RAN
CONGRESS

PROCEEDINGS OF THE 10TH WORLD CONGRESS ON RECENT ADVANCES IN NANOTECHNOLOGY (RAN 2025)

06 - 08 April, 2025 | Barcelona, Spain

ISBN: 978-1-990800-50-4 | ISSN: 2371-5308

TABLE OF CONTENTS

Welcome Message from the Conference Chair……..……..... 3

About RAN'25……..... 4

Scientific Committee……..... 5

Keynote Speakers……..... 7

List of Papers ……..... 16

Sponsors …….....21

Journal Publication...…….....22

RAN'26 ……...…….....23

Ethics & Malpractice …….....24

Contact Us …….....29

WELCOME MESSAGE FROM THE CONFERENCE CHAIR

On behalf of the International Academy of Science, Engineering and Technology (International ASET Inc.), the organizing committee would like to welcome you to the 10th World Congress on Recent Advances in Nanotechnology (RAN 2025).

RAN is aimed to become one of the leading international annual congresses in the field of nanotechnology. This congress will provide excellent opportunities to the scientists, researchers, industrial engineers, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

In the tenth meeting of this congress, five plenary speakers and three keynote speakers will share their expertise in a wide spectrum of fields and applications. In addition, approximately 22 papers will be presented by professors, students, and researchers from across the world.

We thank you for your participation and contribution to the 10th World Congress on Recent Advances in Nanotechnology (RAN 2025). We wish you a very successful and enjoyable experience.

Dr. Wolfgang Ensinger
Congress Chair and Proceedings Editor
Technische Universität Darmstadt, Germany
RAN 2025 Congress

Dr. Josef Jampilek
Congress Co-Chair and Proceedings Editor
Comenius University, Slovakia
RAN 2025 Congress

Dr. Sergio Nardini
Congress Local Chair
Università degli Studi della Campania Luigi Vanvitelli, Italy
RAN 2025 Congress

Return to Top

ABOUT RAN 2025

RAN is aimed to become one of the leading international annual congresses in the field of nanotechnology.
This congress will provide excellent opportunities to the scientists, researchers, industrial engineers, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

There are 2 conferences included in the RAN Congress:

ICNNFC 2025 - 10th International Conference on Nanomaterials, Nanodevices, Fabrication and Characterization
NDDTE 2025 - 10th International Conference on Nanomedicine, Drug Delivery, and Tissue Engineering

While each conference consists of an individual and separate theme, the 2 conferences share considerable overlap, which prompted the organization of this congress. The goal of this undertaking is to bring together experts in each of the specialized fields, and at the same time allow for cross pollinations and sharing of ideas from the other closely related research areas.

- **RAN** is an acronym for **R**ecent **A**dvances in **N**anotechnology.
- The proceedings is published in Ottawa, Canada.
- All papers were peer-reviewed
- The congress proceedings is published under an ISSN and ISBN number
- Each paper is assigned a unique DOI number by Crossref
- The conference proceedings is indexed by Scopus and Google Scholar
- The proceedings is permanently archived in Portico (one of the largest community-supported digital archives in the world)

Google Scholar Scopus Crossref PORTICO

Return to Top

SCIENTIFIC COMMITTEE

We would like to thank the following for accepting to act as a member of the Scientific Committee for the RAN 2025 Congress:

Scientific Committee Members for ICNNFC'25

- **Dr. Shakil Awan,** University of Plymouth, UK
- **Dr. Daolun Chen,** Toronto Metropolitan University, Canada
- **Dr. Erik Díaz-Cervantes,** Universidad de Guanajuato, Mexico
- **Dr. Fengge Gao** Nottingham Trent University, UK
- **Dr. Antonio Vicente Herrera Herrera,** Universidad de La Laguna, Spain
- **Dr. Gabriela Huminic,** Transilvania University of Brasov, Romania
- **Dr. David Jenkins,** University of Plymouth, UK
- **Dr. Byeong Hee Kim,** Kangwon National University, South Korea
- **Dr. Bilgin Kaftanoğlu,** University of Pardubice, Czech Republic
- **Dr. Dongyang Li,** University of Alberta, Canada
- **Dr. Malik Maaza,** UNESCO UNISA ITL/NRF Africa, South Africa
- **Dr. Rahul M. Mane,** Shivaji University, India
- **Dr. Petr Němec,** Atilim University, Turkey
- **Dr. Ram Prasad,** Mahatma Gandhi Central University, India
- **Dr. Ayse Turak,** McMaster University & Concordia University, Canada
- **Dr. Jie Yang,** RMIT University, Australia
- **Dr. Mustafa Yavuz,** University of Waterloo, Canada
- **Dr. Maria Luisa Di Vona,** University of Rome Tor Vergata, Italy
- **Dr. Hande Yondemli,** Selcuk University, Turkey
- **Dr. Yi Xuan,** University of Pittsburgh, USA

