



eBooks Discoverability Empowering Usage

ScienceDirect

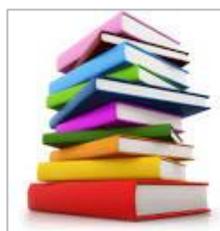
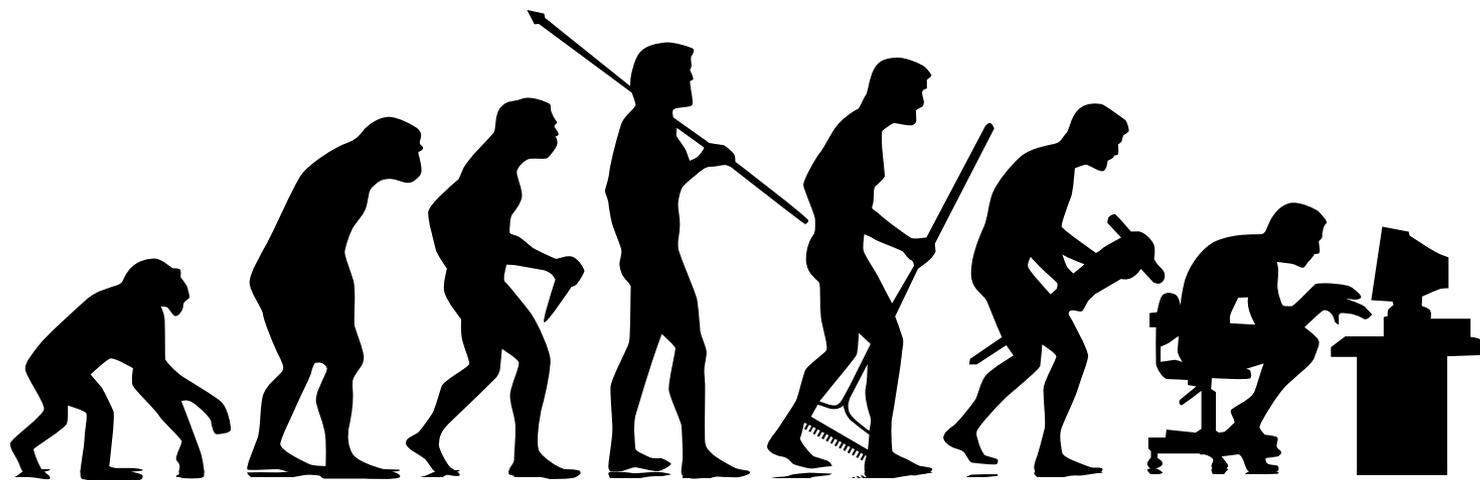
Presented by Pavel Milasevic
eBooks solutions manager

Date 12th and 13th June 2018

Agenda

Intro to ELSEVIER & eBooks

Just like the evolution of man, there has been an evolution of books over time



Lead the way in advancing science, technology and health

Marie Curie
(Physics,
Chemistry)



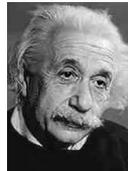
Louis Pasteur
(Chemistry)



Alexander Fleming
(Medicine)



Albert Einstein
(Physics)



Shinya Yamanaka
(Medicine)



John C. Mather
(Physics)



Francoise Barre-Sinoussi
(Medicine)



Craig C Mello
(Medicine)



Galileo's last and greatest work, published in 1638 by Elsevir, *Discorsi e Dimostrazioni Matematiche*



ELSEVIER

425.125

YEARS OF PUBLISHING

TRADITION | EXCELLENCE

We commemorate the founding of the House of Elsevir in 1580 and celebrate the establishment of the Elsevier company in 1880.



ScienceDirect

CHALLENGES: global academic institutions



RANKING & REPUTATION

- Ranking measurement
- Allocation of funding for research
- Expanding quality content
- International research collaboration

CONTENT & LIBRARY

- Systems to collect and analyse usage data
- Acquisitions based not on evidence or information
- Access to specialized – high impact content





Combining Technology and Reference Content to Shape the Future

Agenda

Intro to ELSEVIER & eBooks

Data Driven Approach

How?

At Elsevier we **monitor and analyze the world's research flows**, providing insights you need to keep your library and institution A STEP AHEAD and your researchers A STEP CLOSER to their goals.

ScienceDirect

E-Books Gap Analysis Tool

ELSEVIER

Scopus

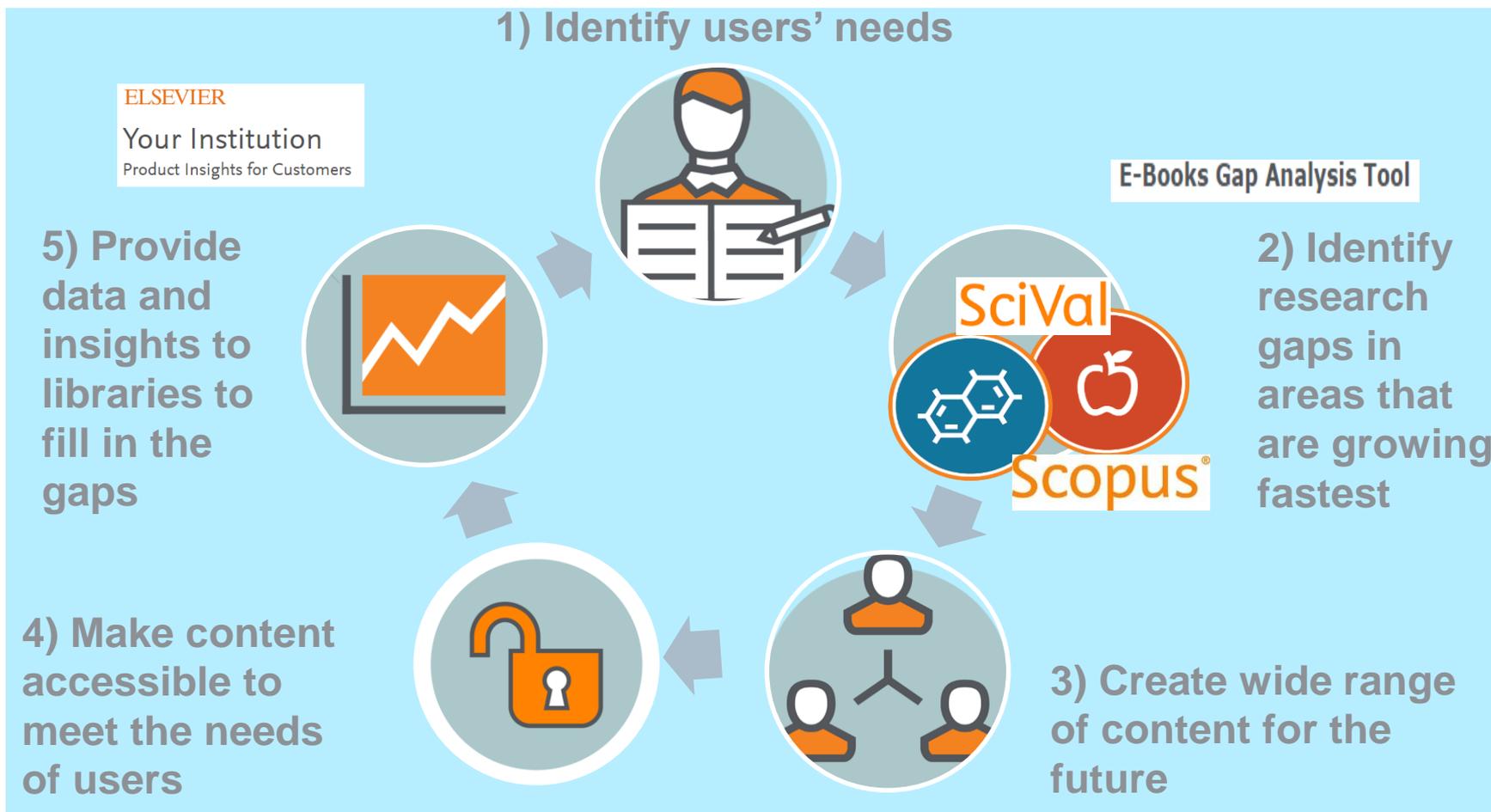
Your Institution

Product Insights for Customers

SciVal



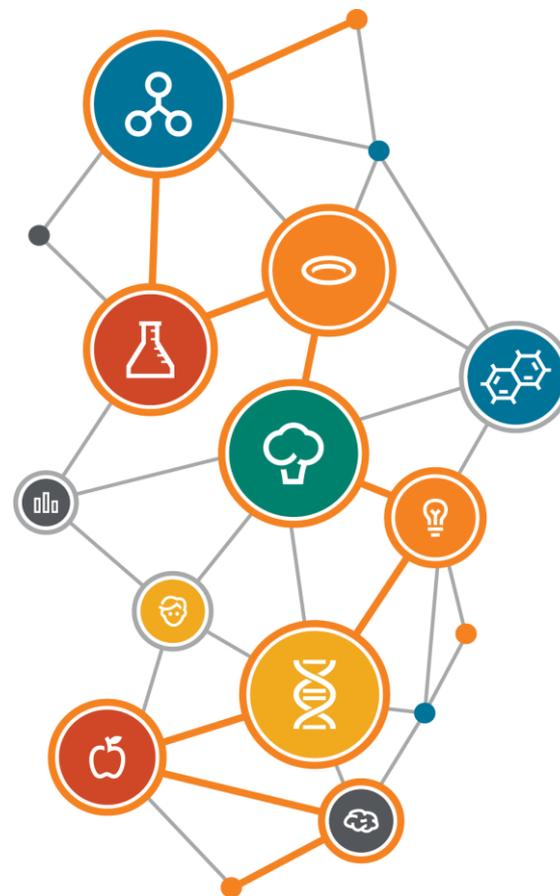
Our Data Driven Approach



Elsevier Provides Essential Reference Knowledge in All Growing Subjects

Key Research Areas of Focus:

- Core Engineering
- Materials Science
- Biomedical Engineering
- Bioscience & Translational Medicine
- Food Science
- Neuroscience and Psychology
- Earth & Environmental Science
- Energy
- Social Science
- Chemistry & Chemical Engineering
- Economics



An advantageous mix of content

ScienceDirect



Major Reference Works

A wide-angle view of the existing body of knowledge creates a cross-disciplinary bridge.



Reference Modules

Hand-picked and regularly updated collections spark new lines of inquiry.



Journals

Dynamic links on ScienceDirect deepen exploration into the latest research findings.



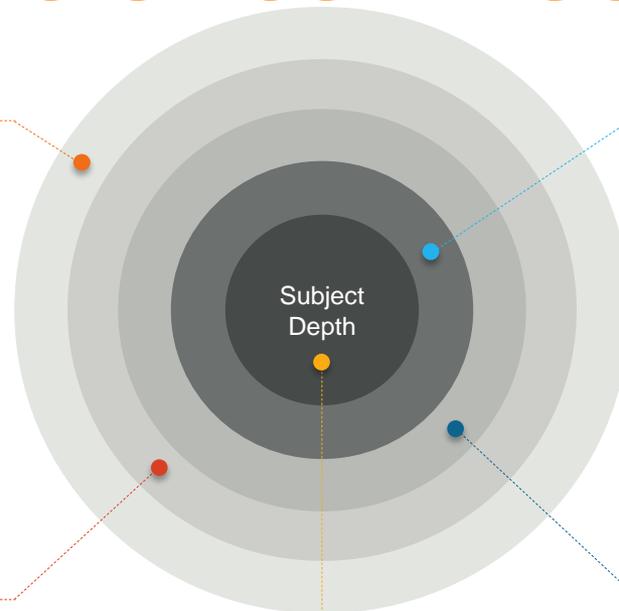
eBooks/Monographs

Sustained arguments help widen the sphere of investigation to forge new paths forward.



