Activities.

Rafal Sliz, University of Oulu Finland, Shanshan Liu, University of Electronic Science and Technology of China, Chengdu, China and Antonio di Bartolomeo, University of Salerno, Italy were elected as Members-at-Large (MAL) for 2025-26.



**President-elect** (2025; President 2026-2027)

**Kremena Makasheva**, is Senior Researcher at the French National Center for Scientific Research (CNRS), Laboratory on Plasma and Conversion of Energy (LAPLACE), Toulouse, France. Dr. Makasheva earned a Ph.D. degree on Plasma Physics from Sofia University, Bulgaria, 2002, for her work on Surface Wave Sustained Discharges. After a 4 year stay in the Groupe de physique des plasmas at Université de Montréal, Québec, Canada she moved in 2007 to Toulouse, France to work in LAPLACE.

Since 2009 she works on plasma deposition of nanostructures. Multifunctionality of silver nanoparticles (AgNPs) is in the heart of her research. In 2015 she and her colleagues proposed AgNPs-based blocking nanocomposite layer to control charge injection and transport in thin dielectrics. Her research activities are directed to study of reactive plasmas, design and study of plasma deposited nanostructured dielectric materials containing AgNPs for biomedical, optical, electrical engineering and space applications. She is the author and co-author of over 120 publications in international journals and conferences.

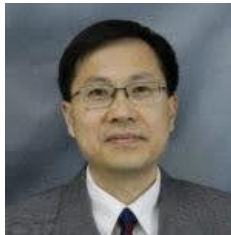
Her principal Nanotechnology Council activities include: Vice-President for Conferences (2023-2024), General Co-Chair of IEEE NANO 2024 and IEEE NANO 2025, Vice-President for Technical Activities (2020-2021), Program Chair of IEEE NANO 2020, General Co-Chair of IEEE NMDC 2016 and IEEE NMDC 2021. She is the founding Chair of the NTC Mentoring program: from Effectiveness to Durability (MENE 2022-2024).



**VP-elect for Educational Activities** (3 years, elect 2025; VP 2026-2027)

**Georgios Ch. Sirakoulis** is the Head (from 2020 till now) of Electrical and Computer Engineering Department of DUTH (Democritus University of Thrace) in Greece, Visiting Researcher/Professor in University of West England from 2014 and co-founder and research associate of Ulysses Ltd., Kavala, Greece (1999-2002). Georgios (Google Scholar - h-index: 36, i-index: 122) has published more than 150 journal papers, more than 170 in international conference papers, 15 guest-editorials, 8 international books and 37 books chapters.

He has participated as leader and principal investigator in more than 31 scientific programs and projects funded from the Greek Government, Industry, Third Parties and Countries and EU. He was and he is supervisor of 15 Ph.D. theses, 29 M.Sc. theses and 92 M.Eng. Theses. Three of his students have been awarded and one with best IEEE Greek Chapter Diploma Award. He has been involved in more than 142 Conferences (as PC member, Chair, etc.) and delivered 30 invited talks. See <http://gsirak.ee.duth.gr>.



**VP-elect for Publications** (3 years, elect 2025; VP 2026-2027)

**Xiaoning Jiang** is a Dean F. Duncan Distinguished Professor of Mechanical and Aerospace Engineering and a University Faculty Scholar at North Carolina State University. He is also an Adjunct Professor of Biomedical Engineering at North Carolina State University and the University of North Carolina, Chapel Hill, and an Adjunct Professor of Neurology at Duke University.

Dr. Jiang received his BS, MS and Ph.D. degrees from Shanghai Jiaotong University (1990), Tianjin University (1992) and Tsinghua University (1997), respectively. He received his Postdoctoral training from the Nanyang Technological University (1996-1997) and the Pennsylvania State University (1997-2001). He was the Chief Scientist and Vice President at TRS Technologies, Inc. prior to joining NC State in 2009. Dr. Jiang is the author and co-author of two books, 6 book chapters, 14 issued/published US Patents, 140 peer reviewed journal papers and over 120 conference papers. on M/NEMS, piezoelectric ultrasound transducers, ultrasound for medical imaging and therapy, drug delivery, nanoacoustics, ultrasound NDT/NDE, smart materials and structures. Dr. Jiang is a member of the technical program committee for a few international conferences including IEEE Ultrasonics Symposium (TPC-5), SPIE Smart Structures and NDE, ASME IMECE, IEEE NANO and IEEE NMDC. He is currently the NanoAcoustics Technical Committee Chair and Co-Editor-in-Chief of IEEE Nanotechnology Magazine (2020 and 2021). Dr. Jiang is a Fellow of ASME and SPIE.



