



Engineering Village

Compendex

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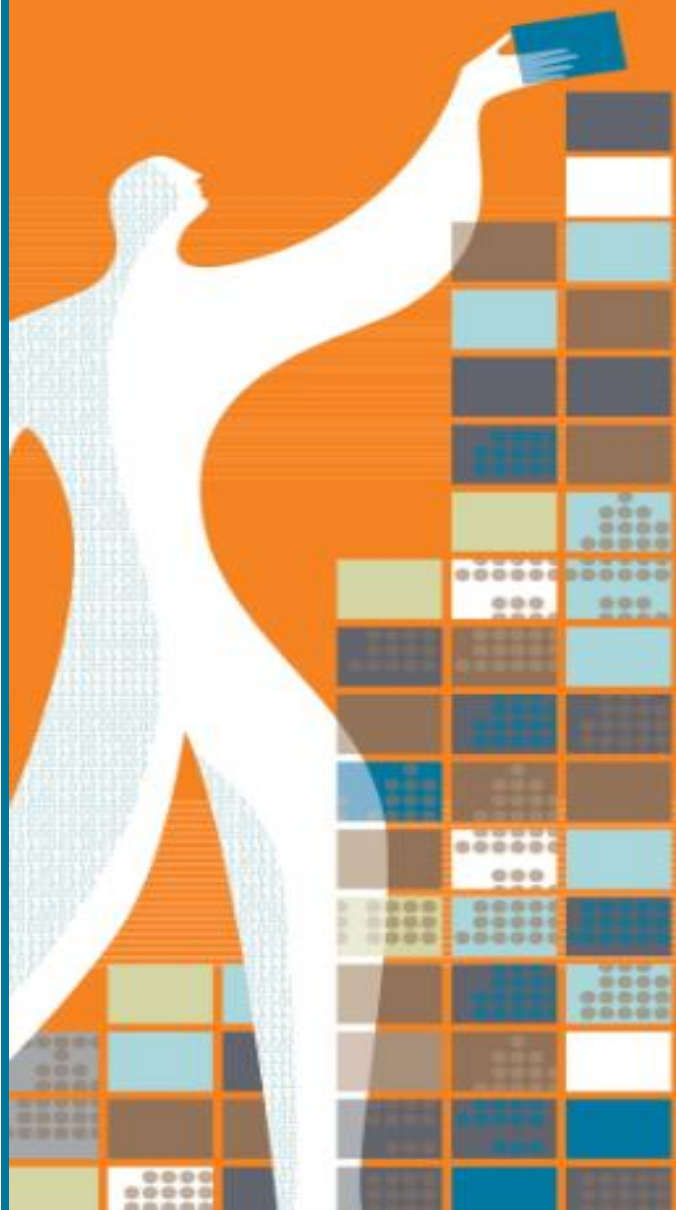
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- Gerente de Soluções





ELSEVIER



Bases de dados
Elsevier disponíveis
no Portal de
Periódicos da CAPES:

ScienceDirect®
(Periódicos e eBooks)

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os recursos do
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ELSEVIER

Empowering Knowledge



Quem é e o quê faz a Elsevier?

<http://elsevier.com>

- ✓ Líder mundial em informação e estudos da ciência e medicina.
- ✓ Mais de 130 anos de atividades editoriais
- ✓ 7.000 sócios editoriais (revistas), 70.000 membros de conselhos editoriais, 30.000 revisores e 600.000 autores
- ✓ 7.000 funcionários 24 países.

