

# Electronics Letters

## INDEXING GUIDE TO AUTHORS

To enable us to choose the most appropriate referees for your Letter please assign the terms that best describe the topic(s) of your Letter by selecting indexing terms selected from the following list. The list is arranged in the same way as the Contents Pages of Electronics Letters, i.e. by subject categories. If you click on one of the subject categories (given below), you will link to an appropriate set of index terms. Please bear in mind that your paper may be described by more than one category. You may also add your own indexing terms. 2-4 terms should be assigned in total.

### Subject categories:

[analogue electronics](#)

[antennas](#)

[biomedical electronics](#)

[circuit theory & design](#)

[circuits](#)

[communication & signal processing](#)

[computers, logic & memories](#)

[dielectric devices](#)

[dielectric properties](#)

[electromagnetic waves](#)

[electron devices](#)

[image processing](#)

[information theory](#)

[instrumentation & measurement](#)

[integrated circuits](#)

[integrated optics](#)

[integrated optoelectronics](#)

[lasers](#)

[magnetic devices & materials](#)

[microwave guides &](#)

[components](#)

[microwave measurements &](#)

[techniques](#)

[neural networks](#)

[optical communication](#)

[optical fibres & sensors](#)

[optics](#)

[optoelectronics](#)

[radar](#)

[radiowave propagation](#)

[semiconductor devices](#)

[semiconductors](#)

[superconducting devices &](#)

[materials](#)

[systems & control](#)

[engineering](#)

[ultrasonics](#)

### Index terms by subject categories:

#### analogue electronics

- . analogue circuits
- . . analogue integrated circuits
- . . . CMOS analogue integrated circuits
- . . analogue processing circuits
- . analogue computers
- . analogue storage

#### antennas

- . antenna accessories
- . . antenna feeds
- . antenna arrays
- . . microstrip antenna arrays
- . antenna radiation patterns
- . antenna theory
- . microwave antennas
- . . microstrip antennas
- . . . microstrip antenna arrays
- . . slot antennas
- . mobile antennas

#### biomedical electronics

- . defibrillators
- . pacemakers
- . prosthetic power supplies

#### circuit theory & design

- . network analysis
- . . circuit analysis computing
- . . nonlinear network analysis
- . network parameters
- . . S-parameters
- . network synthesis
- . . circuit CAD
- . . circuit optimisation
- . . integrated circuit design

#### circuits

- . active networks
- . . active filters
- . amplifiers
- . . feedback amplifiers
- . . operational amplifiers
- . . optical fibre amplifiers
- . . semiconductor optical

#### amplifiers

- . analogue circuits
- . digital circuits
- . . adders
- . . CMOS digital integrated circuits
- . . CMOS logic circuits
- . . digital filters
- . . digital signal processing chips
- . equalisers
- . . adaptive equalisers
- . equivalent circuits
- . filters
- . . active filters
- . . adaptive filters
- . . band-pass filters
- . . digital filters
- . . FIR filters
- . . microwave filters
- . . optical filters
- . . . optical fibre filters
- . integrated circuits
- . integrated optoelectronics

- . multiplying circuits
- . multivibrators
- . . flip-flops
- . oscillators
- . telecommunication networks
- . . broadband networks

### **communication**

- . data communication
- . digital communication
- . . digital radio
- . mobile communication
- . . mobile radio
- . . . cellular radio
- . multimedia communication
- . optical communication
- . . optical communication equipment
- . . . optical cables
- . . . optical receivers
- . . . optical repeaters
- . . . optical transmitters
- . . . photonic switching systems
- . . optical fibre communication
- . . . optical fibre networks
- . . . . optical fibre subscriber loops
- . radiocommunication
- . . digital radio
- . . indoor radio
- . . mobile radio
- . . . cellular radio
- . . radio receivers
- . . transceivers
- . . microwave links
- . spread spectrum communication
- . telecommunication channels
- . . fading channels
- . . . Rayleigh channels
- . . . Rician channels
- . . multipath channels
- . telecommunication control
- . . telecommunication congestion control
- . telecommunication equipment
- . . demultiplexing equipment
- . . multiplexing equipment