Book & Handbook Series

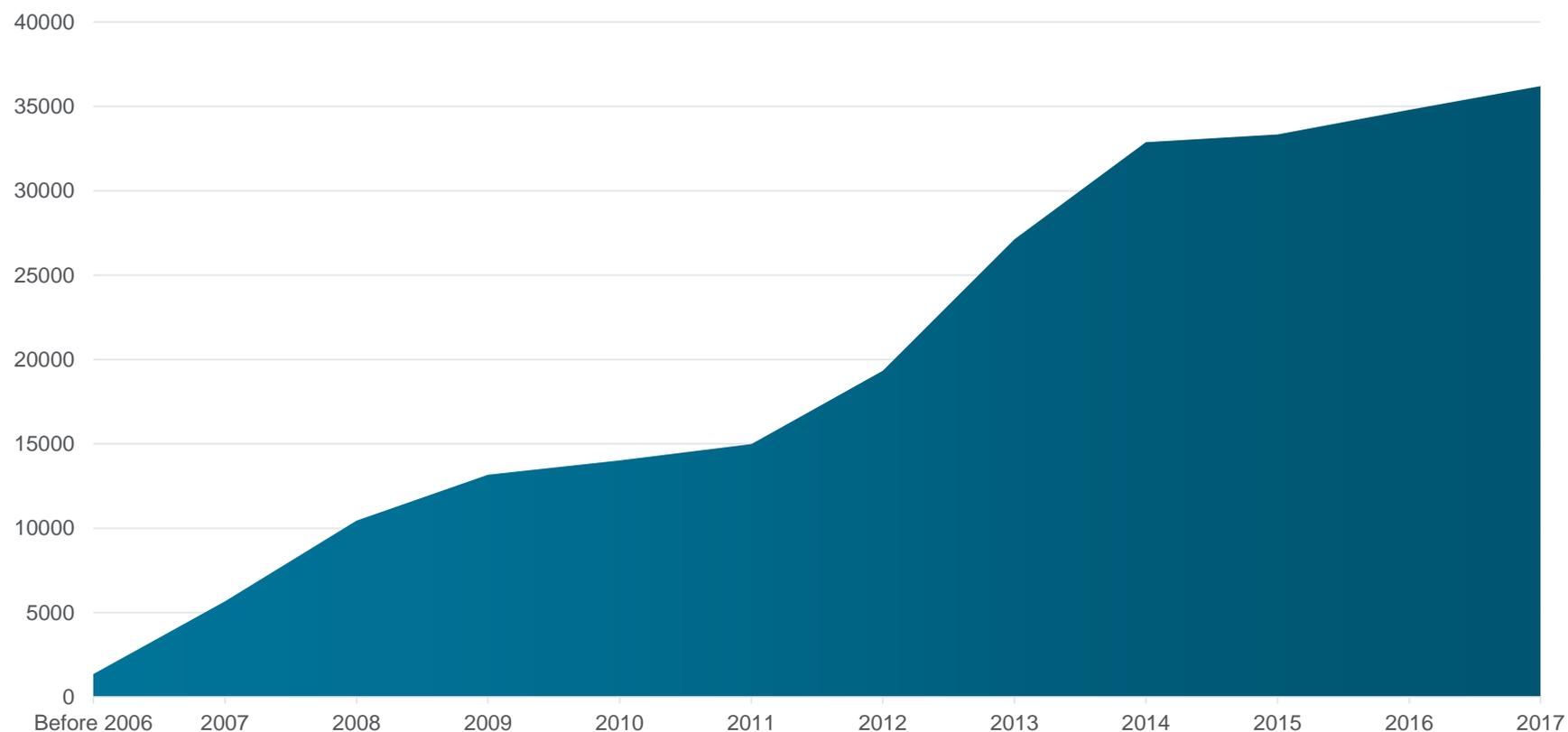
A comprehensive snapshot of the current state of research offers fresh perspective.



ScienceDirect for eBooks2007 till today **June 2018**

Since 2007, Elsevier has been adding books to the ScienceDirect platform so that researchers and students can access the highly regarded book content in an electronic environment.

Cumulative number of books published on ScienceDirect



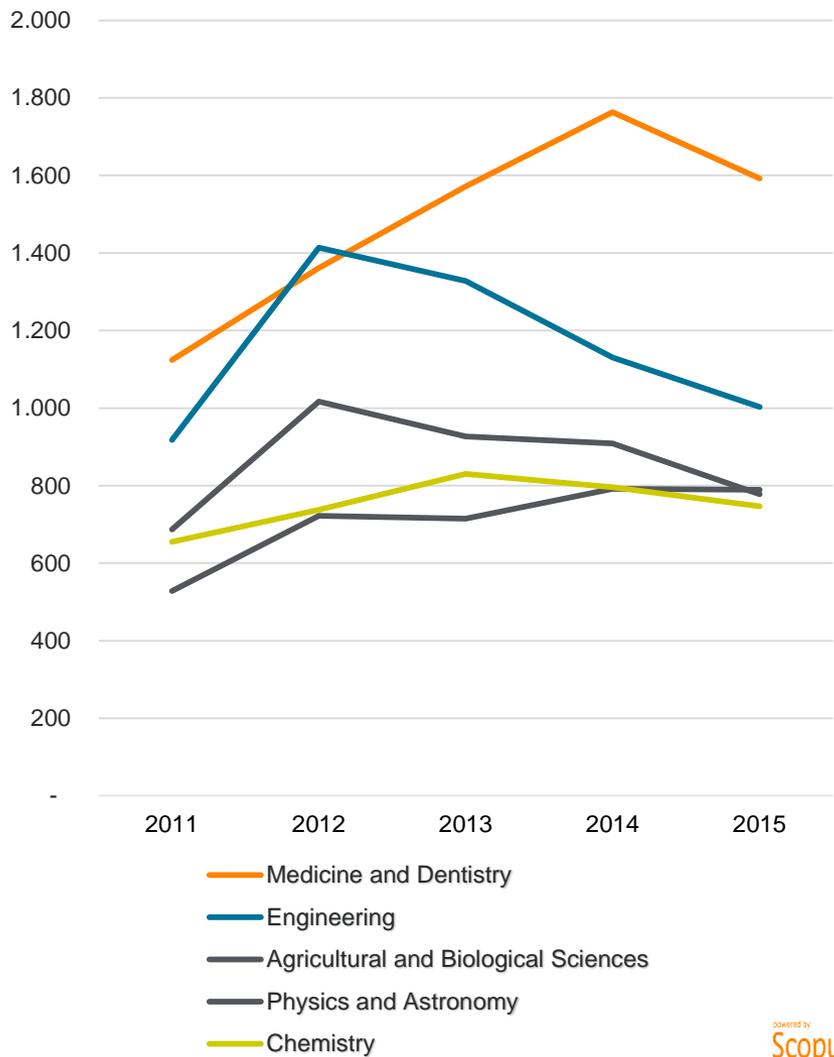
Agenda

Intro to ELSEVIER & eBooks

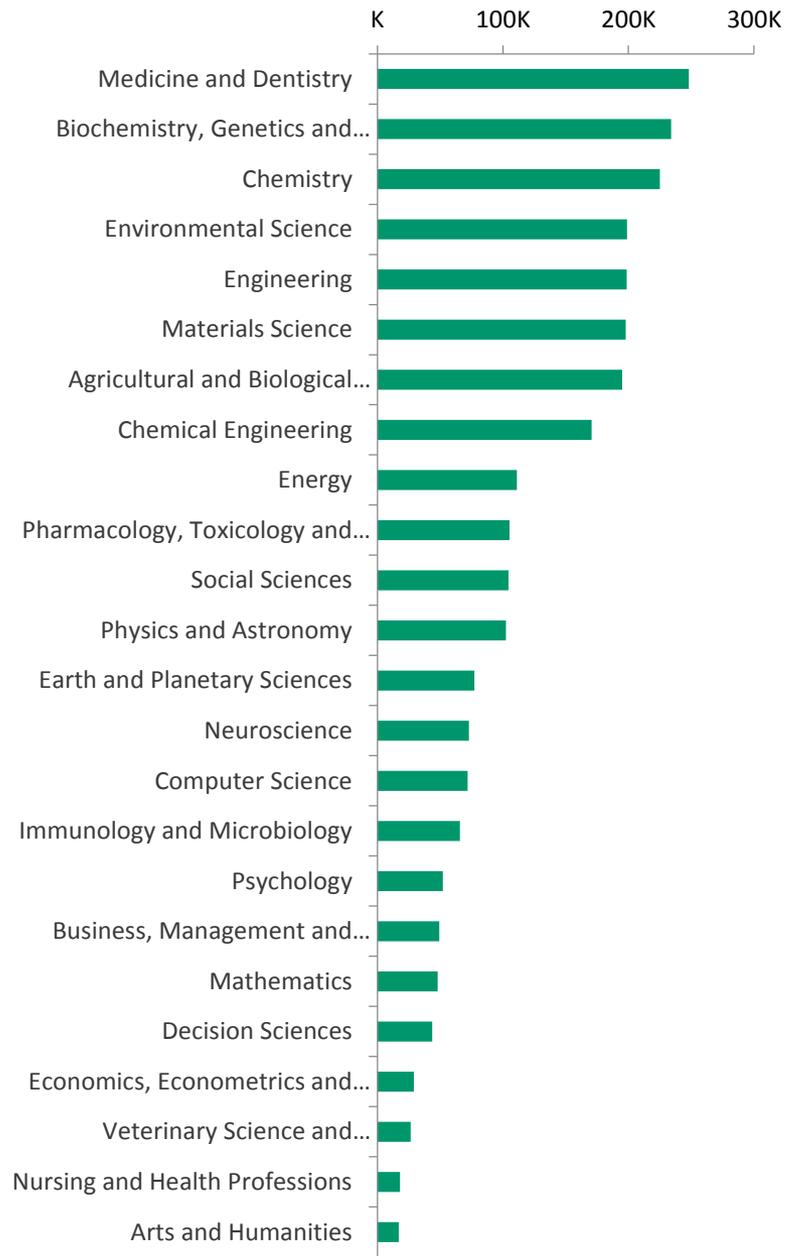
Data Driven Approach

Research Trends

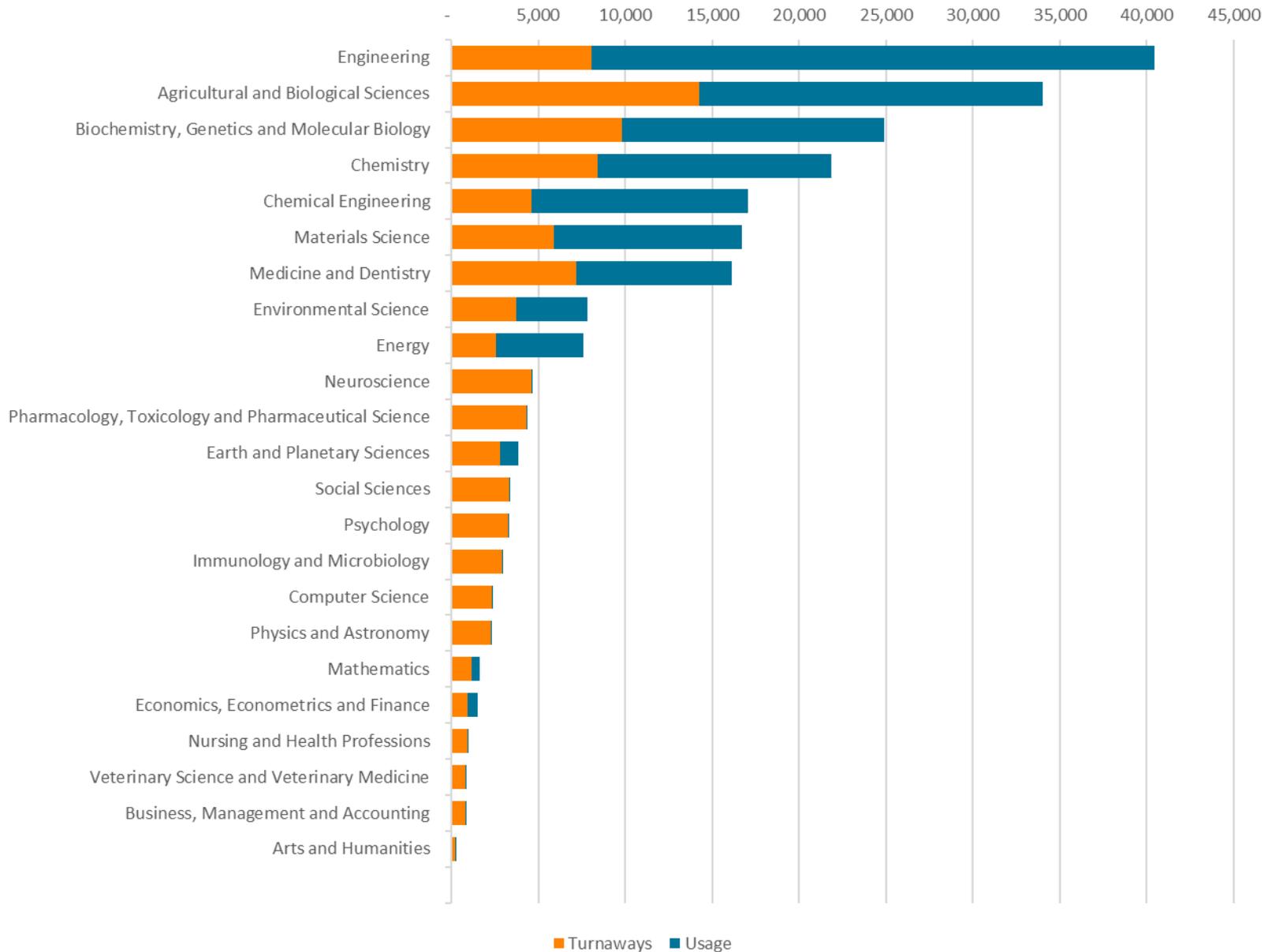
Trend of Top-5 Published Articles per Subject Area



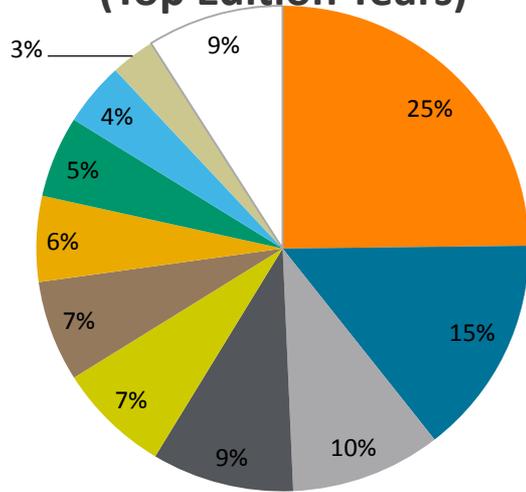
Journal FTA Usage 2016



eBooks Content Requests per Subject Area

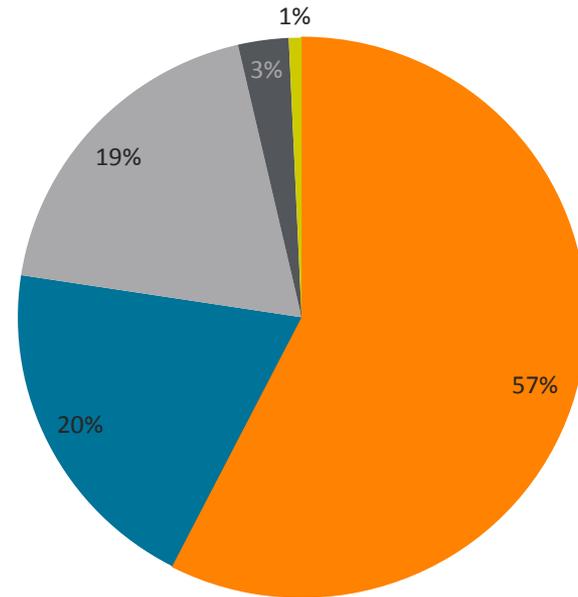


Packages Turnaways (Top Edition Years)



