

Moving Research Forward with ScienceDirect

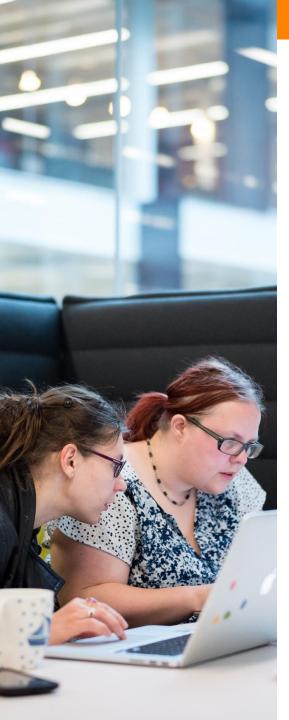
Nicholas Pak Benny Ang Research Solutions Sales Elsevier



Agenda

What's Behind ScienceDirect	1
The Platform	2
How to Search	3
Impactful Research	4
Additional Resources	5

1. What's Behind ScienceDirect



Who We Are

A global information analytics company specializing in science and health.

Why We Do It

We help you solve your challenges, for the benefit of humanity



What We Do

We help institutions
and professionals
progress science,
advance
healthcare and improve
performance.

A Unique Combination

Combine content with technology, supported by operational efficiency, to turn information into actionable knowledge.

ELSEVIER

Elsevier combines content with technology

to provide actionable knowledge







Read *this*



Search *this*



Do this

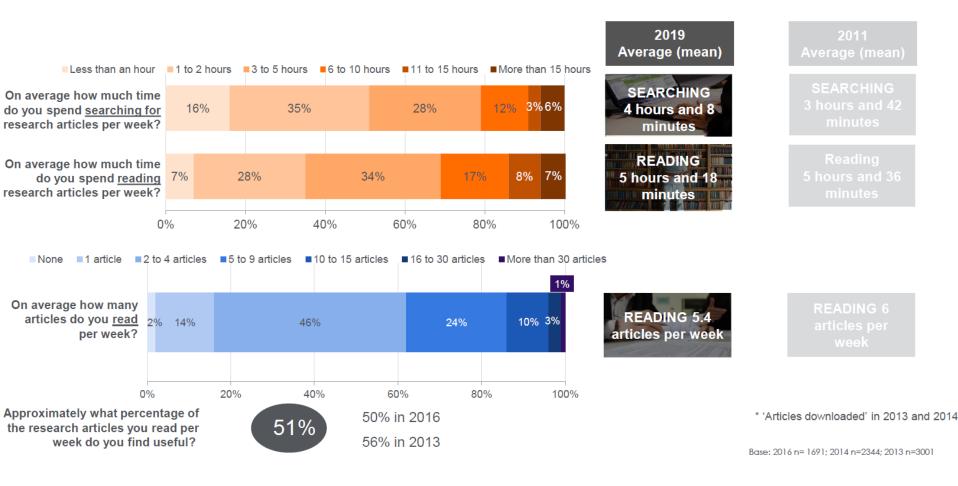
Cell Fundamentals Gray's Anatomy ScienceDirect
Scopus
ClinicalKey®
Reaxys®

Sherpath Mendeley InferMed Knovel®



Using Published Literature

On average, researchers spend just over four hours searching for research articles a week and more than 5 hours reading them. They read 5-6 articles per week and only half are considered useful



ScienceDirect continues to focus on increasing your research effectiveness by incorporating innovative technologies to evolve the information discovery and management needs of researchers

Our goal is to help you and the people in your institute



Uncover more novel science



Use your time efficiently and effectively



Make decisions based on the highest-quality scientific information

Demonstrably improve user experience by providing an integrated, social and personal reading experience when optimizing for the ScienceDirect use cases:

- Help me discover the relevant information
- Give me access to the detail
- Make the process quick and easy
- Keep me informed on the latest developments and news

High Quality Science

Decisions based on inaccurate or poor-quality information increase costs, lead to inefficient resource allocation, and can incur litigation.

We ensure that the information you find is of the highest standard.

VOLUME

ScienceDirect delivers over 16M publications from over 3,800 journals and more than 37,000 books from Elsevier, our imprints and our societies.

IMPACT

65 of our journals are ranked number 1 in their respective subject categories (out of 236)

This accounts for 27.5% out of all subjects, more than any other publisher

CITATION

Of the top 5% cited articles, 30% are Elsevier's.

What's behind ScienceDirect

Product Managers and Developers:

- Maintain the article recommender algorithm
- · Develop and improve the platform using agile methodology
- Ensure availability and visibility of 16 million digital articles

ScienceDirect Hosting

(100 developers and prod. managers)

Soliciting and managing submissions

OVER

8,000

PEOPLE

Via Evise and ESS Elsevier receives:

• > 2 Million article submissions per year (more than 1 article submitted every minute)

We provide access, training and support to:

- 180+ countries
- 4,500+ institutions
- 16 million monthly users

Resulting in:

- Nearly 1 billion downloads/year
- 27 downloads per second

Promotion and dissemination

(550 employees in Research Solutions)

Production and publication

(500 employees in operations)

Managing peer review

(500)Employees in Publishing)

Manuscript editing

(4.600)level 1 editors)

We facilitate scholarly communication by:

- · Organizing editorial boards
- Launching new subscription and open access journals (30 journals per year)
- Running 2,762 Active journals
- · 23.000 editors
- Coordinating 440.000 reviewers
- · Promoting 600,000 authors

Our global network of editors manages:

• 7 million+ author/ publisher communications per year

Level 1 Editors connect with a global network of subject matter experts, including:

