

Ultrashort Pulse Characterization

Selcuk Akturk

Bruker Nano Surfaces
5465 E. Cheryl Parkway Madison, WI 53711, USA

Selcuk Akturk is a Senior Staff Optical Engineer at Bruker's Nano Surfaces Division. He received his Ph.D. in Physics from Georgia Institute of Technology (Atlanta, Ga) in 2005, under the supervision of Prof. Rick Trebino. His dissertation encompassed pioneering work on spatio-temporal couplings in ultrashort laser pulses, including their theoretical description, as well as experimental characterization. From 2006 to 2009, he worked as Postdoctoral researcher at Laboratoire d'Optique Appliquée, ENSTA – Ecole Polytechnique in Palaiseau. At LOA, he worked on extreme nonlinear-optical events and plasma physics, as well as single-cycle pulse generation and characterization. In 2009, he joined the Engineering Physics Department at Istanbul Technical University and worked as tenured until 2016. His research at ITU included ultrafast material processing, laser art conservation and ultrafast biomedicine. After ITU, he worked for four years at Swamp Optics, LLC as Research Scientist with focus on developing commercial pulse measurement and compression equipment. In 2020, Selcuk Akturk joined Bruker, where he is responsible for advanced fluorescent microscopy systems. His work was recognized by numerous awards from institutions including ICO-ICTP, Turkish Academy of Sciences and Georgia Tech.