

Applied Nonlinear Optics

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Applied Nonlinear Optics

Let there be light! Ultra-thin film could one day be used on reading glasses. Researchers from The Australian National University (ANU) have developed new technology that allows people to see clearly ...

Breakthrough Ultra-Thin Tech to Revolutionize Night Vision – “ We Have Made the Invisible Visible ”

This chapter has been cited by the following publications. This list is generated based on data provided by CrossRef. Tokunaga, E. Terasaki, A. Wada, T. Sasabe, H. and Kobayashi, T. 1996. Femtosecond ...

The Elements of Nonlinear Optics

The preference for a radial drift motion is due to a nonlinear guiding effect which results from phase gradients created by the inhomogeneous pump profile. The direction of the drift can be reversed ...

Nonlinear optics and quantum optics

In later chapters, these are applied to a variety of problems in laser theory ... and will be of great interest to graduate students and researchers in theoretical physics, nonlinear optics, and laser ...

Theoretical Problems in Cavity Nonlinear Optics

Four outstanding SMU faculty researchers have been named as 2021 Ford Research Fellows. This year ' s recipients are Alejandro Aceves, Joseph Camp, Heather DeShon, and Xin-Lin Gao, all of whom will be ...

Four professors named SMU 2021 Ford Research Fellows

The diode allowed the SRR to be tuned by an applied DC voltage or by a high-power signal. 2 Tunable nonlinear metamaterials were then made by placing a varactor in each of the SRRs of the superlattice ...

MATERIALS RESEARCH: Researchers demonstrate nonlinear tunable metamaterial

Australian National University-led team demonstrates visible-convertible infrared imaging via non-linear metasurfaces. The thin film, described in SPIE's Advanced Photonics, is “ ultra-compact and one ...

Infrared-to-visible imaging breakthrough for human night vision

This is evident from more than 50 years of table-top nonlinear optics, over which a wide range of optical systems with extraordinary performance has been demonstrated and used for applications ranging ...

CAREER: Quadratically Nonlinear Micro-Resonators: Enabling Next Generation Photonic Devices and Systems

Starting this academic year, Ben-Gurion University of the Negev (BGU), Israel is now offering a new two-year Master's program in Environmental Physics and Solar Energy. The program is led by the Albert ...

Ben-Gurion University launches two-year program for Master ' s Degree in Environmental Physics and Solar Energy

Steingart, Energy and Environmental Science 8, 1569 (2015). “ Linear and nonlinear light localization through scattering media ” Jacob T. Lapenna and Jason W. Fleischer, Applied Optics 54, 184 (2015) ...

Imaging Physics Group

Applied Optics 57. 20 (2018): 5688-5693 ... Swartzlander, Grover A., et al. "Nonlinear response and stability of a 2D rolling semi-cylinder during optical lift." Nonlinear Dynamics 81. 1 (2015): ...

Grover Swartzlander

Israel will be offering a two-year masters ' degree in environmental physics and solar energy from this academic year onwards. The application process for the masters ' course is ongoing and will ...

Ben-Gurion University Launches Masters in Environmental Physics and Solar Energy

Biography Luke A. Sweatlock received the B.S. degree in engineering physics from Cornell University, Ithaca, NY, in 2001, and the Ph.D. degree in applied physics from the Californ ...

Luke A. Sweatlock

This altogether overcomes the disadvantages of previously explored photonic structures, potentially providing a basis for quantum-storage and quantum-nonlinear applications. The researchers ...

Quantum-optimally integrated light cage on a chip

She received a Ph.D. in physics from Tulane University in 2020, where her research centered on experimental nonlinear and quantum optics ... deep neural networks in optical communications," Applied ...

Erin Knutson

It is used in low-loss applications such as narrow-linewidth lasers, photonic delay lines, and nonlinear photonics ... developed a MEMS device to modulate x-rays. The new x-ray optics-on-a-chip device ...

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Journal of Optics 21. 4 (2019): 1-28. Web. * Starling, David J, et al. "Nonlinear Photon Pair Generation in a Highly Dispersive Medium." Physical Review Applied 13. 41005 (2020): 1-5. Web. £ Agarwal, ...

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