



Newsletter | October 2022

Editor's Note

Welcome to the October 2022 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 new editors: [Yijun Cui](#) and [Ke Chen](#).



Yijun Cui

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BREAKING NEWS

NTC Past-President Elected to Royal Academy of Engineering

Prof. Chennupati Jagadish of the Australian National University, former IEEE Nanotechnology Council President (2008, 2009) and 2015 Pioneer Award recipient has been elected as a 2022 International Fellow of UK's Royal Academy of Engineering.

The Royal Academy of Engineering brings together the knowledge and experience of some of the best and brightest engineers, inventors and technologists in the UK and from around the world to promote excellence in engineering and to enhance and support engineering research, policy formation, education and entrepreneurship.

Each year, up to 60 Fellows are typically elected to the Fellowship as well as up to 10 International and five Honorary Fellows, in recognition of their outstanding and continuing contributions to the profession. They are distinguished by the postnominals FEng and HonFEng respectively, and join a community of almost 1,700 eminent engineers on a mission to use the power of engineering to build a sustainable society and create an inclusive economy that works for everyone. New Fellows are nominated and elected by existing Fellows. See <https://raeng.org.uk/new-fellows-2022>.

OJ-NANO APC Waiver extended to November 2022

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*. Also, OJ-NANO is indexed in the *Emerging Sources Citation Index (ESCI)™* by Clarivate Analytics, as well as is accepted for inclusion in *Scopus®*, meaning that articles will be discoverable in *Web of Science™* and *Elsevier's abstract & citation database*. It is expected to receive its first **Impact Factor** in 2023!

Special Issues: We are dedicated to continuing to deliver high-quality articles with several special topics including, "**Emerging Plasma Nanotechnologies**," "**Materials & Devices towards Advanced Flexible Sensors**," and "**Nanopackaging II**."

Full APC Waivers: We are pleased to inform you that IEEE OJ-NANO will **waive the APC** (Article Publishing Charge) for submissions, which are **accepted for publication before 30 November 2022** after peer review!

Call For Papers: TNANO Special Section

CALL FOR PAPERS: SPECIAL ISSUE/SECTION

The *IEEE Transactions on Nanotechnology* (TNANO) seeks original manuscripts for a Special Section on:
ADVANCED SPINTRONIC DEVICES: CONCEPTS, MATERIALS AND TECHNOLOGY - ASD 2023

Relevant topics of interest to this special section include (but are not limited to):

- Novel concepts, materials, design and integration for spintronic devices
- Magnetic devices and concepts for Boolean or neuromorphic computing
- Magnetic devices and concepts for RF applications
- Novel magnetic memories and sensors
- Magnetic devices for brain inspired circuits
- Architecture for logic in spintronic memories
- Spintronic devices for bio applications

Important dates

- **Submission deadline: 31 January 2023**
- First decision (accept/reject/revise): 15 April 2023
- Revised papers submission: 15 May 2023
- Final decision: 30 May 2023

Submission Guideline

<https://tnano.org/author-info>

ScholarOne Manuscripts Submission:

<http://mc.manuscriptcentral.com/tnano>

Guest Editors

Dr. Christoph Adelmann
Imec, Leuven, Belgium
Dr. Paolo Bortolotti
Unité Mixte de Physique CNRS-Thales, Palaiseau, France
Dr. Florin Ciubotaru (Leading Guest Editor)
Imec, Leuven, Belgium
Prof. Dr. YoshiChika Otani
University of Tokyo, Tokyo, Japan

Responsible T-NANO Senior Editor:

Dr. Sorin Cotofana
TU Delft, Delft, Netherlands

For detailed information, Please visit the NTC [Website](#).

Call for Papers: EIPBN 2023

The 66th International Conference on Electron, Ion, and Photon Beam Technology and Nanofabrication (NTC Technical Sponsor)



The International Conference on Electron, Ion and Photon Beam Technology and Nanofabrication (EIPBN), affectionately known as "3-Beams," is the premier gathering of scientists and engineers who are dedicated to electron, ion and photon lithography, imaging, and analysis; atomically precise fabrication; nanofabrication process technologies; related emerging technologies; and their applications in a broad spectrum of fields. This is the 66th meeting of the EIPBN, where top researchers from academia, government laboratories, and industry from around the world meet to present and discuss recent trends and future directions in these technologies.