**VP-elect for Technical Activities** (3 years, elect 2025; VP 2026-2027)

**Dr. Jie Han** received the B.Sc. degree in electronic engineering from Tsinghua University, Beijing, China, in 1999 and the Ph.D. degree from the Delft University of Technology, The Netherlands, in 2004. He is currently a Professor in the Department of Electrical and Computer Engineering at the University of Alberta, Canada.

His research interests include nanoelectronic circuits and systems, approximate and stochastic computing, reliability and fault tolerance, novel computational models for nanoscale and biological applications. Dr. Han was a recipient of the Best Paper Award at the IEEE/ACM International Symposium on Nanoscale Architectures (NANOARCH 2015) and four Best Paper Nominations at international conferences including the Design, Automation and Test in Europe Conference (DATE 2022). He was nominated for the 2006 Christiaan Huygens Prize of Science by the Royal Dutch Academy of Science. His work was recognized by the 125th anniversary issue of Science, for developing a theory of fault-tolerant nanocircuits (2005).

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**Members-at-Large** (2025-2026)

**Antonio di Bartolomeo** is a professor of Experimental Condensed Matter Physics and the president of the Physics Education Committee at the University of Salerno, Italy, where he teaches semiconductor device physics and nanoelectronics. His present research interests include optical and electrical properties of nanostructured materials such as carbon nanotubes, graphene, and 2D materials; van der Waals heterostructures, Schottky junctions, field-effect transistors, nonvolatile memories, solar cells, photodetectors, field emission devices, supercapacitors, and fuel cells.

He received the Ph.D. in Physics from the University of Salerno in 1997, and spent several years in the industry as a semiconductor device engineer (ST Microelectronics, Infineon Technologies, and Intel Corporation). He has authored over 150 publications, two physics textbooks, and two patents. He is serving as the editor-in-chief of IOP Nano Express, the deputy editor-in-chief of IET Micro & Nano Letters, the section editor-in-chief of MDPI Nanomaterials and is an Editorial Board member of several journals.



**Shanshan Liu**, is a professor with the School of Information and Communication Engineering at the University of Electronic Science and Technology of China, Chengdu, China. She received the Ph.D. degree in Microelectronics and Solid-State Electronics from Harbin Institute of Technology, Harbin, China, in 2018. She was a post-doctoral researcher with the Department of Electrical and Computer Engineering (ECE), Northeastern University, Boston, USA, from 2018 to 2021, and an assistant professor with the Klipsch School of ECE, New Mexico State University, Las Cruces, from 2021 to 2023 (where she was the Co-PI for SCALE: Radiation-Hardening, supported by DoD).

She teaches VLSI design and SoC design. Her research interests include fault-tolerance design in nanocomputing systems, emerging computing, nanoscale VLSI design, and dependable machine learning. Among these topics she has more than 80 publications in peer-reviewed periodicals such as IEEE TCAS-I, TC, TETC, TNANO, INM, and conference proceedings such as ISSCC and VLSI.



**Rafal Sliz** is a tenured Assistant Professor at the Optoelectronics and Measurement Techniques Unit (OPEM) of the University of Oulu, Finland, with his promotion to Associate Professor expected by the end of 2024. His research expertise lies in nanotechnology, focusing on printed electronics and sustainable energy storage systems. Rafal earned his B.Sc. in Electronics from the Silesian University of Technology, Poland. He pursued his M.Sc. and Ph.D. at the University of Oulu, where he conducted pioneering research in wireless sensor networks and printed electronics at the OPEM.

Throughout his academic career, Rafal has received numerous grants and awards, enabling him to conduct research visits abroad, including the Flexible Display Center at Arizona State University (USA), the London Centre for Nanotechnology at UCL (UK), and a postdoctoral fellowship at the Sargent Group, University of Toronto (Canada). Rafal has been appointed as a visiting professor at ASU (USA), commencing in October 2024.

