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Alfano's The Supercontinuum Laser  
Source 2/e Contents New Preface 1989  
Edition Preface Contributors Part I:  
Fundamentals Chapter 1 Theory of Self  
Phase Modulation and Spectral  
Broadening Y.R. Shen and Guo-Zhen  
Yang Chapter 2 Supercontinuum  
Generation and Condensed Matter Q.Z.  
Wang, P.P. Ho, and R.R. Alfano Chapter 3

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Ultrashort Pulse Propagation in Nonlinear  
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nonlinear optical processes is the supercontinuum (SC) – the production of intense white light pulses covering: uv, visible, NIR, MIR, and IR. It is produced using ultrashort laser pulses (ps/fs) to produce the ultrabroad band of frequencies.

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Cover illustration: Shows the supercontinuum generation of intensity versus wavelength for 1mm of carbon tetrachloride liquid excited by a 120-fs, 625-nm laser pulse. Photo by Robert R. Alfano, A. Katz, and P.P. Ho. Library of Congress Cataloging-in-Publication Data  
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ultrabroad band of frequencies.

## **The Supercontinuum Laser Source | SpringerLink**

The supercontinuum light, discovered by Alfano in the 1970s, is the topic of a great number of studies and research ; it is generated by provoking a broadband polarization in a dielectric medium by

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means of a high energy source by a high power laser: in this way, it combines the broadband characteristics of a lamp with coherence and high ...

## **Supercontinuum source in the investigation of laser-tissue ...**

In optics, a supercontinuum is formed when a collection of nonlinear processes

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act together upon a pump beam in order to cause severe spectral broadening of the original pump beam, for example using a microstructured optical fiber. The result is a smooth spectral continuum. There is no consensus on how much broadening constitutes a supercontinuum; however researchers have published work claiming as little as

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60 nm of broadening as a  
supercontinuum. There is also no  
agreement on the spectral flat

## **Supercontinuum - Wikipedia**

Highly coherent and low-noise  
supercontinuum (SC) sources based on  
nonlinear spectral broadening of  
femtosecond pulses in all-normal

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dispersion (ANDi) fibers are attractive for many applications in ultrafast photonics. By simulating a real nonlinear pulse compression experiment, we numerically investigate the impact of shot noise and technical pump laser fluctuations on the quality and ...

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To illustrate how the dynamics of the delayed nonlinearity affect the generated supercontinuum, we calculate the spectrum generated from propagation of laser pulses with various input pulse durations (30 fs to 1 ps) in Ar, N<sub>2</sub>, and N<sub>2</sub>O using a model that incorporates the delayed nonlinearities

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using a density matrix formalism to  
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[Robert R Alfano;]

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## **The supercontinuum laser source : fundamentals with ...**

In this paper, we report supercontinuum generation by launching ultra-short femtosecond laser pulses into single crystal sapphire fibers. The major advantages of using sapphire fiber for supercontinuum generation are: (1) high



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transparency up to 5  $\mu\text{m}$ , (2) low material dispersion in the 0.8–5  $\mu\text{m}$  spectral range, and (3) a higher laser damage threshold (500 times higher than that of silica).

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Fully adjustable pulse width & repetition

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rate supercontinuum source. Rock. High  
power supercontinuum source. NIR - MID  
IR. Electro IR. Near Infrared externally  
triggered supercontinuum source.  
Electro MIR. High power Mid Infrared  
supercontinuum laser source.  
INDUSTRIAL. Indus forte. High power  
OEM supercontinuum source. Indus  
piano. Compact ...

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## **Supercontinuum lasers - Leukos laser**

4. Gaussian-shaped supercontinuum for ultrahigh-resolution optical coherence tomography 4.1. UHR-OCT in 800 nm wavelength region. A high-quality SC is a wideband, low-noise, high-power light source with superior spectral shape and

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is useful for ultrahigh-resolution OCT , .  
Generally, a superluminescent diode is used as the light source in OCT.

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