



Compendex / Engineering Village

Aprimore sua Pesquisa em Tecnologia

Luiz Baginski

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Aprimore sua Pesquisa em Tecnologia

Agenda:

1. Fontes de Informação Científica
Bases Referenciais
2. **Compendex / EngineeringVillage**
 - 2.1. Conteúdo
tipos de documentos / editores
 - 2.2. Plataforma
 - opções de busca
básica / avançada
/ autor / afiliação
 - campos de busca
 - filtragem dos resultados
ordenação de resultados
 - revisão dos resultados (gráficos)
 - perfil e guarda das estratégias de busca

3. Vocabulário Controlado (Tesauro)

Opções de Busca
Uso do vocabulário

4. Filtro Numérico

Propriedades Físicas
Padronização Sistema Internacional

5. Perfil de Instituição de Pesquisa

Perguntas e Respostas

Quem é e o quê faz a Elsevier ?

<http://elsevier.com>



- ✓ Líder mundial em informação e estudos da ciência e medicina.
- ✓ Mais de 140 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



ELSEVIER

Material de apoio e Redes Sociais

Elsevier Pesquisa LAS *Latin South*

Compendex (EngineeringVillage)

<http://engineeringvillage.com>

<https://www.elsevier.com/engineeringvillage>



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@elsevierpesquisa



Elsevier Pesquisa



elsevierpesquisa



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<https://www.instagram.com/ElsevierPesquisa>

-**Facebook:** /ElsevierPesquisa

<https://www.facebook.com/ElsevierPesquisa>

-**Twitter:** @ElsevierPesquisa

<https://twitter.com/ElsevierPesquisa>

-**Youtube:** @ElsevierPesquisa

<https://www.youtube.com/channel/UCyOOBlswfGNv2X5ckozzCxA>

Páginas Corporativa e Produtos:

<https://www.elsevier.com/location-selector>



Bases de Dados

(páginas Web, Recursos de Informação qualificada / científica)

1. Texto:

1.1 Citações

1.2 Índices e Resumos (A&I)

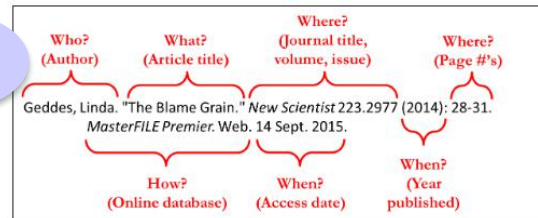
1.3 Texto completo

2. Dados ou Numérica

3. Mapas

4. Vídeos/filmes/imagens

1.1



1.2

Research and implementation
 Zhao, Desheng ¹; Liu, Xiaoyu ¹

Source: *Agro Food Industry Hi-Tech*, v 28, n 1, p 1-5, 2015

Author affiliation: ¹ Langfang Polytechnic

Abstract: Artificial intelligence has reached artificial intelligence technology has developed transaction, which can be applied and sent the research and implementation of financial decision model based on Agent intelligence can be used for risk prevention more powerful. (15 refs)

Main heading: Finance

Controlled terms: Agents - Artificial intelligence

Uncontrolled terms: Artificial intelligence Problems and Solutions - Risk prevention

Classification code: 723.4 Artificial intelligence

3

4

Dados Bibliográficos

Título, Autor, Resumo

Vocabulário

Controlado - Tesouro

Não Controlado – Palavras-chave

- Link ao texto completo
- Referências bibliográficas
- Documentos relacionados
- Métricas

Científicas/Citações (Scopus)

Não Científicas Redes Sociais (PlumX)