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### **CFP: *IEEE Journal on Exploratory Solid-State Computational Devices and Circuits (JxCDC)***

A call for papers is open for the *IEEE Journal on Exploratory Solid-State Computational Devices and Circuits* special topic on "Energy-Efficient In-/Near-Memory Computing with Emerging Devices."

#### **Topics of Interest include but are not limited to:**

Prospective authors are invited to submit original works and/or extended works based on conference presentations on various aspects of compute-in-memory. Memory technologies of interest include (but not limited to) SRAM, DRAM, eDRAM, NOR/NAND Flash, and emerging NVM devices such as PCM, RRAM/CBRAM, STT-MRAM/SOT-MRAM (or other spintronic memories), FeFET (or other ferroelectric memories), etc. The following topics are specifically solicited:

- New materials and devices that can enable energy-efficient IMC/NMC
- Integration of emerging technologies with silicon for energy-efficient IMC/NMC
- Crossbar array design and array-level demonstration for energy-efficient IMC/NMC
- Peripheral circuit design for energy-efficient IMC/NMC
- Architectural-level design for energy-efficient IMC/NMC
- Algorithms and hardware co-design for energy-efficient IMC/NMC
- Benchmarking simulators for energy-efficient IMC/NMC
- New applications for energy-efficient IMC/NMC beyond AI workloads (e.g. combinatorial optimization, general purpose computing, etc.)

#### **Important Dates**

Submission Deadline: 1 September 2024

First Notification: 1 October 2024

Revision Submission: 15 October 2024

Final Decision: 1 November 2024

Publication Online: 15 November 2024

#### **Guest Editor**

Jae-sun Seo, Cornell Tech, js3528@cornell.edu

Editor-in-Chief

Azad Naeemi, Georgia Institute of Technology, azad@gatech.edu

For more information, please check the IEEE NTC [website](#).

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## CFP: *IEEE Open Journal of Nanotechnology (OJ-NANO)*

### Special Issue on "In Tribute to Professor Brajesh Kumar Kaushik"

*IEEE Open Journal of Nanotechnology (OJ-NANO)*, a gold fully open access journal launched in 2020 by the IEEE Nanotechnology Council, publishes research advancing the theory, design and development of nanotechnology and its scientific, engineering and industrial applications. The journal has an independent editorial board, an established peer-review process, is targeting a ten-week rapid publishing schedule and is fully compliant with funder mandates, including Plan S. Your work will be exposed to 5 million unique monthly users of the **IEEE Xplore® Digital Library**. *IEEE OJ-NANO* received its first **Journal Impact of 1.8** and is now indexed in the **Science Citation Index Expanded (SCIE)™** by Clarivate Analytics as well as in Scopus®! This development indicates increased visibility and profile for both the journal and its published articles, demonstrating *IEEE OJ-NANO* is a reliable and high-quality source of information in the field of nanotechnology.

*IEEE OJ-NANO* will devote a special issue to the memory of Prof. Brajesh Kumar Kaushik who passed away on 31 July 2024. Prof. Kaushik was the coordinator of the IEEE Nanotechnology Council chapters in India, a member of the Administrative Committee of the Council, and a guest editor of special issues on spintronics and neuromorphic computing in the *IEEE Transactions on Nanotechnology* and *IEEE Transactions on Electron Devices*. He was a member of the Technical Committee on Spintronics, and a Founding Member of the Technical Committee on Quantum, Neuromorphic and Unconventional Computing. He was an exemplary mentor to many students who are now active researchers in nanotechnology. His enthusiasm and compassion touched many in the nanotechnology community.

NOTE: *IEEE OJ-NANO* will **waive the APC** (Article Publishing Charge) for papers invited and accepted for publication in this special issue!

Areas of interest include but are not limited to:

- Spintronics
- Skyrmionics
- Nano-sensors
- Nano-packaging
- Unconventional computing
- Neuromorphic computing

Submissions from present and past students of Prof. Kaushik and his collaborators are especially solicited.