 92,000 level 2 and 3 editorial board members

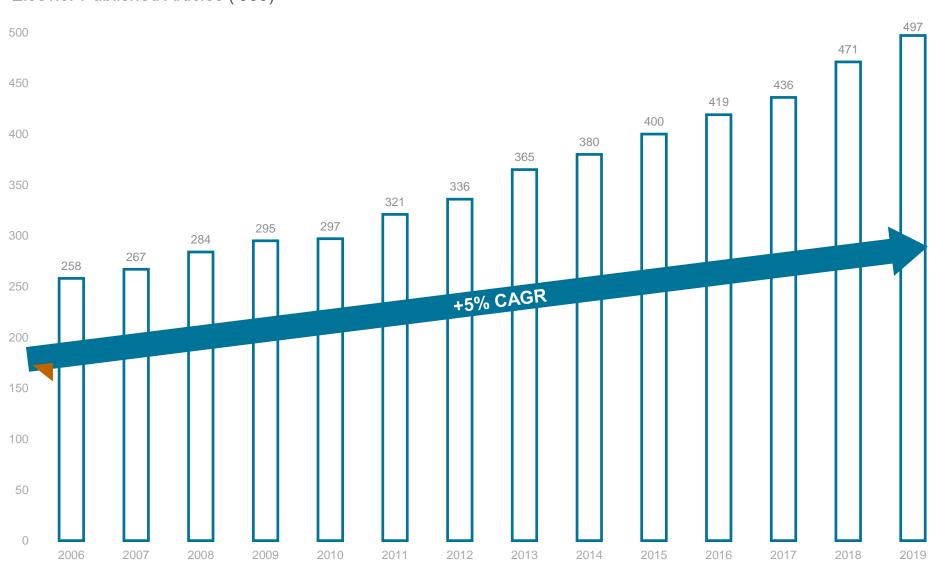
Our operations team oversees:

- Production of 500,000 new articles per year
 - Content is tagged for discoverability
 - Articles are content enriched with interactive graphs, 3D models, and data visualizations etc.
 - Rigorous quality control process in place

Elsevier Journal Content

Article Volume Growth is Consistent (2006 – 2019)

Elsevier Published Articles ('000)



2. The Platform

ScienceDirect is incorporating innovative technologies to evolve the information discovery and management needs of researchers

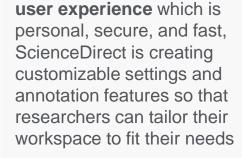
Researchers can benefit from ScienceDirect technology improvements in multiple ways:

To help uncover new research

to identify patterns and connections between content that might have been otherwise overlooked, ScienceDirect is enhancing its advanced data analytics and machine learning capabilities to deliver researchers the information they need, when they need it

To deliver search results that are more relevant and

delivered faster than ever before, ScienceDirect is expanding its browse and search functionalities



To provide a best in class







ScienceDirect invests continually to ensure continuous optimization and meet the most vigorous standards

We focus on 3 key areas to ensure the best possible customer experience:



Better performance

Optimized architecture for journal homepages ensures pages load within 1 second



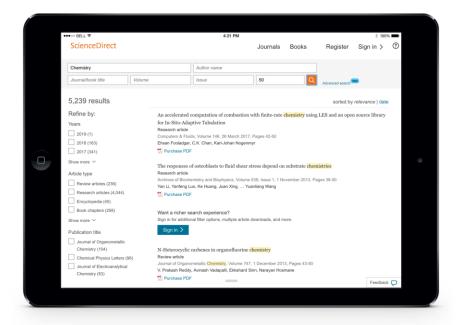
100% results

The most relevant information is prioritized (latest articles and issues, articles in press, special issues, alerts and journal information)



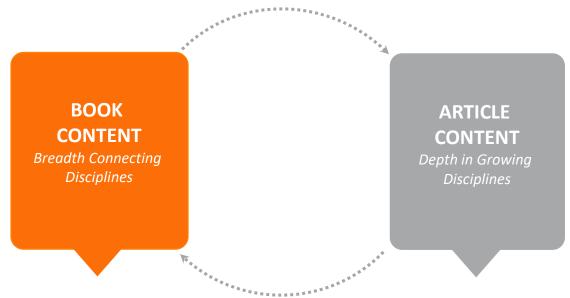
Ease of use

A modern and clean look on any screen size with each journal instantly recognizable to the user thanks to custom colors



eBook content is a **Critical** complement to journal content

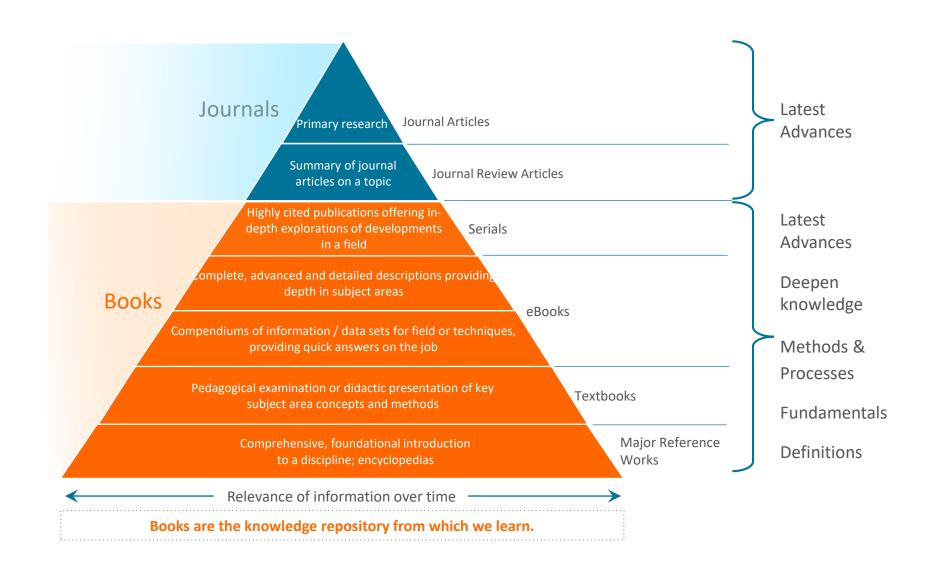
Books and journal articles provide different types of content, but for this reason they are fundamentally interlinked: researchers/students need both to build their knowledge around a topic.