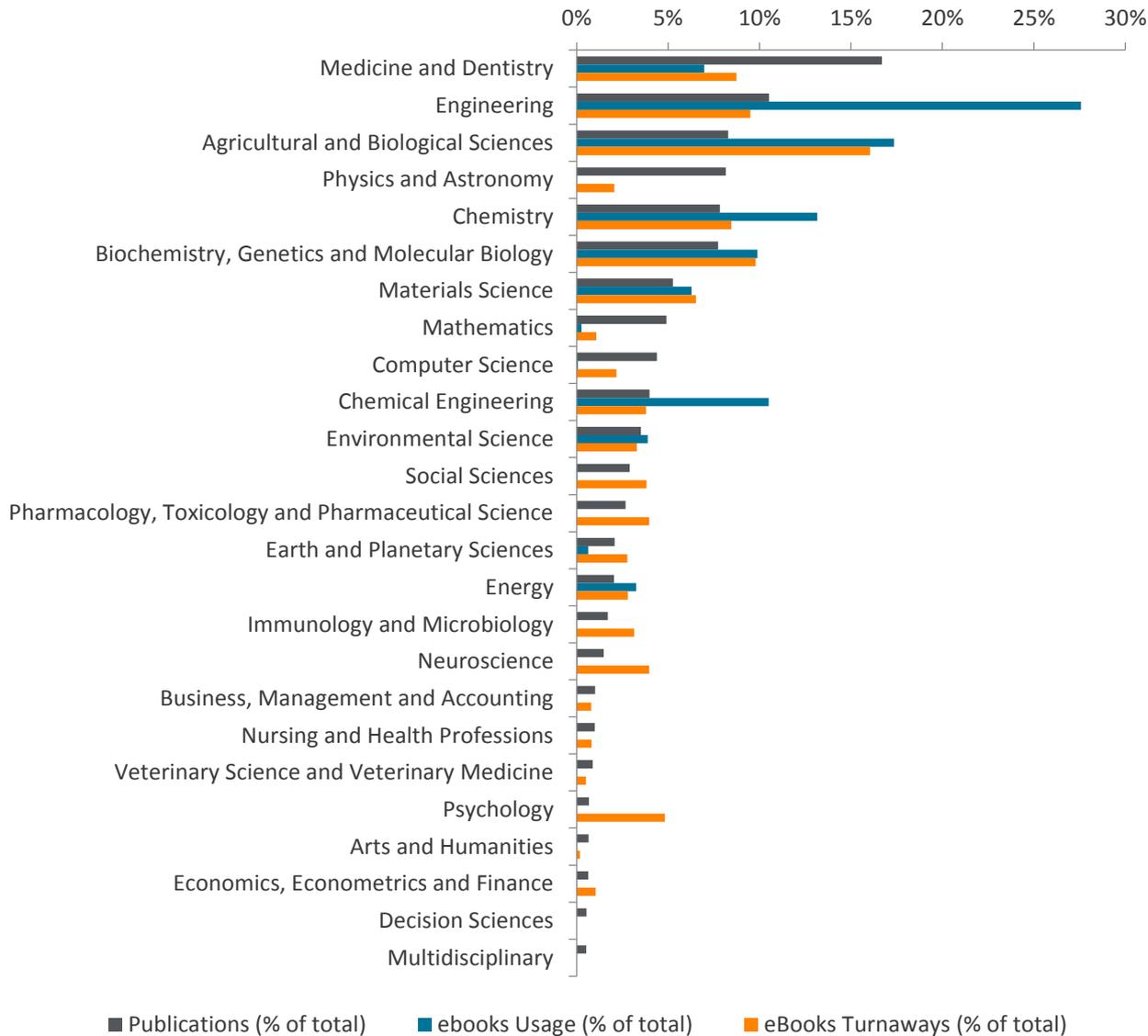
- Pre 2007
- 2014
- Legacy
- 2015
- 2016
- 2013
- (blank)
- 2012
- 2011
- 2008
- Other Editions

Turnaways per Books Product Type



- eBooks Packages
- Major Reference Works
- eBooks Series
- Handbooks
- Textbooks

Article Output vs eBooks Usage



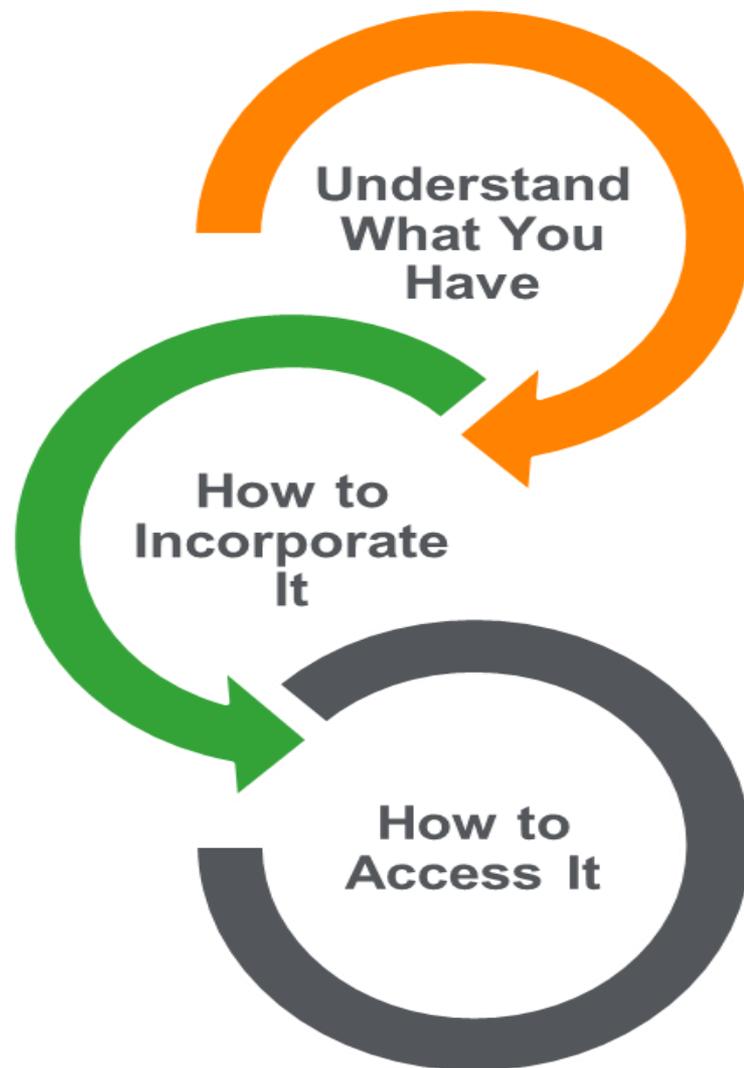
Agenda

Intro to ELSEVIER & eBooks

Data Driven Approach

Research Trends

Holdings: eBooks in Serbia



Evidence Based Selection (EBS)

Before committing to purchasing a particular title, it often makes sense to gauge its popularity with your patrons. The Evidence Based Selection (EBS) model offers "try-before-you-buy" access to your choice of content. For a minimal up-front fee, you pick from 24 different subjects in science, technology and medicine. At year's end, evaluate actual usage to determine what titles you'd like to keep. You receive perpetual access to those titles, up to the value of the initial EBS fee paid.

Features

- Choose the most valuable collections from across 24 subject areas in science, technology and medicine
- Discounted, one-time fee for 12 months of full access to the selected collections (DRM free), plus archival rights to hand-picked titles at the end of the year based on usage data

Details

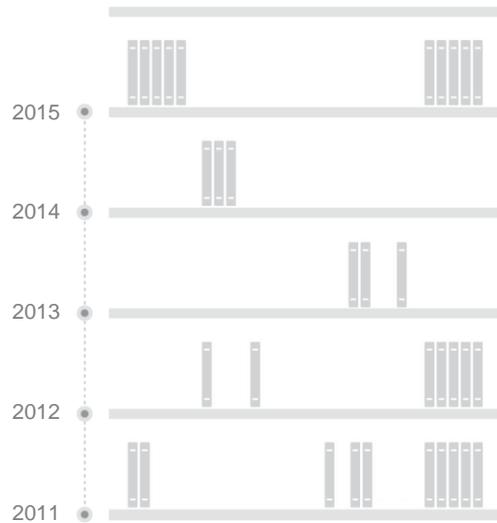
- EBS grants one (1) year of subscription access to selected eBook collection(s). After 10-11 months, you can pick and choose to perpetually purchase individual titles up to value (in current list price) of the paid fees

Scope

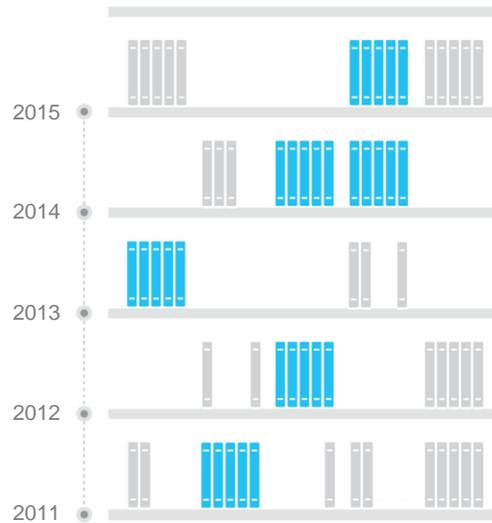
- EBS – access on ScienceDirect to all eBook subject collections published in 2012 - 2017. (more than 100 subject collections, more than 5000 titles)
- Consortium institutions in Serbia get access to Elsevier eBooks.
- Broader content accessible : all 24 subject areas
- The eBook EBS collection provides published content tailored made to support breakthroughs in research.
- eBook EBS Collection provides archival right in line with the level of investment.

Evidence Based Selection

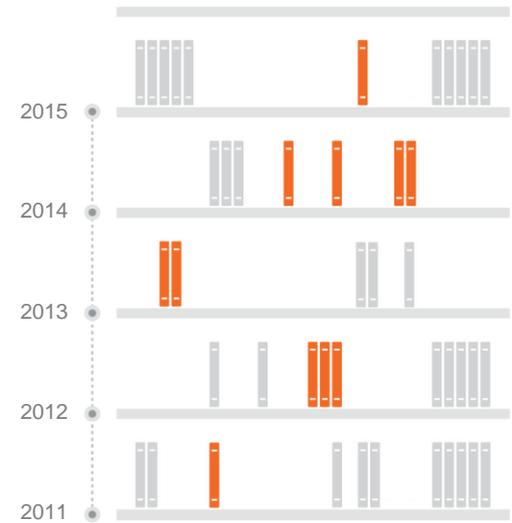
Existing Library
(before contract)



1-Year Access
(during contract)



Perpetual Ownership
(after contract)



Try before you buy – EBS Process



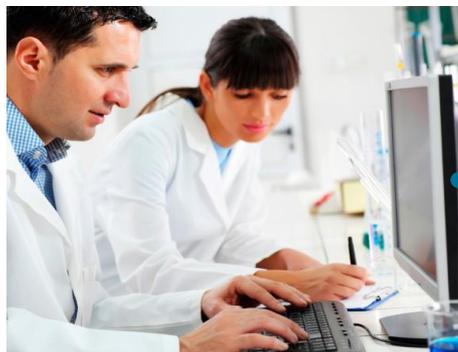
Select collections and gain access to them for 12 months, for a minimal, up-front fee

Review usage reports throughout the year

Pick and choose those titles you want to retain at the end of the period

What Makes Book Series on ScienceDirect the Perfect Compliment to Primary Research?

- Highly cited, high quality content and authorship
- Provides the methodologies or in-depth perspective researchers need
- Links to related monographs, reference works, and journal articles
- Instantly accessible to all users, all the time
- Powerful search and browse features
- Flexibility to download and print without restriction
- Increased discoverability and comprehensive usage reports



26,000 DRM-free titles across 24 subject areas

2018 Frontlist Collection* (# of Titles)

Agricultural, Biological and Food Sciences	118	Immunology and Microbiology	22
Biochemistry, Genetics and Molecular Biology	48	Materials Science	131
Biomedical Science and Medicine	78	Mathematics	10
Chemical Engineering	65	Neuroscience	56
Chemistry	47	Pharmacology, Toxicology and Pharmaceutical Science	38
Computer Science	7	Physics and Astronomy	4
Earth and Planetary Sciences	52	Psychology	28
Energy	86	Social Sciences	53
Engineering	197	Specialty Medicine	69
Environmental Science	38	Health Professions	9
Finance	25	Veterinary Medicine	7
Forensics, Security and Criminal Justice	25	Specialty Surgery	21
		Total # of Titles	1254

*Estimated number of titles for each subject package. Official # of titles published cannot be confirmed until the end of the year due to publishing changes.



