



# INFRARED PHYSICS & TECHNOLOGY

An International Research Journal

## AUTHOR INFORMATION PACK

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### DESCRIPTION

The Journal covers the entire field of **infrared physics** and **technology**: theory, experiment, application, devices and instrumentation.

Its core topics can be summarized as the generation, propagation and detection, of **infrared radiation**; the associated optics, materials and devices; and its use in all fields of science, industry, engineering and medicine.

**Infrared techniques** occur in many different fields, notably spectroscopy and interferometry; material characterization and processing; atmospheric physics, astronomy and space research. Scientific aspects include lasers, quantum optics, quantum electronics, image processing and semiconductor physics. Some important applications are medical diagnostics and treatment, industrial inspection and environmental monitoring.

A fuller though not exhaustive list of topics would include:

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- Atmospheric transmission, turbulence and scattering
- Biomedical and Medical applications
- Cultural heritage
- Environmental applications: pollution and monitoring
- Detectors: quantum and thermal
- Image processing
- Industrial applications
- Infrared lasers including free electron lasers
- Material properties, processing and characterization.
- Nondestructive testing, active and passive.
- Optical elements: lenses, polarizers, filters, mirrors, fibres, etc.
- Radiometry: techniques, calibration, standards and instrumentation.
- Remote sensing and range-finding
- Solid-state physics
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- Synchrotron radiation in the infrared

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## AUDIENCE

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Those involved in the theory, techniques and instrumentation of infrared physics and engineering.

## IMPACT FACTOR

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## ABSTRACTING AND INDEXING

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Current Contents/Physics, Chemical, & Earth Sciences  
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[2] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

Reference to a chapter in an edited book:

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