- ✓ A catalyst for discovery in new area
- ✓ Gives broader view of a topic
- More sustained arguments, differing opinions, nuance and complexity
- ✓ Offers expert opinion on most relevant topics
- Links to related (and often unexpected fields, methods and materials

- Specialised knowledge
- ✓ Narrow focus
- Extreme depth
- ✓ Latest research / new results
- ✓ Applying techniques

Researchers Need Different Content Types for Different Steps in Their Workflow



Features – Key Highlights









Journals & Books



Search for peer-reviewed journals, articles, book chapters and open access content.

Keywords

Author name

Journal/book title

Volume

Issue

Pages

Advanced search

Never lose track of an interesting article

Your Reading History will remember what you've read, so you don't have to.

Discover your Reading History >

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Journals & Books

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ScienceDirect

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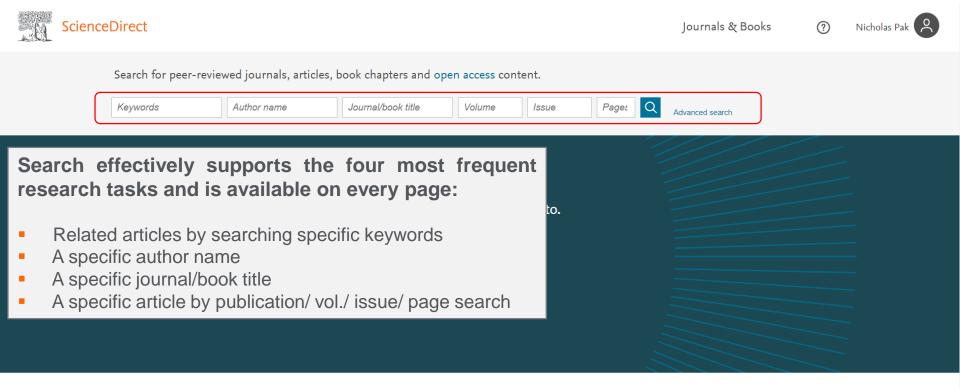
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RELX Group™

ScienceDirect Platform

Physical Sciences and Engineering



Social Sciences and Humanities

Explore scientific, technical, and medical research on ScienceDirect

Life Sciences Health Sciences

3. How to Search

Search Functionality

Choosing Search Terms

- Use specific search terms that are closely related to your research topic
- Include alternative words and abbreviations
- Avoid words that are too general

Use Boolean Operators

- AND
 - Finds documents that contain ALL of the terms
 - Use this when the terms must appear and may be far apart from each other
 - Example: "Geographic Information System" AND urban sustainability
- OR
 - Finds documents that contain any of the terms
 - Use OR when at least one of the terms must appear (such as synonyms, alternate spellings, or abbreviations)
 - · Example: micromouse OR picomouse
 - Example: "S. W. Hawking" OR "Stephen W. Hawking" OR "Stephen Hawking"
- NOT
 - Excludes documents that include the specified term from the search
 - Use NOT to exclude specific terms. This connector must be used at the end of a search.
 - Example: "particle collisions" AND NOT theoretical
- Users can combine terms using Boolean operators AND, OR and NOT. Users can also group terms
 using parentheses; multi-level nested clauses are supported.
 - Example: ("black hole" OR radiation) AND gravity

Search Functionality

Precedence Rules

- NOT takes precedence over AND which takes precedence over OR. i.e., NOT>AND>OR.
 - Example: Tesla AND "self-driving cars" OR "self-driving vehicles" (309 results) works, but not "self-driving cars" OR "self-driving vehicles" AND Tesla (664 results)

Finding Variations of a Word

- To search for an specific phrase, enclose the phrase in inverted commas: "South East Asia"
- Using the singular form of a word finds the singular, plural, and possessive forms of most words
- · Special characters are included in the search
- Subscript and Superscript: enter subscripted and superscripted characters on the same line as other characters.
 - Example: for the chemical notation "H₂O," enter H2O
- Accented Characters: To search for the name Fürst, enter Fürst or Furst.
- Non-alphanumeric Characters: Characters such as hyphens, bullets, arrows, plus signs, and minus signs are ignored unless they are enclosed in brackets.

Wildcard Characters

- Use wildcard characters to search for variations of a word
- Asterisk (*) replaces multiple characters anywhere in a word; it can be used to replace 0 and more characters: Optim*
- Users can exclude terms by using the minus-hyphen operator. For example, to find articles related to depression but not economic depression, search for: depression -economics
- To find all articles authored by Heisenberg but not by Sommerfeld, enter the following in the 'Authors' search box: Heisenberg -Sommerfeld

Exercise

Intellectual Property in Malaysia

- 100,470 Document Results Search for Intellectual Property
- 40,538 Document Results Search for "Intellectual Property"
- 2,137 Document Results Search for "Intellectual Property" use the AND Boolean modifier, and include "Malaysia"

Socio-Culturalism in Financial Inclusive Institutions

• 24 Document Results – Search for "Financial Inclusion", use the AND Boolean modifier and include "socio-culturalism"

Novel Coronavirus in Wuhan (2019-nCoV)

