

CRCnetBASE



The Best Science, Technology & Medical eBook Collection You Can Build

User Guide for Individuals

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Overview

- 1 Starting at www.crcnetbase.com, you will see the homepage. If you are accessing through your library, you will see the University or library's name beside "**Access Provided by**"
- 2 If the "**Full Access Content only**" box is checked, you will only see content you can access when browsing and searching

The screenshot shows the CRCnetBASE homepage. At the top left is the CRCnetBASE logo. To its right is a checkbox labeled "Full Access Content Only" which is checked, with the text "Access provided by Taylor and Francis Asia Pacific" below it. Further right is a search bar with a "Go" button and a link to "Advanced Search". In the top right corner, there are links for "Mobile", "My Account", and "Log Out", along with a "Welcome, Isrin Johar" message. A navigation bar below the header contains links: Home, Browse Content, Advanced Search, About CRCnetBASE, Subject Collections, How to Subscribe, Librarian Resources, News & Events, and Free Trial. The main content area features the "SCI-TECHnetBASE" title and a description of the repository. Below this is a "Subject Areas" list. On the right side, there are three promotional boxes: "View our Virtual Catalog", "Follow Us On Facebook!", and "FREE TRIALS". At the bottom, there are links for "Terms and Conditions", "Privacy Policy", "Help", "Site Map", and "Contact Us", along with "CRC Press" and "Resource Center" logos. A copyright notice is at the very bottom.

CRCnetBASE 2 ☒ Full Access Content Only 1
Access provided by Taylor and Francis Asia Pacific

Mobile My Account Log Out
Search Go
Advanced Search
Welcome, Isrin Johar

Home Browse Content Advanced Search About CRCnetBASE Subject Collections How to Subscribe Librarian Resources News & Events Free Trial

SCI-TECHnetBASE

Our most complete repository of scientific and technical information, **SCI-TECHnetBASE** is the ultimate product for online research. It includes our entire line of science and technical books. With more than 6,600 online volumes and growing, this collection is designed to meet the needs of libraries with diverse patronage. Users can conduct sophisticated searches across the entire site or by sub-discipline.

Subject Areas

- Agriculture & Agronomy
- Biomedical Science
- Chemical Engineering
- Chemistry
- Clean Technology
- Computer Science
- Engineering
- Environmental Science
- Ergonomics & Human Factors
- Food Science
- Forensics & Criminal Justice
- Geotechnical Engineering
- Healthcare
- Information Technology
- Life Science
- Material Science
- Mathematics
- Nanotechnology
- Neuroscience
- Nutrition
- Pharmaceutical Science & Regulation
- Physics
- Statistics
- Tribology
- Water Science

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[Subscription Information](#)

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CRC Press Resource Center

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Overview

- 1 You can begin general searches here or click on *"Advanced Search"* below the search bar for searches with more detailed information
- 2 If you have not registered yet, click here to register before beginning your research
- 3 You can start to browse content by choosing one of the subject areas here or click on *"Browse Content"* in the navigation bar

The screenshot displays the CRCnetBASE website. At the top, the logo 'CRCnetBASE' is on the left, followed by a checkbox for 'Full Access Content Only' and the text 'Access provided by Taylor and Francis Asia Pacific'. On the right, there are links for 'Mobile', 'Register', and 'Log In'. A search bar with a 'Go' button is also present. Below the search bar, a welcome message reads 'Welcome, Isrin Johar'. A navigation bar contains links: 'Home', 'Browse Content', 'Advanced Search', 'About CRCnetBASE', 'Subject Collections', 'How to Subscribe', 'Librarian Resources', 'News & Events', and 'Free Trial'. The main content area is titled 'Science, Technology, and Medical eBooks from Taylor & Francis Group'. It includes a paragraph about getting started, a quote from a Library Journal, and a description of the service. A 'Browse Content' section lists various subject areas: Agriculture, Biomedical Science, Business & Management, Chemistry, Computer Game Development, Computer Science & Engineering, Economics, Energy & Clean Technology, Engineering - Chemical, Engineering - Civil, Engineering - Electrical, Engineering - Environmental, Engineering - General, Engineering - Industrial & Manufacturing, Engineering - Mechanical, Engineering - Mining, Environmental Science, and Ergonomics & Human Factors. On the right side, there are three promotional boxes: 'Looking for CHEMnetBASE?' with a link to chemnetbase.com, 'View our Virtual Catalog' with a right arrow, 'Follow Us On Facebook!' with a Facebook icon and a right arrow, and 'FREE TRIALS' with a right arrow and the text 'Available to libraries for all subject collections'.

1

2

3

Registration

1 Fill in your information here and click "Register"

2 You can now login

CRCnetBASE ☐ Full Access Content Only

Mobile Register Log In

Search Go
[Advanced Search](#)

Home | Browse Content | Advanced Search | About CRCnetBASE | Subject Collections | How to Subscribe | Librarian Resources | News & Events | Free Trial

Register

First Name

Last Name

Email Address

Email Address Confirmation

Password

Password Confirmation

☐ Send me information about updates and new products and services.

If you have been issued with a Promo Code, please enter it here:

Promo Code:

By clicking the Register button below, I agree to the [Terms and Conditions](#) of Taylor and Francis Group, LLC.

Register

Benefits of Registration

Registered users can benefit from various additional functions:

- Save and Manage Searches
- Add chapters and book content to personal bookshelf
- Purchase single chapters

Log In

Email Address

Password

☐ Remember me on this computer.