Location: San Francisco, California
Dates: 30 May to 2 June 2023
General Chairs: Qiangfei Xia, Chih-Hao Chang
Website: <https://eipbn.org/>
Abstracts Due: 15 January 2023
Notification of paper acceptance: 2 April 2023
Full paper due: in conference
Early bird registration: 16 April 2023

CHAPTER

Chapter News

We are happy to announce that IEEE NTC Student Branch Chapter, IIT Indore has won bronze in the Darrel Chong Student Activity Award 2022 given under IEEE SAC Awards Programs. Congratulations!



Recognizes and certifies

Indian Institute of Technology-Indore

with the Darrel Chong Student Activity Award 2022 - Bronze
for the activity

"Distinguished Lecture Series"

6th September 2022




K. J. Ray Liu
IEEE President 2022

YOUNG PROFESSIONALS

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

IEEE-NMDC 2022:



In response to the COVID-19 pandemic and the need for social distancing, the Local Organizing Committee had to make the difficult decision to postpone IEEE Nanotechnology Materials and Devices Conference (NMDC 2022) to November to ensure the safety and well-being of the conference's multinational community of attendees.

The conference is also in the process of preparation as planned. The updated conference date will be announced in the later stage. Please visit www.nmdc2022.org for further details.

The IEEE Nanotechnology Materials and Devices Conference will be held for the first time on-site in Mainland of China, on 16-19 October 2022 at the International Conference Hotel in Nanjing, China. It will bring together key researchers from every sector in the nanotechnology research field, with a special focus on Materials and Devices. Conference papers will be published in IEEE Xplore after passing peer-review, with limited invitation for submission to IEEE *Transactions on Nanotechnology* or *IEEE Nanotechnology Magazine*. There are special award sessions for posters, graph contests, young scientists, women in engineering and entrepreneurs.

Technical Topics

- Low-dimensional Materials & Devices
- Wearable & Printed Electronics
- Quantum and Information Technology
- Nanomedicine and Nano-healthcare
- Nanomaterials for Energy Applications
- Nanophotonics and Optoelectronics
- Post-Moore Micro/Nano-Electronics
- Nanofabrication and Nanomanufacturing
- Materials/Devices for Neuromorphic/IoT/AI
- MEMS/NEMS and Sensors
- Nanotechnology Entrepreneurs
- Nanotechnology Education

Registration: <http://www.nmdc2022.org/reg.html>

NOTE: Remote attendee options available.

Program: <http://www.nmdc2022.org/program.html>

See overview below.

Speakers:

Plenary speakers:

See <http://www.nmdc2022.org/plenary.html>

- Huiming Chen, TBSI, CAS Academician

- Ning Gu, Southeast U, CAS Academician
- Jin-Woo Kim, Arkansas, IEEE fellow
- Rodney S. Ruoff, UNIST

23 Keynote speakers, see <http://www.nmdc2022.org/keynote.html>

31 invited speakers, see <http://www.nmdc2022.org/invite.html>

IEEE NANO 2023: Call for Papers



23rd IEEE International Conference on Nanotechnology (IEEE-NANO 2023)

2-5 July 2023, Jeju Island, Korea.

Website: <https://2023.ieeenano.org/>

IEEE-NANO is the flagship conference series of the IEEE Nanotechnology Council (NTC) since 2001, focusing on the promotion of advanced research in the fields of nanoscience and nanotechnology. Recent conferences were held in Palma de Mallorca (Spain, 2022), Montreal (Canada, 2021), Virtual (2020), Macau (China, 2019), Cork (Ireland, 2018), Pittsburgh (USA, 2017), Sendai (Japan, 2016), Rome (Italy, 2015), Toronto (Canada, 2014), etc.