IESBS 2nd Edition:

New and Updated Coverage, and a
more Representative Editorial Board

IESBS, 2nd edition updates reflect dominant trends in the social and behavioral sciences over the past two decades

The first edition of the International Encyclopedia of the Social and Behavioral Sciences was published in 2000

It has generated nearly **7,000** citations and about two million “hits” on ScienceDirect since publication and has stood as the reference volume of choice in social and behavioral science for fifteen years.

Globalization	Enhanced international coverage and increased diversity of editors and authors, as well as the coverage of subject matter
Specialization vs. Integration	Entire sections of IESBS 2 nd edition have been developed with interdisciplinarity as a central theme
Expert Curation	The authors and editors deployed in the creation of IESBS 2 nd edition comprise a small army of some 10,000 scholars
Coverage of Applications	Increased coverage of practical applications throughout, equipping readers with applied knowledge alongside theory
Integration of Social and Biological Sciences	Sections include a balanced mix of both the social and biological sciences, as well as coverage of their interaction

International Encyclopedia of Social and Behavioral Science, 2nd edition

Key New Sections:

Social Work

Gerontology and Aging

Life Course Studies

Sexuality

Criminology

Business, Marketing and Finance

Labor Studies

War, Peace, Violence and Conflict

Gay, Lesbian, Bisexual and Trans-sexual Studies

Applied Social and Behavioral Sciences



Over **90%** of the content is new or updated, and the number of sections has increased from **39** to **54**, to reflect disciplinary growth trends and support cutting edge research

Contemporary psychology and cognate behavioral sciences coverage has been greatly expanded to reflect research growth

Contemporary Psychology and Cognate Behavioral Sciences

Clinical Psychology	Memory: Cognitive and Neurosci. Aspects
Applied, Industrial and Org. Psychology	Linguistics A
Developmental Psychology	Linguistics B
Social Psychology	Neuroscience of Language
Personality Psychology	Behavioral Neuroscience
Motivational Psychology	Cognitive Neuroscience
Psychiatry	Cognitive Psychology

In comparison to the First Edition, the Second Edition provides:

IESBS incorporates comparative, cross-cultural, and international themes as well as perspectives into its research articles

- **33% more** nations represented in author base
- **3x** as many female editors
- **50%** fewer North American authors
- More international editorial board, author base, and more subject matter coverage

New countries represented on editorial board:



Luxembourg

Greece

Finland

Japan

China

Ireland

Singapore

Spain

Russia

Austria

Israel

Netherlands

In 2015, 785,309 search terms were used to discover IESBS...

...the top 367 terms used over 100 times provides to researchers seeking solutions





Reference Modules:
Hand-picked and regularly updated
collections that spark new lines of inquiry

Reference Modules Subject Areas

	Articles	Images	# of MRWs cited
Chemistry, Molecular Sciences and Engineering	4,700+	50,000+	22
Earth Systems and Environmental Sciences	4,500+	9,000+	TBD
Biomedical Sciences	5,000+	1,200+	13
Materials Science and Materials Engineering	2500+	1,200+	13
Food Sciences	2,370+	7,500+	8
Life Sciences	2,900+	13,000+	12
Neuroscience and Biobehavioral Psychology	3,900+	16,000+	20

“The reorganization of content from multiple works into a **single topic-based hierarchy** not only makes articles easy to find but also means the collection is more searchable. **Users don't have to guess which encyclopedia to look in** as they can simply click on the relevant topic.”

Library Journal review of Reference Module in Biomedical Sciences

Reference Modules are the one-stop subject solution

1 Continuously advancing

Content is continuously reviewed, updated, commissioned, and date-stamped

2 Authoritative

Each Reference Module is overseen by an expert editorial board appointed for their stature in their field

3 Cohesive

Covering all areas of the field, the Reference Modules provide understanding of the whole spectrum of the subject, essential for researchers and scholars working across multiple disciplines

4 On ScienceDirect

Links to relevant journal articles and book chapters on ScienceDirect for additional information and further research are included. Reference Modules are a primer for advancing research



Click through to a world of trusted content

The screenshot displays the ScienceDirect interface. On the left, a subject taxonomy menu is visible under the heading "Chemistry, Molecular Sciences and Chemical Engineering". The menu items are:

- Analytical Sciences and Chemometrics** (highlighted with an orange box and an arrow pointing to the right)
- Analytical Reagents, Extraction and ...
- Applications of Analytical Science
- Bioselective Reagents and Sensors
- Chemometrics, Mathematics and Sta...
- Chirality in Analytical Sciences
- Classical Techniques in Analytical Sc...
- Electrochemistry
- Flow Analysis and Microfluidics

On the right, the main content area shows the "Reference Module in Chemistry, Molecular Sciences and Chemical Engineering Encyclopedia of Spectroscopy and Spectrometry (Second Edition)". The page is from 2010, spanning pages 195-203. The article title is "Calibration and Reference Systems (Regulatory Authorities)" by Christopher Burgess. A time stamp "Current as of 14 January 2016" is highlighted with an orange box. Below the title, there is a "Show more" link. The DOI is 10.1016/B978-0-12-374413-5.00071-3. A "Get rights and content" link is also present.

See the time stamp, indicating the most recent review of the article

Click through the subject taxonomy to see the subject matter available



Book and Handbook Series:
A comprehensive snapshot of the
current state of research, offering
a fresh perspective

Series provide comprehensive knowledge on current research



Current
Research



Methods and
Protocols



Reviews

Over 5,000 research volumes, with 1,000+ book titles from 2010–2017

30 are in the top 2 quartiles of their Impact Factor category

- Methods in Enzymology
- Physics & Astronomy
- Chemistry
- Engineering
- Psychology
- Life Sciences
- Biochemistry, Genetics and Molecular Biology
- Agricultural and Biological Sciences
- Immunology and Microbiology
- Neuroscience
- Pharmacology, Toxicology and Pharmaceutical

25

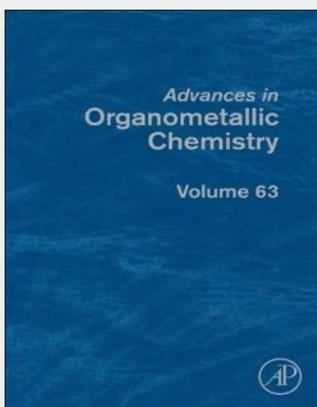
Serials are in the top quartile for 2016

13

Serials are in the top 10% for 2016

Prestigious editors and strong impact factors indicate value of content and publishing strategy

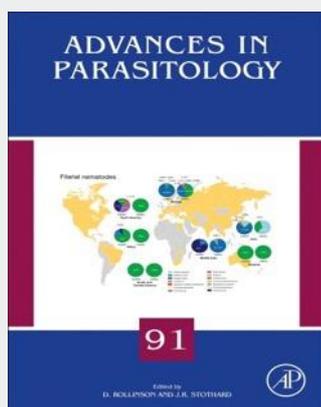
Serials: High-demand titles



Advances in Organometallic Chemistry

Citescore: 3.76

Editor now a fellow at the Royal Society of Chemistry, U.K.



Advances in Parasitology

Citescore: 4.71

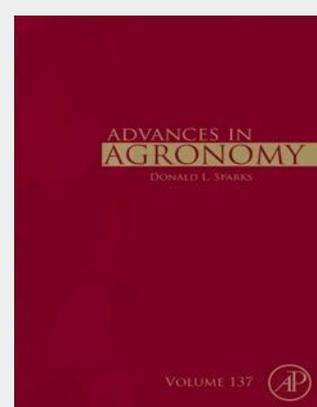
Editors based at the Natural History Museum, U.K. and Liverpool School of medicine, UK



Advances in Immunology

Citescore: 6.37

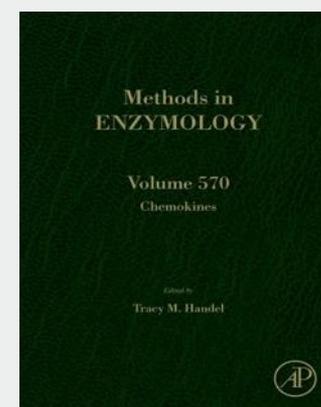
Editor based at Harvard, U.S.



Advances in Agronomy

Citescore: 4.63

2015 American Chemistry Society Geochemistry Award



Methods in Enzymology

Citescore: 1.83

Editors from Yale University and University of Pennsylvania

Book Series and Handbooks pricing models

Current Subscription

- Access to current year + 4 previous years
- Full archival rights from Day 1
- Available in collections or at the individual title level

Intermediate Backfile (IBF)

- Access to years in between current subscription and backfile
- Onetime purchase

Backfile

- Pre-2000 content.
- Access goes back to Vol. 1
- Onetime purchase
- Available in collections or at the individual title level

Current Subscription
(Current +4 years back)

+

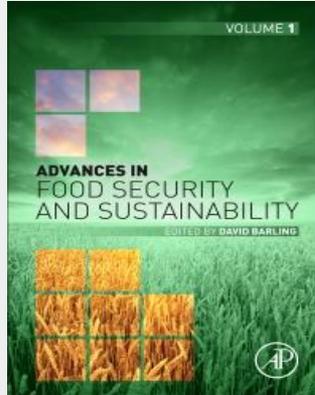
Intermediate Backfile

+

Backfile
(Pre-2000 back to Vol. 1)

New Book Series

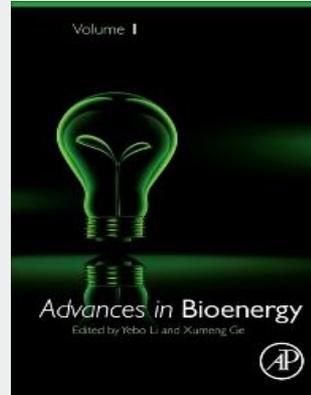
Providing the latest information in advancing and emerging trends



Advances in Food Security and Sustainability

Edited by Professor David Barling (University of Hertfordshire, UK) 1st volume published

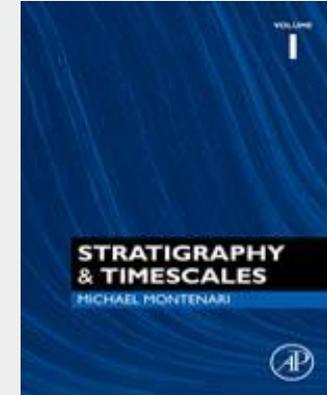
Covers a wide range of issues related to the principles and practices of food sustainability and security, exploring challenges related to protecting environmental resources while meeting human nutritional requirements.



Advances in Bioenergy

Edited by Professor Yebo Li (Ohio State University, USA) and Xumeng Ge (Ohio State University, USA)

Will explore the scientific, technological, social and economic impacts and constraints of biofuels and bioenergy. Covering all aspects of development, storage, distribution, safety, complications, and challenges.

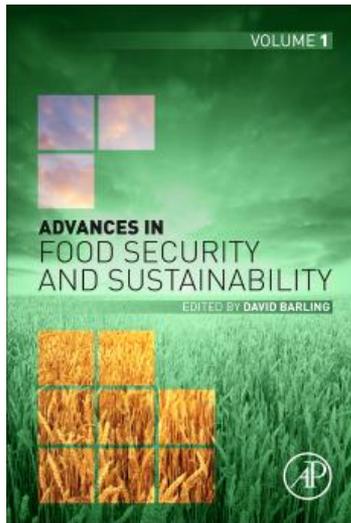


Stratigraphy and Timescales

Edited by Dr Michael Montenari (Keele University, UK) 1st volume publishing December 2016

Stratigraphy and Timescales covers current research across a wide range of stratigraphic disciplines, providing information on recent developments for the geoscientific research community.

New: Advances in Food Security and Sustainability



SERIES EDITOR:

David Barling

The Centre for Agriculture,
Food & Environmental
Management, School of Life &
Medical Sciences, University
of Hertfordshire, UK

Series Overview

- Takes a scientific look at the challenges, constraints, and solutions necessary to maintain a healthy and accessible food supply in different communities around the world
- Explores the challenges related to protecting environmental resources while meeting human nutritional requirements
- Advances in Food Security & Sustainability publishes timely reviews on recent research in the field



Methods in Enzymology

Methods in Enzymology is the Perfect Complement to Primary Research

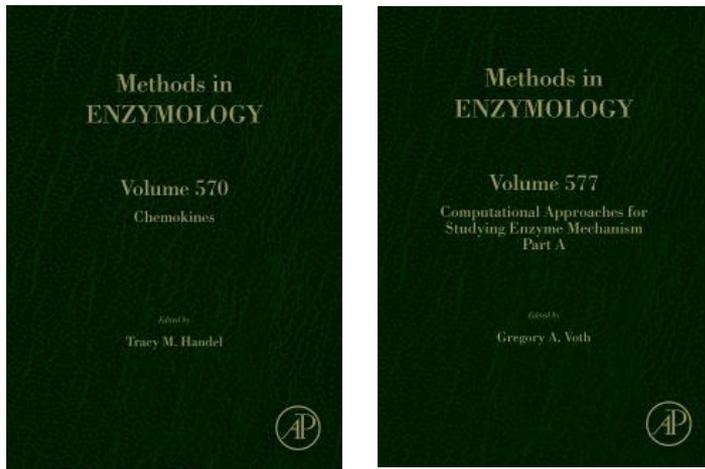
The critically acclaimed gold standard of laboratory practices and the most highly respected publications in the molecular biosciences

Nearly
600 Volumes
published from 1955-2017

**#1 most
downloaded**
and used ebook series on
ScienceDirect

One of the most
highly respected publications
in the field of biochemistry and molecular biosciences

High-Profile Contributors and Authors



66 Nobel Laureates have contributed to the Methods in Enzymology series, including **five of the nine 2013 Nobel Laureate** winners in Physiology, Chemistry and Physics