Return to Top

SCIENTIFIC COMMITTEE

Scientific Committee Members for NDDTE'25

- **Dr. (Steven) Seongtae Bae,** University of South Carolina, USA
- **Dr. Victor Carriel,** University of Granada, Spain
- **Dr. Damien Dupin,** CIDETEC, Spain
- **Dr. Todd Giorgio,** Vanderbilt University, USA
- **Dr. Jingjiao Guan,** Florida State University, USA
- **Dr. Rosalia Rodriguez-Rodriguez,** Universitat Internacional de Catalunya, spain
- **Dr. Guillermo Rus,** University of Granada, Spain
- **Dr. Monica Marini,** Istituto Nazionale di Ricerca Metrologica (INRIM), Italy
- **Dr. Loretta L. del Mercato,** Nanotechnology Institute of CNR, Italy
- **Dr. Moein Moghimi,** Newcastle University, UK
- **Dr. Alexandra Marques,** University of Minho, Portugal
- **Dr. Marta Sevieri,** Università degli Studi di Milano, Italy
- **Dr. Yi Sun,** Technical University of Denmark, Denmark
- **Dr. Dejian Zhou,** Leeds University, UK
- **Dr. Valtencir Zucolotto,** University of Sao Paulo, Brazil

Return to Top

PLENARY/KEYNOTE SPEAKERS

The Plenary & keynote information for the 10th World Congress on Recent Advances in Nanotechnology (RAN'25) is as follows:

Plenary Speakers

Dr. Raul Arenal
Laboratorio de Microscopias Avanzadas (LMA), Spain
ICNNFC 2025 Plenary Speaker

Dr. Seungpyo Hong
University of Wisconsin–Madison, USA
NDDTE 2025 Plenary Speaker

Dr. Michael Xianfeng Chen
The University Of Edinburgh, Uk
NDDTE 2025 Plenary Speaker

Dr. Philippe Knauth
Aix Marseille University, France
ICNNFC 2025 Plenary Speaker

Dr. Borja Sepúlveda
Institute of Microelectronics of Barcelona, Spain
ICNNFC 2025 Keynote Speaker

Keynote Speakers

Dr. Sourav Bhattacharjee
University College Dublin, Ireland
NDDTE 2025 Keynote Speaker

Dr. Maria Stepanova
University of Alberta, Canada
NDDTE 2025 Keynote Speaker

Dr. Witold Musial
Wroclaw Medical University, Poland
NDDTE 2025 Keynote Speaker

Return to Top

ICNNFC'25 PLENARY SPEAKER

Dr. Raul Arenal, Laboratorio de Microscopias Avanzadas (LMA), Spain
Topic of Plenary: Nanoscopic Investigations of Low Dimensional NanoMaterials via TEM

Return to Top

Dr. Arenal is the Group leader of the Nanoscopy on Low Dimensional Materials (NLDM) at the Instituto de Nanociencia y Materiales de Aragón (INMA, CSIC-Universidad de Zaragoza) and since 2018, he is the Coordinator of the TEM area of the Laboratorio de Microspcopias Avanzadas (LMA, Universidad de Zaragoza, member of the ELECMI, Spanish National facility (ICTS) for Advanced Microscopies). Dr. Raul Arenal received his Ph.D. in Solid State Physics from Univ. Paris-Sud (now Paris-Saclay, Orsay, France, 2005) and in 2013, he obtained his Habilitation (HDR) also at this University. From April 2005 to August 2007, he joined the Electron Microscopy Center in Argonne National Laboratory (ANL, USA) as post doctoral fellow. In 2007, he became research scientist (Chargé de Recherches) at the CNRS (France), working at the LEM, CNRS-ONERA (Chatillon, France). From September 2010 to December 2011, he was visiting scientist (sabbatical position) at the Laboratorio de Microscopias Avanzadas (LMA) at the Instituto de Nanociencia de Aragon (INA) of the Universidad de Universidad de Zaragoza (Spain). Since 2012, DR. Arenal is on leave from the CNRS, and he is currently ARAID senior research scientist at the LMA-INMA-Universidad de Zaragoza. In addition, since 2007 he is visiting researcher at the ANL (USA).

