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[Coherent Nonlinear Optical Imaging: Beyond Fluorescence ...](#)

Coherent nonlinear molecular spectroscopy can generate a plethora of optical signals that do not rely on fluorescence emission, which is an incoherent process. Thus they offer contrast

[nonlinear optics - Coherent](#)

[nonlinear optics found in: Chameleon Family, Mephisto MOPA Lasers | Coherent, Vitora, Chameleon Discovery w/ Total Power Control, CEP for Legend Elite...](#)

[\(PDF\) Coherent Nonlinear Optical Response of Graphene](#)

nonlinear optical response of graphene at visible and near-infrared frequencies. We show that graphene has an exceptionally high nonlinear response, described by the effective, nonlinear

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Another nonlinear dissipation-coherent process is two-photon absorption. Historically two-photon absorption was the first nonlinear quantum transition to be explored, having been predicted in 1931 by Goepfert-Mayer (76).

[Coherent Nonlinear Optical Imaging: Beyond Fluorescence ...](#)

The quest for ultrahigh detection sensitivity with spectroscopic contrasts other than fluorescence has led to various novel approaches to optical microscopy of biological systems. Coherent nonlinear optical imaging, especially the recently developed nonlinear dissipation microscopy (including stimulated Raman scattering and two-photon

[Coherent Nonlinear Optical Response of Graphene](#)

[Coherent Nonlinear Optical Response of Graphene E.](#)

Hendry,* P.J. Hale, J. Moger, and A.K. Savchenko School of Physics, University of Exeter, EX4 4QL, United Kingdom

[Purely Coherent Nonlinear Optical Response in Solution ...](#)

Our results suggest that this coherent light scattering is due to a broadband, ultrafast, and remarkably huge third-order optical nonlinearity (3), which is a manifestation of the graphene's cone-shaped large-energy-scale band structure. Our experimental findings endow graphene new potentials in nonlinear optical applications.

[Quasi-parabolic pulses in a coherent nonlinear optical ...](#)

[Quasi-parabolic pulses in a coherent nonlinear optical amplifier](#) Victor V. Kozlov1,2,* and Stefan Wabnitz2

St.-Petersburg University, Department of Physics,
Petrodvoretz.

Nonlinear Optical Phenomena in Oxides and Application to a ...

The advantages of nonlinear processes for generating tunable coherent radiation are illustrated by a tunable coherent spectrometer based on a 1.06 μm Nd:YAG pumped angle-tuned LiNbO₃ parametric oscillator.

[1509.05216] Few-photon coherent nonlinear optics with a ...

Abstract: The pioneering experiments of linear spectroscopy were performed using flames in the 1800s, but nonlinear optical measurements had to wait until lasers became available in the twentieth century.

OSA | Coherent perfect absorber and laser for nonlinear ...

A localized non-Hermitian potential can operate as a coherent perfect absorber or as a laser for nonlinear waves. The effect is illustrated for an array of optical waveguides, with the central waveguide being either active or absorbing. The arrays situated to the left and to the right of the center can have different characteristics. The result

Coherent Nonlinear Optical Processes in Semiconductors ...

Coherent Nonlinear Optical Processes in Semiconductors Physics and Applications . BY S. SCHWTT-RINK . The influence of monochromatic nonresonant laser fields is discussed on the elementary excitation spectrum of semiconductors. It is shown that the different renormalizations in inorganic and one-dimensional organic materials can be understood in the framework of one and the same theory

Coherent Nonlinear Optical Imaging: Beyond Fluorescence ...

Coherent nonlinear optical imaging, especially the recently developed nonlinear dissipation microscopy, including stimulated Raman scattering and two-photon absorption, and pump-probe microscopy, including

(PDF) Coherent perfect absorption of nonlinear matter waves

Coherent perfect absorption is the complete extinction of incoming radiation by a complex potential in a physical system supporting wave propagation. The concept was proven for linear waves in a