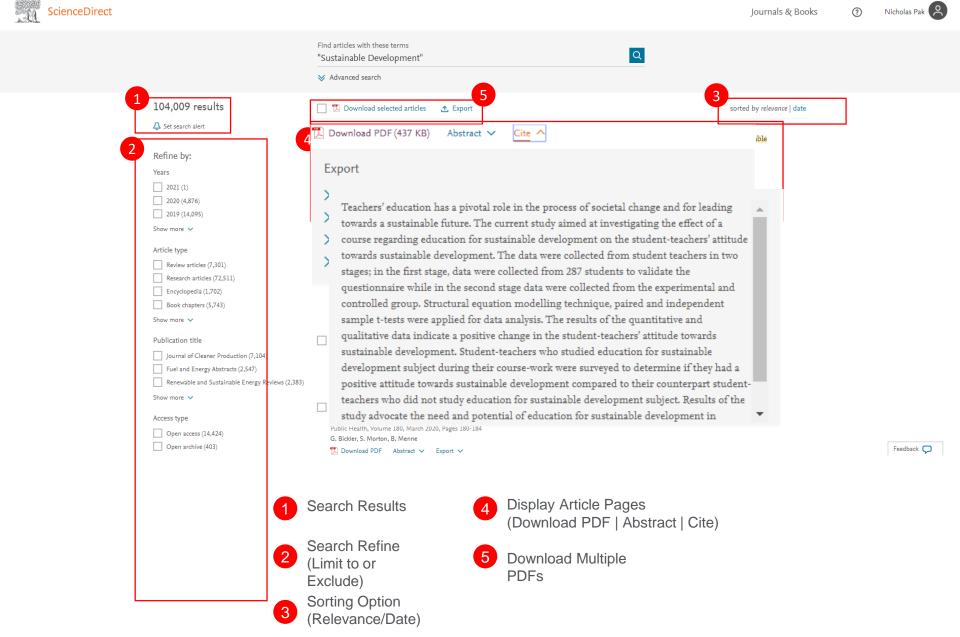
- 25,910 Document Results Search "COVID-19" OR Coronavirus OR "Corona virus" OR "2019nCoV" OR "SARS-CoV" OR "MERS-CoV" OR "Severe Acute Respiratory Syndrome" OR "Middle East Respiratory Syndrome"
- 7,073 Document Results Refine by 2020

For more details: https://service.elsevier.com/app/answers/detail/a_id/25974/supporthub/sciencedirect/

4. Impactful Research

Search Results

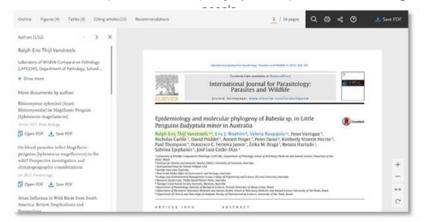




Enhanced Reader on ScienceDirect

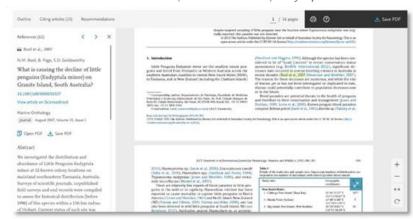
Author Data Integration

Evaluate article, evaluate others, stay up-to-date, connect with the right



Reference Linking

Evaluate and read article, evaluate others, stay up-to-date



Figure/Media Viewer

Evaluate and read article



Article Recommendations

Stay up-to-date

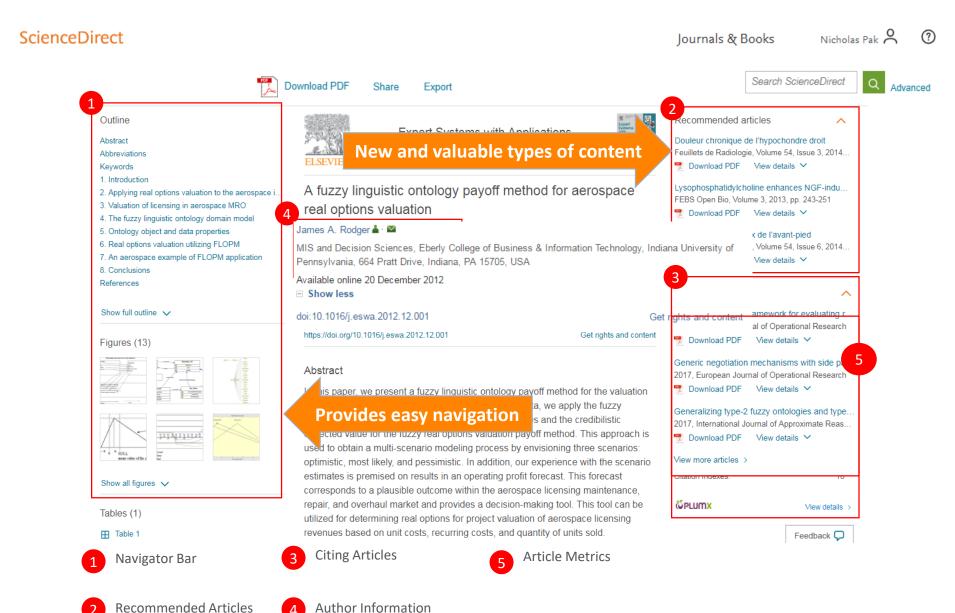


Citing Articles

Evaluate article, stay up-to-date



Use the Intuitive Online Article Format



Integrated with Mendeley

Looking for an easy way to store references and collaborate with others?

Manage, organize and connect around books and journals with Mendeley, seamlessly embedded in ScienceDirect



Mendeley is a reference manager allowing you to manage, read, share, annotate and cite your research papers...



...and an academic social network with 3 million users to connect likeminded researchers & discover research trends and statistics...



...forming a crowdsourced database with a unique layer of social research information and an Open API

Quickly export your Book chapters and journal articles into Mendeley from ScienceDirect

Search Alerts

To establish the new search alert

Follow these steps to establish a new search alert in the new service:

- 1. From the search bar, select 'Advanced search'.
- 2. Using the new advanced search form, enter the terms, journal names, years, authors, etc. in the corresponding fields.