#### Deadlines:

- **Manuscript Submission:** 1 November 2024
- **Anticipated Publication:** 15 April 2025

#### Guest Editors:

Supriyo Bandyopadhyay, Commonwealth Professor. Virginia Commonwealth University  
Email: sbandy@vcu.edu

Pramey Upadhyay, Assistant Professor, Purdue University  
Email: prameyup@purdue.edu

Giovanni Finocchio. Professor, University of Messina  
Email: giovanni.finocchio@unime.it

For more information, Please check the [IEEE NTC website](#).

## AWARDS

### 2024 Nanotechnology Council Awards Ceremony

The IEEE Nanotechnology Council announces its 2024 Award Winners. Awards were presented at its 24th IEEE International Conference on Nanotechnology (NANO 2024) held in Gijon, Spain on 9-11 July 2024.

The Chapter of the Year, TNANO Best Paper, INM Best Paper, Technical Committee, and Technical Achievement awards were featured.



#### CHAPTER OF THE YEAR AWARD

The IEEE Nanotechnology Council (NTC) Chapter of the Year Award is intended to encourage a successful and effective overall performance of the Chapter in terms of its activities.

The winner of the 2024 Chapter of the Year is the IIT Indore (Indian Institute of Technology-Indore) IEEE NTC Student Branch Chapter, Bombay Section.

Chair: Mayank Dubey

"For exceptional dedication to advancing nanotechnology, fostering innovation, and promoting collaboration for the betterment of society."

### T-NANO BEST PAPER AWARD

At the beginning of each year, T-NANO selects a paper that appeared in the Transactions during the previous calendar year for its Best Paper Award. Candidate papers are nominated by members of the Editorial Board. Evaluation is done by members of the Senior Editors Panel, with criteria including technical merit, originality, potential impact on the field, clarity of presentation, and practical significance for applications.

### T-NANO 2023 Best Paper Award Recipients

"[High Sensitive Metasurface Absorber for Refractive Index Sensing](#)" in IEEE Transactions on Nanotechnology, Publication Year 2023, Volume: 22, pp. 328 – 335.

doi: 10.1109/TNANO.2023.3290953

Authors: Rajan Agrahari, Satyamitra Dwivedi, Pradip Kumar Jain and Manpuran Mahto, Department of Electronics and Communication Engineering, National Institute of Technology Patna, Patna, Bihar, India

### INM BEST PAPER AWARD

This award recognizes on a yearly basis a highly influential and impactful article of the highest quality published in the IEEE Nanotechnology Magazine (INM) in the preceding 2 calendar years. Any current member of the editorial board or past member within the last 3 years can submit a nomination for this award. Self-nominations are not allowed.

### NTC Magazine 2023 Best Paper Award Recipients

"[Memristor-Based Binarized Spiking Neural Networks: Challenges and applications](#)", in IEEE Nanotechnology Magazine, vol. 16, no. 2, pp. 14-23, April 2022.

doi: 10.1109/MNANO.2022.3141443

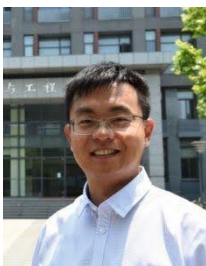
Authors: Jason K. Eshraghian; Xinxin Wang; Wei D. Lu, Department of Electrical Engineering and Computer Science, University of Michigan, Ann Arbor.



### TECHNICAL COMMITTEE AWARD

Each year the Council will provide an award for the best Technical Committee (TC) for the prior year.

The winner of the 2023 Technical Committee Award is TC-10 (Modeling and Simulation)  
Chair: Roza Kotlyar



### TECHNICAL ACHIEVEMENT AWARD

This award recognizes on a yearly basis, individuals with outstanding and innovative contributions to the different areas of nanotechnology that are represented by technical committees (TCs) as organizational entities of the Nanotechnology Council (NTC), usually within the past 10 and not more than 15 years.

The winner of the 2024 Technical Achievement Award is Xinran Wang, School of Electronic Science and Engineering, Nanjing University, China.

"*For contributions to the growth of 2D semiconductors and their electronic device applications.*"

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## Call for Award Nominations 2024

The IEEE Nanotechnology Council (NTC) gives several awards yearly. Six are for individuals, two for the best papers published in the *Transactions on Nanotechnology (T-NANO)* and the IEEE Nanotechnology Magazine (INM), one is for the best Chapter, and one for the best Technical Committee.