Provedor Global de Informação Analítica
especializado em Ciência e Saúde

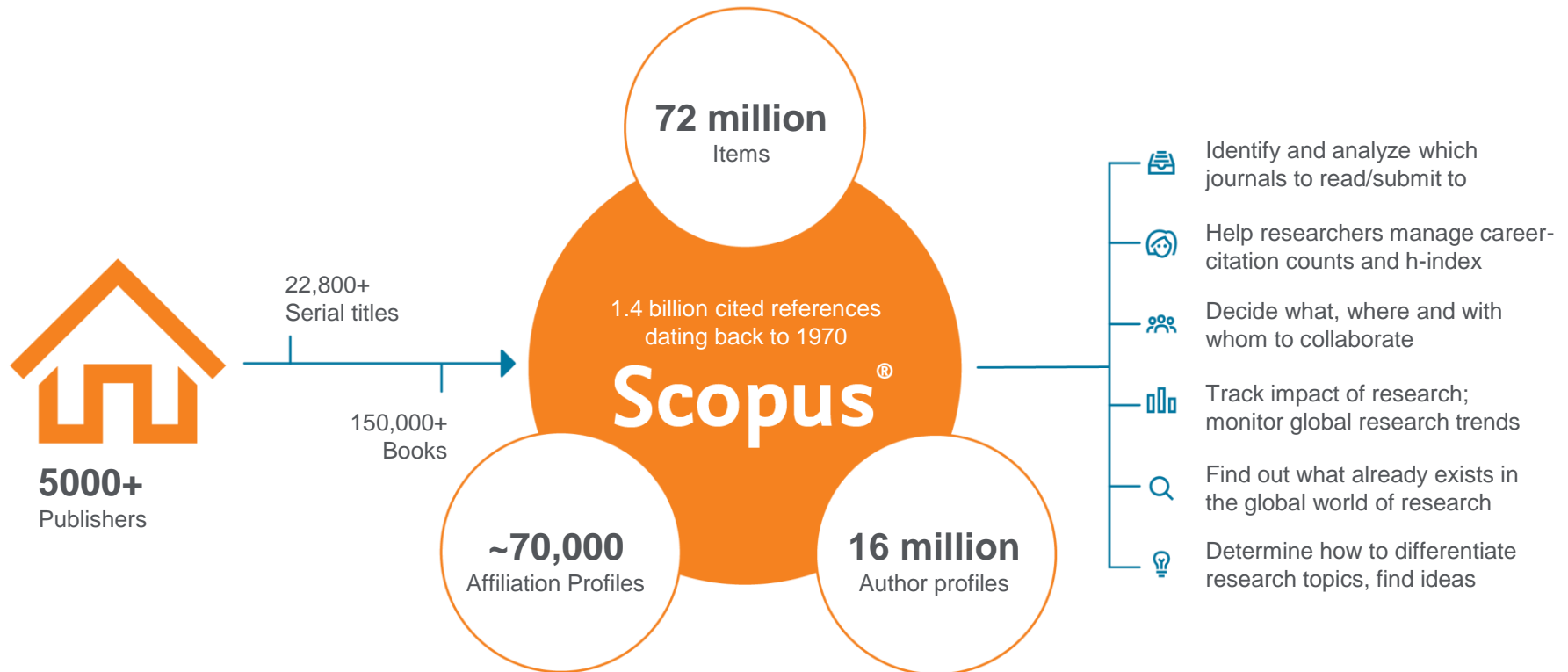
Information Analytics, uniting Content & Technology

10 major Engineering challenges of the next decade (USA)

<https://www.elsevier.com/rd-solutions/industry-insights/other/10-major-engineering-challenges-of-the-next-decade>