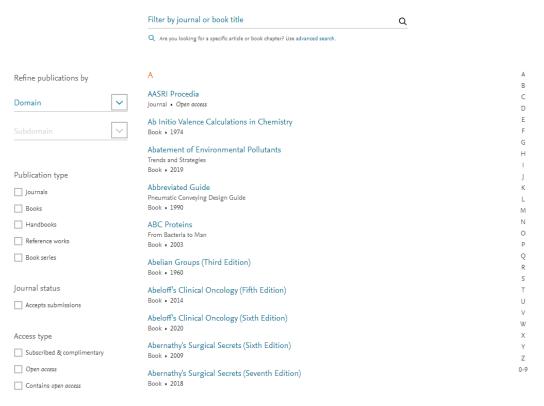
Notes:

- The new advanced search does not follow the same search-logic (e.g., wildcards, connectors, etc.) as the previous search engine. (Check here for more details.)
- Additional filtering (e.g., restrict to Open access) is available on the search results page.
- 3. Select 'Search'.
- 4. On the results page, select 'Set search alert'.
- 5. Enter the name of the search alert.
- 6. Select the frequency in which you want the search to run.
- 7. Select 'Save'.

Journal & Book Alerts







Journals & Books

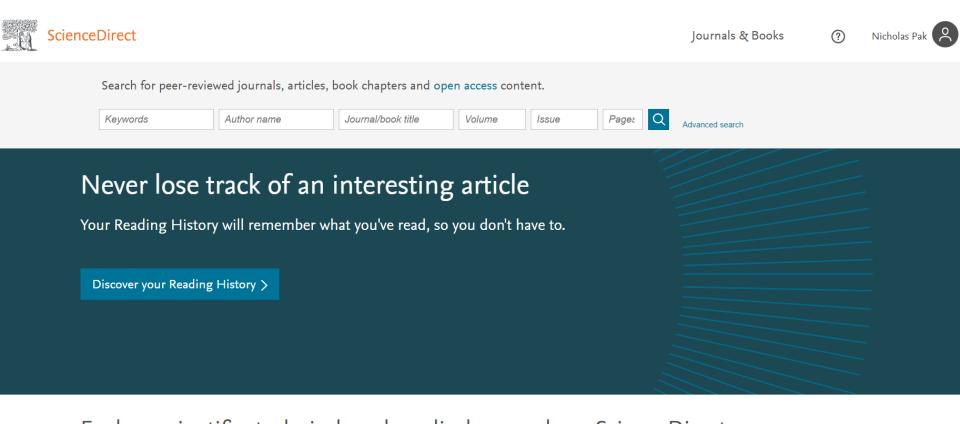








ScienceDirect Platform



Explore scientific, technical, and medical research on ScienceDirect

Physical Sciences and Engineering

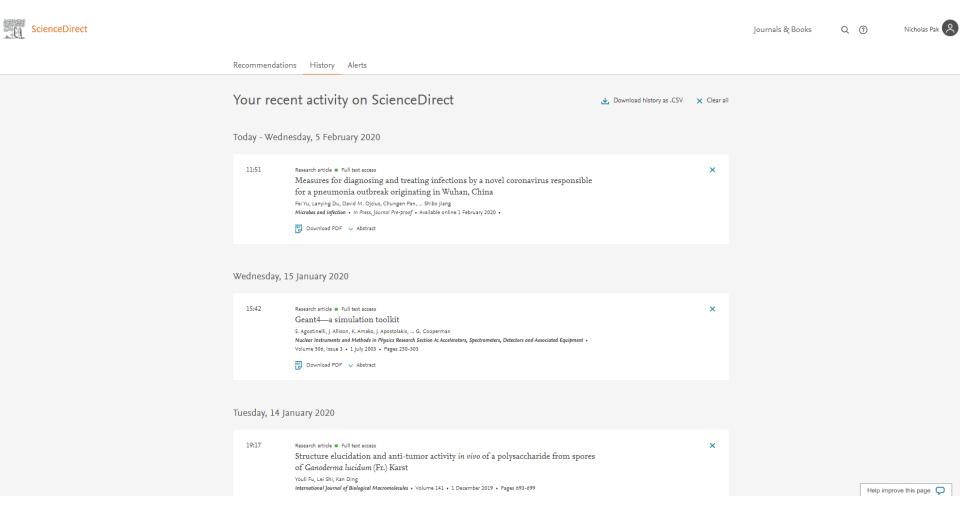
Life Sciences

Health Sciences

Social Sciences and Humanities

Feedback 💭

ScienceDirect Reading History



Free Personalized *Recommendations* service uses machine learning and the user's online activity to suggest research tailored to their needs



How does it work?

Once a researcher has registered, our powerful adaptive algorithm uses the signed-in activity on ScienceDirect to understand the user's research interests.

It then searches our database of more than 3,800 journals and over 37,000 book titles to find related content. The more frequently someone signs in, the better it gets to know them, and the more relevant the recommendations they'll receive



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A review of regional groundwater flow modeling

Research article - Open access - Geoscience Frontiers - Volume 2, Issue 2 - Pages 205-214 - April 2011

Yangdiao Zhou, Wenpeng Li

Reprint of: The anatomy of a large-scale hypertextual web search engine

Research article - Computer Networks - Volume 56, Issue 18 - Pages 3825-3833 - 17 December 2012

Sergey Brin, Lawrence Page

Feedback 💭

Finite Element Simulation of Fracture Profile of Bone Material: A Case of Study Applied to Human Femur

Chapter 12: Forest Harvesting Systems

Specimen

A. Bettamer

Rook chanter - Introduction to Forestry and Natural Resources - Pages 287, 307 - 2013

Book chapter • Reference Module in Materials Science and Materials Engineering • 2016

More than 1 million researchers are already using our Recommendations service. Find out why...

"Provided me with articles I had previously not found... gave me new ideas for other application areas of the techniques I'm using..."

Merlijn Lobbes | Graduate student

"This morning's recommendation was relevant to my lecture last week, so we were able to start class by reviewing and adding a new perspective."