[Forgot password?](#)

Log In

Institutional Login

[Shibboleth](#)

[Athens](#)

Terms and Conditions | Privacy Policy | Help | Site Map | Contact Us

CRC Press | Resource Center

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Registration

1

You will now see “Welcome” and then your name

The screenshot displays the CRCnetBASE website interface. At the top, the CRCnetBASE logo is visible, along with a checkbox for "Full Access Content Only" and a note "Access provided by Taylor and Francis Asia Pacific". Navigation links include Home, Browse Content, Advanced Search, About CRCnetBASE, Subject Collections, How to Subscribe, Librarian Resources, News & Events, and Free Trial. A search bar with a "Go" button is present. A blue circle with the number "1" highlights the "Welcome, Isrin Johar" message in the top right corner. The main content area features a section titled "Science, Technology, and Medical eBooks from Taylor & Francis Group" with a welcome message and a list of subject categories. On the right, there are promotional banners for "View our Virtual Catalog", "Follow Us On Facebook!", and "FREE TRIALS".

CRCnetBASE ☒ Full Access Content Only
Access provided by Taylor and Francis Asia Pacific

Mobile My Account Log Out

Search Go
Advanced Search

1 Welcome, Isrin Johar

Home | Browse Content | Advanced Search | About CRCnetBASE | Subject Collections | How to Subscribe | Librarian Resources | News & Events | Free Trial

Science, Technology, and Medical eBooks from Taylor & Francis Group

Not sure where to get started? [Watch our new tutorial](#) on how to use all the best features on CRCnetBASE!

"... well crafted with rich content, phenomenal speed, and intelligent navigational features. ...the superbly clear tips woven throughout make it easy. ... highly recommended for all libraries serving serious scientific researchers." -Library Journal

CRCnetBASE offers instant access to the world's premier scientific, technical and medical references with added support for libraries. Our subject collections are designed to meet the individualized needs of any sized library or institution. 30-day free trials are available to all qualifying academic, corporate, and government customers.

Click on the categories below to browse the e-books within each subject collection.

Browse Content

- Agriculture
- Biomedical Science
- Business & Management
- Chemistry
- Computer Game Development
- Computer Science & Engineering
- Economics
- Energy & Clean Technology
- Engineering - Chemical
- Engineering - Civil
- Engineering - Electrical
- Engineering - Environmental
- Engineering - General
- Engineering - Industrial & Manufacturing
- Engineering - Mechanical
- Engineering - Mining
- Environmental Science
- Ergonomics & Human Factors
- Food Science & Culinary Science
- Forensics & Criminal Justice

Looking for CHEMnetBASE?

CHEMnetBASE continues to be hosted at chemnetbase.com. The e-books from CHEMLIBnetBASE can be found here on the new crcnetbase.com

View our Virtual Catalog

Follow Us On Facebook!

FREE TRIALS
Available to libraries for all subject collections

Browsing

1 You can start to browse content by choosing one of the subject areas here or click on *"Browse Content"* in the navigation bar.

Let's click on Biomedical Science

added support for libraries. Our subject collections are designed to meet the individualized needs of any sized library or institution. 30-day free trials are available to all qualifying academic, corporate, and government customers.

Click on the categories below to browse the e-books within each subject collection.

Browse Content

| |
|--|
| Agriculture |
| Biomedical Science 1 |
| Business & Management |
| Chemistry |
| Computer Game Development |
| Computer Science & Engineering |
| Economics |
| Energy & Clean Technology |
| Engineering - Chemical |
| Engineering - Civil |
| Engineering - Electrical |
| Engineering - Environmental |
| Engineering - General |
| Engineering - Industrial & Manufacturing |
| Engineering - Mechanical |
| Engineering - Mining |
| Environmental Science |
| Ergonomics & Human Factors |
| Food Science & Culinary Science |
| Forensics & Criminal Justice |
| Geoscience |
| Healthcare |
| Homeland Security |
| Information Technology |
| Life Science |
| Material Science |
| Math |

View our Virtual Catalog >

Follow Us On Facebook! > f

FREE TRIALS >
Available to libraries for all subject collections

Browsing

- 1 You will now see "Biomedical Science", and in parenthesis the total number of books
- 2 You will also see the sub-categories of "Biomedical Science" and how many books are in each sub-category
- 3 The list of books appear here alphabetically

The screenshot shows the CRCnetBASE website interface. At the top, there is a navigation bar with links like Home, Browse Content, Advanced Search, etc. The main content area is titled 'Browse Content'. On the left, under the 'Subject' heading, there is a list of subjects. 'Biomedical Science (907)' is highlighted with a blue circle and the number 1. Below it, a list of sub-categories is shown, with 'Biomedical Science (907)' highlighted with a blue circle and the number 2. On the right, under the 'Title' heading, there is a list of books. The first book is '100 Cases in Radiology', which is highlighted with a blue circle and the number 3. The list of books is sorted alphabetically, as indicated by the 'All Titles' button being selected.

CRCnetBASE ☒ Full Access Content Only
Access provided by Taylor and Francis Asia Pacific

Search [Advanced Search](#)

Welcome, Isrin Johar

Home | Browse Content | Advanced Search | About CRCnetBASE | Subject Collections | How to Subscribe | Librarian Resources | News & Events | Free Trial

Browse Content

Subject

- ▼ All Subjects (8796)
 - ▶ Agriculture (361)
 - ▼ **Biomedical Science (907)**
 - Bioinformatics (54)
 - Biomedical Engineering (264)
 - Biomedical Imaging (72)
 - Biostatistics (45)
 - Biotechnology (99)
 - Epidemiology (22)
 - Immunology (39)
 - Medical Devices (12)
 - Neuropsychology (43)
 - Neuroscience (165)
 - Pharmacology (128)
 - Toxicology (138)
 - ▶ Business & Management (681)
 - ▶ Chemistry (1137)
 - ▶ Computer Game Development (37)
 - ▶ Computer Science & Engineering (602)
 - ▶ Economics (2)
 - ▶ Energy & Clean Technology (291)
 - ▶ Engineering - Chemical (273)
 - ▶ Engineering - Civil (646)
 - ▶ Engineering - Electrical (1240)
 - ▶ Engineering - Environmental (187)
 - ▶ Engineering - General (269)
 - ▶ Engineering - Industrial & Manufacturing (375)
 - ▶ Engineering - Mechanical (577)
 - ▶ Engineering - Mining (53)
 - ▶ Environmental Science (831)
 - ▶ Ergonomics & Human Factors (236)
 - ▶ Food Science & Culinary Science (479)
 - ▶ Forensics & Criminal Justice (442)
 - ▶ Geoscience (52)
 - ▶ Healthcare (223)
 - ▶ Homeland Security (156)
 - ▶ Information Technology (734)
 - ▶ Life Science (969)
 - ▶ Material Science (615)
 - ▶ Math (712)
 - ▶ Medicine (784)