Contributors and Authors

Arieh Warshel

James E. Rothman

Martin Karplus

Randy W. Schekman

Sir John B. Gurdon

Thomas C. Sudhof

Jack W. Szostak

Ralph M. Steinman

Avram Hershko

Peter Agre

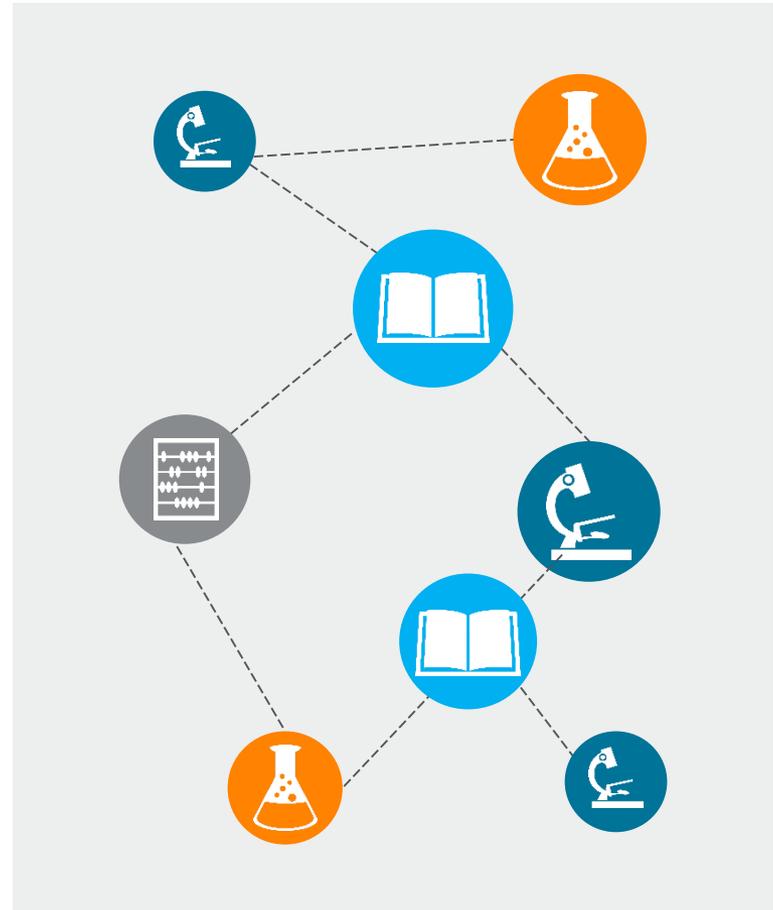
Roger D. Kornberg

Osamu Shimomura

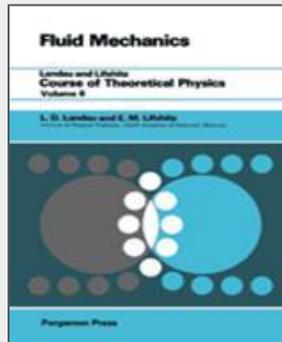
Includes Key Experimental Protocols

Sample of Protocols with details on techniques critical knowledge for researchers in life sciences

- Separation and purification of the enzyme, enzyme kinetics mechanism
- Transgenic, RNA interference, microarray, gene therapy
- Crystallization of biological macromolecules, sequencing analysis of biomolecules
- Cell Culture
- Immunochemistry
- Cell Signal Transduction Technology
- Nuclear magnetic resonance, laser capture microscopy, confocal microscopy
- Genomics, proteomics, metabolomics, functional glycomics
- High performance liquid chromatography, mass spectrometry
- Computer simulation, drug design, drug and nucleic acid interactions, protein-protein interactions
- research techniques about Mouse developmental biology
- Biosynthesis of natural products
- Stem cell and tissue culture techniques
- Study important diseases such as: cancer, diabetes

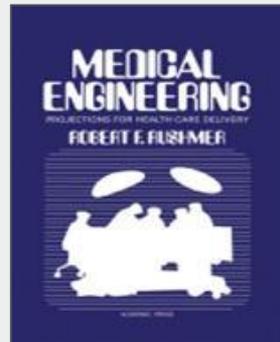


Chemical Engineering



Interfacial Phenomena by
J.T. Davies and
E.K. Rideal

The Corrosion Guide
Erich Rabald



Adsorptive Bubble Separation Techniques
Robert Lemlich



Over the Counter Pharmaceutical Formulations
David D. Braun

Flow Visualization
Wolfgang Merzkirch
Recipient:
1998/International Symposium on Flow Visualization
Leonardo da Vinci Award Winner

Chemistry

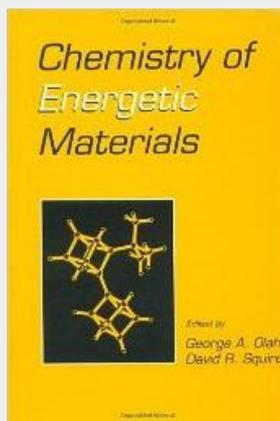


Chemistry of Energetic Materials

George A. Olah

is the primary editor

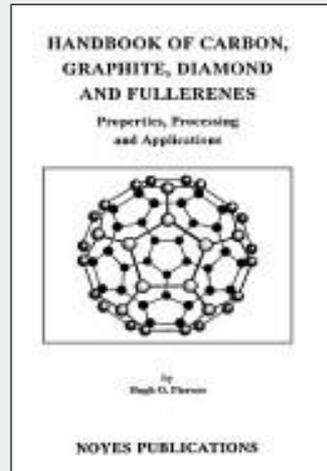
Recipient: **1994 Nobel Prize in Chemistry**



“In this one book are contributions from three Nobel Laureates and seven members of the National Academy of Science which speaks for itself that this is a very active field of fundamental science with far reaching practical importance.”

— *George A. Olah, 1994 Nobel Laureate in Chemistry and Founding Director of the USC Loker Hydrocarbon Research Institute*

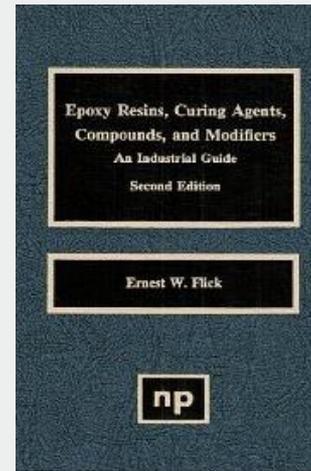
Materials Science



Handbook of Carbon, Graphite, Diamonds and Fullerenes

Distinguished teacher and engineer

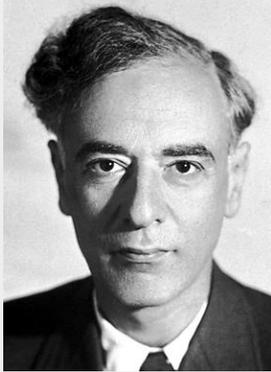
[Hugh O. Pierson](#)



Second edition of the: Epoxy Resins, Curing Agents, Compounds, and Modifiers

[Ernest W. Flick](#)

Physics and Astronomy



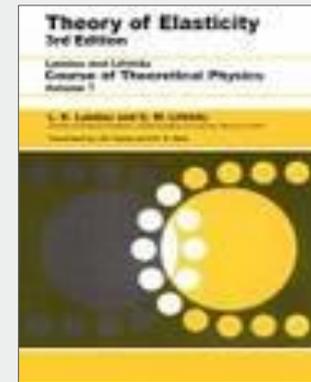
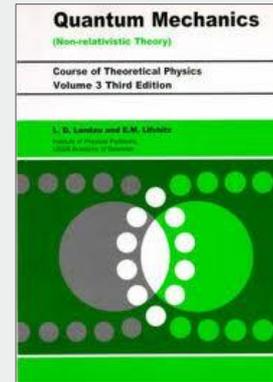
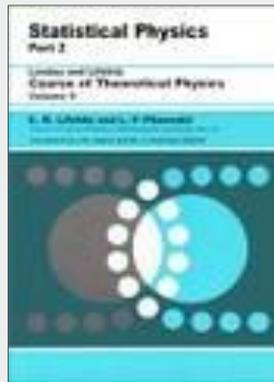
**Titles by 1962 Nobel Prize
Winner in Physics:**

Lev Davidovich Landau

Statistical Physics

Quantum Mechanics

Theory of Elasticity

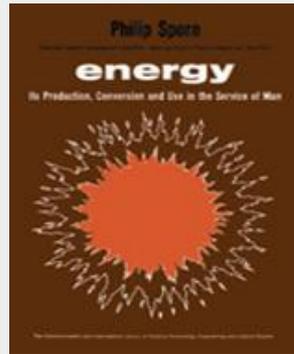
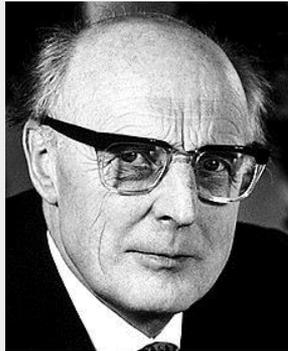


**The collection includes
the bestselling book:**

Quantum Mechanics

Landau and Lifshitz

Energy

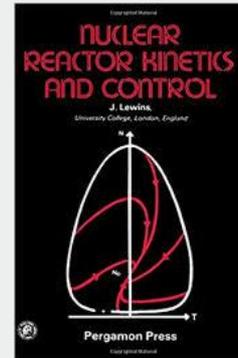


Nobel Prize winners and experts in nuclear power, including:

Energy Storage

J. Hans D. Jensen

Recipient of the Nobel Prize in Physics, 1963

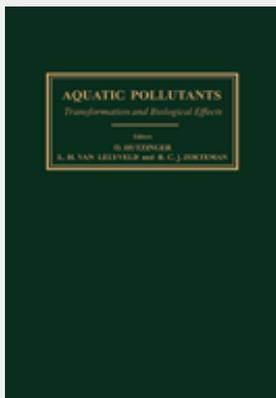


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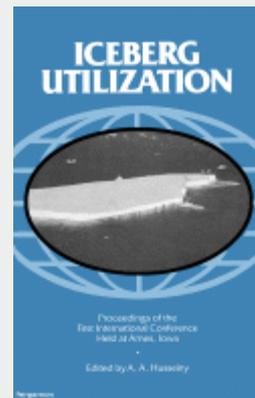
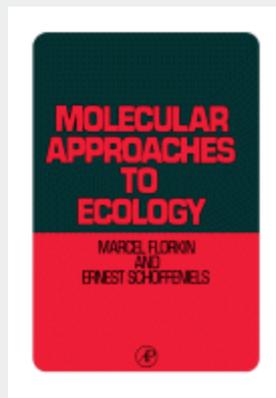
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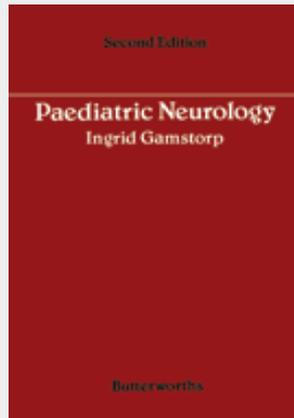


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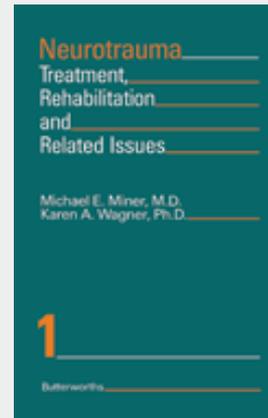


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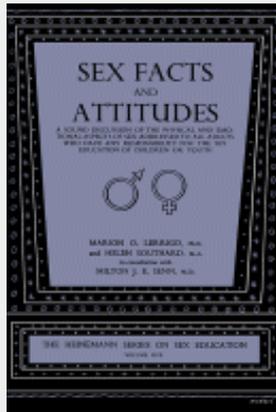


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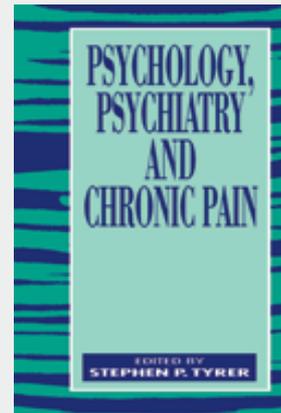
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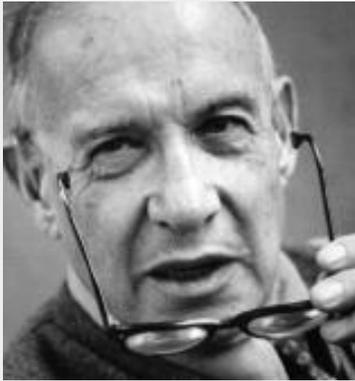