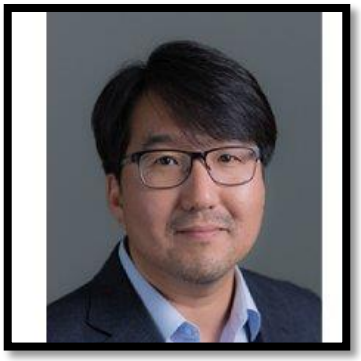
NDDTE'25 PLENARY SPEAKER

Dr. Michael Xianfeng Chen,
The University Of Edinburgh, Uk
Topic of Plenary: Cost-Effective and Rapid 3D Printing Of Microfluidic Devices for Biomedical Applications

Return to Top

Prof Michael Xianfeng Chen received his MSc and PhD from National University of Singapore, and University of Oxford, respectively. He is currently working in the Institute for Bioengineering in the School of Engineering at The University of Edinburgh as a Professor, Chair of Therapetic Engineering, and also serves as the Director of Industry Engagement of School of Engineering. Prof Chen's research is focused on biomaterials, biomedical engineering, and the application of nanomaterials in biology and medicine. In these areas, he has been working on physical (microneedle & nanoneedle arrays) and chemical (nanomedicine) tools for drug delivery, 3D printed microfluidic devices, and biosensing. He has published over 130 papers in peer-reviewed international journals, majority in field top journals. These publications generated a google scholar h-index of 59 and >9000 citations. Additionally, he has 2 book chapters and 12 granted patents in drug delivery technologies in various major countries and regions, primarily in the USA.

NDDTE'25 PLENARY SPEAKER

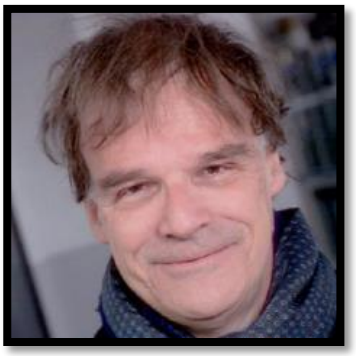


Dr. Seungpyo Hong,
University of Wisconsin–Madison, USA
Topic of Plenary: Dendritic Nanoparticles for Effective Immune Checkpoint Inhibition

Return to Top

Dr. Seungpyo Hong is the Milton J. Henrichs Chair and Professor of Pharmaceutical Sciences and Director of Wisconsin Center for NanoBioSystems (WisCNano) at University of Wisconsin-Madison (UW-Madison). He holds appointments as Adjunct Professor at University of Texas Southwestern Medical Center, University of Illinois Chicago (UIC), and Yonsei University, Seoul, Korea, while serving as Associate Editor for Nanomedicine: Nanotechnology, Biology and Medicine of Elsevier. Dr. Hong is also active in entrepreneurship, co-founding a biotech startup called Capio Biosciences. He graduated from Hanyang University in Seoul, Korea with B.S. and M.S. degrees in polymer engineering in 1999 and 2001, respectively. He then received his PhD in Macromolecular Science and Engineering from University of Michigan in 2006 and joined MIT as a postdoctoral associate in the laboratory of Prof. Robert Langer. From 2008 to 2014, he was an Assistant Professor at UIC where he was promoted to Associate Professor with tenure in 2014, and subsequently joined the UW-Madison faculty as Full Professor in 2016. To date, Prof. Hong's research has culminated in over 120 peer-reviewed articles that have accumulated a total of over 21,000 citations (h-index: 54), 1 co-edited book, 8 book chapters, and 23 issued or pending patents, while delivering over 200 invited talks worldwide. His scientific contributions have been well recognized, resulting in him receiving honors, including 2022 Inducted Fellow of American Institute for Medical and Biological Engineering (AIMBE) and 2012 New Investigator Award from American Association of Pharmaceutical Scientists (AAPS).

ICNNFC'25 PLENARY SPEAKER



Dr. Philippe Knauth
Aix Marseille University, France
Topic of Plenary: Carbon Quantum Dots Based Electrocatalysts for Oxygen and Carbon Dioxide Reduction Reactions

Return to Top

PK obtained his PhD in Physical Chemistry (Dr. rer. nat., Saarland University) in 1987 and the Habilitation in Materials Science (Aix Marseille University) in 1996. He is member of the Editorial Board of several international journals: “Journal of Electroceramics” and “Journal of Materials Science: Materials for Energy” (Springer), “Frontiers in Energy Research” and “Membranes” (MDPI). Appointed visiting scholar at MIT in 1997-98 and 2013 and Invited professor at the National Institute of Materials Science (Tsukuba, Japan) in 2007 and 2010 and at the University of Rome Tor Vergata in 2009, 2011 and 2022. PK is Fellow of the French Chemical Society (“Membre Distingué”) and recipient of the Grand Prix Franco-italien (SCF PACA/SCI Liguria-Piemonte-Valle d’Aosta, 2021), the IAAM Medal (International Association for the Advancement of Materials) 2018, the Silver Medal of the Warsaw University of Technology (2015) and the CNRS Bronze Medal (1994). He published 230 articles in international journals (>10900 citations, h index = 52), 7 co-edited books, 6 patents and 85 invited, keynote and plenary talks at international conferences.