Title

☒ All Titles ☐ Starts with 0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Showing: 1-30 of 907 1 2 3 4 5 6 7 8 9 10 11

- 100 Cases in Radiology
- 3D Cell-Based Biosensors in Drug Discovery Programs, Microtissue Engineering for High Throughput Screening
- Absorbable and Biodegradable Polymers
- Adaptive and Flexible Clinical Trials
- Adaptive Design Methods in Clinical Trials, Second Edition
- Adaptive Design Methods in Clinical Trials
- Adaptive Motion Compensation in Radiotherapy
- Adaptive Optics for Biological Imaging
- Adenosine Receptors, Therapeutic Aspects for Inflammatory and Immune Diseases
- Adhesion Molecules
- Adrenal Toxicology
- Advanced Bioactive Inorganic Materials for Bone Regeneration and Drug Delivery
- Advanced Biophotonics, Tissue Optical Sectioning
- Advanced Electroporation Techniques in Biology and Medicine
- Advanced Materials for Joint Implants
- Advanced Pharmaceuticals, Physicochemical Principles
- Advances in Biopreservation
- Advances in Chromatographic Techniques for Therapeutic Drug Monitoring
- Advances in Clinical Trial Biostatistics
- Advances in Natural Medicines, Nutraceuticals and Neurocognition
- Advances in Numerical Heat Transfer, Volume 3
- Advances in Spinal Fusion, Molecular Science, BioMechanics, and Clinical Management
- Advances in the Neuroscience of Addiction
- Advances in Therapeutic Engineering
- Advances in Vagal Afferent Neurobiology
- Aflatoxin and Food Safety
- Air Pollutants and the Respiratory Tract, Second Edition
- Alternative Toxicological Methods

General Search

- 1 Let's start with a general search for "laser" and click "Go" or press enter

The screenshot displays the CRCnetBASE website interface. At the top, the logo "CRCnetBASE" is visible, along with a navigation bar containing links like Home, Browse Content, Advanced Search, About CRCnetBASE, Subject Collections, How to Subscribe, Librarian Resources, News & Events, and Free Trial. A search bar in the top right corner contains the text "laser" and a "Go" button. Below the search bar, a list of search results is displayed, including titles like "Extra-Ordinary' Ergonomics, How to Accommodate Small and Big Persons, The Disabled and Elderly, Expectant Mothers, and Children" and "100 Cases in Clinical Ethics and Law".

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Access provided by Taylor and Francis Asia Pacific

Mobile My Account Log Out

Search Go
[Advanced Search](#)

Welcome, Isrin Johar

Home Browse Content Advanced Search About CRCnetBASE Subject Collections How to Subscribe Librarian Resources News & Events Free Trial

Browse Content

Subject

- ▼ All Subjects (8796)
 - Agriculture (361)
 - ▼ Biomedical Science (907)
 - Bioinformatics (54)
 - Biomedical Engineering (264)
 - Biomedical Imaging (72)
 - Biostatistics (45)
 - Biotechnology (99)
 - Epidemiology (22)
 - Immunology (39)
 - Medical Devices (12)
 - Neuropsychology (43)
 - Neuroscience (165)
 - Pharmacology (128)
 - Toxicology (138)
 - Business & Management (681)
 - Chemistry (1137)
 - Computer Game Development (37)
 - Computer Science & Engineering (602)
 - Economics (2)
 - Energy & Clean Technology (291)
 - Engineering - Chemical (273)
 - Engineering - Civil (646)
 - Engineering - Electrical (1240)
 - Engineering - Environmental (187)
 - Engineering - General (269)
 - Engineering - Industrial & Manufacturing (375)
 - Engineering - Mechanical (577)
 - Engineering - Mining (53)
 - Environmental Science (831)
 - Ergonomics & Human Factors (236)
 - Food Science & Culinary Science (479)
 - Forensics & Criminal Justice (442)
 - Geoscience (52)
 - Healthcare (223)
 - Homeland Security (156)
 - Information Technology (734)
 - Life Science (969)
 - Material Science (515)

Title

☒ All Titles ☐ Starts with 0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Showing: 1-30 of 8796 1 2 3 4 5 6 7 8 9 10 11