Nomination for Awards Evaluated by the NTC Awards Committee ([nominations due 1 October](#))

- A. [Individual Awards information](#)
- B. [Chapter Award information](#)
- C. [Contact NTC Awards Chair](#) for information

Nomination for Awards Evaluated by NTC Specific Award Committees ([nominations due 1 March](#))

- D. [Best PhD Thesis Award information](#)
- E. [Publication Awards information](#)
- F. [Technical Awards information](#)

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## Award Nominations Due 1 October 2024

The Nanotechnology Council (NTC) is pleased to offer these awards

- **Pioneer Award**
- **Early Career Award**
- **Distinguished Service Award**
- **Chapter of the Year Award**

The IEEE Nanotechnology Council (NTC) is soliciting nominations for its Individual and Chapter Awards. To view the full detailed listing of each award please visit the [Awards nominations page](#). Awards are presented at the IEEE-NANO conference.

Nominations are due on **1 October 2024**. Nominators should utilize the forms associated with each award description found on the [website](#). Please make sure that nominators and references specifically address contributions, impact, and evidence related to the Basis for Judgment associated with each award.

For further information, please see the [Awards page](#) or contact the Awards Committee Chair, Prof. Wen J. Li.

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## Awards Nominations Due 1 March 2025

The Nanotechnology Council (NTC) is pleased to offer these **new awards** (starting in 2023):

- [Best PhD Thesis Award in Nanotechnology](#) (publication)
- [Test of Time Publication Award](#) (e.g. over 10-25 years) (publication)
- [Technical Achievement Award\(s\)](#) (Technical Committees)
- [Nanotechnology Magazine Best-Paper Award](#) (publication)
- [Best Paper Award for the IEEE Transactions on Nanotechnology](#) (publication)

The IEEE Nanotechnology Council (NTC) is soliciting nominations for these awards. See the [awards page](#) for more information on all the NTC's awards. To view the full detailed listing of each award please visit the [awards nominations page](#). Awards are presented at the IEEE-NANO conference.

## EDUCATIONAL ACTIVITIES

### Call for Nominations for 2025 Distinguished Lecturers

**2025 DL Nominations – Deadline: 1 October 2024**  
[More Information](#)

The IEEE Nanotechnology Council (NTC) is seeking nominations for distinguished lecturers. The nomination deadline is **1 October 2024**. The NTC has created a distinguished lecturers program to enhance the visibility of NTC among nanotechnology societies. The NTC Distinguished Lecturers are appointed to honor excellent speakers who have made technical, industrial or entrepreneurial contributions of high quality to the field of nanotechnology and science, and to enhance the technical activities of the Nanotechnology Council chapters and student branches. Consideration is given to having a well-balanced variety of speakers who can address a wide range of topics of current interest in the fields covered by the Society.

The term for the Lecturers is from **1 January until 31 December of 2025**. The Lecturers serve for a one-year term and may be reappointed for one additional year with the approval of the NTC Distinguished Lecturer Committee. A budget will be provided to each Lecturer to give lectures for NTC Chapters and Branches based on the availability of funding through the NTC. DLs are expected to give a minimum of **2 lectures per year** as part of their commitment to serve.

Candidates for DLs may be nominated by any current IEEE member, using the IEEE NTC [Distinguished Lecturer Nomination Form](#). *Self-nomination is not accepted*. Endorsements are not required but up to three are recommended.

The selection of distinguished lectures will be made by the Distinguished Lecturer Committee, a subcommittee of the Education Committee chaired by the VP Educational Activities, and approved by the NTC ExCom.

Please submit the nomination by midnight (US Pacific Time) on **1 October 2024**, via email to the VP Educational Activities, [Luca Pierantoni](#), or online using the form found on the [website](#).

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## NTC WIN



## Join the NTC WIN Team as a Regional Coordinator

Are you passionate about advancing women in nanotechnology? Join the [Women in Nanotechnology \(WIN\)](#) at IEEE NTC as a Regional Coordinator!

**Why join us?** To enhance your skills and gain experience, connect with professionals, researchers, and students, and promote opportunities for women in nanotechnology.

**Your responsibilities:** To help us to organise regional events, collaborate with local IEEE sections promote WIN initiatives and support professional development

Ready to make a difference? Apply now by filling out the form [here](#). Together, we can empower women in nanotechnology!