ICNNFC'25 PLENARY SPEAKER

Dr. Borja Sepúlveda,
Institute of MicroelSpainectronics of Barcelona (IMB-CNM-CSIC),
Topic of Keynote: Opto-Magnetic Nanosystems For Biomedical, Energy and Environmental Applications

Return to Top

Dr. Borja Sepulveda received his PhD degree in Physics from the Complutense University of Madrid in 2005. In 2006 he started a two years Postoctoral stay at the Bionanophotonics and Bioimaging group in Chalmers University of Technology (Göteborg, Sweden). In 2008 he joined the Institut Català de Nanociencia i Nanotecnologia (ICN2) as Research Fellow, where he got a Ramon y Cajal grant in 2009. In 2012, he got a permanent CSIC researcher position at the ICN2. In 2021 he moved to the Institute of Microelectronics of Barcelona (IMB-CNM-CSIC).

NDDTE'25 KEYNOTE SPEAKER

Dr. Sourav Bhattacharjee,
University College Dublin, IrelandTopic of
Topic of Keynote: Impact of Surface Chemistry on Insulin Agglomeration

View Abstract Return to Top

Dr. Sourav Bhattacharjee graduated with MBBS (Bachelor of Medicine and Surgery) in 2004 from the Medical College and Hospital, Kolkata (India) in 2004. After a brief period of Resident training in Orthopedic Surgery, he joined MSc in Biomolecular Sciences/Cell Biology in the Vrije Universiteit Amsterdam (2006). In the meanwhile, he moved to the Edinburgh (UK), where he worked under the supervision of Prof. Vicki Stone at the Napier University. Upon finishing MSc, he began his Ph.D. in the Wageningen University (Netherlands) in 2008 which he successfully defended in 2012 with a very good thesis grade and quite a few research papers. Following that, he worked for a year as a postdoc at the University of Twente (Netherlands). From March 2014 he joined Prof. David Brayden's group in UCD as a postdoc working on the EU FP7 funded TRANS-INT consortium trying to develop nanoparticulate drug delivery platforms for oral insulin delivery. From February 2016 Sourav joined the UCD School of Veterinary Medicine as an Assistant Professor in Veterinary Anatomy while also trying to develop his own niche of research encompassing a broad range of nanobiotechnology and advanced microscopy tools for effective diagnostic and drug delivery platforms. Sourav maintains an active research group with a strong presence of enthusiastic and scientifically motivated students (PhD, Bachelors and Masters), while have already been named at the Top 2% Scientists by Elsevier/Stanford University rankings for consecutive five years (2020–2024). Sourav is also an Editorial Board member of the Journal of Anatomy and Nature Scientific Reports.

NDDTE'25 KEYNOTE SPEAKER

Dr. Witold Musial,
Wroclaw Medical University, Poland
Topic of Keynote: Electrical Conductivity as a Control Factor in Selected Processes of Polymerization and Application of Micro and Nanoparticles

View Abstract Return to Top

Witold Musiał is a Full Professor and Head of the Department of Physical Chemistry and Biophysics, Wroclaw Medical University, Poland. He earned his PhD in the field of pharmaceutical sciences, focusing on ionic equilibria in polymeric systems proposed for topical drug delivery. Professor Musiał continued postdoctoral research in the frames of Marie Curie Fellowship at the Technical University of Maribor and at the Institute of Macromolecular Chemistry in Prague, where he explored synthesis and evaluation of thermosensitive microstructures and nanostructures for medical applications. His research interests include controlled drug delivery and evaluation of physical phenomena observed in acting drug dosage forms. Scientific team of professor Witold Musiał is concentrated on several topics in that field: surface and interfacial phenomena in pharmaceutical sciences, electrochemistry in pharmaceutical sciences, synthesis and application of polymers as hydrophilic matrices, nanoparticles and microparticles for controlled and targeted drug delivery, R&D of pharmaceutical and medicinal products and pharmaceutical analysis. Professor Witold Musiał is lecturer in the field o pharmaceutical sciences, including physical chemistry and biophysics for pharmacists, physics in pharmacy for Qualified Persons in pharmaceutical industry, and pharmacokinetics. Coworker of pharmaceutical industries. Visiting researcher and lecturer of universities in Europe and USA.