- 'Extra-Ordinary' Ergonomics, How to Accommodate Small and Big Persons, The Disabled and Elderly, Expectant Mothers, and Children
- .NET 4 for Enterprise Architects and Developers
- 10 Essentials for High Performance Quality in the 21st Century
- The 10-Step Method of Stress Relief, Decoding the Meaning and Significance of Stress
- 100 Cases in Clinical Ethics and Law
- 100 Cases in Orthopaedics and Rheumatology
- 100 Cases in Radiology
- 100 Cases in Surgery
- 100 Years of Superconductivity
- 101 Investment Tools for Buying Low & Selling High
- 10th Symposium Construction Innovation and Global Competitiveness
- 11th US/North American Mine Ventilation Symposium 2006, Proceedings of the 11th US/North American Mine Ventilation Symposium, 5-7 June 2006, Pennsylvania, USA
- The 12 Principles of Manufacturing Excellence, A Leader's Guide to Achieving and Sustaining Excellence
- 2-D Electromagnetic Simulation of Passive Microstrip Circuits
- 21 CFR Part 11, Complete Guide to International Computer Validation Compliance for the Pharmaceutical Industry
- 21st Century Security and CPTED, Designing for Critical Infrastructure Protection and Crime Prevention
- 21st Century Security and CPTED, Designing for Critical Infrastructure Protection and Crime Prevention, Second Edition
- 2D Graphics Programming for Games
- The 3-D Global Spatial Data Model, Foundation of the Spatial Data Infrastructure
- 3D Cadastre in an International Context, Legal, Organizational, and Technological Aspects
- 3D Cell-Based Biosensors in Drug Discovery Programs, Microtissue Engineering for High Throughput Screening
- 3D Integration for VLSI Systems
- 3D Math Primer for Graphics and Game Development, 2nd Edition

General Search

- 1 You can see any book titles with “Laser” in the title
- 2 The results show chapters that fit your search
- 3 A green checkmark means you have access to this chapter. A red lock means you do not have access

The screenshot displays an 'Advanced Search' interface. On the left, the 'Search Criteria' section includes fields for 'Full text' (containing 'laser'), 'Book/Chapter Title', 'Author (by Chapter)', and 'ISBN/DOI'. Below these are 'Publication Dates' (Between: Year and Year) and 'Subjects (by Chapter)' with a list of categories like Agriculture, Biomedical Science, Business & Management, Chemistry, Clean Tech, Computer Game Development, Computer Science & Engineering, Economics, Engineering - Chemical, Engineering - Civil, Engineering - Electrical, Engineering - Environmental, Engineering - General, Engineering - Industrial & Manufacturing, Engineering - Mechanical, Engineering - Mining, Environmental, Forensics & Criminal Justice, Geoscience, Healthcare, Homeland Security, Information Technology, Life Science, Material Science, Math, Medicine, Nanoscience & Technology, Nutrition, Occupational Health & Safety, Pharmaceutical Science & Regulation, Physics, Polymer Science, Public Administration & Public Policy, Social Sciences, Statistics, and Water Science & Engineering. The 'Search' button is highlighted. On the right, the 'Search Results' section shows 'Showing: 1-20 of 15544' results, sorted by 'Relevancy'. The results list includes 'Part VI. Nanoscale Lasers', 'Chapter 24. ANSI Safe Use of Lasers and Laser Safety', 'Chapter 30. Gas lasers', 'Part 1. Innovative approaches in laser cleaning researches and instrumentation development', and 'Chapter 41. Fibre and waveguide lasers'. Each result entry has a green checkmark icon, indicating access. The interface also includes a 'Select All Results' button and links for 'View Abstracts', 'Add to Bookshelf', 'Email', and 'Download to Citation Mgr'.

General Search

1

Let's open one of the PDF files for the first chapter shown.

Abstract is the first page of the chapter.

"PDF w/links" has linked references to original content referenced in the chapter.

The screenshot displays a search interface with two main panels: 'Search Criteria' on the left and 'Search Results' on the right.

Search Criteria Panel:

- General Search:** Includes input fields for 'Full text' (containing 'laser'), 'Book/Chapter Title', 'Author (by Chapter)', and 'ISBN/DOI'. Each field has an 'And' dropdown menu.
- Publication Dates:** Includes 'Between: Year' and 'Year' dropdowns.
- Subjects (by Chapter):** A list of subjects with checkboxes, including Agriculture, Biomedical Science, Business & Management, Chemistry, Clean Tech, Computer Game Development, Computer Science & Engineering, Economics, Engineering - Chemical, Engineering - Civil, Engineering - Electrical, Engineering - Environmental, Engineering - General, Engineering - Industrial & Manufacturing, Engineering - Mechanical, Engineering - Mining, Environmental Science, Forensics & Criminal Justice, Geoscience, Healthcare, Homeland Security, Information Technology, Life Science, Material Science, Math, Medicine, Nanoscience & Technology, Nutrition, Occupational Health & Safety, Pharmaceutical Science & Regulation, Physics, Polymer Science, Public Administration & Public Policy, Social Sciences, Statistics, and Water Science & Engineering. There are 'Select All' and 'Clear All' links.

Search Results Panel:

- Search Results:** Includes 'Sort by' (Relevancy) and 'Results Per Page' (20) dropdowns.
- Chapters:** A tab labeled 'Chapters' is selected.
- Showing:** 1-20 of 15544. Includes a pagination bar with numbers 1 through 11 and 'Next' and 'Previous' buttons.
- Actions:** Links for 'View Abstracts', 'Add to Bookshelf', 'Email', and 'Download to Citation Mgr'.
- Select All Results:** A checkbox labeled 'Select All Results'.
- Results:** A list of search results, each with a checkbox, a green checkmark, and a title. The first result is highlighted with a blue circle containing the number 1.
 - Part VI. Nanoscale Lasers:** Handbook of Nanophysics Nanoelectronics and Nanophotonics. Pages 1-1. Abstract Hi-Res PDF (998 KB) PDF w/links (999 KB).
 - Chapter 24. ANSI Safe Use of Lasers and Laser Safety:** Ken Barat Laser Safety Tools and Training. Pages 355-356. Abstract Hi-Res PDF (352 KB) PDF w/links (353 KB).
 - Chapter 30. Gas lasers:** Julian Jones Handbook of Laser Technology and Applications (Three- Volume Set). Pages 749-750. Abstract Hi-Res PDF (75 KB) PDF w/links (76 KB).
 - Part 1. Innovative approaches in laser cleaning researches and instrumentation development:** Lasers in the Conservation of Artworks VIII. Pages 7-7. Abstract Hi-Res PDF (27 KB) PDF w/links (28 KB).
 - Chapter 41. Fibre and waveguide lasers:** R. C. Powell Handbook of Laser Technology and Applications (Three- Volume Set). Pages 961-961.