- . telecommunication links
- . . optical links
- . telecommunication networks
- . . broadband networks
- . . telecommunication network routing
- . telecommunication switching
- . . demultiplexing
- . . multiplexing
- . . . time division multiplexing
- . . . . asynchronous transfer mode
- . . . . packet switching
- . . . wavelength division multiplexing
- . . photonic switching systems
- . telecommunication traffic

### **dielectric devices**

- . capacitors
- . . varactors
- . dielectric resonators

### **dielectric properties**

- . capacitance
- . permittivity

### **electromagnetic waves**

- . electromagnetic wave polarisation
- . radiowaves
- . . microwaves
- . . millimetre waves
- . surface electromagnetic waves

### **electron devices**

- . electron device manufacture
- . electron device noise
- . electron device testing

### **image processing**

- . image coding
- . . video coding
- . image motion analysis
- . . motion compensation
- . . motion estimation

- . image recognition
- . . edge detection
- . . image classification
- . . image matching
- . . image texture
- . image reconstruction
- . . image restoration
- . image resolution
- . image segmentation
- . image sequences

### **information theory**

- . correlation theory
- . decoding
- . encoding
- . . codes
- . . . block codes
- . . . convolutional codes
- . . . pseudonoise codes
- . . . trellis codes
- . . . turbo codes
- . . speech coding
- . error statistics
- . filtering theory
- . prediction theory

### **instrumentation**

- . clocks
- . interferometers
- . . light interferometers
- . . . Mach-Zehnder interferometers
- . sensors
- . . gas sensors
- . . infrared detectors
- . . optical sensors
- . . . fibre optic sensors
- . . photodetectors

### **integrated circuits**

- . digital integrated circuits
- . . field effect logic circuits
- . CMOS integrated circuits
- . . CMOS digital integrated circuits
- . . . CMOS logic circuits
- . HEMT integrated circuits
- . microwave integrated circuits
- . . MMIC

## **integrated optics**

see [optical communication](#),  
[optical fibres](#), [optical sensors](#),  
[optics](#) and [optoelectronics](#)

## **integrated optoelectronics**

see [optical communication](#),  
[optical fibres](#), [optical sensors](#),  
[optics](#) and [optoelectronics](#)

## **lasers**

- . distributed Bragg reflector lasers
- . distributed feedback lasers
- . laser cavity resonators
- . Raman lasers
- . ring lasers
- . solid lasers
  - . . fibre lasers
  - . . . optical fibre amplifiers
  - . . semiconductor lasers
  - . . . quantum well lasers
  - . . . semiconductor optical amplifiers
- . surface emitting lasers
- . waveguide lasers

## **logic**

- . carry logic
- . formal logic
- . . fuzzy logic
- . logic design
  - . . logic CAD
- . logic circuits
  - . . combinational circuits
  - . . integrated logic circuits
- . logic gates
- . logic testing

## **magnetic devices & materials**

- . ferrite devices
- . magnetic bubble devices
- . magnetic semiconductors
- . magnetic storage

## **measurement**

- . electric noise measurement
- . laser variables measurement
- . microwave measurement
- . radiometry
- . semiconductor device measurement

## **memories**

- . analogue storage
- . digital storage
- . . buffer storage

## **microwave guides & components**

- . coplanar waveguides
- . dielectric waveguides
- . rectangular waveguides
  - . . ridge waveguides
- . strip lines
  - . . strip line components
  - . . . microstrip antennas
  - . . . . microstrip antenna arrays
- . . microstrip lines

## **microwave measurement & techniques**

- . microwave devices
  - . . microwave antennas
  - . . microwave circuits
  - . . microwave filters
  - . . microwave transistors
    - . . . microwave field effect transistors
    - . . . microwave power transistors
  - . . microwave heating
- . microwave measurement
- . microwave photonics
- . microwave propagation
- . microwave reflectometry
  - . . swept-frequency reflectometry

