



www.sciencedirect.com

select your interest

[all subject areas]

[all journals]

browse top 25 archive

Current: January to December 2011 full year

[show my alerts](#)

sign up now! for the e-mail alerts

e-mail address

You can sign-up to receive our free Top 25 email alerts. When you register, you can choose to receive alerts by subject or journal, and can subscribe to up to 10 once.

log in

e-mail address password

remember me on this computer

[forgotten password?](#)

[not register](#)

Tell other people about this service

[Contact Top 25 Team](#) [About the Top 25](#) [Sitemap](#)

Download the
SciVerse ScienceDirect
App today!
Available for iPhone,
iPad, Blackberry and
Android devices. [»](#)



Top 25 Hottest Articles

Infrared Physics & Technology

January to December 2011 full year

RSS Blog This! Print [Show condensed](#)



1. Recent progress in infrared detector technologies

Infrared Physics & Technology, Volume 54, Issue 3, May 2011, Pages 136-154
Rogalski, A.

Cited by SciVerse Scopus (5)

2. Infrared detectors: an overview

Infrared Physics & Technology, Volume 43, Issue 3-5, June 2002, Pages 187-210
Rogalski, A.

Cited by SciVerse Scopus (125)

3. Infrared image processing and data analysis

Infrared Physics & Technology, Volume 46, Issue 1-2, December 2004, Pages 75-83
Ibarra-Castanedo, C.; Gonzalez, D.; Klein, M.; Pilla, M.; Vallerand, S.; Malague, X.

Cited by SciVerse Scopus (27)

4. Terahertz and infrared detectors based on graphene structures

Infrared Physics & Technology, Volume 54, Issue 3, May 2011, Pages 302-305
Ryzhii, V.; Ryzhii, M.; Ryabova, N.; Mitin, V.; Otsuji, T.

Cited by SciVerse Scopus (3)

5. Colloidal quantum dot photodetectors

Infrared Physics & Technology, Volume 54, Issue 3, May 2011, Pages 278-282
Konstantatos, G.; Sargent, E.H.

6. Infrared image enhancement through contrast enhancement by using multiscale new top-hat transform

Infrared Physics & Technology, Volume 51, Issue 3, March 2011, Pages 61-69

Infrared Physics & Technology, volume 54, issue 2, March 2011, Pages 01-09

Bai, X.; Zhou, F.; Xue, B.

 Cited by SciVerse Scopus (3)

7. FTIR spectroscopy as a tool for nano-material characterization

Infrared Physics & Technology, Volume 53, Issue 6, November 2010, Pages 434-438

Baudot, C.; Tan, C.M.; Kong, J.C.

 Cited by SciVerse Scopus (5)

8. Infrared thermography on ocular surface temperature: A review • Review article

Infrared Physics & Technology, Volume 52, Issue 4, July 2009, Pages 97-108

Tan, J.H.; Ng, E.Y.K.; Rajendra Acharya, U.; Chee, C.

 Cited by SciVerse Scopus (16)

9. Energy gap-refractive index relations in semiconductors - An overview

Infrared Physics & Technology, Volume 50, Issue 1, March 2007, Pages 21-29

Ravindra, N.M.; Ganapathy, P.; Choi, J.

 Cited by SciVerse Scopus (19)

10. InAs/GaSb superlattice based long-wavelength infrared detectors: Growth, processing, and characterization

Infrared Physics & Technology, Volume 54, Issue 3, May 2011, Pages 247-251

Soibel, A.; Nguyen, J.; Hoglund, L.; Hill, C.J.; Ting, D.Z.; Keo, S.A.; Mumolo, J.M.; Lee, M.C.; Gunapala, S.D.

11. Design considerations for rectangular microstrip patch antenna on electromagnetic crystal substrate at terahertz frequency

Infrared Physics & Technology, Volume 53, Issue 1, January 2010, Pages 17-22

Singh, G.

 Cited by SciVerse Scopus (8)

12. Comparison of dipole, bowtie, spiral and log-periodic IR antennas

Infrared Physics & Technology, Volume 46, Issue 5, June 2005, Pages 418-428

Gonzalez, F.J.; Boreman, G.D.