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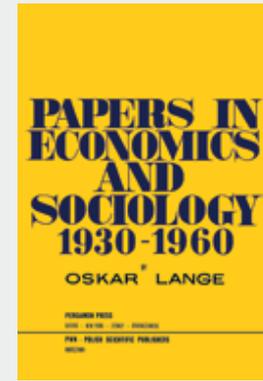
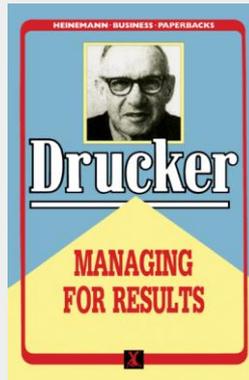
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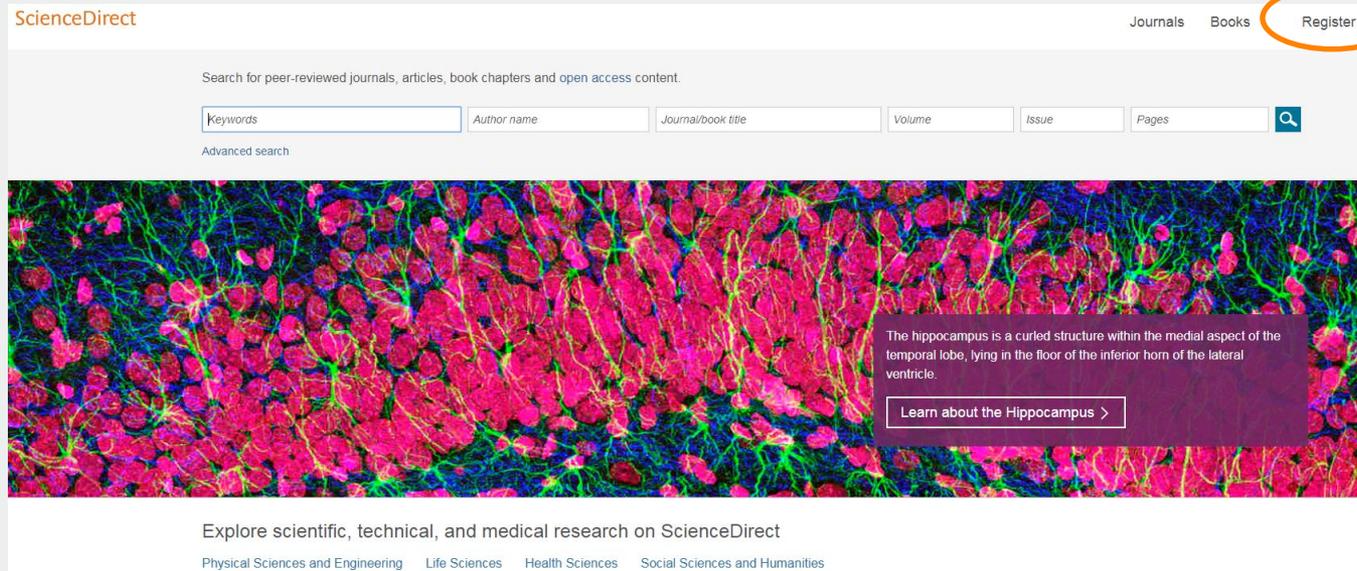
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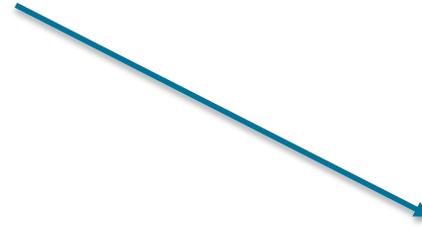
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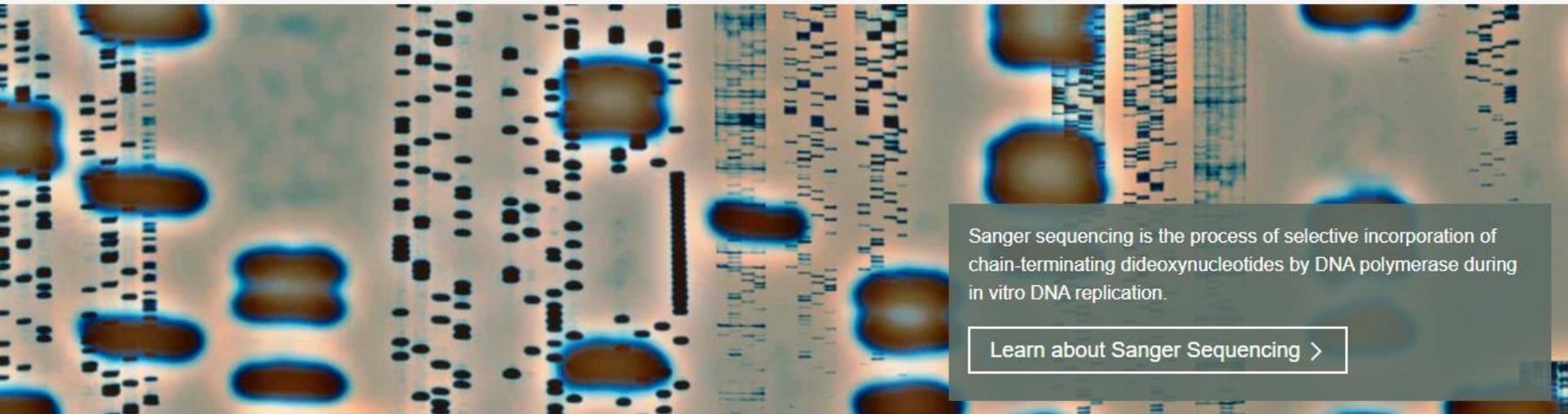
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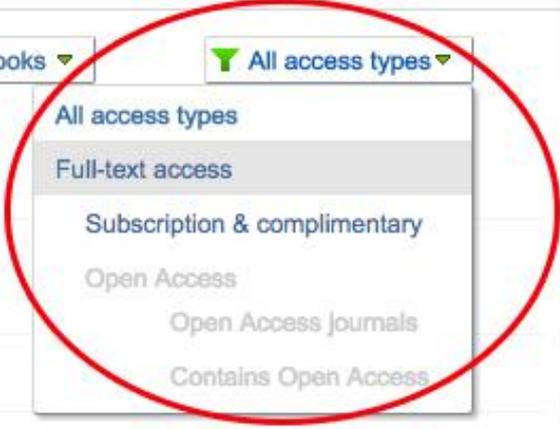
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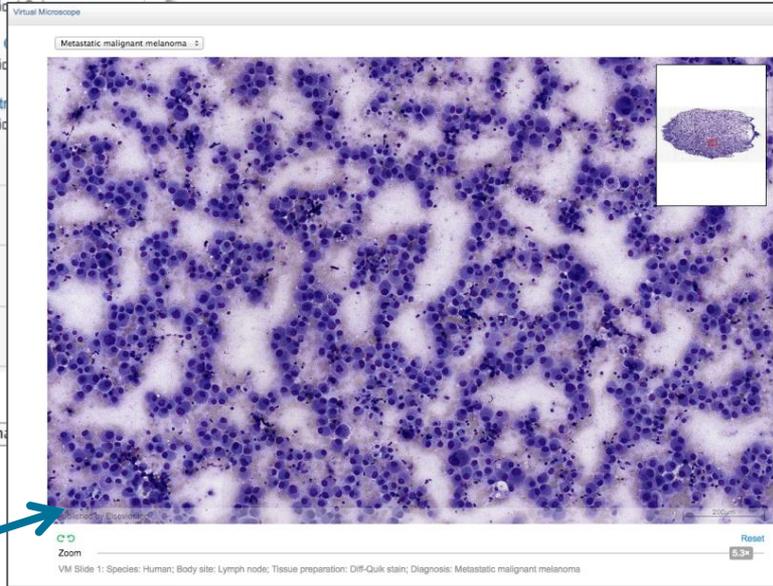
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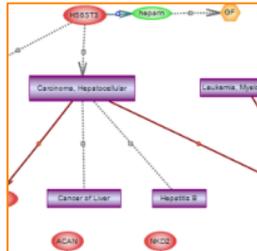
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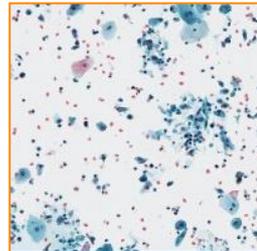




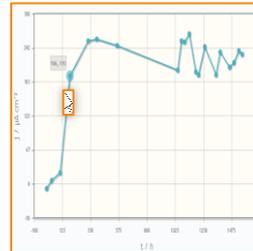
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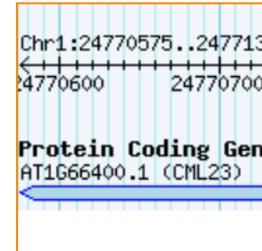
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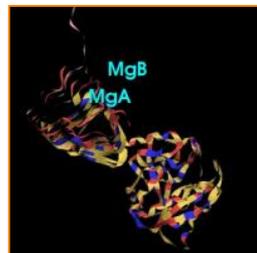
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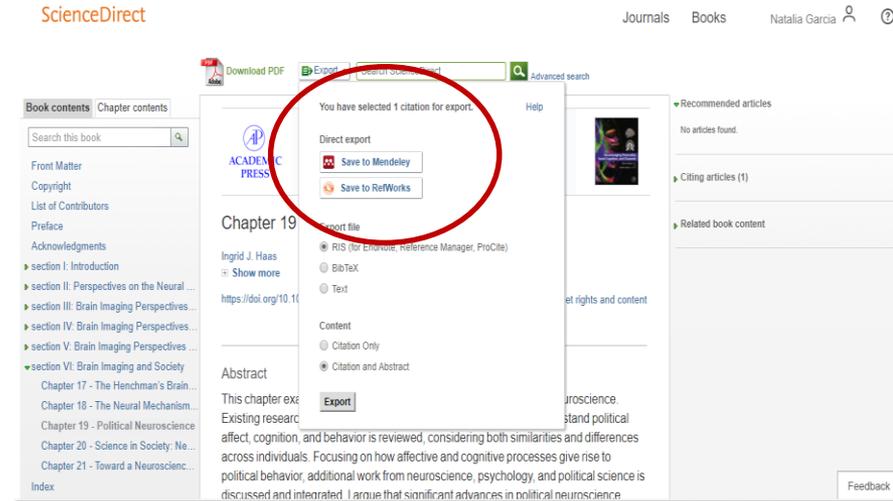
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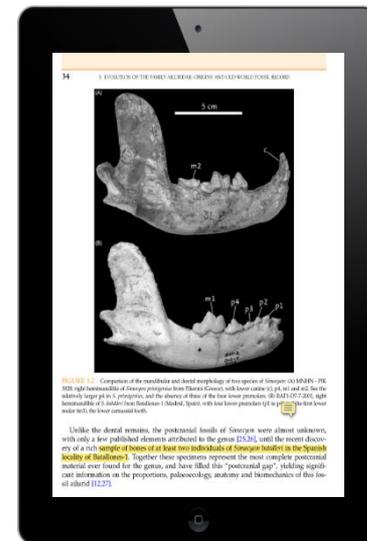


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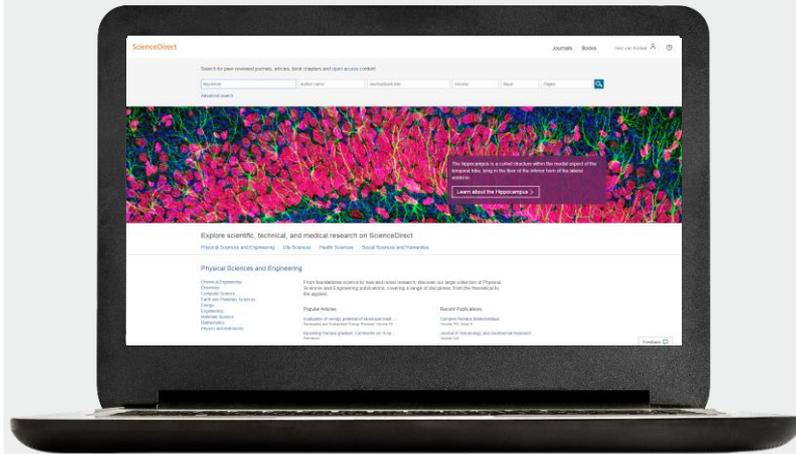
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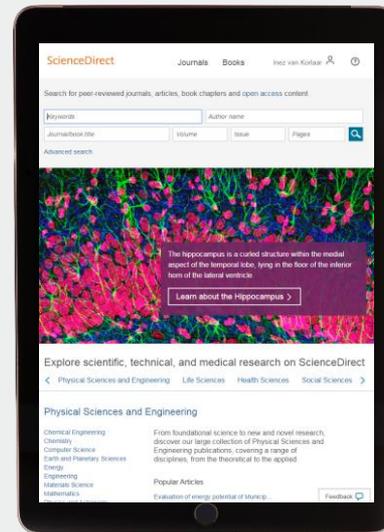
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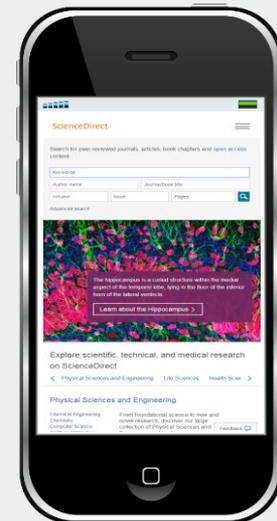
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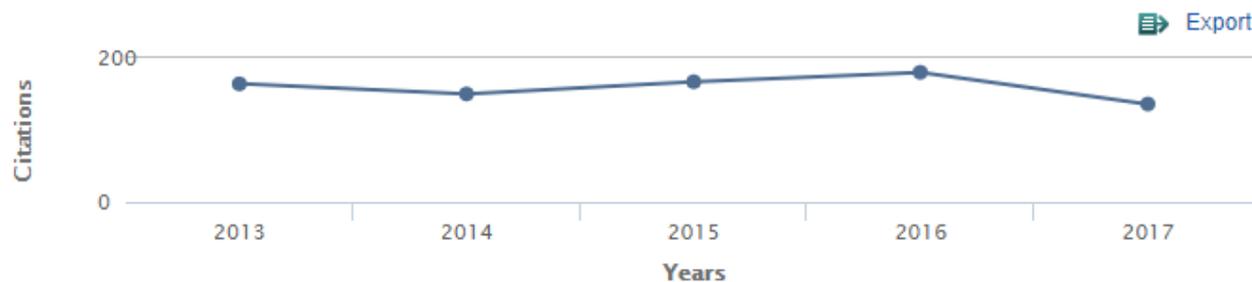
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Stochastic Processes in Physics and Chemistry
2007, 463p

Stochastic Processes in Physics and Chemistry

Book

Kampen, N.G.V.

