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The winners will each receive a cash prize of USD 1000 and travel expenses to the 2025 IUPAC Congress, to be held in Kuala Lumpur, Malaysia, from 11-18 July 2025. Each winner will also be invited to present a poster at the IUPAC Congress describing his/her award-winning work and to submit a short critical review on aspects of his/her research topic, to be published in *Pure and Applied Chemistry*. The awards will be presented to the winners of the 2024 and 2025 competitions during the Opening Ceremony of the Congress.

The titles of the winners' theses are:

- Subhajit Bhattacharjee: "Photoelectrochemical and Chemoenzymatic Reforming for Sustainable Fuel Production"
- Robert Thomas O'Neill: "Stiff Stilbene as a Mechanochemical Force Probe for Fundamental Studies and Small Molecule Manipulation"
- Gabrielle Mandl:



Subhajit Bhattacharjee



Robert Thomas O'Neill



Gabrielle Mandl



Ming-Yu Qi



Jiaobing Tu

"On the Development of Pr³⁺-doped Radioluminescent Nanoparticles for X-ray Mediated Photodynamic Therapy of Glioblastoma Cells"

- Ming-Yu Qi: "Function-Oriented Design of Photoredox Coupled Catalysis System Based on Semiconductor Quantum Dots"
- Jiaobing Tu: "Wearable Sweat Sensors for Disease Monitoring and Management"

There were 44 applications from individuals receiving their Ph.D. degrees from institutions in 19 countries. The award selection committee, chaired by Javier García-Martínez, IUPAC Past President, comprised members of a wide range of experience in chemistry and a senior science advisor from Solvay. In view of the many high-quality applications, the Committee also decided to award four Honorable Mentions to:

- Sagar Bhattacharya (India, USA), Ph.D., Syracuse University, USA
- Karam Idrees (USA), Ph.D., Northwestern University, USA
- Itai Massad (Israel), Ph.D., Technion-Israel Institute of Technology, Israel
- Nicolas M Morato (Colombia/USA), Ph.D., Purdue University, USA

The call for applications for the 2025 IUPAC-Solvay International Award for Young Chemists will open soon. Eligible candidates must have received a Ph.D. or equivalent degree in any of the countries that have National Adhering Organizations in IUPAC during the year 2024.

<https://iupac.org/winners-of-the-2024-iupac-solvay-international-award-for-young-chemists/>

Hanwha-TotalEnergies IUPAC Young Polymer Scientist Award 2024

The 2024 Hanwha-TotalEnergies IUPAC Young Scientist Award, presented at MACRO 2024, has been awarded to Lutz Nuhn and Rongrong Hu.

The Hanwha-TotalEnergies IUPAC Young Scientist Award (formerly Samsung-Total Petrochemicals – IUPAC Young Scientists Award) is dedicated to outstanding young scientists (not older than 40 years)

and is sponsored by a grant from the aforementioned company. The prize was first awarded on the occasion of MACRO 2004 (Paris) and is granted biennially on the occasion of the IUPAC World Polymer Congress. The awardees are selected from the nominees by a Committee of the IUPAC Polymer Division. The 2024 award was presented at the Macro2024 in Warwick UK to two awardees (ex aequo) namely, Lutz Nuhn and Rongrong Hu.

Lutz Nuhn was honored with this award for his research on innovative synthetic strategies for multi-responsive and biodegradable polymeric nanocarriers and their versatile biomedical applications, particularly in the realm of advanced immunotherapies. Professor Nuhn holds the Chair of Macromolecular Chemistry and serves as the Deputy Chair of Chemical Technologies for Materials Syntheses at the Institute of Functional Materials and Biofabrication within the Department of Chemistry and Pharmacy at Julius-Maximilians-Universität Würzburg in Germany. In collaboration with Jürgen Groll, he is instrumental in establishing the new “Center of Polymers for Life” in Würzburg, which is set to open next year. This center aims to further propel cutting-edge research in polymer science and its applications in life sciences. ORCID 0000-0003-0761-1106



Lutz Nuhn

Rongrong Hu was honored with this award for her work in establishing new polymerization reactions, exploring innovative polymer structures, and developing advanced polymer materials. Her research group has pioneered over 30 types of multicomponent polymerizations and reported more than 200 novel polymer structures. Notably, her recent development of elemental sulfur-based multicomponent polymerizations enables the efficient direct conversion of sulfur into a wide array of sulfur-containing functional polymer materials, offering promising solutions for sulfur utilization. Professor Hu is



Rongrong Hu

a full professor at the School of Materials Science and Engineering at South China University of Technology. ORCID 0000-0002-7939-6962

Former awardees include Qian Chen and Eric Appel (2022), Athina Anastasaki and Changle Chen (2020), Andreas Walther (2018), and to Moon Jeong Park and Brent Sumerlin (2016).

<https://iupac.org/hanwha-totalenergies-iupac-young-polymer-scientist-award-2024/>

2025 IUPAC Awards in Analytical Chemistry—Call for nominations

The Analytical Chemistry Division of IUPAC is inviting nominations for two awards, including:

- The **IUPAC Emerging Innovator Award in Analytical Chemistry**—an award to recognize outstanding work undertaken by an emerging analytical scientist that corresponds to the aims of the Analytical Chemistry Division.
- The **IUPAC Analytical Chemistry Medal**—an award to recognize significant lifetime contribution to the aims of the Analytical Chemistry Division.

The awards are open worldwide to researchers working in the field of analytical chemistry. The **Emerging Innovator Award** is for researchers who are at an early stage of their independent career, as measured by the completion of a PhD within the last ten years. Appropriate consideration will be given to those who have taken a career break or followed a different study path. Nominations must be based on published works in the field of analytical chemistry. The **Analytical Chemistry Medal** is for researchers who have a substantial record of achievements demonstrated by the number and quality of their publications, by being actively involved in international partnerships as well as by their commitment in the training of the next generation of analytical chemists.

The 2025 awards will be presented during IUPAC's General Assembly and World Chemistry Conference in Kuala Lumpur, Malaysia, 12-18 July. The awardees will be invited to the meeting of the Analytical Chemistry Division to receive their award and to present a lecture.

The Analytical Chemistry Division of IUPAC welcomes nominations for both awards from the world analytical chemistry community. Deadline for **Nominations 31 December 2024**.