Inside a Book Chapter

- 1 Use this navigation to move between chapters and the table of contents
- 2 Here is the Open PDF
- 3 Use the print icon to print the PDF or the disk icon to save the file to your computer

The screenshot displays the 'Handbook of Nanophysics' website interface. On the left, a sidebar contains a book cover image and a search section with 'Simple Search' and 'Advanced Search' options, along with radio buttons for 'All books', 'This series', and 'This book'. The main content area at the top features a navigation bar with links for 'Previous Chapter', 'Next Chapter', and 'Table of Contents', along with icons for 'Add to Bookshelf', 'Email', and 'Download to Citation Mgr'. Below this, the title 'Part VI. Nanoscale Lasers' is prominently displayed. A 'Citation Information' section provides details about the book's editors, publisher, and ISBNs. A toolbar with various icons (print, save, zoom, etc.) is visible above the PDF content. The PDF itself shows the title 'VI Nanoscale Lasers' and a detailed table of contents for the chapter, listing sections like 'Nanolasers', 'Quantum Dot Laser', and 'Mode-Locked Quantum-Dot Lasers' with their respective page numbers.

Inside a Book Chapter

- 1 Use the print icon to print the PDF or the disk icon to save the file to your computer
- 2 You can add this chapter to your personal bookshelf here. Let's do that now.

Handbook of Nanophysics

Part VI. Nanoscale Lasers

Citation Information
Nanoelectronics and Nanophotonics
Edited by Klaus D. Sattler Edited by Klaus D. Sattler
CRC Press 20102010
Pages 1-1
Print ISBN: 978-1-4200-7550-2
eBook ISBN: 978-1-4200-7551-9

[Abstract](#) [PDF w/links \(998.7 KB\)](#)

Search
Simple Search Advanced Search
All books
This series
This book
Search

Handbook of Nanophysics

[Previous Chapter](#) | [Next Chapter](#) | [Table of Contents](#) [Add to Bookshelf](#) [Email](#) [Download to Citation Mgr](#)

Part VI. Nanoscale Lasers

VI

Nanoscale Lasers

30 **Nanolasers** *Marek S. Wróbel*..... 30-1
Introduction: Properties of Laser Radiation • Overview of Lasers • Semiconductor Lasers • Rate Equation Approach • Definition of Nanolaser • Nanowire Lasers • Plasmonic Lasers • Photonic Crystal Lasers • Scattering Lasers • Organic Nanolasers • Applications • Conclusions • Acknowledgment • References

40 **Quantum Dot Laser** *Frank Jahnke*..... 40-1
Introduction • Electronic States of Quantum Dots • Scattering Processes of Carriers in Quantum Dots • Optical Gain of the Active Material • Laser Emission Properties • Acknowledgments • References

41 **Mode-Locked Quantum-Dot Lasers** *Maria A. Catalano and Erik G. Ruffalo*..... 41-1
Introduction • Ultrafast Laser Diodes • Quantum Dots: Distinctive Advantages for Ultrafast Diode Lasers • Mode-Locked Quantum-Dot Laser: State of the Art • Summary and Outlook • Acknowledgments • References

Personalized Bookshelf

- 1 Here is my bookshelf. Here you can sort by chapter title, book title, and date of publication

1

My Account **My Bookshelf** Access Site editing Institutional administration

Browse your favorite chapters below. You may sort your favorites by:

☒ Chapter title ☐ Book title ☐ Date of publication

Favorite Chapters

↶ Email | View Abstracts | Download to Citation Mgr

☐ To select/unselect all items click here

Access Indicator: **Free**=Free ✓=Full 🚫=No Access

- ☐ ✓ **Chapter 1. 3D Integration Technology – Introduction and Overview**
3D Integration for VLSI Systems
[Abstract](#) | [Remove](#)
- ☐ ✓ **Chapter 16. Aerosol and Stone Monuments**
Aerosol Chemical Processes in the Environment
[Abstract](#) | [Remove](#)
- ☐ ✓ **Chapter 1. Aerosol Chemistry and Its Environmental Effects**
Aerosol Chemical Processes in the Environment
[Abstract](#) | [Remove](#)
- ☐ ✓ **Chapter 7. Afghanistan and the Global Environment**
11 September 2001
[Abstract](#) | [Remove](#)
- ☐ ✓ **Chapter 2. Aliphatic Nitrocompounds as Versatile Building Blocks for the One-Pot Processes**
Green Chemistry for Environmental Sustainability
[Abstract](#) | [Remove](#)
- ☐ ✓ **Chapter 3. Analysis of Passive Microstrip Circuits**
2-D Electromagnetic Simulation of Passive Microstrip Circuits
[Abstract](#) | [Remove](#)
- ☐ ✓ **Chapter 24. ANSI Safe Use of Lasers and Laser Safety**
Laser Safety
[Abstract](#) | [Remove](#)
- ☐ ✓ **Chapter 14. Barbarians**
11 September 2001
[Abstract](#) | [Remove](#)
- ☐ ✓ **Chapter 17. Calcium in the Urban Atmosphere**
Aerosol Chemical Processes in the Environment
[Abstract](#) | [Remove](#)

Email to a Friend

- 1 We also have the option of e-mailing this article to a colleague. Let's click on this option.

The screenshot displays the 'Handbook of Nanophysics' website interface. On the left, there is a sidebar with a book cover image and a search bar. The main content area shows the title 'Part VI. Nanoscale Lasers' and 'Citation Information'. Below this, there are links for 'Abstract' and 'PDF w/links (998.7 KB)'. A blue circle with the number '1' highlights the 'Email' link in the top right corner. The bottom section of the page shows a large 'VI' and the title 'Nanoscale Lasers'.