Institute of Theoretical Physics, University of Utrecht, Netherlands

Abstract

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The third edition of Van Kampen's standard work has been revised and updated. The main difference with the second edition is that the contrived application of the quantum master equation in section 6 of chapter XVII has been replaced with a satisfactory treatment of quantum fluctuations. Apart from that throughout the text corrections have been made and a number of references to later developments have been included. From the recent textbooks the following are the most relevant. C.W.Gardiner, Quantum Optics (Springer, Berlin 1991) D.T. Gillespie, Markov Processes (Academic Press, San Diego 1992) W.T. Coffey, Yu.P.Kalmykov, and J.T.Waldron, The Langevin Equation (2nd edition, World Scientific, 2004) * Comprehensive coverage of fluctuations and stochastic methods for describing them * A must for students and researchers in applied mathematics, physics and physical chemistry. © © 2007 Elsevier B.V. All rights reserved.

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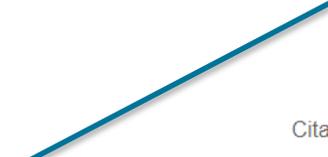
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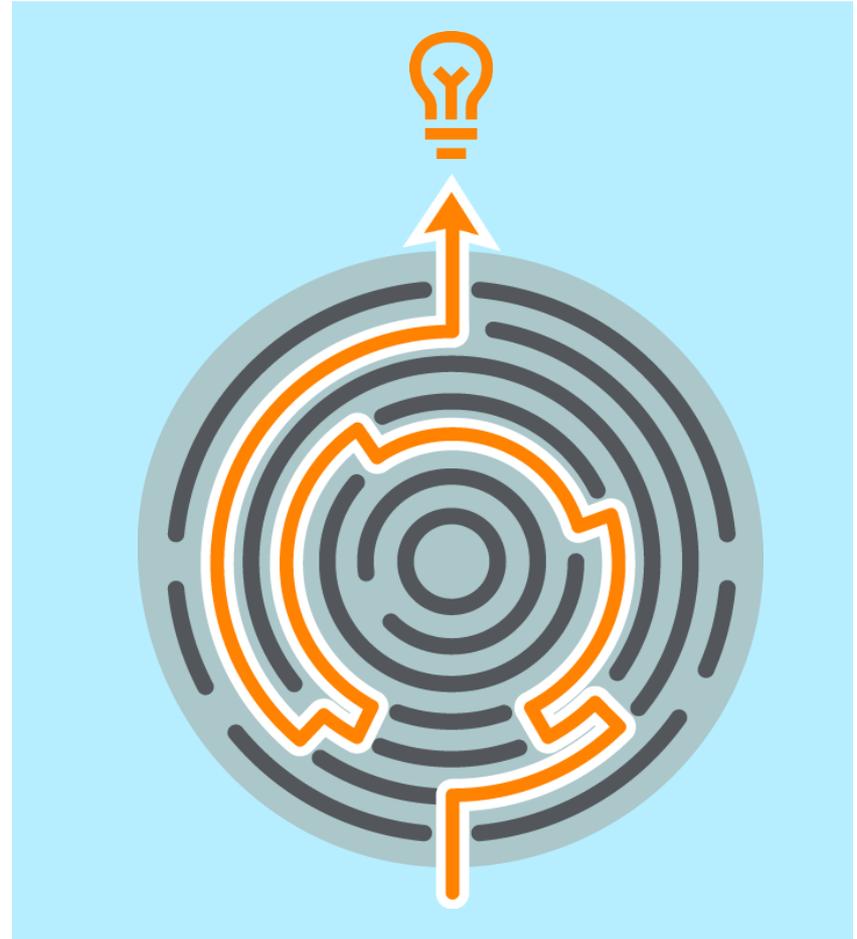
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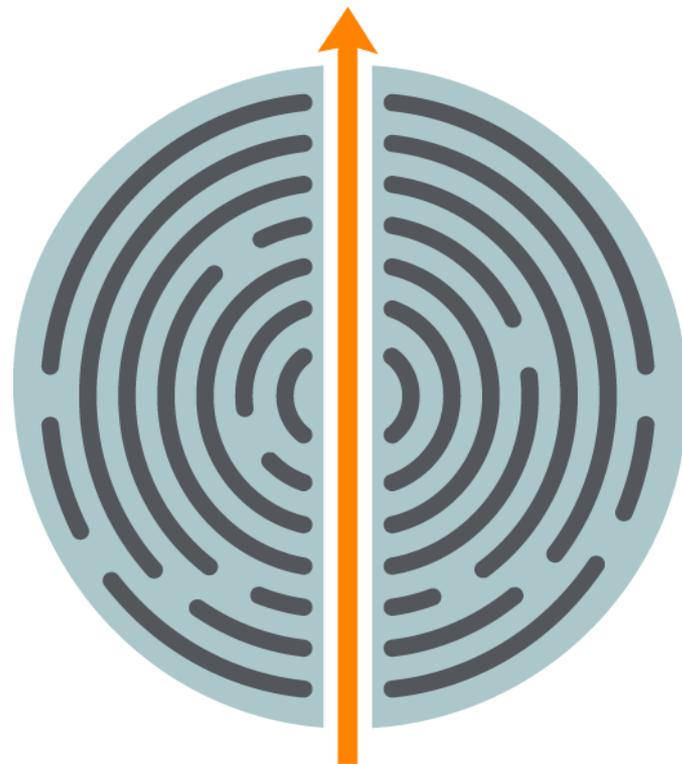
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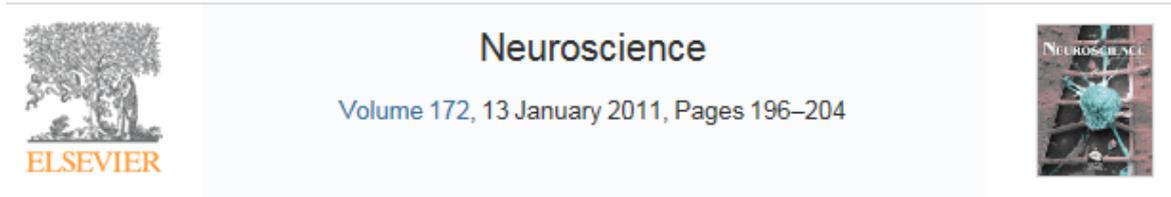
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Cognitive, Behavioral, and Systems Neuroscience

A sex comparison of the anatomy and function of the main olfactory bulb–medial amygdala projection in mice

N. Kang^a, E.A. McCarthy^a, J.A. Cherry^b, M.J. Baum^a  

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Abstract

We previously reported that some main olfactory bulb (MOB) mitral/tufted (M/T) cells send a direct projection to the “vomeronasal” amygdala in female mice and selectively respond to volatile male mouse urinary odors. We asked whether MOB M/T cells that project to the vomeronasal amygdala exist in male mice and whether there is a sexually dimorphic response of these neurons to volatile male urinary pheromones.

Gonadectomized male and female mice received bilateral injections of the retrograde

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JOURNAL ARTICLE

TOPIC PAGE

Clinical Neurology and Neurosurgery
Volume 109, Issue 2, February 2007, Pages 206–209

Case report
Recurrent limbic and extralimbic encephalitis associated with thymoma

Kenji Okita^a, Noryuki Matsukawa^a, Manabu Hattori^a, Kentaro Yamada^a, Koji Takada^a, Takemoto Yamawaki^a, Mani Yoshida^a, Yoshio Hashizume^a, Kosei Ojika^a

<http://dx.doi.org/10.1016/j.clineuro.2006.09.007> [Get rights and content](#)

Abstract
A 33-year-old woman, with a 7-year clinical history of invasive thymoma treated at ages 26 and 30 years by thymectomy and radiation, presented with a generalized convulsion and loss of consciousness. Following the seizure there was no neurological deficit and normal tendon reflexes. Magnetic resonance imaging (MRI) of the brain without gadolinium enhancement revealed multiple small lesions of high signal intensity on T2 and diffusion weighted images located in the cortical area beyond the temporal lobes. Brain biopsy demonstrated **Encephalitis** with activated microglia and activated T-cell infiltration. MRI findings were consistent with the pathologic changes of the thymoma.

ScienceDirect Journals Books

Back to article > Encephalitis

Encephalitis

Encephalitis is an acute inflammation of the brain, commonly caused by a viral infection.
From: *Encyclopedia of Neuroscience*, 2009

Related terms
Enterovirus, HIV, Herpes simplex virus type 1, Viral encephalitis, Bull's-eye, Epidemiology, VEV, Acute meningitis, Fraxinus, Herpes simplex virus 1

Learn more about Encephalitis

<h3>Encephalitis</h3> <p>Karen L. Roos, in <i>Handbook of Clinical Neurology</i>, 2014.</p> <p>Introduction</p> <p>Encephalitis is an infectious or inflammatory disorder of the brain manifest by fever and headache and associated with a depressed level of consciousness, an altered mental status (confusion, behavioral abnormalities), focal neurologic deficits, or new onset seizure activity.</p> <p>This chapter will address the viral etiologies of encephalitis. Other chapters in this volume address the bacterial, fungal, spirochetal, and parasitic etiologies of encephalitis. The California Encephalitis Project was initiated in 1958 to increase the</p>	<h3>Viral Infections</h3> <p>Karen L. Roos, in <i>Textbook of Clinical Neurology (Third Edition)</i>, 2007.</p> <h4>Western Equine Encephalitis</h4> <p>Western equine encephalitis tends to occur in children younger than age 1 year and in adults older than age 50.¹⁴ Inapparent infections with western equine encephalitis virus are more common than symptomatic cases. Like the other arthropod-borne encephalitides, western equine encephalitis begins with an influenza-like syndrome of fever, malaise, myalgias, pharyngitis, and vomiting. As the disease progresses, irritability, convulsions, or coma develops.⁴⁸</p>
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ScienceDirect Topics help researchers get a quick overview on a topic and related content

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Journals Books Register

The screenshot shows the ScienceDirect Topics page for 'Amygdala'. It features a dark header section and a light grey main content area. Three numbered callouts (1, 2, and 3) are overlaid on the page to highlight key features:

- 1**: Points to a short definition of the amygdala: "The amygdala is an almond-shaped structure located within the anterior portion of the temporal lobes, comprising a component of the limbic system and known to play a part in controlling emotion, motivation, and memory. From: *Social Anxiety (Third Edition)*, 2014".
- 2**: Points to a list of related terms: "Hippocampus, Hypothalamus, Prefrontal cortex, Limbic system, Dopamine, Striatum, Nucleus accumbens, Thalamus, Epileptic seizure, Stria terminalis".
- 3**: Points to a book excerpt titled "Amygdala" by Deniz M. Yilmazer-Hanke, from *The Human Nervous System (Third Edition)*, 2012. The excerpt begins: "The human amygdala is a high-order limbic brain region almost exclusively of telencephalic origin, which is located in the mesiotemporal region and extends into the basal forebrain. It is a nuclear complex composed of cell groups sharing similarities with neurons in the cerebral cortex, striatum, pallidum, anterior".

- 1 Short definition*
- 2 Related terms
- 3 Excerpts from relevant Book content

*When a short definition is not available, the longer definition can be found in Book excerpts

Topic pages connect key terms with their broader context

Clinical Neurology and Neurosurgery
Volume 109, Issue 2, February 2007, Pages 206-209

Case report
Recurrent limbic and extralimbic encephalitis associated with thymoma

Kenji Okita^a, Noryuki Matsukawa^a, Manabu Hattori^a, Kentaro Yamada^a, Koji Takada^a, Takemori Yamawaki^a, Masashi Yoshida^a, Yoshio Hashizume^a, Kohei Ojima^a

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<http://dx.doi.org/10.1016/j.clineuro.2006.06.007> [Get rights and content](#)

Abstract
A 33-year-old woman, with a 7-year clinical history of invasive thymoma treated at ages 26 and 30 years by thymectomy and radiation, presented with a generalized convulsion and loss of consciousness. Following the seizure there was no neurological deficit and normal tendon reflexes. Magnetic resonance imaging (MRI) of the brain without gadolinium enhancement revealed multiple small lesions of high signal intensity on T2 and diffusion weighted images located in the cortical area beyond the temporal lobes. Brain biopsy demonstrated encephalitis with activated microglia and activated T-cell infiltration. Within 4 months of treatment with nothing other than anticonvulsant therapy.

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Pyramidal tracts

The pyramidal tract exits the cortex, and after passing the pyramids of the medulla, the majority of these fibers cross to the opposite side and descend in the corticospinal tract through the spinal cord (Figure 1). Some of the fibers that do not cross over in the medulla descend ipsilaterally down the cord and cross to the opposite side in the neck or upper thoracic region.

From: *Neurology: Basic Science in Neurological Research*, 2014

Learn more about Pyramidal tracts

Spinal Tracts – Descending/Motor Pathways
Paul Rios, in *Essential Clinical Anatomy of the Nervous System*, 2015.

Spinal Cord
Edgardo Sampedro, Charles Waters, in *The Human Nervous System (Third Edition)*, 2012.

Corticospinal Tract
The corticospinal tract, also called the pyramidal tract because its fibers form the medullary pyramids, is found in all mammals with considerable variation between species. The dorsal lateral tract is the major corticospinal bundle, based in the dorsal lateral column in rodents, its highly developed and the major bundle is in the lateral column. The fibers that give rise to the corticospinal tract in adult mammals descend from the caudum of the precentral gyrus and the...