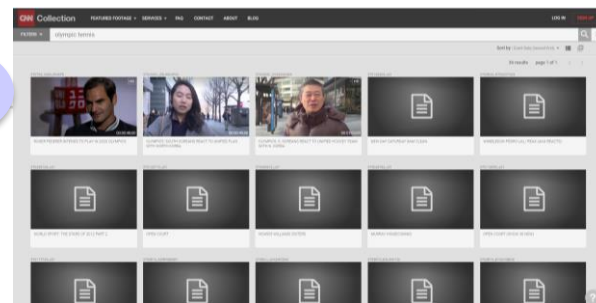
- Exportação Citação

Dados bibliográficos, Gestores - Mendeley

1.3



1. Catálogos de Bibliotecas
2. Repositórios Institucionais
3. Bases de dados



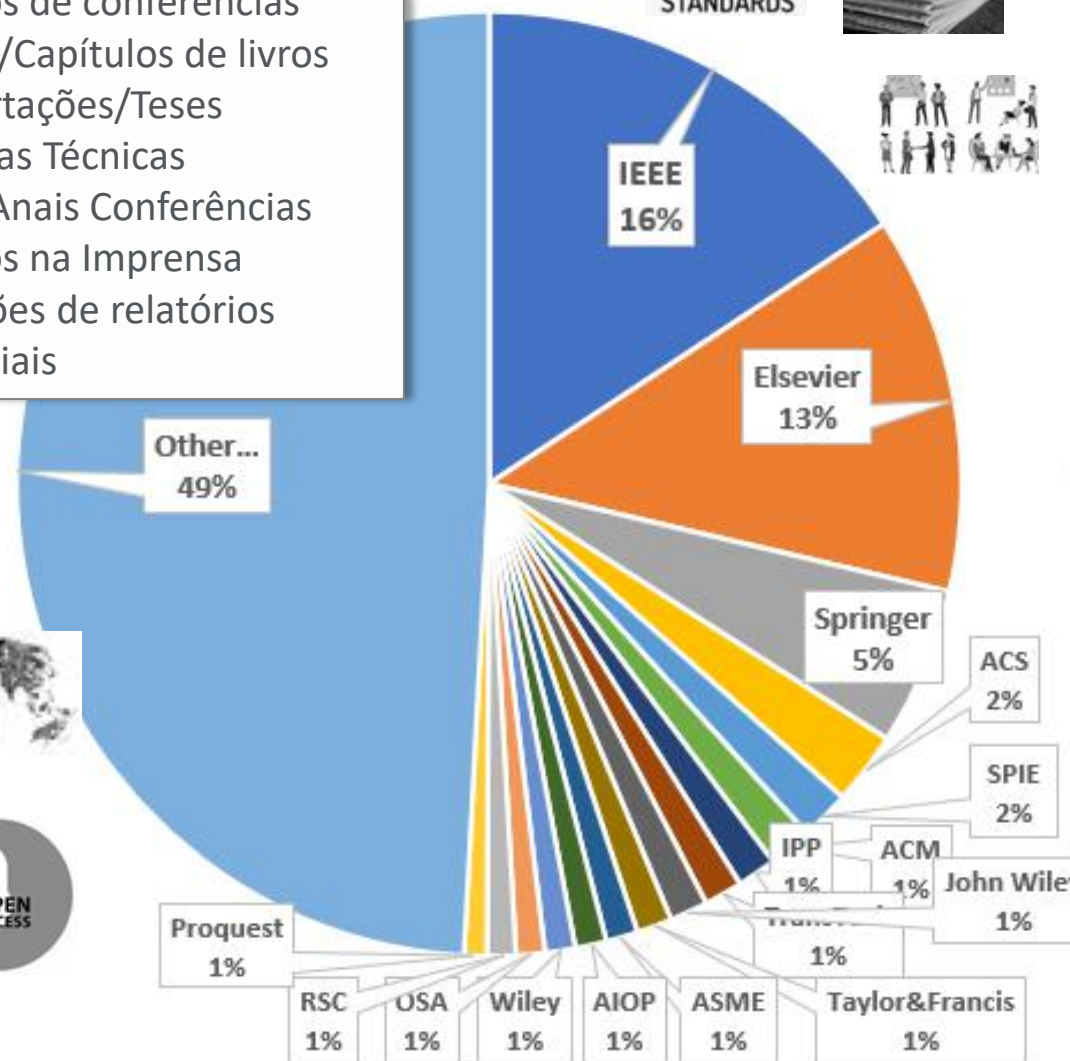
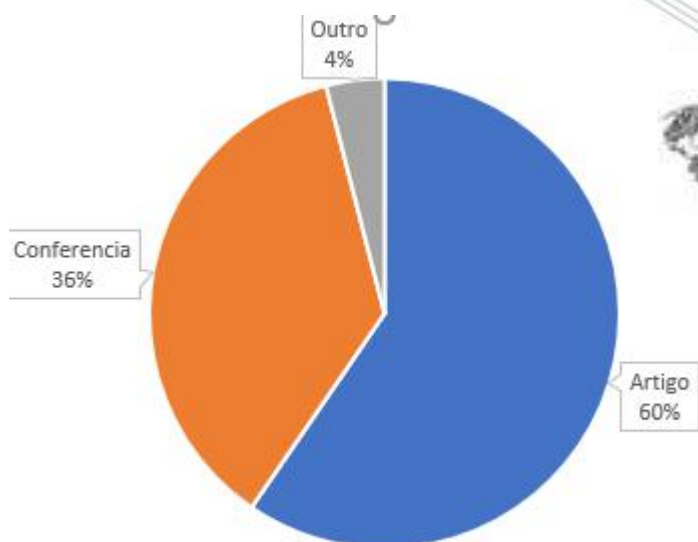
Compendex Conteúdo

- 27 M registros (A&I) (93,6%)
- 2 M *OpenAccess* (7,4%)
- 190 disciplinas
- 5 M opções fomento
- 209 m dissertações
- 195 m normas técnicas
- 81 países
- 2,5 m editores
- 3,7 m revistas científicas