- 1. Upgrading the sagging U.S. infrastructure.** The American Society of Civil Engineers gives our aging infrastructure a D+ grade and estimates that \$3.6 trillion dollars must be invested by 2020 to bring our roads, bridges, water, electrical and sewage systems to proper safe working order.
- 2. Educating first world engineers to understand how to solve third world problems.** The Renewable Resources Journal reports that the world's population will grow by 2 billion over the next two decades, 95% of this in developing or underdeveloped countries. Engineers must learn new ways to solve problems in these countries.
- 3. Promoting green engineering to improve sustainability and reduce the carbon footprint in manufacturing.** According to the U.S. Office of Energy Efficiency & Renewable Energy, manufacturing in the U.S. produced 19,237 trillion BTUs and 1,071 million metric tons of carbon dioxide.
- 4. Identifying viable alternative energy sources.** The contributions to our energy production from renewables and other new fuel sources are growing at 6% per year according to BP and will contribute 45% of the increment in energy production by 2035.
- 5. Rethinking how the city looks and works.** 54% of the world's population lives in cities. Europe leads the way in sustainability, with seven out of the world's top 10 most sustainable cities, according to the ARCADIS Sustainable Cities Index.
- 6. Making STEM more appealing to young students.** By 2018, the United States will have more than 1.2 million unfilled STEM jobs. Meanwhile, according to a UCLA study, 40% of students enrolled as STEM majors switched subjects or failed to get a degree.
- 7. Safeguarding our personal data and wealth from cyberattacks.** 34% of data breaches happen at financial institutions; 11% target retail companies; while 13% target government institutions, according to the 2014 Data Breach Investigation Report.
- 8. Addressing climate change through engineering innovation.** Six of the 10 cities with the largest annual flood costs by 2050 are in India and China. Three are in the U.S.: New York, Miami and New Orleans.
- 9. Feeding our growing population through cutting-edge bio-engineering and agricultural innovations.** The U.N. warns that we must produce 60% more food by 2050 to keep up with demand, but how do we do this sustainably? Food and water access will be major issues in the future, and research must begin now.
- 10. Improving our health and well-being through life sciences, nanotechnology & bio-engineering.** Administration on Aging, by 2060 the population of Americans aged 65 and older will have more than doubled in size from 2011. This puts a lot of pressure on new drug creation and also on innovative engineering techniques to deliver drugs.

Scopus is the largest abstract and citation database of peer-reviewed literature, and features smart tools that allow you to track, analyze and visualize scholarly research.

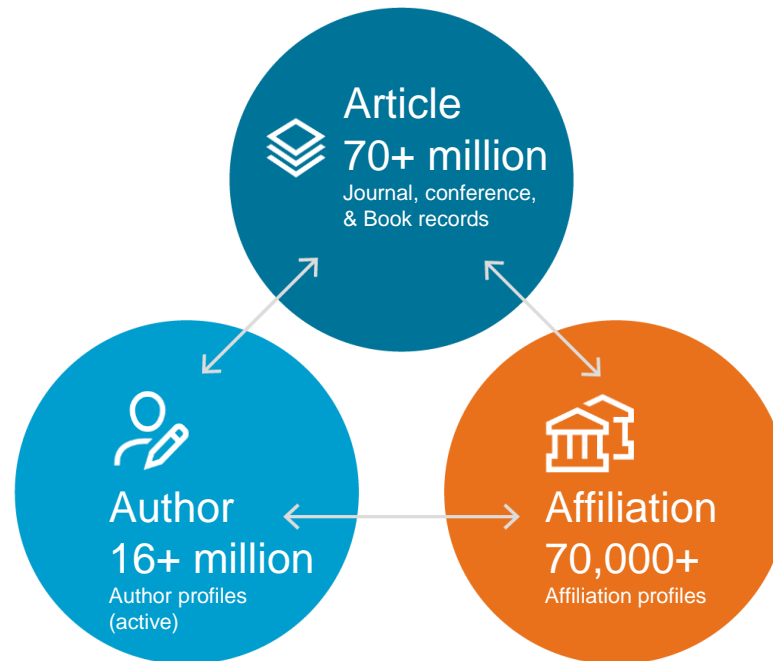


Scopus delivers a comprehensive view on the world of research.
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The Scopus data model

The **Scopus data model** is designed around the notion that **articles** are written by **authors** that are **affiliated with institutions**. Visually and rather simplistically, this relational model is represented below.

Scopus Data Model Simplified



What is the value of this structured data? This relational data model means that Scopus can tell you **who is doing what** in global literature and **where they are doing it** with **higher accuracy** than anyone else

Scopus – Content

74M records from **23K** serials, **100K** conferences and **150K** books
from more than **5K** publishers and **105** countries,
indexed into **27** main subject areas

- Updated daily
- Records back to 1823
- “Articles in Press” from > 8,075 titles
- 40 different languages covered
- 3,643 active Gold Open Access journals indexed

JOURNALS

Physical
Sciences

7,441

21,951 peer-reviewed
journals

Health
Sciences

7,133

280 trade journals

Social
Sciences

8,698

- Full metadata, abstracts and cited references (refs post-1970 only)