Handbook of Neuroendocrinology
2012, Pages 497-507

Chapter 21 – Stress and Brain Function

Saiki Katsunori, Bruce S. McEwen

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Publisher Summary
This chapter discusses how the hippocampus, prefrontal cortex and amygdala are affected by stress, and how these stress-induced changes relate to changes in behavior. Located in the medial temporal lobe, the hippocampus is one of the most plastic and sensitive regions of the brain. It is crucially important in both cognitive function and emotionally. While glucocorticoids are a key part of stress induced changes in...

Essential Clinical Anatomy of the Nervous System
2015, Pages 103-126

Chapter 9 – Spinal Tracts – Descending/Motor Pathways

Paul Rios

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Abstract
This chapter will discuss in detail, the major descending and motor pathways. It will discuss the differences between the pyramidal and extrapyramidal tracts. Specifically, this chapter will examine the course of the corticospinal and corticobulbar tracts, as well as the extrapyramidal vestibulospinal, olivospinal, rubrospinal, rubroreticular, tectospinal tracts as well as the dorsal and medial longitudinal fasciculi.

Keywords
spinal tracts, medulla, pyramidal tracts, motor pathways

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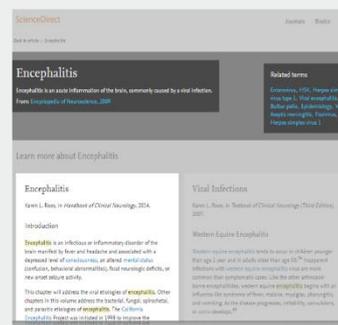
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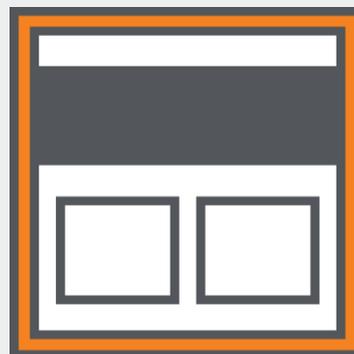
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The screenshot shows a Google search for "pyramidal tracts". The search bar contains the text "pyramidal tracts" and the search button is visible. Below the search bar, there are tabs for "All", "Images", "Videos", "Shopping", "News", "More", "Settings", and "Tools". The search results are displayed below, starting with "About 369,000 results (0.61 seconds)".

The first result is "Pyramidal tracts - Wikipedia" with the URL https://en.wikipedia.org/wiki/Pyramidal_tracts. The description states: "The **pyramidal tracts** include both the corticospinal and corticobulbar tracts. These are aggregations of upper motor neuron nerve fibres that travel from the cerebral cortex and terminate either in the brainstem (corticobulbar) or spinal cord (corticospinal) and are involved in control of motor functions of the body." It also includes links for "Structure", "Function", "Clinical significance", and "Additional images".

The second result is "The Descending Tracts - Pyramidal - TeachMeAnatomy" with the URL teachmeanatomy.info/neuro/pathways/descending-tracts-motor/. It has a rating of 4.8 stars from 138 votes and a date of Feb 4, 2017. The description says: "The motor **tracts** can be functionally divided into two major groups: **Pyramidal tracts** – These **tracts** originate in the cerebral cortex, carrying motor fibres to the spinal cord and brain stem. They are responsible for the voluntary control of the musculature of the body and face."

The third result is "Pyramidal tracts - ScienceDirect Topics" with the URL www.sciencedirect.com/topics/page/Pyramidal_tracts. This result is circled in red. The description states: "The **pyramidal tract** exits the cortex, and after passing the pyramidal decussation of the medulla, the majority of these fibers cross to the opposite side and descend in the..."

The fourth result is "Pyramidal tract and extra pyramidal tracts - SlideShare" with the URL <https://www.slideshare.net/.../pyramidal-tract-and-extra-pyramidal-tracts-45668563>. It is dated Mar 10, 2015. The description says: "**Tracts** originating from the brain and descending in to spinal cord These **tracts** are concerned with various motor activities of body Two ..."

Below the search results, there is a section titled "Images for pyramidal tracts" which shows a row of seven anatomical diagrams. Below the images, there is a link "More images for pyramidal tracts" and a "Report images" button.

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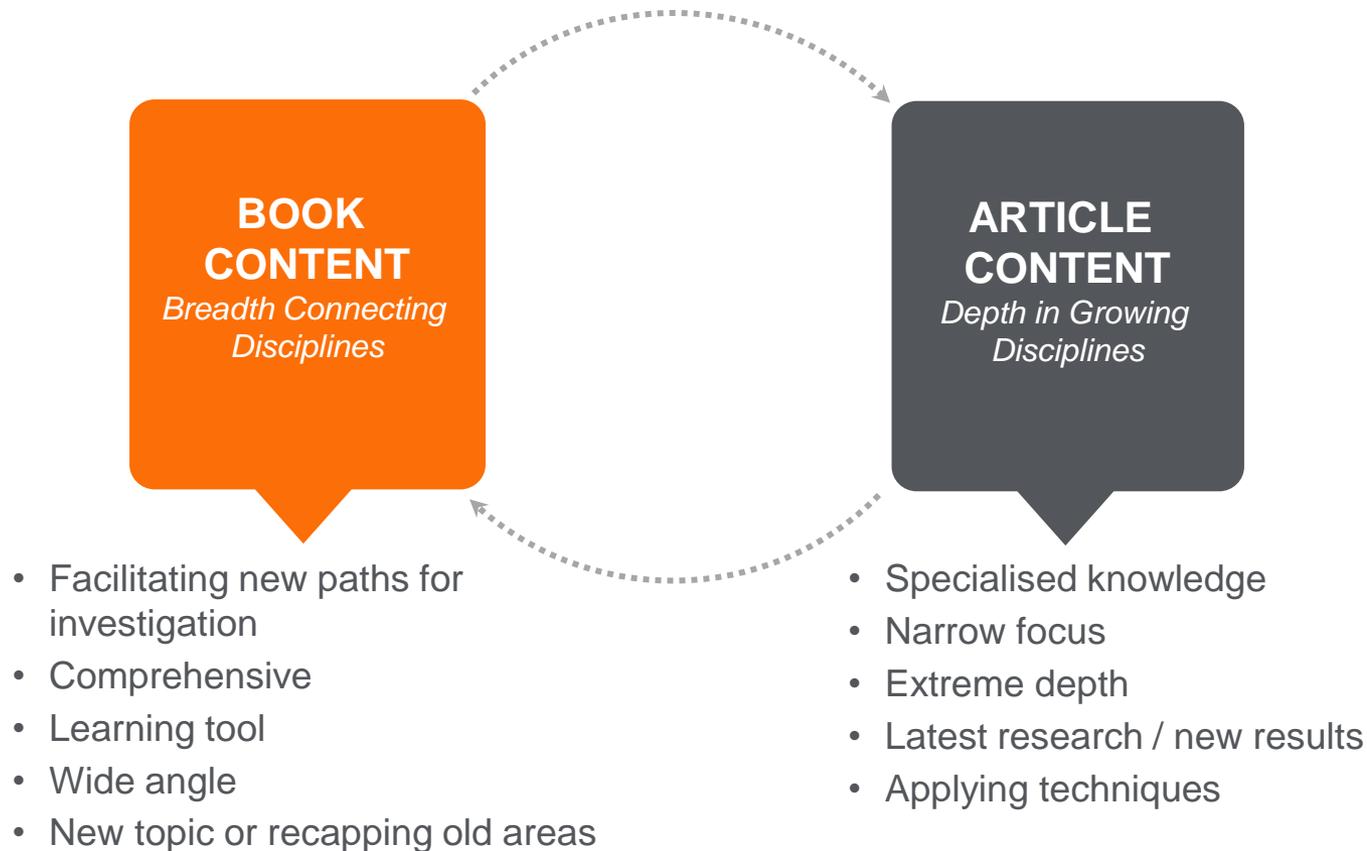
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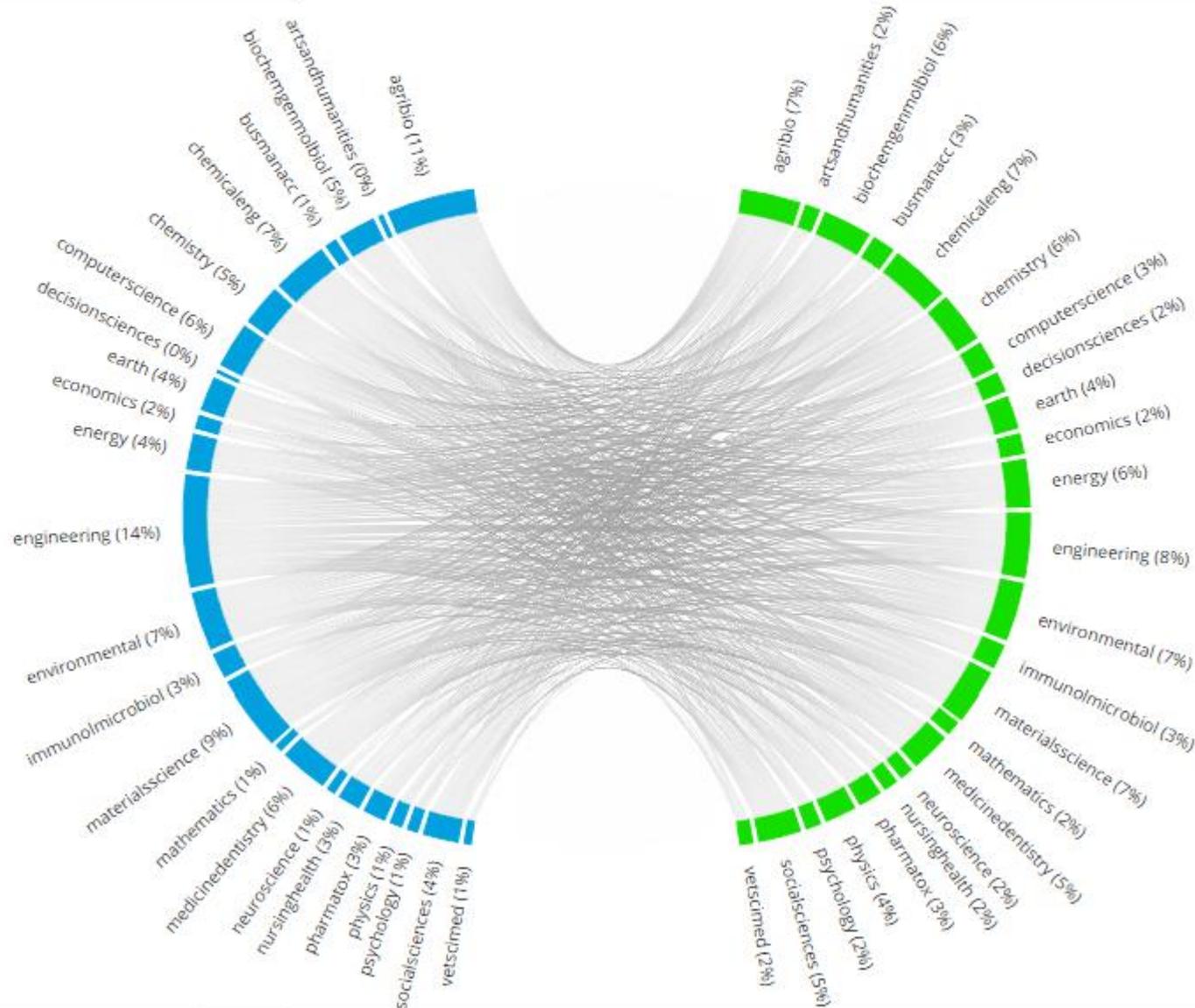
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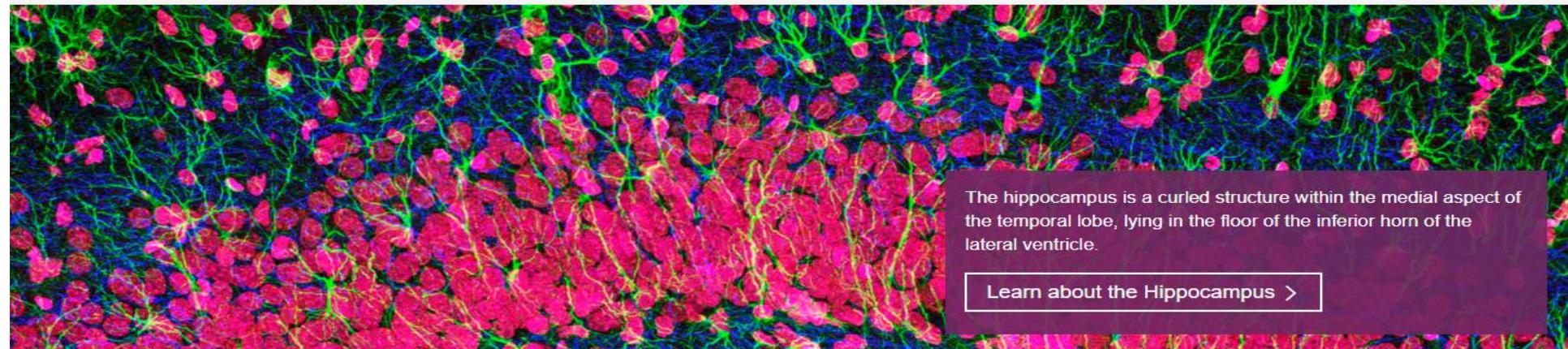
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