 Cited by SciVerse Scopus (37)

13. Detection of pedestrians in far-infrared automotive night vision using region-growing and clothing distortion compensation

Infrared Physics & Technology, Volume 53, Issue 6, November 2010, Pages 439-449

OMalley, R.; Jones, E.; Glavin, M.

 Cited by SciVerse Scopus (1)

14. Automatic detection of defects on polyethylene pipe welding using thermal infrared imaging

Infrared Physics & Technology, Volume 54, Issue 4, July 2011, Pages 317-325

Kafieh, R.; Lotfi, T.; Amirfattahi, R.

 Cited by SciVerse Scopus (2)

15. Durable 3.5 @mm transmitting infrared window materials

Infrared Physics & Technology, Volume 39, Issue 4, June 1998, Pages 185-201

Harris, D.C.

 Cited by SciVerse Scopus (68)

16. A novel approach to fast noise reduction of infrared image

Infrared Physics & Technology, Volume 54, Issue 1, January 2011, Pages 1-9

Lin, C.L.; Kuo, C.W.; Lai, C.C.; Tsai, M.D.; Chang, Y.C.; Cheng, H.Y.

17. Applications of pulse heating thermography and lock-in thermography to quantitative nondestructive evaluations

Infrared Physics & Technology, Volume 43, Issue 3-5, June 2002, Pages 211-218

Sakagami, T.; Kubo, S.

 Cited by SciVerse Scopus (28)

18. Infrared small target detection based on the self-information map

Infrared Physics & Technology, Volume 54, Issue 2, March 2011, Pages 100-107

Deng, H.; Liu, J.

19. Detectability of infrared small targets

Infrared Physics & Technology, Volume 53, Issue 3, May 2010, Pages 208-217

Huang, K.; Mao, X.

 Cited by SciVerse Scopus (7)

20. Frequency and temperature dependence of the refractive index of sapphire

Infrared Physics & Technology, Volume 39, Issue 4, June 1998, Pages 235-249

Thomas, M.E.; Andersson, S.K.; Sova, R.M.; Joseph, R.I.

 Cited by SciVerse Scopus (25)

21. An approach to adaptive infrared image enhancement for long-range surveillance

Infrared Physics & Technology, Volume 54, Issue 2, March 2011, Pages 84-91

Lin, C.L.

 Cited by SciVerse Scopus (1)

22. InAs/GaSb superlattice technology

Infrared Physics & Technology, Volume 54, Issue 3, May 2011, Pages 237-242

Rutz, F.; Rehm, R.; Walther, M.; Schmitz, J.; Kirste, L.; Worl, A.; Masur, J.M.; Scheibner, R.; Ziegler, J.

 Cited by SciVerse Scopus (1)

23. High-temperature infrared properties of sapphire, AION, fused silica, yttria, and spinel

Infrared Physics & Technology, Volume 39, Issue 4, June 1998, Pages 251-261

Sova, R.M.; Linevsky, M.J.; Thomas, M.E.; Mark, F.F.

 Cited by SciVerse Scopus (21)

24. Antimonide superlattice complementary barrier infrared detector (CBIRD)

Infrared Physics & Technology, Volume 54, Issue 3, May 2011, Pages 267-272

Ting, D.Z.Y.; Soibel, A.; Hill, C.J.; Nguyen, J.; Keo, S.A.; Rafol, S.B.; Yang, B.; Lee, M.C.; Mumolo, J.M.; Liu, J.K.; Hoglund, L.; Gunapala, S.D.

 Cited by SciVerse Scopus (2)

25. Square pulse thermography in frequency domain as adaptation of pulsed phase thermography for qualitative and quantitative applications in cultural civil engineering

Infrared Physics & Technology, Volume 53, Issue 4, July 2010, Pages 246-253

Arndt, R.W.

 Cited by SciVerse Scopus (1)

 Cited by SciVerse Scopus (1)

Copyright © 2010 Elsevier B.V. All rights reserved. SciVerse ScienceDirect® is a registered trademark of Elsevier B.V.

[Terms & Conditions](#) | [Privacy Policy](#)