Oana Jurchescu

Associate Professor of Physics at Wake Forest University
Winston-Salem, NC, US

Jurchescu's expertise is in the structure and electronic properties of organic semiconductors.

Biography

Oana Jurchescu's expertise is in the structure and electronic properties of organic and organic/inorganic hybrid semiconductors, as well as the fabrication and characterization of devices for nano and macroelectronics. Her current research focuses on organic and hybrid electronics, a technology which has the potential to address unique applications, such as artificial skin, smart bandages, flexible displays, wearable electronics, and more. Jurchescu focuses on understanding the fundamental properties of these materials and the operation of devices and on integrating them with various technologies addressing large-area electronics.

Her research has gained international recognition due to its vast implications for the future of electronics and technology. Jurchescu's research is funded by the National Science Foundation, the Office of Naval Research and the National Institute of Standards and Technology. Her work has been published in more than 50 publications.

Areas of Expertise

Flexible Plastics, Organic Electronics, Nanotechnology, Macroelectronics, Organic Semiconductors, Organic Devices, Physics of Organic Semiconductor Devices, Organic Spintronics, Functional Organic Materials, Structure-Property Correlations, Organic Thin-Film Transistors, Organic Field-Effect Transistors, Organic Single Crystals, Perovskite Electronics, Perovskite Thin-Film Transistors, Charge Transfer Complexes

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Education

University of Groningen (The Netherlands)
Ph.D. Physics

University of Timisoara (Romania)
M.S. Physics

University of Timisoara (Romania)
B.S. Physics

Accomplishments

WFU Award for Excellence in Research
This award is presented annually to an outstanding young scholar in the College who is either an assistant professor or is in his or her fourth year or less as an associate professor. The award’s monetary prize is made possible through support from the Alumni Association.

Featured in J. Mater. Chem. C's Emerging Investigators Issue
Featured in J. Mater. Chem. C's Emerging Investigators Issue, which highlights the best work from material scientists in the early stages of their independent career.

Wake Forest Innovation award
The Wake Forest Innovation award recognizes research achievements and contributions by the recipient in their field.

National Science Foundation CAREER Award
A NSF CAREER award is the most prestigious award in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations.

Wake Forest University Reid-Doyle Prize for Excellence in Teaching
The Wake Forest University Reid-Doyle Prize for Excellence in Teaching recognizes a faculty member in the College in the early part of his or her career.

Wake Forest University Faculty Endowment Fund Fellowship for outstanding work in teaching, research and service.
The Faculty Endowment Fund Fellowship award is for a two-year period in recognition of the recipient's outstanding work in the classroom, in research, and in service.

Creative and Research Activities Development and Enrichment Fellowship work in teaching, research and service
CRADLE fellows receive assistance from both internal and external consultants to improve their grantsmanship and to articulate a five-year career plan that incorporates proven strategies for developing and funding superior research and creative activities.

ORAU Ralph E. Powe Junior Faculty Enhancement Award
The Ralph E. Powe Junior Faculty Enhancement Awards provide seed money for research by junior faculty at ORAU member institutions. These awards are intended to enrich the research and professional growth of young faculty and result in new funding opportunities.

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