Life
Sciences

4,601

- Funding data from acknowledgements
- Citations back to 1970

CONFERENCES

100K conference
events

8M conference
papers

Mainly Engineering
and Computer
Sciences

BOOKS

562 book series

150K stand-alone
books

1.2M items


Focus on Social
Sciences and A&H

PATENTS*

27M patents

From 5 major
patent offices
- WIPO
- EPO
- USPTO
- JPO
- UK IPO

ScienceDirect – Conteúdo

- ScienceDirect contém mais de 25% de toda informação científica publicada mundialmente;
 - Cobre cerca de 3.800 revistas, quase 900 publicações em série e cerca de 35.000 títulos de livros;
 - Texto completo, revisado por pares;
 - Base multidisciplinar;
 - Ampla cobertura nas áreas de ciência, tecnologia e medicina;
 - Usada por mais de 16 Milhões de pesquisadores;
 - Mais de 13.000 instituições acessam a base mundialmente;
 - Atualizada diariamente.
- 

ScienceDirect – Conteúdo próprio e Editoras Sócias

Conjunto de revistas científicas publicadas pela Elsevier e editoras subsidiárias



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Journals no ScienceDirect

- Cobre cerca de 3.800 revistas.
- Mais de 14 milhões de artigos em texto completo
- Artigos/Documentos retrospectivos (*Backfiles*) retrocedendo até o ano de 1823;
- Acesso eletrônico a artigos aprovados à espera de sua publicação na versão impressa (*Articles in Press*)



Engineering Village



Search Platform

- To Engineering resources (13)
- A&I with link to Full Text

Search on **multiple** resources/databases

Normalized fields

Thesaurus search

(Compendex, Inspec, Georef, Geobase, Encompass)

Numeric search (compendex, Inspec, Knovel)

Engineering School Profile (ESP)

<http://blog.engineeringvillage.com/subscribe> Newsletter

1. **Compendex** (Elsevier)

>24 M records, 1884-ToDate, Weekly updates

2. **EnCompassLIT**

3. **EnCompassPAT**

(American Petroleum Institute)

4. **PaperChem**

5. **CBNB**

6. **Chimica**

7. **GeoBase**

8. **INSPEC** (IET)

9. **EP Patents** (European Patent Office)

10. **US Patents** (US Patents Office)

11. **NTIS** (US Dep of Commerce)

12. **GeoRef** (AGI)

13. **Knovel** (Elsevier)

Single point access to:

Engineering
Compendex and EI Backfile
Inspec and Inspec Archive

Geosciences

GEOBASE
GeoRef

Chemical Engineering & Chemistry

Chimica
CBNB

Energy & Downstream Oil & Gas

EnCompassLIT
EnCompassPAT

Paper & Pulp
PaperChem

US & International Government Agency Reports

NTIS

Patents

USPTO
EPO

Compendex Content Highlights

Mais de 25 milhões de registros (19M — 1970–Present) (1.78M — 1884–1969 Ei Backfile)

Adição >1,3M Registros Anualmente

Mais de 6,4M Documentos Conf

1.264 Revistas de Articles-in-Press 117 Revistas de Mercado 333 OpenAccess

83 Séries de Livros >2.200 Editores Internacionais de 77 Países

Amplitude: Mais de 190 Disciplinas das Engenharias

Mais de 3.800 Revistas Avaliadas por pares

Atualização Semanal

Mais de 120.000 Teses/Dissertações

Documentos de 89.600 Eventos

Informação Seleccionada e Indexada por Especialistas Temáticos

Mais de 11M de artigos de revistas Científicas

Padrões (Standards) IEEE >250k – ASTM > 66k 

Books in Compendex: around 45K books and 200K chapters



- Aerospace/Aeronautics
- Automotive
- Biomedical
- Chemical
- Civil
- Computer science
- Defense
- Electronics/Electrical
- Energy/Alternative energy
- Food science
- Geoscience
- Materials science
- Mechanical
- Mining
- Optics & Photonics
- Physics
- Sustainability

Content Updates:

Conference Archives,
Dissertations Standards,
eBooks,
Grant funding data,
Patent integration,
Technical reports,
Standards



Standards in Compendex

- ALL active & previous versions
- **Reduce risk** and ensure quality and consistency throughout multiple engineering processes
- **Increased confidence** thru more informed insights