Handbook of Nanophysics

Handbook of Nanophysics

Previous Chapter | Next Chapter | Table of Contents

Add to Bookshelf | Email | Download to Citation Mgr

Part VI. Nanoscale Lasers

Citation Information
Nanoelectronics and Nanophotonics
Edited by Klaus D. Sattler Edited by Klaus D. Sattler
CRC Press 20102010
Pages 1-1
Print ISBN: 978-1-4200-7550-2
eBook ISBN: 978-1-4200-7551-9

Abstract PDF w/links (998.7 KB)

VI-1 (1 of 1)

Find

Bookmarks

Part VI: Nanoscale Lasers

VI

Nanoscale Lasers

39 Nanolasers Marc S. Würl... 39 |
Introduction: Properties of Laser Radiation • Overview of Lasers • Semiconductor Lasers • Rate Equation Approach • Definition of Nanolaser • Nanowire Lasers • Plasmonic Lasers • Photonic Crystal Lasers • Scattering Lasers • Organic Nanolasers • Applications • Conclusions • Acknowledgments • References

40 Quantum Dot Laser Frank Jahnke... 40 |
Introduction • Electronic States of Quantum Dots • Scattering Processes of Carriers in Quantum Dots • Optical Gain of the Active Material • Laser Emission Properties • Acknowledgments • References

41 Mode-Locked Quantum-Dot Lasers Maria A. Catalano and Erik C. Refell... 41 |
Introduction • Ultrafast Laser Diodes • Quantum Dots: Distinctive Advantages for Ultrafast Diode Lasers • Mode-Locked Quantum-Dot Lasers: State of the Art • Summary and Outlook • Acknowledgments • References

Email to a Friend

- 1 Here you choose whom to e-mail this article and compose your personal message. Your friend's access to the article will be determined by whether they or their institution has access to this chapter

1

Email to a Friend

Email a friend or colleague a link to the following publication(s):
[Nanoscale Lasers](#)

Your name:

Ned Netbase

Your email address:

Email to:

Please separate multiple emails with commas

Enter email subject

Interesting publication from CRCnetBASE

Personal Message (optional):

I thought you might be interested in the following publication(s).

☐ Send me a copy of this email.

Type the two words you see in the picture below:

(fern) liescal

Type the two words:

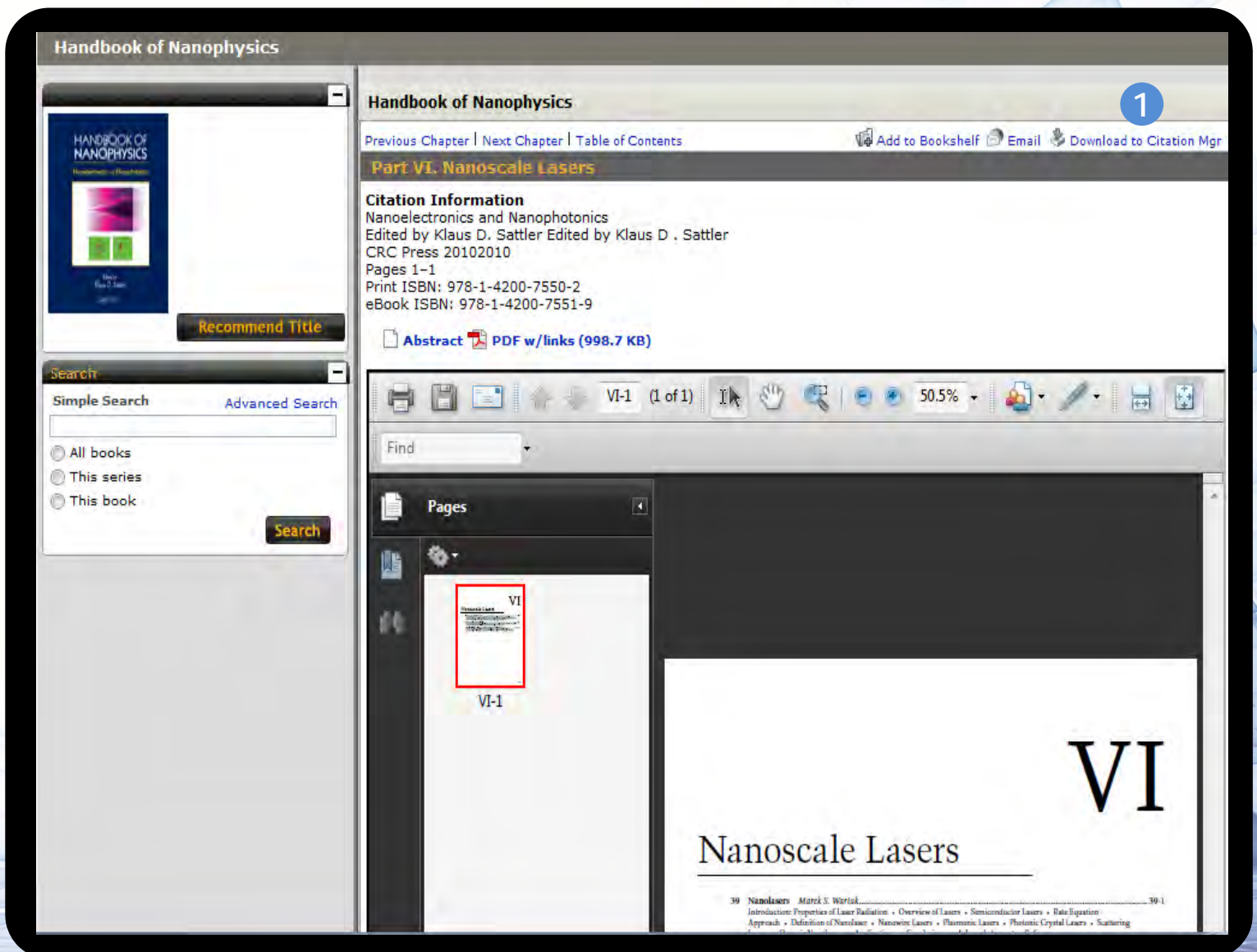
reCAPTCHA™ stop spam read books

Send

The e-mail addresses that you supply to use this service will only be used for sending this message.

