IT IS MY PLEASURE TO INTRODUCE Can Bayram, the guest editor for Part 2 of the special issue on nanophotonics and nanoelectronics. (Part 1 appeared in the April 2019 issue.) Dr. Bayram is an assistant professor in the Department of Electrical and Computer Engineering at the University of Illinois at Urbana–Champaign. He is an expert in III–V materials and photonic and electronic devices. He has performed more than 8,000 epitaxial growths with metalorganic chemical vapor deposition systems and has fabricated detectors, LEDs, solar cells, resonant tunneling diodes, and transistors in Class 100 and 1,000 cleanrooms, totaling more than 20,000 h of equipment usage.

His current research interests focus on the intersection of novel III–V materials, heterostructures, and photonic and electronic quantum devices. His research group explores novel materials, devices, and their 3D heterointegration on unconventional platforms, such as graphene and silicon, and investigates heat transport across/through semiconductors; efficiency droop mechanisms and remedies in aluminum indium gallium nitride emitters; and ultrafast terahertz photonics/electronics.

Dr. Bayram’s work has been recognized widely. He is the recipient of the 2018 International Union of Pure and Applied Physics Young Scientist Prize in Optics, the 2018 IEEE Nanotechnology Council Early Career Award, a 2018 Dean’s Award for Excellence in Research for an Assistant Professor, a 2018 Turkish American Scientists & Scholars Association Young Scholar Award, a 2017 National Science Foundation Faculty Early Career Development Program Award, the 2017 CS ManTech Best Student Paper Award, a 2016 Air Force Office of Scientific Research Young Investigator Award, the 2014 IEEE Electron Devices Society Early Career Award, and the Best Paper Award at the 11th International Conference on Infrared Optoelectronics.

He is an affiliate faculty member of the Micro and Nanotechnology Laboratory at the University of Illinois. Dr. Bayram has authored or coauthored 42 journal papers (h-index: ≥22), 38 conference proceeding papers, and two book chapters and has at least 45 patents issued or pending. For his achievements in ultraviolet-to-terahertz engineering of III–V semiconductor materials and devices, the Optical Society, the International Society for Optics and Photonics, and the IEEE have recognized him with Senior Member status.