NDDTE'25 KEYNOTE SPEAKER

Dr. Maria Stepanova, University of Alberta, Canada

Topic of Keynote: Nanoplasmonics for Characterization of Protein Assemblies

View Abstract Return to Top

Maria Stepanova graduated from Lomonosov Moscow State University (Physics) in 1984 and received a PhD in Physical and Mathematical Sciences from the National Center for Surface and Vacuum Research in Moscow in 1992. This was followed by a DrSci degree in Physical and Mathematical Sciences from St. Petersburg Polytechnic Institute and the Higher Attestation Commission of the Russian Federation in 1998. Since 2005, Dr. Stepanova has been an Adjunct Professor at the Department of Electrical Engineering of the University of Alberta in Canada. Her group has extensively contributed to cross-disciplinary research at the interface of engineering, physical sciences, and life sciences, with a special focus on micro- and nanoscale fabrication processes and self-assembly mechanisms for creating complex functional structures. Their work spans a broad range of topics, including ultra-high resolution fabrication of nanostructures, processes at nano-biological interfaces, and structural dynamics in biological polymers. Current research interests include investigating the complex processes involved in the excitation of plasmonic waves in conjugate nano-biological architectures and applying these phenomena for multimodal characterization and modulation of biopolymers and organic compounds. The group's research complements their experimental efforts by placing strong emphasis on biomolecular modeling and simulations.

LIST OF PAPERS

The following papers were presented at the 10th World Congress on Recent Advances in Nanotechnology (RAN'25).

Virtual Session

Exciton Stark Shift in CdSe Nanoplatelet
Author: Volodya Harutyunyan

Optimization of Iron Nanoparticle Biosynthesis Using Bacterial Isolates from Natural Environments
Authors: Iva Rosić, Marina Anteljević, Ivana Marić, Ivana Milošević, Tijana Tomašević-Ilić, Tanja Berić

Synthesis of Quantum Dots from Algae-Derived Bio-Precursors
Authors: Fernando G. Torres, Jezabel Echevarria, Omar P. Troncoso

Synthesis of Quantum Dots from Algae-Derived Bio-Precursors
Authors: Fernando G. Torres, Jezabel Echevarria, Omar P. Troncoso

3D NAND flash memory for a Pseudo quantum computer platform
Authors: Young June Park, David Dongwoo Park

Return to Top

LIST OF PAPERS

Cancer and Nanotechnology

Enhanced Breast Cancer Phototherapy Using Ferritin Nanocarriers loaded with ICG
Authors: Marta Sevieri, Leopoldo Sitia, Serena Mazzucchelli, Francesca Gorgoglione, Ilaria Tagliolini

Doxorubicin-Loaded Ferritin Nanocages Mitigate T-Lymphocytes' Toxicity in Breast Cancer Therapy
Authors: Serena Mazzucchelli, Marta Sevieri, Francesca Gorgoglione, Ilaria Tagliolini, Fabio Corsi

Design, Characterization, and Evaluation of Liposomal and Cubosomal Drug Delivery Systems for Anti-Cancer and Antimicrobial Therapeutics
Authors: Harpreet Kaur, Nand Kishore, Leonie van 't Hag

Return to Top

LIST OF PAPERS

Nanomaterials Applications

Organometallic Synthesis Applied To Pt-Based Nanocatalysts for Oxygen Reduction Reaction
Authors: Nargiz Kazimova, Nuria Romero, Carlos A. Campos-Roldán, Marjorie Cavarroc, Sara Cavaliere, Karine Philippot

Physicochemical Characterization of Biochar Obtained from Coffee Husk: a circular economy approach.
Authors: Sara Rebeca Abella Segura, Diego Fernando Coral Coral, Jorge Enrique Rodriguez Paez

Effect of a liposome model on the ligand-target interactions in Chlamydophila abortus
Authors: Helena Alvarado Alvarez, Abner J. Gutiérrez Chávez, Jorge E. Mejía Benavides, Erik Díaz Cervantes

Analytical Determination of Degeneracies in an 8-Band Solid with Zincblende Structure under Intrinsic and Extrinsic Spin-Orbit Interaction
Authors: Mateo Buenaventura Samboni, Ober Hernandez

Photoelectronic Transport in Semiconductor Quantom Dots
Authors: Luisa Marina Ordoñez, Jhon Andrade