Download to Citation Manager

- 1 You can use this link to download to citation manager. This allows you to send this information to any citation manager program



Advanced Search

- 1 The advanced search page allows you to search using all of these options including book pub dates as well as subject categories

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Advanced Search

Search Criteria

General Search

Full text

Book/Chapter Title

Author (by Chapter)

ISBN/DOI

Publication Dates

Between: Year and Year

Subjects (by Chapter)

[Select All](#) | [Clear All](#)

| | |
|--|---|
| <input checked="" type="checkbox"/> Agriculture | <input checked="" type="checkbox"/> Geoscience |
| <input checked="" type="checkbox"/> Biomedical Science | <input checked="" type="checkbox"/> Healthcare |
| <input checked="" type="checkbox"/> Business & Management | <input checked="" type="checkbox"/> Homeland Security |
| <input checked="" type="checkbox"/> Chemistry | <input checked="" type="checkbox"/> Information Technology |
| <input checked="" type="checkbox"/> Computer Game Development | <input checked="" type="checkbox"/> Life Science |
| <input checked="" type="checkbox"/> Computer Science & Engineering | <input checked="" type="checkbox"/> Material Science |
| <input checked="" type="checkbox"/> Economics | <input checked="" type="checkbox"/> Math |
| <input checked="" type="checkbox"/> Energy & Clean Technology | <input checked="" type="checkbox"/> Medicine |
| <input checked="" type="checkbox"/> Engineering - Chemical | <input checked="" type="checkbox"/> Nanoscience & Technology |
| <input checked="" type="checkbox"/> Engineering - Civil | <input checked="" type="checkbox"/> Nutrition |
| <input checked="" type="checkbox"/> Engineering - Electrical | <input checked="" type="checkbox"/> Occupational Health & Safety |
| <input checked="" type="checkbox"/> Engineering - Environmental | <input checked="" type="checkbox"/> Pharmaceutical Science & Regulation |
| <input checked="" type="checkbox"/> Engineering - General | <input checked="" type="checkbox"/> Physics |
| <input checked="" type="checkbox"/> Engineering - Industrial & Manufacturing | <input checked="" type="checkbox"/> Polymer Science |
| <input checked="" type="checkbox"/> Engineering - Mechanical | <input checked="" type="checkbox"/> Public Administration & Public Policy |
| | <input checked="" type="checkbox"/> Social Sciences |
| | <input checked="" type="checkbox"/> Statistics |
| | <input checked="" type="checkbox"/> Veterinary Medicine |

Search Tips

Tips for Using Advanced Search

To search content to which you subscribe to, make sure you have checked the full access content only box.

Boolean Operators
Within the search fields, the Boolean Operators AND (also + or &), OR, and NOT (also -) allow you to perform searches that specify logical relationships between terms. By default, i.e. if you do not use an operator, an AND-relationship between the terms you enter is established in the full text field.

Wildcards
Wildcards allow you to construct a query with approximate search terms. Use a question mark (?) in a search term to represent any one character and use an asterisk (*) to represent zero or more characters. There are two limitations of wildcards: You cannot use a wildcard at the beginning of a search term or in a phrase enclosed in quotation marks.

Phrases
To search for documents containing an exact phrase, enclose the phrase in quotation marks. Phrase searches will not treat AND, OR, and NOT as Boolean Operators and will not strip out stop words.

Stop words
Stop words are such words as articles, pronouns, and other frequently used terms that don't normally add value to a search. These words are stripped out of a search query if they are not part of an exact phrase.

Grouping
To group subsets of terms, use parentheses around the terms you want to group. The search engine will evaluate terms within parentheses before evaluating the remaining terms.

Stemming
To enable stemming for a term, follow it with a hash mark (#).

Proximity
To search for documents containing two or more terms within a certain distance of each other, put quotation marks around the terms followed by a tilde (~) and a number to indicate the maximum number of words apart the terms can be.

Advanced Search

- 1 At the bottom of the advanced search screen you can save searches and choose how often to be updated by e-mail when new results for your search terms appear on CRCnetBASE
- 2 You can also see your search history for the current session by clicking here

| | |
|--|---|
| <input checked="" type="checkbox"/> Chemistry | <input checked="" type="checkbox"/> Technology |
| <input checked="" type="checkbox"/> Computer Game Development | <input checked="" type="checkbox"/> Life Science |
| <input checked="" type="checkbox"/> Computer Science & Engineering | <input checked="" type="checkbox"/> Material Science |
| <input checked="" type="checkbox"/> Economics | <input checked="" type="checkbox"/> Math |
| <input checked="" type="checkbox"/> Energy & Clean Technology | <input checked="" type="checkbox"/> Medicine |
| <input checked="" type="checkbox"/> Engineering - Chemical | <input checked="" type="checkbox"/> Nanoscience & Technology |
| <input checked="" type="checkbox"/> Engineering - Civil | <input checked="" type="checkbox"/> Nutrition |
| <input checked="" type="checkbox"/> Engineering - Electrical | <input checked="" type="checkbox"/> Occupational Health & Safety |
| <input checked="" type="checkbox"/> Engineering - Environmental | <input checked="" type="checkbox"/> Pharmaceutical Science & Regulation |
| <input checked="" type="checkbox"/> Engineering - General | <input checked="" type="checkbox"/> Physics |
| <input checked="" type="checkbox"/> Engineering - Industrial & Manufacturing | <input checked="" type="checkbox"/> Polymer Science |
| <input checked="" type="checkbox"/> Engineering - Mechanical | <input checked="" type="checkbox"/> Public Administration & Public Policy |
| <input checked="" type="checkbox"/> Engineering - Mining | <input checked="" type="checkbox"/> Social Sciences |
| <input checked="" type="checkbox"/> Environmental Science | <input checked="" type="checkbox"/> Statistics |
| <input checked="" type="checkbox"/> Ergonomics & Human Factors | <input checked="" type="checkbox"/> Veterinary Medicine |
| <input checked="" type="checkbox"/> Food Science & Culinary Science | <input checked="" type="checkbox"/> Water Science & Engineering |
| <input checked="" type="checkbox"/> Forensics & Criminal Justice | |