Conference Scope

We invite contributions describing the latest scientific and technological research results in subjects including, but not limited to:

- Nanoelectronics
- Nanobiomedicine
- Nanophotonics
- Nano-healthcare
- Nanofabrications
- Nanoscale Communications
- Nanopackaging
- Modeling & Simulation
- Nano-robotics & Manufacturing
- Quantum, Neuromorphic & Unconventional Computing
- Nanomaterials & Metrology
- Nanosensors & Nano-actuators
- Spintronics & Nano-magnetics
- Nano-energy & Environmental Technology
- Nanoacoustic Devices & Materials
- Emerging Plasma Nanotechnologies
- Special Sessions

Key Dates:

Paper Submissions Opening: 15 January 2023

Deadline for Paper Submissions: 15 March 2023

Notification of Acceptance: 15 April 2023

Camera-Ready Submission: 15 May 2023

Accepted full papers for IEEE-NANO will be submitted for inclusion into IEEE *Xplore* as well as other Abstracting & Indexing (A&I) databases.

NOTE: Only full papers (4 to 6 pages) submitted by 15 March 2023 will be considered for the inclusion to IEEE *Xplore* with their acceptances.

General Chairs:

Jin-Woo Kim, Univ. of Arkansas, USA

Chang-Ki Baek, POSTECH, Korea

Program Chairs:

John T.W. YEOW, Univ. of Waterloo, Canada

Byoung-Don KONG, POSTECH, Korea

Papers presented at IEEE-NANO 2023 will be selected to publish in special issues of peer-reviewed journals:

- **IEEE Transactions on Nanotechnology** (IF 2.967)
- **IEEE Open Journal of Nanotechnology** (IF expected in 2023) (Indexed in Web of Science Emerging Sources Citation Index [ESCI])

PUBLICATIONS

IEEE Transactions on Nanotechnology

View the full current issue of IEEE T-NANO

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

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



T-NANO, VOLUME 21

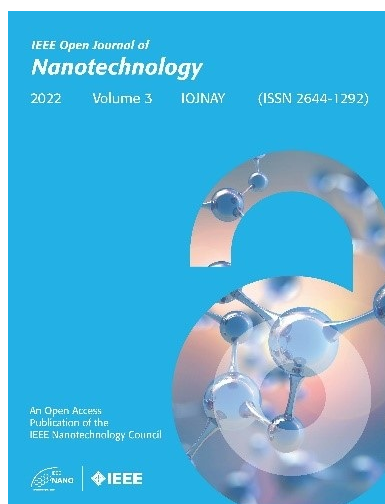
IEEE Open Journal of Nanotechnology

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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](#).



OJNANO, VOLUME 3

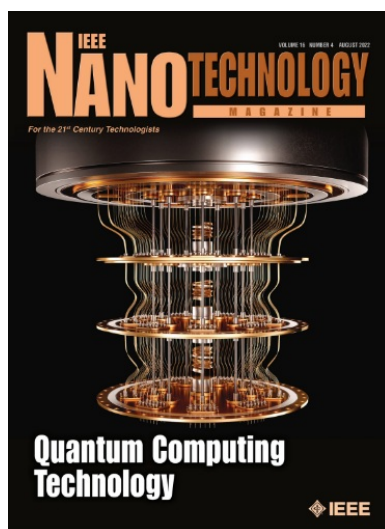
IEEE Nanotechnology Magazine

View the full current issue of IEEE INM

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

To find how to submit to INM, [click here](#).

INM, Volume 16, Number 4



IEEE Transactions on NanoBioscience

View the full current issue of IEEE T-NB

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

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

T-NB, Volume 21, Number 4



LIST OF NANOTECHNOLOGY COUNCIL OFFICERS (2022)

- President, Fabrizio Lombardi
- Past-President, Jim Morris
- VP Conferences, Jin-Woo Kim
- VP Publications, Supriyo Bandyopadhyay
- VP Finances, Malgorzata Chrzanowska-Jeske
- VP Educational Activities, Lixin Dong
- VP Technical Activities, Xiaoning Jiang
- Secretary, Edward Perkins

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