

AFRL-FUNDED SCIENTIST RECEIVES MAX BORN AWARD



Dr. Alexander E. Kaplan, an AFRL Air Force Office of Scientific Research (AFOSR)-funded professor, received the Max Born Award from the Optical Society of America (OSA). Dr. Kaplan, a professor in the electrical and computer engineering department at Johns Hopkins University, received this honor

for his pioneering contributions to nonlinear interface, optical bistability effects, hysteretic resonances of a single electron, and physics of subfemtosecond pulses.

The award recognizes outstanding contributions to physical, theoretical, or experimental optics. Dr. Kaplan also specializes in nonlinear optics and quantum electronics. His pioneering nonlinear optics research applies to many areas, including materials development/understanding, metrology, and quantum information.

Some of Dr. Kaplan's widely published research results include *Radio Engineering and Electronic Physics*, *Optics Letters*, and *Physical Review B*. According to the *Science Citation Index*, researchers have cited Dr. Kaplan's work an average of 250 times a year for the past 7 years. Dr. Kaplan is a Fellow of the OSA and a member of both the American Physical Society and the Institute of Electrical and Electronics Engineers Lasers and Electro-Optics Society.

AFRL/AFOSR has supported Dr. Kaplan's basic research efforts for over 20 years. Using these funds, Dr. Kaplan has conducted cutting-edge research in areas such as new principles of laser-based radiation and particle sources; novel laser-based hypershort pulse sources and single-particle devices; nonlinear optics of subfemtosecond, high-intensity processes; novel X-ray medical sources and laser gates for subattosecond electron bunches; and X-ray nonlinear optics and single-particle applications.

Additional Information

To receive more information about this or other activities in the Air Force Research Laboratory, contact **TECH CONNECT, AFRL/XPTC, (800) 203-6451** and you will be directed to the appropriate laboratory expert. **(OSR-S-06-02)**
Office of Scientific Research/Awards and Recognition