Noushin Nasiri, IEEE NTC WIN Chair

## YOUNG PROFESSIONALS

### IEEE Nanotechnology Council and IEEE Sensors Council YPs Region 8 Webinar

Join us for the next exciting webinar in our series, hosted by the IEEE NANOTECHNOLOGY COUNCIL & IEEE SENSORS COUNCIL Young Professionals Region 8

**Date & Time:** 30 August 2024, 14:00 CET (UTC+2)

**Speaker:** Jacek Ryl, [Gdańsk University of Technology](#), Poland

**Topic:** Multiparametric Impedance Discriminant Analysis – A New, Effective Tool to Study Macromolecular Fingerprints

Don't miss this opportunity to learn from a leading expert in the field!

#### Register Now!

**Abstract:** The following talk will be dedicated to introducing the development in a novel approach to modus operandi of electrochemical biosensors. By implementing a real-time impedimetric monitoring under various electric field and combined with statistical data analysis tools we obtain full impedance characteristics constituting an explicit fingerprint of the macromolecular interactions [1,2]. This measurement methodology, multiparametric impedance discriminant analysis (MIDA), processes large amounts of generated impedimetric data and brings information on most effective measurement conditions (DC polarization, AC amplitude, frequency range, etc.). The proposed approach neglects some of affinity biosensors reproducibility issues, typically induced by non-specific adsorption and fouling.

[1] Brodowski et al., *Sens. Actuators B. Chem.*, 2022, 370, 132427. 10.1016/j.snb.2022.132427

[2] Koterwa et al., *Biosens. Bioelectron.*, 2023, 238, 115561. 10.1016/j.bios.2023.115561

**Bio:** Jacek Ryl obtained his Ph.D. and D.Sc. in chemical technology in 2010 and 2018, respectively. From 2021, he works at the Institute of Nanotechnology and Materials Engineering, Faculty of Applied Physics and Mathematics, at Gdańsk University of Technology. He is the head of the Division of Electrochemistry and Surface Physicochemistry. In his scientific work, he focuses on topics related to electrochemical sensors, corrosion and degradation of functional materials, description of non-stationary electrode processes and surface physicochemistry. Currently, he conducts research related to the use of nanomaterials and additive technologies in molecular diagnostics. He was the PI of scientific projects (NCN Sonata, Sonata Bis, Opus, Iuventus+, KBN). He is a multiple winner of GUT Rector's Awards for scientific achievements and awards for young scientists. He received a scholarship from the Ministry of Science and Higher Education (2017) and a scientific award from the 4th Division of Technical Sciences of the Polish Academy of Sciences (2019). He is the author or co-author of over 50 expert opinions and analyzes for industrial partners and numerous publications in renowned scientific journals. He is the member of the editorial boards editor for *Green Biomaterials*, *Molecules* and *Frontiers in Chemistry*. He is the author of over 200 JCR publications (H index = 34).

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## NEW PROGRAM - Call for NTC YP Ambassadors

The IEEE Nanotechnology Council (NTC) Young Professionals (YPs) and the Vice-President for Educational Activities, supported by the ExCom, have established a **new program** called **NTC YP AMBASSADORS**. This program has the objective of inspiring and informing NTC YPs on a variety of topics (e.g., technical, nontechnical) to enhance their interest and engagement in the field of nanoscience and nanotechnology.

The NTC YPs ambassadors will deliver talks at various Chapters/Sections **"on-demand"** and in a **virtual modality**.

### Eligibility & Applications:

The call for nominations is starting from September 1st with a deadline for the 21 December 2024.

The candidate must:

- be an IEEE member,
- NTC participant,
- belong to the IEEE YP;
- have about 5 years or more experience reflecting professional maturity (e.g, university, professional, volunteering, etc.).

The ambassadors are selected for a **term of one year**. The appointment starts from **1 January 2025**. All new ambassadors are **required to give at least two talks during their tenure of one year**.

For the application the following details are needed:

- i) a resume or CV (two pg. max.);
- ii) the title(s) of the maximum 2 talks;
- iii) a brief writeup on the benefits of the talk proposed to the NTC YPs community;
- iv) link to a 5-min short video sample of any proposed talk.