Engineering Village™

One Central Discovery point



ACS
Chemistry for Life® 540 K



272 K

American Institute of Physics



15 K

Institution of Civil Engineers



15 K



Association for Computing Machinery

292 K



Engineering Village

> 8 Million



18 K



130 K

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18 K



CAMBRIDGE
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33 K



488 K



nature publishing group

24 K



IEEE

5.2 M



126 K

AMERICAN SOCIETY OF CIVIL ENGINEERS



SpringerLink 1.2 M

Tesouro Ei (Engineering Index)

(vocabulário controlado especializado – Engenharia)
Criado em 1884 – em permanente atualização

Garantia de:

PRECISÃO
AGILIDADE
RELEVÂNCIA

11.218

PREFERRED
TERMS

9.964

NON-PREFERRED
TERMS

13.201

BT
RELATIONSHIPS

17.824

RT
RELATIONSHIPS

859

CLASSIFICATION
CODES

Search: Vocabulary search for integrated circuit

Compendex Inspec GeoRef GEOBASE EnCompendex

49 matching terms ^

integrated circuit 1 of 5 >

Term	Term
<input type="checkbox"/> Analog integrated circuits	<input type="checkbox"/> Clean rooms
<input type="checkbox"/> Automatic test pattern generation	<input type="checkbox"/> Computer aided design
<input type="checkbox"/> Built-in self test	<input type="checkbox"/> Computer hardware description languages
<input type="checkbox"/> Chemical mechanical polishing	<input type="checkbox"/> Design for manufacturability
<input type="checkbox"/> Chip scale packages	<input type="checkbox"/> Design for testability

49 expressões relacionadas com a expressão 'integrated circuit'

22.041

TOTAL TERMS

Compendex: The numeric search filter

Design and testing of 45 kV, 50 kHz pulse power supply discharges

Sharma, Surender Kumar¹; Shyam, Anurag¹

Source: *Review of Scientific Instruments*, v 87, n 10, October 1, 2016; 10.1063/1.4964507; Article number: 105115; Publisher: American Institute of Physics

Author affiliation:

¹ EandED, Bhabha Atomic Research Center, Visakhapatnam, India

Abstract:

The design, construction and testing of the power supply is to be reported. The power supply can operate with 1.2 kW input power and has the advantage of being compact. The power supply can operate with 1.2 kW input power and has the advantage of being compact. The power supply can operate with 1.2 kW input power and has the advantage of being compact. The power supply can operate with 1.2 kW input power and has the advantage of being compact.

Millimeter-scale triode

Rudy, Ryan Q.^{1,2}

Source: *Journal of Microelectromechanical Systems*, 2014, 23(10), 10.1109/JMEMS.2014.2310017; Article number: 625006; Publisher: Institute of Electrical and Electronics Engineers Inc.

Author affiliation:

¹ Sensors and Embedded Micro-Fabrication

Novel

Tabib-Aziz

Source:

19300398

5690425;

Author a

ECE ar

EECS

Abstract

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operating

Wind survival strategy for a large point focusing solar collector: Analytical results of a 71 m/s (160 mph) gust study

Bilodeau, E.A.¹; Dumin, J.E.¹; Rogers, W.E.¹

Source: *American Society of Mechanical Engineers, Solar Energy Division (Publication) SED*, p 477-482, 1989; Conference: Solar Engineering 1989 - Proceedings of the Eleventh Annual ASME Solar Energy Conference, April 2, 1989 - April 5, 1989; Sponsor: ASME, Solar Energy Div, New York, NY, USA; Publisher: Publ by American Soc of Mechanical Engineers (ASME)

Author affiliation:

SI Units - Standardized numerical indexing

Quantity Measured	Unit (symbol)
Size	Meter (m)
Mass	Kilogram (kg)
Time	Second (s)
Electric Current	Amper (A)
Temperature	Kelvin (K)
Amount of Substance	Mole (m)
Luminous intensity	Candela (cd)