## **neural networks**

- . perceptrons
  - . . multilayer perceptrons
  - . . recurrent neural networks
  - . . Hopfield neural networks

## **optical communication**

- . optical communication equipment
  - . . optical cables
  - . . optical receivers
  - . . optical repeaters
  - . . optical transmitters
  - . . photonic switching systems
  - . . optical fibre

## **communication**

- . . optical fibre networks
- . . . optical fibre subscriber loops

## **optical fibres**

- . optical fibre cladding
- . optical fibre couplers
- . optical fibre dispersion
- . optical fibre fabrication
- . optical fibre filters
- . optical fibre losses
- . optical fibre polarisation
- . optical fibre testing

## **optical sensors**

- . fibre optic sensors
- . . fibre optic gyroscopes

## **optics**

- . birefringence
- . electro-optical effects
  - . . electroabsorption
- . geometrical optics
  - . . ray tracing
- . integrated optics
  - . . optical planar waveguides
- . light polarisation
- . nonlinear optics
  - . . multiwave mixing
  - . . optical frequency conversion
  - . . . optical harmonic generation
  - . . optical saturation
  - . . . optical saturable absorption
  - . . optical solitons
- . optical constants
  - . . refractive index
- . optical crosstalk
- . optical elements
  - . . diffraction gratings
    - . . . Bragg gratings
  - . . optical couplers
  - . . optical delay lines
  - . . optical fibres
  - . . optical films
  - . . optical filters
  - . . optical waveguides
- . optical fabrication
- . optical information processing
  - . . optical correlation

- . optical losses
- . optical modulation
- . . electro-optical modulation
- . . optical pulse compression
- . optical noise
- . . laser noise
- . optical pumping
- . optical resolving power
- . . image resolution
- . reflectivity

### **optoelectronics**

- . integrated optoelectronics
- . light emitting diodes
- . microwave photonics
- . photoelectric devices
- . . photoconducting devices
- . . . photodiodes
- . . . . avalanche photodiodes
- . . . . p-i-n photodiodes
- . . photodetectors

### **radar**

- . radar cross-sections
- . radar signal processing
- . radar theory
- . remote sensing by radar
- . synthetic aperture radar

### **radiowave propagation**

- . microwave propagation
- . millimetre wave propagation
- . UHF radio propagation

### **semiconductor devices**

- . field effect devices
- . . field effect transistors
- . . . high electron mobility transistors
- . . . . power HEMT

- . . . insulated gate field effect transistors
- . . . . MOSFET
- . . . microwave field effect transistors
- . . . millimetre wave field effect transistors
- . . . power field effect transistors
- . . . Schottky gate field effect transistors
- . . negative resistance devices
- . . resonant tunnelling diodes
- . power semiconductor devices
- . . microwave power transistors
- . semiconductor diodes
- . semiconductor lasers

### **semiconductors**

- . elemental semiconductors
- . II-VI semiconductors
- . III-V semiconductors
- . semiconductor growth
- . semiconductor quantum dots
- . semiconductor quantum wells
- . wide band gap semiconductors

### **signal processing**

- . adaptive signal processing
- . array signal processing
- . convolution
- . data compression
- . . vector quantisation
- . digital signal processing chips
- . image processing

- . pulse compression
- . . chirp modulation
- . . optical pulse compression
- . signal reconstruction
- . signal representation
- . signal sampling
- . video signal processing
- . . video coding

### **superconducting devices**

- . superconducting junction devices
- . . superconducting integrated circuits
- . . superconducting transistors
- . superconducting microwave devices

### **systems & control engineering**

- . control equipment
- . . switches
- . . . optical switches
- . . . . electro-optical switches
- . . . . photonic switching systems
- . control theory
- . . adaptive control
- . . compensation
- . . . motion compensation
- . . control system synthesis
- . . fuzzy control
- . systems engineering

### **ultrasonics**

- . ultrasonic applications
- . . ultrasonic bonding
- . ultrasonic devices
- . . ultrasonic delay lines
- . . ultrasonic transducers