Return to Top

LIST OF PAPERS

Nanomaterials Applications

Thermally-optically stimulated resistive memory states in a two-terminal vanadium dioxide device
Authors: Valentina Rodriguez, Nestor Gutierrez, Jesús Heiras, Gilberto Bolaños

Magnetic Nanoparticles with Three Different Coatings for Hypethermia Applications
Authors: Johana Muñoz Calderon, Diego Fernando Coral Coral

Nitridation of Zerovalent Fe Nanoparticles: A Parametric Study towards Sustainable Synthesis of Fe Nitride Nanomaterials
Authors: Azadeh Edalat, Pierre Lecante, Catherine Amiens, Marc Respaud

Return to Top

LIST OF PAPERS

Posters Session

Co-delivery of Zirconium-89 and photosensitizer by CXCR4-positive cell membrane nanocarriers for PET diagnosis and phototherapy on breast cancer
Authors: Yanan Tan, Lu Bai, Lifen Zhang, Min Luo, Xinyuan Guan

Gene-Activated Hydrogels for the Local Production of Immunostimulatory Proteins
Authors: Raquel Martinez-Campelo, Marcos Garcia-Fuentes

Enhanced Solubility and Dissolution of Cilnidipine Nanocrystals for Oral Administration: Fabrication and Evaluation
Authors: Mo'tasem M. Alsmadi, Aseel Jararwah, Tamara Athamneh, Rana M. Obaidat

Innovative Chiral Nanocatalysts: A Green Approach to Asymmetric Heck Carbonylation Reactions
Authors: Simay İnce, Ali Eren Nizamoğlu, Mustafa Kemal Yılmaz, Bilgehan Güzel

Case study on ion beam characteristics following application of dual condenser lens in Xenon plasma FIB
Authors: Jung Seok Park, Hyung Joo Park, Dong Young Jang

Magnetic Nanoparticles with Three Different Coatings for Hyperthermia Applications
Authors: Johana Muñoz Calderon , Diego F Coral

Solution-Deposited Metal Oxides as 4th Generation Glucose Sensors
Authors: Mahabubur Rahman Chowdhury

Return to Top

SPONSORS

International ASET Inc. would like to thank the following sponsors for their support of RAN 2025:

TECHNISCHE
UNIVERSITÄT
DARMSTADT

microlight3D

Return to Top

JOURNAL PUBLICATION

Selected articles from the congress will be published in the following journal after a secondary review process:

IJTAN - International Journal of Theoretical and Applied Nanotechnology

The publication fee will be waived for papers that win the Best Paper Award.

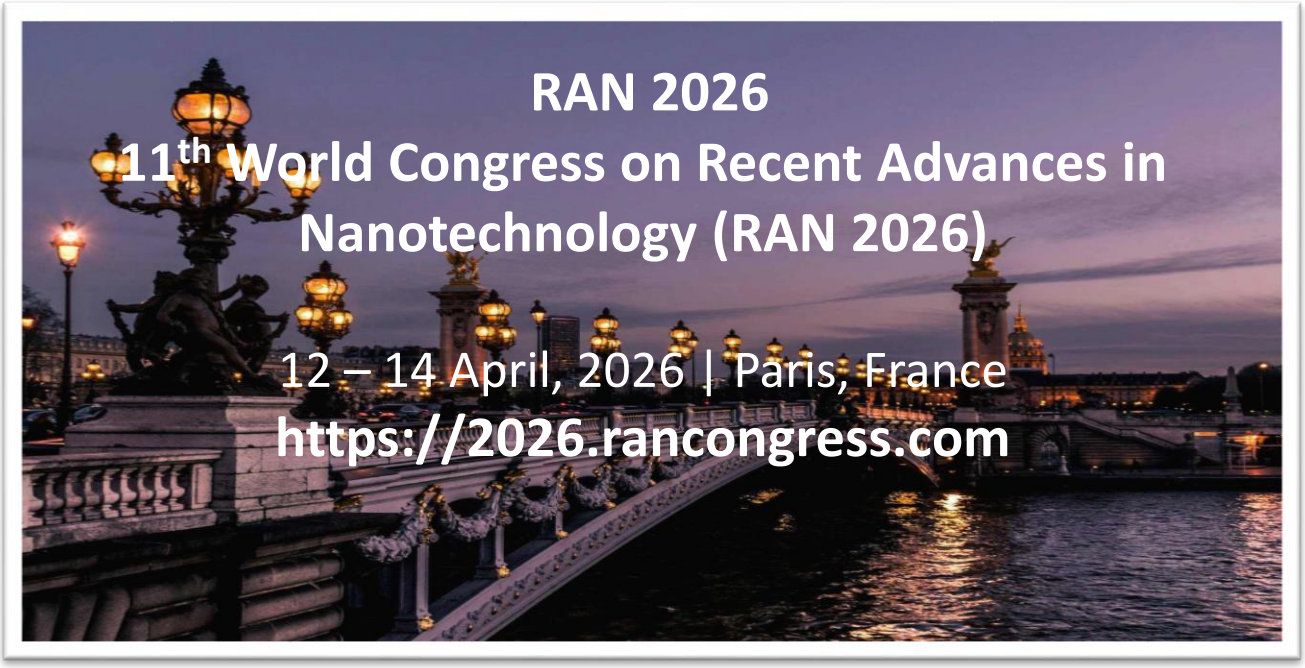
This journal has adopted to the open-access model, meaning all free access to the journal's articles and content with no need for subscription. This ensures larger audience and therefore higher citations.

