

# Your Path to Discovery

Students and researchers frequently encounter unfamiliar topics and concepts and require background reading and contextual knowledge to progress. But finding one's path through the published literature can be overwhelming. It is easy to be caught up in siloed information, untrusted sources and site hopping just to explore a single idea or topic.

That is why we created ScienceDirect Topics. Our free topic pages, extending across 20 scientific disciplines, provide readers with a comprehensive database of reliable background and contextual information making it easy to get up to speed with new and unfamiliar concepts. They connect researchers to summarized knowledge and act as a discovery tool for further trusted reading, making this the ideal environment for intuitive learning and for sparking creativity.

The frequent use of topic pages alongside journal articles demonstrates how essential it is for content to be available from a mixture of resources – journals, books and reference works – in order to successfully master your coursework, conduct research or plan your teaching materials.

ScienceDirect Topics takes your studies and research to the next level by:

- Offering an easy, interactive experience for students learning a new concept or understanding a journal article
- Providing authoritative introductory overviews to help you understand and interpret scientific literature
- Expediting research while increasing the depth of your understanding on a topic
- Enabling quick exploration of a novel subject when carrying out interdisciplinary research
- Pulling content from a range of book sources to connect the dots between ideas, facilitating cognitive leaps to move discoveries forward
- Providing a necessary bridge between journals and books to speed up research outcomes

## The Power of ScienceDirect Topics



- **13 million** visits on average per month



- Hyperlinked from over **4.8 million** journal articles



- **329,000+** topic pages in 20 disciplines

*“ScienceDirect Topics fosters and speeds up insight by bringing comprehensive, trusted, and interdisciplinary knowledge within a user’s natural research workflow.”*



## STRUCTURE OF A TOPIC PAGE

**Concise defines unfamiliar terms**  
Environmental pollution is defined as "the contamination of the physical and biological components of the earth/atmosphere system to such an extent that normal environmental processes are adversely affected."  
From: *Environmental Management*, 2017.

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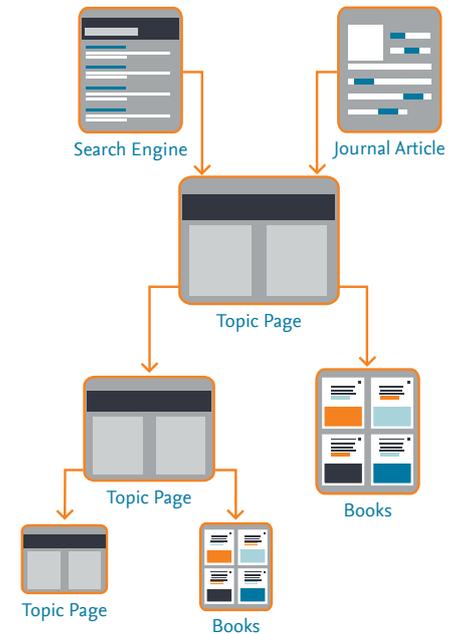
**Book content becomes dramatically more accessible – providing context and deeper insight**  
Introduction  
Iyengar V. Muralidharan, Valli Manickam, in *Environmental Management*, 2017  
Environmental pollution is one of the most serious problems facing humanity and other life forms on our planet today. Environmental pollution is defined as "the contamination of the physical and biological components of the earth/atmosphere system to such an extent that normal environmental processes are adversely affected." Pollutants can be naturally occurring substances or energies, but they are considered contaminants when in excess of natural levels. Any use of natural resources at a rate higher than nature's capacity to restore itself can result in pollution of air, water, and land.  
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Exploring the Potential and Opportunities of Current Tools for Removal of Hazardous Materials From Environments  
Vimal Chandra Pandey, Vijeet Singh, in *Phytomanagement of Polluted Sites*, 2019  
Abstract  
Environmental pollution is one of the most serious global challenges. Wild-type organisms have a slower degradation rate of hazardous materials. Currently, advanced molecular biology tools along with conventional approaches allow us to rapidly degrade or accumulate hazardous materials from environments. This can help modify microorganisms to gain the ability to sense and degrade hazardous chemicals from contaminated sites, in turn, allowing us to grow vegetation and improve crop productivity. In this chapter, conventional and advanced molecular biology tools for the removal and detoxification of contaminants from soil and water to improve environmental conditions are highlighted.  
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Societal Responsibility and Economic Viability  
Dilip Kumar, Deepak Kumar, in *Management of Coking Coal Resources*, 2018  
6.2.11.2.5 Ecological Issues  
Environmental pollution represents an obstacle to the economical exploitation of coal deposits. In industrialized countries, the rules for Particulate Matter and Its Size Fractionation

## Simplifying the Research Workflow

Topic pages are discoverable through search engines, hyperlinked from key terms in journals and book chapters, as well as being directly searchable on ScienceDirect.



## Discover the Difference

By applying natural language processing and machine learning techniques to published content, topic pages surface the most relevant snippets of information from books and reference works in succinct, summarized pages.

Whether you're researching a new topic or reading a complex journal article and need contextual knowledge, you can quickly find the relevant answers you need, when you need them.

*"Your research workflow is faster, easier, and less frustrating with the most relevant content at your fingertips."*

# ScienceDirect

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