

Science and Technology will receive the award, joining the esteemed ranks of polymer scientists recognised for their exceptional contributions to both research and service to the broader community. The award acknowledges her groundbreaking work in precision polymerization, particularly in conjugated polymers for a wide range of optoelectronic applications. Additionally, it recognizes her significant service to IUPAC, having served as Secretary of the IUPAC Polymer Terminology Subcommittee (2014-2015) and as Vice President and subsequently President of IUPAC's Polymer Division (2016-2019, 2020-2023). Christine serves as an invaluable ambassador and role model for women in STEM. Beyond her contributions to Polymer Science, Christine also balances her responsibilities as a mother to a young family, exemplifying excellence both in her professional career and her role as a parent. Christine will deliver the Bob Stepto plenary award lecture at the upcoming 50th World Polymer Congress (MACRO 2024), scheduled for early July in Warwick, UK.

<https://iupac.org/christine-luscombe-is-the-recipient-of-the-2024-stepto-lecture-award/>

Athina Anastasaki is the recipient of the 9th Polymer International-IUPAC Award

The SCI® (Society of Chemical Industry), the Editorial Board of Polymer International and the IUPAC Polymer Division are delighted to announce that Athina Anastasaki, Assistant Professor of Polymeric Materials at ETH Zurich, Switzerland, is the winner of the 9th Polymer International-IUPAC award for Creativity in Applied Polymer Science.

The award celebrates the outstanding contributions that Professor Anastasaki has made to polymer chemistry where she has developed an outstanding, independent, innovative, and highly visible research profile spanning across the broad areas of polymer synthesis, polymer self-assembly and depolymerization leading the next generation of polymer chemists.

In polymer synthesis, she has been able to settle a long-lasting misconception in controlled radical polymerization whereby polymers with high dispersity have been traditionally associated with low livingness and increased termination, thus limiting several applications. Her in-depth knowledge and understanding in polymerization mechanisms led her group to develop a number of ATRP and RAFT polymerization approaches

in which the initiation and deactivation steps were elegantly regulated, unambiguously showing that extremely high end-group fidelity can be maintained regardless of the targeted dispersity.

Anastasaki has also initiated a new research niche by revolutionizing the depolymerization of polymers made by controlled radical polymerization. Before her work, depolymerization was mainly observed as an unwanted reaction during the polymerization of bulky monomers. In a completely new perspective, she developed the first example of near-quantitative depolymerization of RAFT-synthesized non-bulky polymers (such as PMMA) and showed that, under thermodynamically favourable conditions, both the monomer and the original RAFT agent can be recovered.

Recently she showed the first true reversal of controlled radical polymerization with polymer chains uniformly reducing in size during depolymerization, direct inverse of the uniform growth observed in controlled polymerizations. This recent work is expected to receive hundreds of citations from various chemistry fields as it unlocks many additional opportunities.

Anastasaki will give a lecture and receive this award at the 50th World Polymer Congress (MACRO 2024), which will be held in Warwick, UK from 1-4 July, 2024.

<https://iupac.org/9th-polymer-international-iupac-award-goes-to-athina-anastasaki/>



2025 Distinguished Women in Chemistry/Chemical Engineering Award – Call for Nominations

IUPAC announces the call for nominations for the IUPAC 2025 Distinguished Women in Chemistry or Chemical Engineering Awards. The purpose of the awards program, initiated as part of the 2011 International Year of Chemistry celebrations, is to acknowledge and promote the work of women in chemistry/chemical engineering worldwide. In 2011, 23 women were honored during a

ceremony held at the IUPAC Congress in San Juan, Puerto Rico, on 2 August 2011. At each of the subsequent IUPAC Congresses, 12 women received this recognition; in Istanbul in 2013, in Busan, Korea in 2015, in Sao Paulo in 2017, in Paris in 2019, virtually in 2021, and in The Hague in 2023. A similar award ceremony will take place during the 2025 IUPAC Congress in July in Kuala Lumpur, Malaysia.

Awardees will be selected based on excellence in basic or applied research, distinguished accomplishments in teaching or education, or demonstrated leadership or managerial excellence in the chemical sciences. The Awards Committee is particularly interested in nominees with a history of leadership and/or community service during their careers. A list of recipients of the award since its inception in 2011 is available online.

Each nomination requires a primary nominator and two secondary nominators who must each write a letter of recommendation in support of the nomination. A CV of the nominee is required. Self-nominations will not be accepted. Nominations should be received by 1 November 2024.

<https://iupac.org/2025-women-in-chemistry/>

2024 IUPAC-Zhejiang NHU International Award For Advancements In Green Chemistry—Call For Nominations

IUPAC-Zhejiang NHU International Award has been established in 2019 to emphasize the importance of advancements in Green Chemistry and the value of sciences to human progress, and to encourage young and experienced chemists. The award covers all the topics of Green Chemistry, such as Green and Renewable Feedstocks, Green Synthetic Routes, Green Solvents, Green Catalysis, Green products, Green Energy, and as broadly defined by OECD as Sustainable Chemistry.*

The 2024 IUPAC-Zhejiang NHU International Award includes:

- Three prizes to be awarded to three early career chemists, USD \$2000 each, who have received their Ph.D. (or equivalent) degree, or completed all Ph.D. requirements including successful defense of their doctoral thesis within the last 3 years (2022-2024). Qualified Ph.D. chemists will be evaluated based on the quality of their

theses work. Application requires submission of a completed entry form, including an essay submitted by the entrant that describes his or her research work and places it in perspective relative to current research in Sustainable Chemistry. The essay must be written in English by the entrant and may not exceed 1000 words.

- One prize will be awarded to an experienced chemist (USD \$10 000) who should have made significant contribution to green/sustainable chemistry throughout their career.

The Award is presented every two years and the work of the winners in progressing Green Chemistry in their applications will be disseminated to the attention of a wider global audience. All scientists are eligible irrespective of gender and nationality. Winners of this award will be expected to submit a review article for publication in *Pure and Applied Chemistry* in the year following their award. The awards will be presented at the 2025 IUPAC World Chemistry Congress to be held in Kuala Lumpur, Malaysia, 13-18 July 2025.

The Prize is managed by the Interdivisional Committee on Green Chemistry for Sustainable Development (ICGCSD).

About Zhejiang NHU—Founded in 1999, Zhejiang NHU Co., Ltd. has been recognized as one of the national high-tech enterprises in China. The company has total assets of 28.5 billion(CNY) with a sales income of 7.6 billion(CNY) and a corresponding profit of 2.6 billion(CNY) in 2019. Over the years, NHU adheres to the mission of “Exploring chemicals and improving life,” focuses on the fine chemicals, holds on to the concept of “innovation-driven development and growth in market competition.” Now, in the fields of nutrition, flavor and fragrance, APIs, and polymer based materials, it’s providing solutions for customers in more than 100 countries and regions. Today, NHU has established tight connections with outstanding universities, scientific research institutes and leading enterprises in the world. It has become a brand that highly trusted and approved by customers, a world-renowned vitamin supplier, a national large-scale flavor & fragrance manufacturer and one of the top 100 listed companies in China. <<http://www.cnhu.com>>

* See <http://www.oecd.org/chemicalsafety/risk-management/sustainablechemistry.htm> and reference therein, including Proceedings of the 1999 workshop, ENV/JM/MONO(99)19/PART3, p. 204

<https://iupac.org/awardees-of-the-2023-iupac-zhejiang-nhu-international-award-for-advancements-in-green-chemistry/>