All published papers of IJTAN will be indexed by Google Scholar, Semantic Scholar, CAS and Mendeley. Additionally, they will be permanently archived in Portico (one of the largest community-supported digital archives in the world) and will be assigned unique DOIs.

Return to Top

RAN 2026

The 11th World Congress on Recent Advances in Nanotechnology (RAN 2025) location will be held on 12 – 14 April, 2026 in Paris, France.



For inquiries and to obtain further information on the congress, please visit the website

You can also email info@rancongress.com or call us

at: +1-613-834-9999

Return to Top

ETHICS & MALPRACTICE

At International ASET Inc., we take matters that relate to ethics in publishing very seriously. We believe that the peer-review publication process is a vital building block of academia, and its integrity must be maintained at all costs, which is why every article will be peer-reviewed by several experts in the field. Under peer-review, experts in the related fields are required to provide opinions and comments on the improvements of the submissions.

We are proud of our efforts towards abiding by the guidelines of ethics, integrity, and high standards in publishing.

Following are the ethics guidelines set by the organizers for the authors and the reviewers of the conference:

Scientific Committees

Scientific committees consisting of experts in the fields are established. The committees oversee the peer-review and publication process. To see the scientific committee members, please follow the link: Scientific Committee

Equality and Decisions

One or more reviewer, scientific committee member, or chair, (internal or external), are responsible for evaluating the relevance of the submitted manuscripts to the proceedings, technical and scientific merit, originally, and impact. These evaluations are to be carried out regardless of ethnicity, religion, gender, sexual orientation, political beliefs, and institutions. Successive to peer-review, the Chair has full authority and is solely responsible for the published content and the process thereof.

Confidentiality

Scientific committee member(s) and publishing staff may not disclose manuscripts or their content, directly or indirectly, to anyone other than individuals invited to review the manuscript (whether they accept or not), other reviewers of the same publications, and publishing staff.

Conflicts of Interest

Scientific committee member(s) and publishing staff may not utilize the contents of submitted manuscripts whether accepted or rejected, directly or indirectly for their own research purposes without prior written consent by the authors.

Return to Top

ETHICS & MALPRACTICE

Reviewers

Contribution to Decisions

In order for final decisions to be made regarding acceptance or rejection of papers, we rely on peer-review. Peer-review is the process of experts in the field reading, understanding, and objectively commenting on submitted papers. Through peer-review, scholars give back to the academic and scientific community by helping the chair(s) make decisions regarding manuscripts.

Promptness

Reviewers should promptly notify the chair(s) if they are unable or unqualified to carry out their reviewing duties. Reviewers should do their best to provide the reviews to the chair(s) as promptly as possible, and within the designated time-frame.

Acknowledgment of Source

The reviewer should notify the chair(s) if they find any similarities in the paper being reviewed and any other work that has been published previously.

Confidentiality

Reviewers must not share the contents of the manuscripts they receive for review, regardless of their decision to review or contents of the review, directly or indirectly, with anyone other than the person who has assigned the review.

Fairness

Reviewers should review manuscripts fairly and objectively, with supporting evidence or arguments, regardless of personal feelings or biases.

Conflicts of Interest:

Invited reviewers should immediately inform the chair(s) in case of a conflict of interest based on competitive, collaborative, personal, family, and other relationships with the authors or people involved in the work.

Return to Top

ETHICS & MALPRACTICE

Authors

Reporting Standards

The paper being submitted for the proceedings should be based on clear objective, discussion, and references. The findings, data, and the arguments being used in the paper should be accurate. It is author's responsibility to guarantee the authenticity of the data in the paper.