The applications must be sent to [matteobrunolodi@ieee.org](mailto:matteobrunolodi@ieee.org).

### Evaluation:

A dedicated and specific Subcommittee will manage the nomination and selection process of the NTC YPs AMBASSADORS and provide the results that will be announced both on the [NTC website](#) and on the [TryNano webpage](#).

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## NTC Young Professionals Update

Five Regional NTC YP LinkedIn pages have been established and are timely updated. The regional coordinators established cooperation with the regional NTC conference organizers in order to support and ensure presence of young professionals.

NTC YP LinkedIn:

- [Region 7 \(Canada\)](#)
- [Region 9 \(Latin America\)](#)
- [NTC YP India](#)
- [Region 8 \(Africa, Europe, Middle East\)](#)
- [Region 10 \(Asia and Pacific\)](#)



CONFERENCES

## NMDC 2024 – Call for Papers



**19h IEEE Nanotechnology Materials and Devices Conference (IEEE NMDC 2024)  
22-25 October 2024, Salt Lake City, Utah, United States**  
<https://ieeenmdc.org/nmdc-2024>  
Conference venue: Radisson Salt Lake City Downtown

IEEE NMDC is a flagship conference series of the IEEE Nanotechnology Council (NTC), focusing on research advances in the fields of nanoscience and nanotechnology.

### Key Dates:

Notification of Acceptance: 1 September 2024

Final Paper Submission: 1 October 2024

Accepted and presented full papers (4 to 6 pages) for IEEE NMDC 2024 will be included in [IEEE Xplore](#) as well as other Abstracting & Indexing (A&I) databases.

We are proud to announce that the 19h IEEE Nanotechnology Materials and Devices Conference (NMDC) will be held in lovely Salt Lake City, Utah, USA 22 to 25 October 2024. IEEE NMDC 2024 will be the perfect stage to promote research from all across the world.

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## IEEE NAP-2024: Call for Papers



<https://ieeenap.org/>  
Download CFP

The 2024 IEEE 14th International Conference "Nanomaterials: Applications & Properties" is devoted to the most interesting aspects of modern Materials Science with a prime focus on nanoscale materials. The IEEE NAP-2024 Conference is organized through a partnership between the IEEE Nanotechnology Council and the University of Latvia, and technical support from the Latvian Academy of Sciences, the Institute of Electronics and Computer Sciences and Sumy State University, with endorsements and support from the IEEE Magnetism Society.

## PUBLICATIONS

### **IEEE Transactions on Nanotechnology**

View the [full current issue of IEEE T-NANO](#).

For additional information, visit the [IEEE Xplore website](#).

To find how to submit to T-NANO, [click here](#).

T-NANO, VOLUME 23



## **IEEE Open Journal of Nanotechnology**

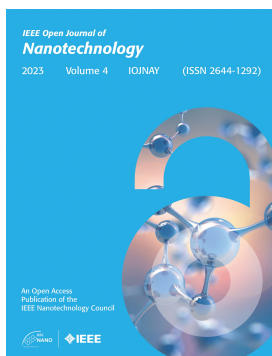
View the [full current issue of IEEE OJ-NANO](#).

For additional information, visit the [IEEE Xplore website](#).

To find how to submit to OJ-NANO, [click here](#).

The *IEEE Open Journal of Nanotechnology* (OJ-NANO) is dedicated to publishing articles on timely topics in the field of nanotechnology by making them available immediately, freely, and permanently available to all. All articles published in OJ-NANO are exposed to 5 million unique monthly users of the IEEE Xplore® Digital Library. Among numerous articles published so far, we've selected a few review articles to highlight [here](#).

### **OJ-NANO, VOLUME 5**



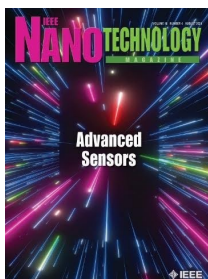
## **IEEE Nanotechnology Magazine**

View the [full current issue of IEEE INM](#).

For additional information, visit the [IEEE Xplore website](#).

For information on submitting to INM, [click here](#).

### **INM, VOLUME 18, NO. 4**

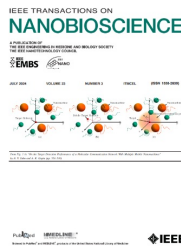


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