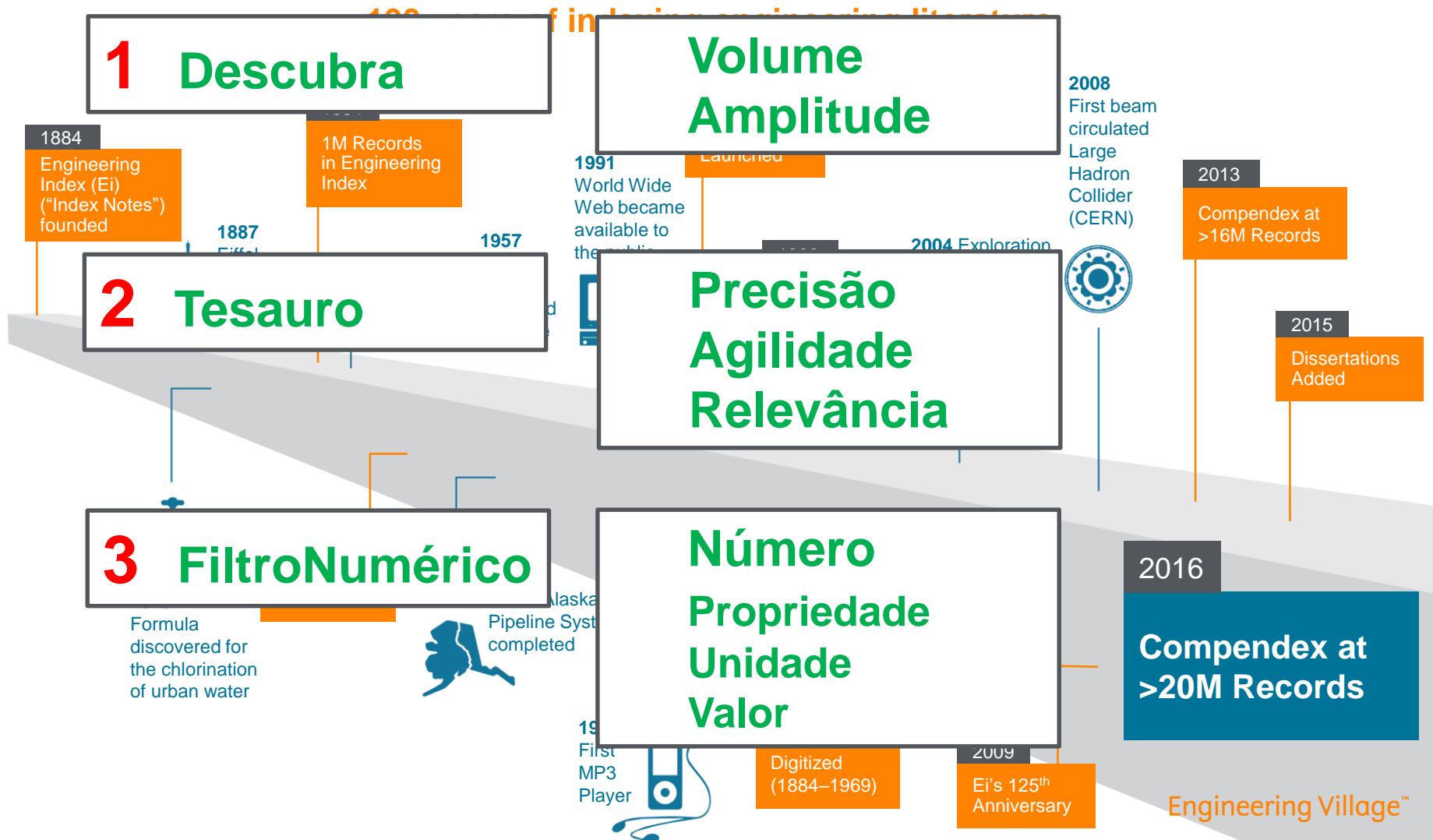
Introducing : The numeric search filter

The screenshot shows the 'Numeric Filter' interface in Compendex. A dropdown menu is open, listing various physical quantities and units. The 'Size' option is highlighted in blue. Other options include Energy, Force, Frequency, Inductance, Luminance, Magnetic Field Strength, Magnetic Flux Density, Mass, Mass Density, Mass Flow Rate, Molar Concentration, Percentage, Power, Pressure, Rotational Speed, Specific Energy, Specific Surface Area, Surface Charge Density, and Surface Density. A 'continue' button is visible to the right of the dropdown.