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2

Search Clear

Save Search Search History Saved Queries

Search Name

Description

Alert me to new results from this Saved Search.

1 ☒ Never ☐ Daily ☐ Weekly ☐ Monthly

Save

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Advanced Search

- 1 Saved Queries will show your saved searches and allow you to run these searches again or delete them

The screenshot displays an Advanced Search interface. On the left, there is a list of categories with checkboxes, including Clean Tech, Computer Game Development, Computer Science & Engineering, Economics, Engineering - Chemical, Engineering - Civil, Engineering - Electrical, Engineering - Environmental, Engineering - General, Engineering - Industrial & Manufacturing, Engineering - Mechanical, Engineering - Mining, Environmental Science, Ergonomics & Human Factors, Food Science & Culinary Science, Information Technology, Life Science, Material Science, Math, Medicine, Nanoscience & Technology, Nutrition, Occupational Health & Safety, Pharmaceutical Science & Regulation, Physics, Polymer Science, Public Administration & Public Policy, Social Sciences, Statistics, and Water Science & Engineering. Below the categories are 'Search' and 'Clear' buttons. A tabbed interface shows 'Save Search', 'Search History', and 'Saved Queries' (highlighted with a blue circle and the number 1). The 'Saved Queries' table lists saved searches with columns for the query name, 'Saved on', and 'Last run on', along with 'Run' and 'Delete' links.

| | Saved on | Last run on | |
|----------------------------|------------|--------------|--|
| inertial navigation | | | |
| D Apr 12, 12 | May 1, 12 | Run Delete | |
| laser | | | |
| D Mar 17, 10 | May 1, 12 | Run Delete | |
| abrasives | | | |
| W May 11, 11 | Apr 29, 12 | Run Delete | |
| nanotechnology | | | |
| N Dec 14, 10 | Apr 12, 12 | Run Delete | |
| radar | | | |
| N Jul 21, 11 | Jul 21, 11 | Run Delete | |
| lasers | | | |
| N May 11, 11 | May 11, 11 | Run Delete | |
| lasers | | | |
| N May 11, 11 | May 11, 11 | Run Delete | |
| cells | | | |
| N Dec 14, 10 | Dec 14, 10 | Run Delete | |
| rockets | | | |
| N Dec 14, 10 | Dec 14, 10 | Run Delete | |
| laser safety | | | |
| N Feb 1, 10 | Feb 1, 10 | Run Delete | |

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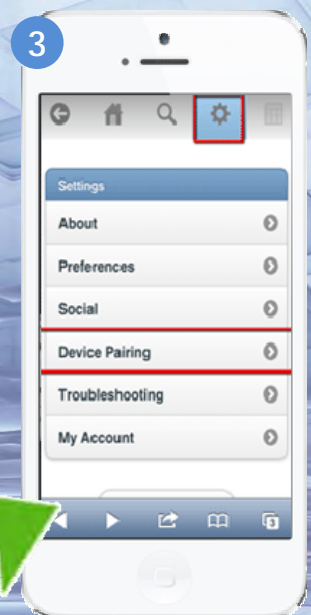
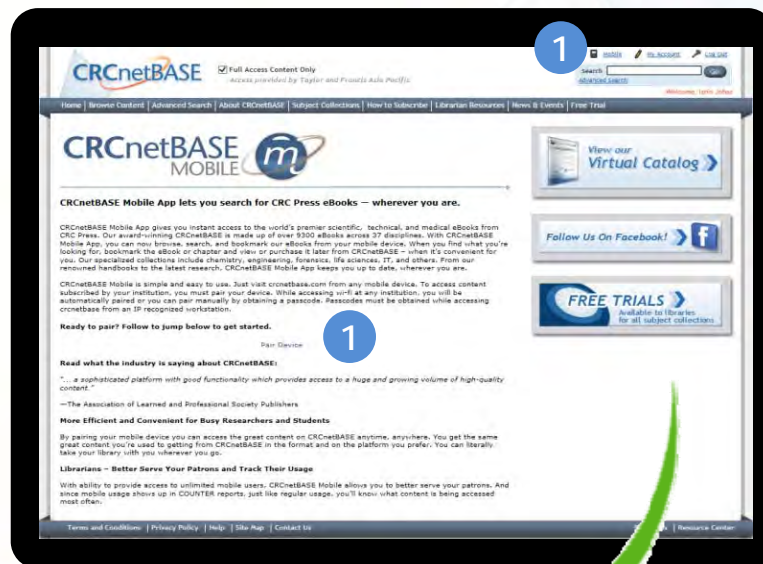
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Mobile Pairing

- 1 Click on the mobile icon to and ***"Pair Device"*** to display a pairing code
- 2 Save the pairing code
- 3 Enter the pairing code into your device, by clicking the ***"Settings"*** icon, then ***"Device Pairing"***

The mobile device is now paired to your institution for 90 days



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