

Introducing

scitopia.org

Integrating Trusted Science + Technology Research

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IEEE

What is scitopia.org?

- Beta of free federated “vertical” search portal to digital libraries of 15 leading worldwide science and technology societies
- Open to the general public, but designed for researchers
- Full text available via publisher’s digital products; no new subscriptions to purchase
- Focused on the fields of technology, including engineering, physics, mathematics and computer science

Targeted, Authoritative Content

- More than 3 million *peer-reviewed* articles and conference proceedings

The content most often cited in patents and scholarly works

- 50 million worldwide patents
 - USPTO
 - Japan Patent Office
 - European Patent Office

Who is collaborating?

15 leading sci-tech societies

--a cross-section of scholarship

- Acoustical Society of America
- American Geophysical Union (AGU)
- American Institute of Aeronautics and Astronautics (AIAA)
- American Institute of Physics (AIP)

Who is collaborating?

Leaders in sci-tech research

- American Physical Society (APS)
- American Society of Civil Engineers (ASCE)
- American Society of Mechanical Engineers (ASME)
- AVS
- ECS
- IEEE

Who is collaborating?

- Institute of Physics Publishing (IOP)
- Optical Society of America (OSA)
- Society of Automotive Engineers (SAE)
- Society for Industrial and Applied Mathematics (SIAM)
- SPIE

...and more to come

Not just another search engine

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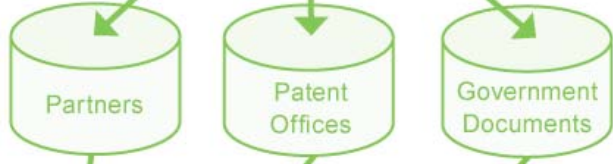
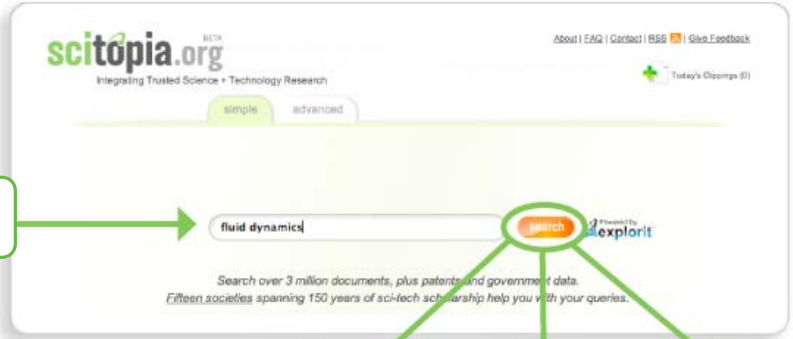
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Your search: optical path equalization ([modify search](#))

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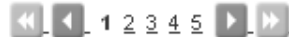
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Diode laser bar beam shaping by optical path equalization

★★★★★ *Stefano Bonora and Paolo Villoresi*

J. Opt. A: Pure Appl. Opt. 9 No 5 (May 2007) 441-445 2007-05-01

A beam shaping technique for a high power diode laser bar is presented. ... The optical paths of each sub-beam are equal, realizing the conservation of the beam quality in a system just a third of the size of previous solutions with



High-efficiency high-power diode laser beam shaping and focusing with constant optical-path length equalization

★★★★★ *Stefano Bonora; Paolo Villoresi*

Proceedings of SPIE; Proc. SPIE Int. Soc. Opt. Eng.; PSI Volume 6184 Issue 1 2006-04-21

... the following aspects: 1) the maximum optical efficiency in the beam shaping process, 2) the optimal equalization ... The condition on equal optical path length has the noticeable property of placing the virtual position of the individual portions into which the original beam



Continuously Adjustable Position Sampling of Interferograms Using Parametric Solutions to Reduce Jitter Contributions

★★★☆☆ *Farah, Hicham; Tremblay, Pierre*

Fourier Transform Spectroscopy (FTS) 2005 paper: FTuD1

The optical path difference of a Fourier-transform spectrometer is extracted using a Hilbert transform and Kalman filtered prior to the position sampling. An adaptive equalization step reduces the effects of channel mismatch.

IOP Publishing



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