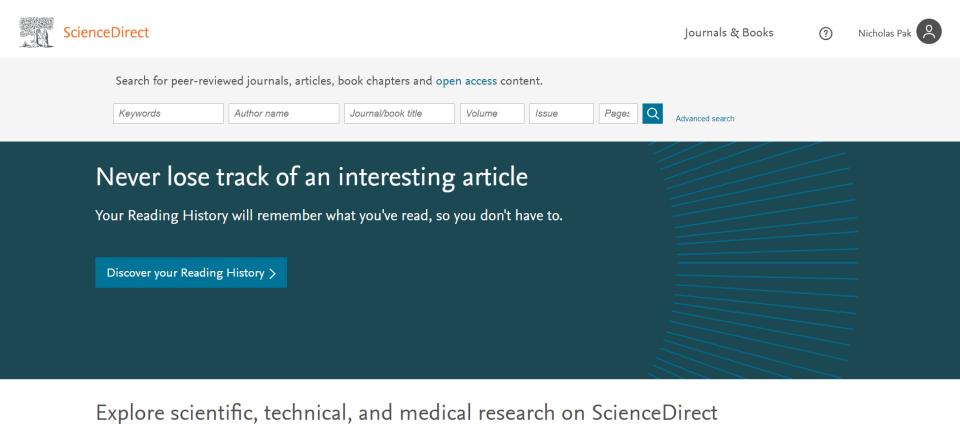
Sarah Longwell | Faculty

More information: https://www.sciencedirect.com/research-recommendations

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Physical Sciences and Engineering

Health Sciences

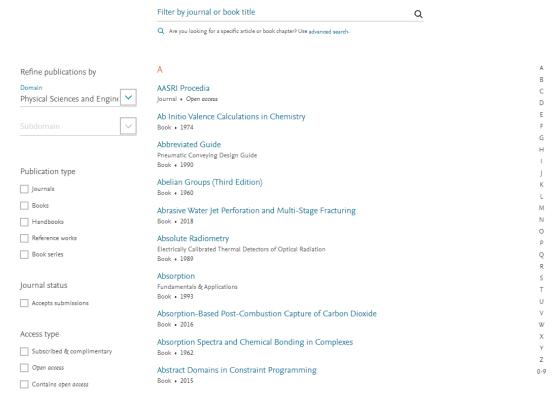


Social Sciences and Humanities

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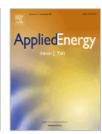
Journals by Subject Areas

Showing 16,274 publications

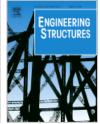










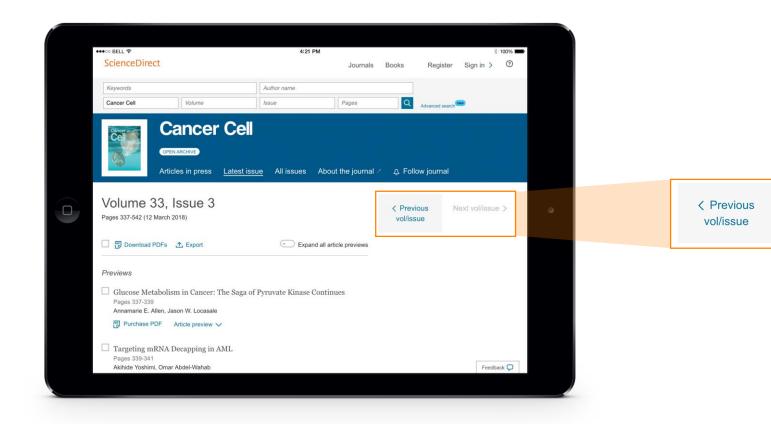








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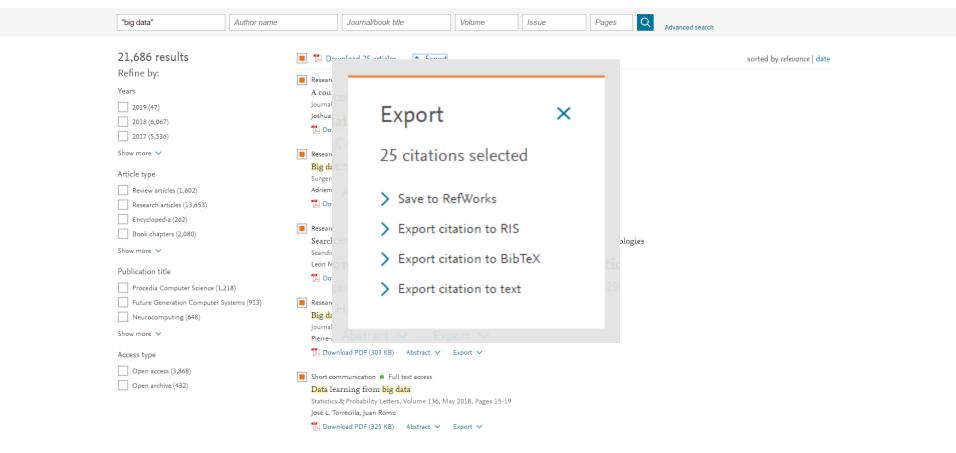
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Export Citations

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Journals & Books Nicholas Pak 2 0



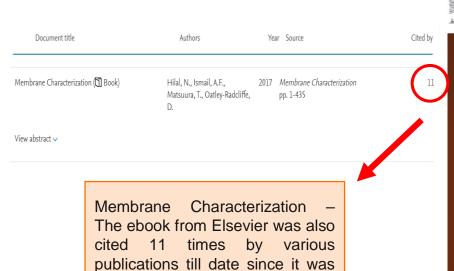
Citing Book Chapter for Journal Article

ScienceDirect



A review article published by Desalination (IF: 6.035) in June 2019, was cited 49 times. This article also cited reference from ebook/book chapter of Elsevier: Membrane Characterization (2017).

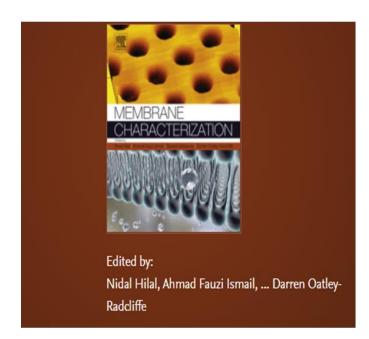
Journals & Books



published year 2017.