Authorship

Only persons who have significantly contributed to the work and the manuscript can be named authors on a paper. These contributions include the idea/concept, design, experiments, evaluation, analysis, drafting or revision of the manuscript, and others. Authors must all have agreed to be named as such and for the manuscript to be submitted. Anyone who has contributed based on the above, but the level of contribution is not significant, may appear in the acknowledgement section of the manuscript.

Acknowledgement of Source

Acknowledgement to other's work being used in the paper must be given at all times. Authors of the paper should give comprehensive credit where it is necessary, by citing the work, they use for supporting their own research.

Accuracy, Originality, and Plagiarism

Authors should describe their work and the results of their work accurately and in full. The level of provided accuracy and detail should be such that a reader can replicate the work independently. Inaccurate, incomplete, fraudulent, and misleading statements are considered unacceptable and unethical. Direct or indirect use of other people's work is not allowed, unless properly cited. Previous works that have influenced the current work should also be cited. Presenting someone else's work as one's own is strictly prohibited and is considered plagiarism.

Return to Top

ETHICS & MALPRACTICE

Data and Material

Authors are encouraged to share their data, software, or other sharable material online, provided copyright and ownership laws surrounding that particular project permit. Authors may also be asked to share such material with the chair(s), and/or reviewers, and must be willing to do so if asked.

Dual Submissions

Submitting a manuscript to more than one venue (conference, journal, etc) simultaneously is not allowed. Presenting previously published work to be considered as a new submission, without a significant new interpretation or analysis, is prohibited.

Conflicts of Interest

Authors must notify the chair(s) at the time of submission, if any factor outside the scope of the research has influenced any step of the work and manuscript writing. Examples of such factors include but are not limited to funding, grants, advisory and consultancy, stock ownership, current or past employment, and memberships, among others. All funding sources should be disclosed in the manuscript.

Animal and Human Subjects

Works involving human and/or animal subjects must ensure that the work has abided by institutional guidelines, and pre-approved by required bodies. Moreover, consent must be acquired from participants, and privacy of subjects must be ensured. All of the above must be specified with clear statements in the manuscript.

Hazardous Material

It should clearly be identified in the manuscripts if the works have involved hazardous chemicals and material, or devices that can be harmful.

Reporting of Mistakes, Errata, and Retractions

If an author identifies a major error in a published paper, he/she must immediately inform the publisher. Regardless of whether a significant error is reported by the authors of the work or other readers, authors are obligated to take the necessary steps to correct the issue. It is decided on a case-by-case basis whether an erratum will be submitted to notify future readers of the error and correction, or whether the paper will be retracted. Unethical/plagiarism issues mostly result in a retraction, while unintended mistakes will mostly result in the publication of an erratum.

Return to Top

ETHICS & MALPRACTICE

Publisher

Errata and Retractions
The publisher takes the necessary steps to prevent mistakes, academic and scientific misconduct, and unethical behavior, both intended and unintended. When mistakes are reported, the publisher works with chair(s) and authors to publish an erratum clarifying the issue. In cases where the mistakes are severe and significant, the paper might be retracted. If unethical behavior, plagiarism, academic and scientific misconduct, or other such activities are proven to have taken place by an author or authors, the publisher will retract the paper.

Content and Archiving
The publisher preserves and stores all content digitally on their own servers, as well as through partnering with Portico (Digital Preservation and Electronic Archiving Service).

Copyright and Access:
The proceedings and related papers are all based on the open-access model, which means interested individuals and institutions can access the material for free.

Users are allowed to read, download, copy, distribute, print, search, or link to the full texts of the articles in this proceedings without asking prior permission from the publisher or the author. This is in accordance with the BOAI definition of open access.

Ownership and Management:
This conference-proceedings is managed and operated by the International ASET (International Academy of Science, Engineering, and Technology) and Avestia Publishing (the publishing arm of ASET).

Schedule:
This conference proceeding accompanies the conference, meaning a new proceedings will be published every year for the corresponding annual conference of this series.

Return to Top

CONTACT US

The 10th World Congress on Recent Advances in Nanotechnology (RAN'25) consist of 2 conferences. You can contact each conference using the information below.

IC NNFC'25	**10th International Conference on Nanomaterials, Nanodevices, Fabrication and Characterization** **Email: info@icnnfc.com** **Website: https://2025.icnnfc.com**
NDDTE '25	**10th International Conference on Nanomedicine, Drug Delivery, and Tissue Engineering** **Email: info@nddte.com** **Website: https://2025.nddte.com**

For inquiries and to obtain further information on the congress, please visit the website

You can also email info@rancongress.com or call us

at: +1-613-834-9999

Return to Top