63 ft = 63 feet = 63
 foot = 21 yards = 21
 yard = 21 yd = 19
 meters = 19 metres
 = 19 m = 1920
 centimeters = 1920
 centimetres = 1920
 centimetres = 1920
 centimetres = 1920
 cm

Ei & Engineering Village Milestones

Ei and Engineering Village are established brands



Reaxys - Feita por químicos para químicos

Necessidades

- Precisa desenhar estruturas químicas
 - Precisa de dados experimentais
- Precisa de filtros que levem a dados mais específicos
 - Precisa de um plano de síntese de substâncias que seja validado na literatura
- Precisa de dados de patentes para inovar

O Reaxys entende as necessidades do dia-a-dia do químico!!!!

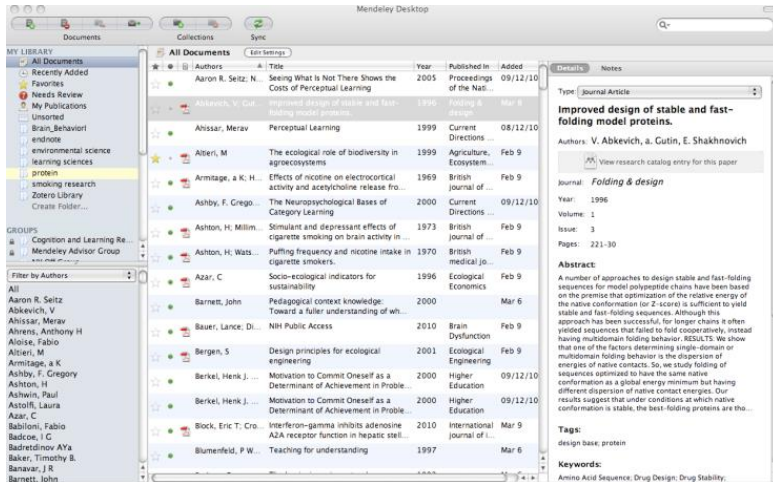
Algumas razões para usar o Reaxys

- ✓ Rapidez para obter informações
- ✓ Pode ser usado por múltiplos usuários
 - ✓ Interface intuitiva
 - ✓ Plano de síntese
- ✓ Link para Scopus, full-texts nos editores (por exemplo ScienceDirect da Elsevier) e escritórios de patentes.

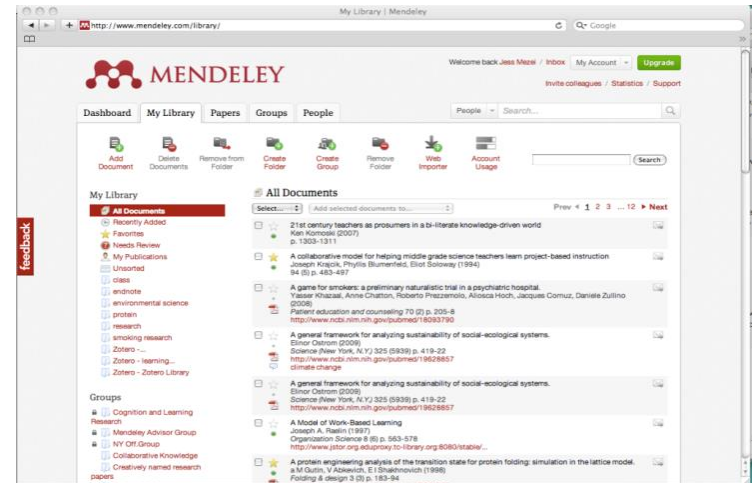
Conteúdo do Reaxys - várias bases de dados em uma só



Mendeley – Três versões de acesso



Escritório



Internet



Dispositivo Móvel

Mendeley em Números

- **6 milhões** de usuários em todo o mundo
- Mais de **7 mil estilos** de referências
- **400 milhões** de documentos
- **5 GB de espaço** de armazenamento
- Grupos privados ilimitados com até **25 membros**
- **20 GB de espaço** para o compartilhamento