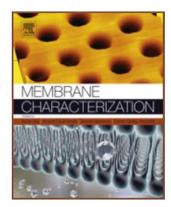


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	Analyze author output	View citation overview	View h-graph	
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	(Biochemistry, Genetics and Molecular Biology) (Multidisciplinary) (Earth and Planetary Sciences) (Mathematics) (Medicine) View all			
Documents by author		Total citations	h-index: ⊕	
932		25870 by 15559 documents	75	
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Depth of Research Reference - eBook





Description

Membrane Characterization provides a valuable source of information on how membranes are characterized, an extremely limited field that is confined to only brief descriptions in various technical papers available online.

For the first time, readers will be able to understand the importance of membrane characterization, the techniques required, and the fundamental theory behind them. This book focuses on characterization techniques that are normally used for membranes prepared from polymeric, ceramic, and composite materials.

- > Part 1: Spectroscopy Methods for Membrane Characterization
- > Part 2: Microscopy Methods for Membrane Characterization
- > Part 3: Physical and Chemical Characterization Methods for Membrane Characterization
- > Part 4: Mechanical Properties Characterization of Membranes
- > Part 5: Mass Transport, Modeling and Feed Solution Characterization

Key Features

- Features specific details on many membrane characterization techniques for various membrane materials of industrial and academic interest
- Contains examples of international best practice techniques for the evaluation of several membrane parameters, including pore size, charge, and fouling
- Discusses various membrane models more suitable to a specific application
- Provides examples of ab initio calculations for the design, optimization, and scale-up of processes based on characterization data

Depth of Research Reference - eBook

Each of the chapter will clearly illustrate the information from top to bottom, start with introduction, analysis processes, techniques and as well as other relevant information with the clear figures inserted to assist in the clear understanding of reader when conducting literature review and scientific writing.





Membrane Characterization 2017, Pages 3-29



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Mechanical Characterization of Membranes Membrane Characterization, 2017, pp. 259-306

Electrokinetic Phenomena for Membrane Charge

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View details V

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11

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Chapter 1 - Fourier Transform Infrared (FTIR) Spectroscopy

M.A. Mohamed, J. Jaafar, A.F. Ismail, M.H.D. Othman, M.A. Rahman

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https://doi.org/10.1016/B978-0-444-63776-5.00001-2

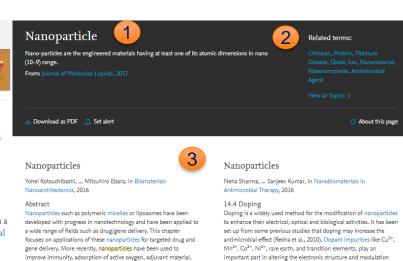
Abstract

The use of Fourier transform infrared (FTIR) spectroscopy has been considered to be one of the most effective techniques to study and understand the chemical and surface chemistry in various types of membrane. In this chapter, the role of FTIR techniques to monitor the change of membrane surface chemistry was discussed. Without knowing the specific functional group, which had altered the membrane surface behavior, the researcher is unable to explain different physicochemical properties that significantly changed the membrane performance. In addition, the FTIR techniques can also be used to monitor the stability and durability of the specific membrane toward their performance. In general, the use of FTIR analysis in the field of membrane application is crucial to support the justification of the changes in their properties and performance in various applications.

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Topic Pages Simplify and Improve Journals Workflow on **ScienceDirect**





possibilities of the host material (Zhang et al., 2006). Ag doped with

polymer chitosan and iron oxide results in high antimicrobial efficacy

against E. coli, B. subtilis, and S. aureus (Gong et al., 2007; Banerjee et

toward E. coli and B. subtilis. The outcomes showed that both Ag- and

N-doped TiO₂ could increase the antibacterial properties of TiO₂

33.0 mm toward E. coli and 22.8 mm toward B. subtilis after cultivation for 24 h (Yuan et al., 2010). Very interestingly, Ag/(C,S)-TiO2 nanoparticles were shown to have strong light-independent antimicrobial activities against both E. coli and B. subtilis spores, b

nanoparticles under fluorescent light irradiation. A 1% Ag-N-TiO₂

had the highest antibacterial activity with a clear antibacterial circle of

al., 2010). Yuan et al. (2010) examined the antibacterial properties of Ag- and N-doped TiO₂ nanoparticles by agar diffusion methods

1. Clear definition

Key Features:

- 2. Related terms (to topic pages)
- 3. Learn more on topic
- 10 longer definitions
- Related/ relevant reading

Key Outcomes for Researchers & Students

Decrease time spent jumping across platforms, searching for and validating info

virus neutralization, etc. For example, excess reactive oxygen species

(ROS), which is a trigger of oxidative stress, is well known to have a

relationship with not only aging but also various types of diseases

kidney failure, arteriosclerosis, diabetes, rheumatoid arthritis,

of the future trends in applications in biotechnology and

biomedicine

Parkinson's disease, and Alzheimer's disease. Therefore, the ROS

scavenger micelles have recently been applied in the treatment of

various types of diseases. The chapter ends with an overview of some

such as cancers, myocardial infarction, inflammatory bowel disease.

- Increase time spent progressing research
- Increase confidence in information reliability and likelihood of serendipitous connections made in research process

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Value of Books: Content Built to Support Understanding within the Research Workflow

Definition from Reference content

Context from Reference content



Related terms

Nanoparticles

Yohei Kotsuchibashi, ... Mitsuhiro Ebara, in Biomaterials Nanoarchitectonics, 2016

Abstract

Nanoparticles such as polymeric micelles or liposomes have been developed with progress in nanotechnology and have been applied to a wide range of fields such as drug/gene delivery. This chapter focuses on applications of these nanoparticles for targeted drug and gene delivery. More recently, nanoparticles have been used to improve immunity, adsorption of active oxygen, adjuvant material, virus neutralization, etc. For example, excess reactive oxygen species (ROS), which is a trigger of oxidative stress, is well known to have a relationship with not only aging but also various types of diseases such as cancers, myocardial infarction, inflammatory bowel disease, kidney failure, arteriosclerosis, diabetes, rheumatoid arthritis, Parkinson's disease, and Alzheimer's disease. Therefore, the ROS scavenger micelles have recently been applied in the treatment of various types of diseases. The chapter ends with an overview of some of the future trends in applications in biotechnology and biomedicine.

