

# CLEO 2024 Honorees

Optica is proud to recognize the outstanding achievements of our community.

Please join us in congratulating the following honorees being recognized during the CLEO 2024 Plenary Session I.

## [Charles Hard Townes Medal](#)

Established in 1980 to honor Charles Hard Townes, whose pioneering contributions to masers and lasers led to the development of the field of quantum electronics, the medal recognizes outstanding experimental or theoretical work, discovery or invention in the field of quantum electronics.



**Franco Nori**

*RIKEN, Japan, and University of Michigan, USA*

For his many fundamental contributions to quantum optics, quantum information processing, and quantum circuits, and for the development of key quantum software tools.

## [William F. Meggers Award](#)

Established in 1970 to honor William Meggers for his notable contributions to the field of spectroscopy and metrology, this medal recognizes outstanding work in spectroscopy.



**Nathalie Picqué**

*Max-Born Institute, Germany*

For pioneering broadband molecular spectroscopy with interfering frequency combs.

## 2024 Fellows

Recognizing Optica members who have served with distinction in the advancement of optics and photonics through distinguished contributions to education, research, engineering, business leadership and society. [View a complete list of 2024 Fellows.](#)



**Firooz Aflatouni**

*University of Pennsylvania, USA*

For interdisciplinary work on integrated photonic-electronic systems including photonic deep neural networks for direct image classification and photonic-assisted microwave imaging



**Vladimir Aksyuk**

*National Inst of Standards & Technology, USA*

For pioneering contributions to optical switching and sensing systems utilizing micro-electro-mechanical system (MEMS) actuation principles and nanophotonics

**Muyinatu A. Lediju Bell**

*Johns Hopkins University, USA*

For pioneering contributions to photoacoustic imaging techniques and applications for surgical guidance



**Andrea Blanco-Redondo**

CREOL, The College of Optics and Photonics, University of Central Florida, USA

For her discovery of pure-quartic solitons and pioneering contributions to topological quantum photonics



**Garrett Cole**

Thorlabs Inc, USA

For advancements in precision optical metrology, namely the pioneering development and successful commercialization of novel substrate-transferred crystalline optical interference coatings



**Jean-Michel Di Nicola**

Lawrence Livermore National Laboratory, USA

For world-class scientific and engineering contributions in high-energy and high-peak-power laser systems, and key technical leadership at the National Ignition Facility



**Peter Dragic**

Univ of Illinois at Urbana-Champaign, USA

For pioneering contributions to intrinsically low nonlinearity optical fiber, fiber laser materials, and modeling



**Simin Feng**

US Naval Surface Warfare Center Dahlgren Division, USA

For groundbreaking scientific and technical leadership in metamaterial transition and in creating a paradigm shift in active denial technology



**Martin C. Fischer**

Duke University, USA

For pioneering contributions to nonlinear optical microscopy and imaging in biomedicine, materials science, and cultural heritage



**Frédéric Grillot**

Télécom Paris, Institut Polytechnique de Paris, France, and The University of New-Mexico, USA

For his pioneering work on mid infrared optoelectronics and quantum dot lasers for silicon photonics



**Javier Antonio Jo**

University of Oklahoma, USA

For pioneering contributions to the integration of optical imaging and artificial intelligence for biomedical applications and service to the optical community



**Pei-Cheng Ku**

University of Michigan, USA

For pioneering contributions to semiconductor nanostructured optoelectronic materials, devices, and their applications



**Ray-Kuang Lee**

National Tsing Hua University, Taiwan

For demonstrated quantum machine-learning, and the implementation of quantum noise reduction for the advanced gravitational wave detectors, and the development of quantum noise squeezing



**Jurgen Michel**

Massachusetts Institute of Technology, USA

For pioneering contributions to germanium-on-silicon integrated photonics and to erbium-in-silicon light-emitting devices



**Michael Mielke**

AdValue Photonics Inc, USA

For outstanding technology and business leadership contributions to the industrial laser field and exemplary services to Optica and the photonics



**Arup Neogi**

University of Electronic Science & Technology of China, China  
For pioneering contributions to ultrafast and nonlinear effects in semiconductors and sustained global research in photonics and phononics



**Roberto Paiella**

Boston University, USA  
For outstanding contributions to the development of novel optoelectronic devices based on quantum-confined systems and photonic nanostructures



**Mark C. Phillips**

Wyant College of Optical Sciences, University of Arizona, USA  
For significant contributions to broadband laser spectroscopy and applications to gas sensing, characterization of solids, and plasma diagnostics



**Matteo Rinaldi**

Northeastern University, USA  
For pioneering contributions to the research, development, and commercialization of zero-power wireless infrared sensors



**Todd Stievater**

US Naval Research Laboratory, USA  
For scientific advances in quantum confined semiconductors, micro-opto-mechanical systems, waveguides, integrated photonics, and their development for DOD applications



**Alexander Szameit**

University of Rostock, Germany  
For groundbreaking contributions to photonic simulations of quantum and solid state phenomena



**Jonathan J. Wierer, Jr.**

North Carolina State University, USA  
For pioneering contributions to the physics and engineering of high-efficiency, high-power light-emitting-diode illumination sources



**Shuiqing "Fisher" Yu**

University of Arkansas, USA  
For technical innovations and leadership in developing SiGeSn optoelectronics infrared sensor applications



**Avi Zadok**

Bar-Ilan University, Israel  
For pioneering optomechanical sensing outside optical fibers



**Chao Zhou**

Washington University in St Louis, USA  
For pioneering advancements in parallel OCT imaging technologies and the development of non-invasive optogenetic pacing techniques in animal models



**OPTICA.ORG**

- [Publications](#)
- [Events](#)
- [Membership](#)
- [Industry](#)

**INFORMATION**

- [Help](#)
- [Contact Us](#)
- [Policies & Legal](#)

**HELPFUL LINKS**

- [Join Optica or Renew](#)
- [Store](#)
- [Find an Event](#)

**ABOUT US**

Optica, advancing optics and photonics worldwide.