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Neha Sharma, ... Sanjeev Kumar, in Nanobiomaterials in Antimicrobial Therapy, 2016

14.4 Doping

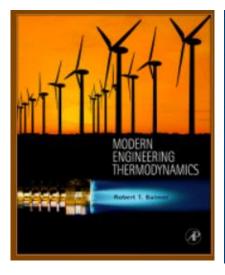
Doping is a widely used method for the modification of nanoparticles to enhance their electrical, optical and biological activities. It has been set up from some previous studies that doping may increase the antimicrobial effect (Rekha et al., 2010). Dopant impurities like Cu2+, Mn2+, Co2+, Ni2+, rare earth, and transition elements, play an important part in altering the electronic structure and modulation possibilities of the host material (Zhang et al., 2006). Ag doped with polymer chitosan and iron oxide results in high antimicrobial efficacy against E. coli, B. subtilis, and S. aureus (Gong et al., 2007; Banerjee et al., 2010). Yuan et al. (2010) examined the antibacterial properties of Ag- and N-doped TiO2 nanoparticles by agar diffusion methods toward E. coli and B. subtilis. The outcomes showed that both Ag- and N-doped TiO2 could increase the antibacterial properties of TiO2 nanoparticles under fluorescent light irradiation. A 1% Ag-N-TiO₂ had the highest antibacterial activity with a clear antibacterial circle of 33.0 mm toward E. coli and 22.8 mm toward B. subtilis after cultivation for 24 h (Yuan et al., 2010). Very interestingly, Ag/(C,S)-TiO2 nanoparticles were shown to have strong light-independent antimicrobial activities against both E. coli and B. subtilis spores, by exploiting the combined bactericidal activity of Ag and TiO2 together

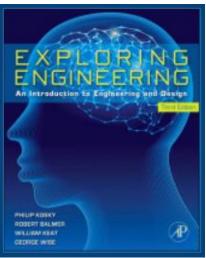
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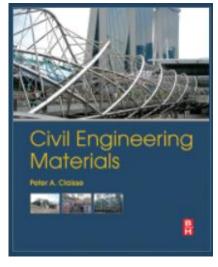
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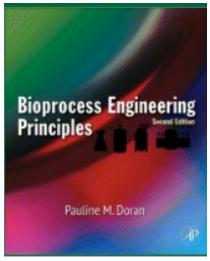
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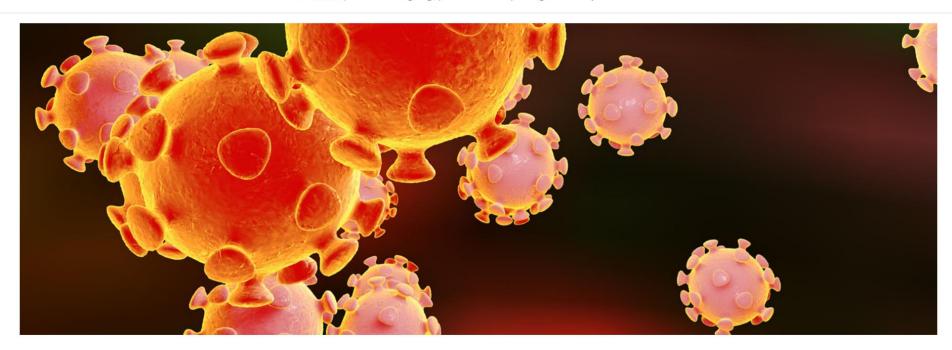
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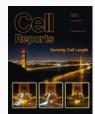
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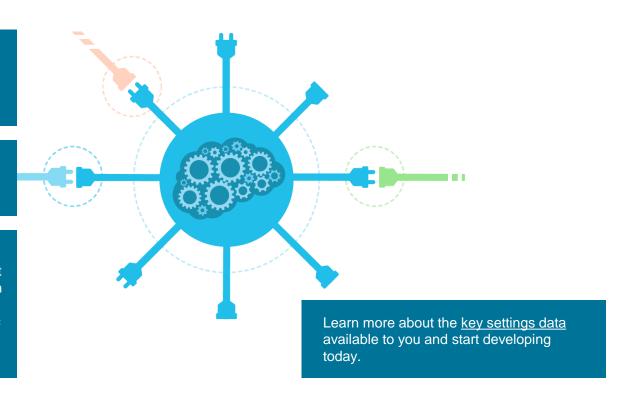


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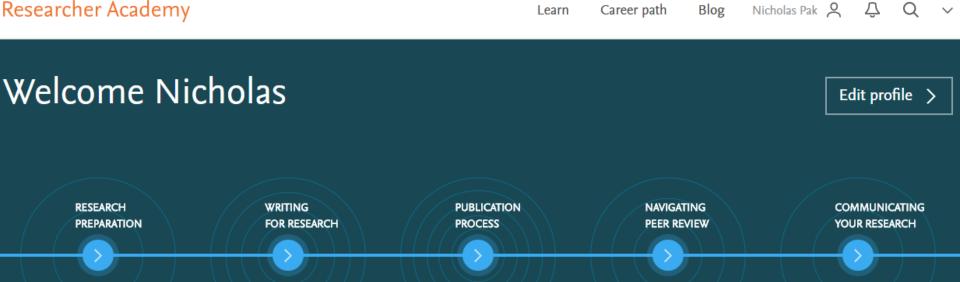
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