- Artigos científicos
- Artigos de conferências
- Livros/Capítulos de livros
- Dissertações/Teses
- Normas Técnicas
- Atas/Anais Conferências
- Artigos na Imprensa
- Revisões de relatórios
- Editoriais



STANDARDS



1

Um ponto central de descoberta



302 K



ACS

Chemistry for Life®

585 K



15 K



17 K



Association for
Computing Machinery

362 K



18 K



200 K

ProQuest Dissertations
& Theses Global



18 K



488 K



CAMBRIDGE
UNIVERSITY PRESS

33 K



The Institution of
Engineering and Technology



emerald
PUBLISHING



Shaping the Future of Aerospace



nature publishing group

24 K



IEEE

5.2 M



Wolters Kluwer



AMERICAN SOCIETY OF CIVIL ENGINEERS

153 K



SpringerLink

1.2 M





Tesouro Ei (Engineering Index)

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

*Palavra Controlada
e
Palavra Chave*

de 22K para 27M de registros

Garantia de:

**PRECISÃO
AGILIDADE
RELEVÂNCIA**

Termos mais
Ampos,
Relacionados,
mais Específicos

☐ Renewable energy resources

For: Energy resources--Renewable*; Green energy; Renewable energy;
Sustainable energy

Broader terms

☐ Energy resources

Related terms

☐ Low grade fuel firing

☐ Power generation

☐ Wood

Narrower terms

☐ Biomass

☐ Geothermal energy

☐ Solar energy

☐ Water power

☐ Wind power

11.623

PREFERRED
TERMS

10.350

NON-PREFERRED
TERMS

859

CLASSIFICATION
CODES

13.632

BT
relationships

18.747

RT
relationships

10.064

USE
relationships

11.016

MCC
relationships

8.316

OCC
relationships

578

UA and UO
relationships

22.832

TOTAL TERMS



Filtro Numérico

Padronização de medidas Sistema Internacional

1- Identificação de Números e Propriedades

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

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; Durbin, 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: Published by American Society of Mechanical Engineers (ASME)
Author affiliation:
...periment at ...italia for placing ...the design for the ...al wind loading ...ugh upon ...ulation of critical

Millimeter-scale traveling wave rotary ultrasonic motors
Rudy, Ryan Q.^{1, 2} ✉; Smith, Gabriel L.¹ ✉; DeVoe, Don L.² ✉; Polcawich, Ronald G.¹ ✉
Source: Journal of Microelectromechanical Systems, v 24, n 1, p 108-114, February 1, 2015; ISSN: 10577157; DOI: 10.1109/JMEMS.2014.2317778; Article number: 6825800; Publisher: Institute of Electrical and Electronics Engineers Inc.
Author affiliation:
¹ Sensors and E...

Novel MEMS 900 MHz electrostatic silicon delay line
Tabib-Azar, Massoud¹ ✉; Alzoubi, Khawla²; Saab, Daniel²
Source: Proceedings of IEEE Sensors, p 205-207, 2010, IEEE Sensors 2010 Conference, SENSORS 2010; ISSN: 19300395; E-ISSN: 21689229; ISBN-13: 9781424481682; DOI: 10.1109/ICSENS.2010.5690425; Article number: 5690425; Publisher: Institute of Electrical and Electronics Engineers Inc.
Author affiliations:
¹ ECE and Bioengineering Departments, University of Utah, Salt Lake City, UT 84112, United States
² EECSS Dept., Case Western Reserve University, Cleveland, OH 44106, United States

Optical receivers in 0.35 μm CMOS
Milovanec, Dinka¹ ✉; Brandl, Paul¹ ✉; Zimmermann, Horst¹ ✉
Source: Formal Proceedings of the 2016 IEEE Circuits and Systems, DDECS 2016, May Symposium on Design and Diagnostics of 9781509024674; DOI: 10.1109/DDECS.2016.7781509; April 22, 2016; Publisher: Institute of Electrical and Electronics Engineers Inc.
Author affiliation:
¹ Institute of Electrodynamics, Microwave

2- Conversão / Normalização

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

SI Units	
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)

3- Uso do Filtro Numérico

Seleção Propriedade Física

By physical property

Filter results by physical properties such as size, temperature, pressure and many more

Size

between from to

Meter (m)

Refine



Size

Acceleration

Age

Apparent Power

Area

Bit Rate

Decibel



Operador e Valor

between from to

=

>

>=

<

<=

between

Refine

Download all



Unidade

Meter-Squared (m2)

Refine

Acre (acre)

Centimeter-Squared (cm2)

Feet-Squared (ft2)

Hectare (hectare)

Inch-Squared (in2)

Kilometer-Squared (km2)

Qualidade, Diversidade, Relevância e Amplitude

1. Conteúdo Estabelecido: Top Publishers

Livros,
Teses
Dissertações



2. Conteúdo Histórico, Inovador:

Artigos Científicos
Documentos de Conferências



3. Conteúdo Aplicado:

Normas Técnicas

Top Standards



Coming soon



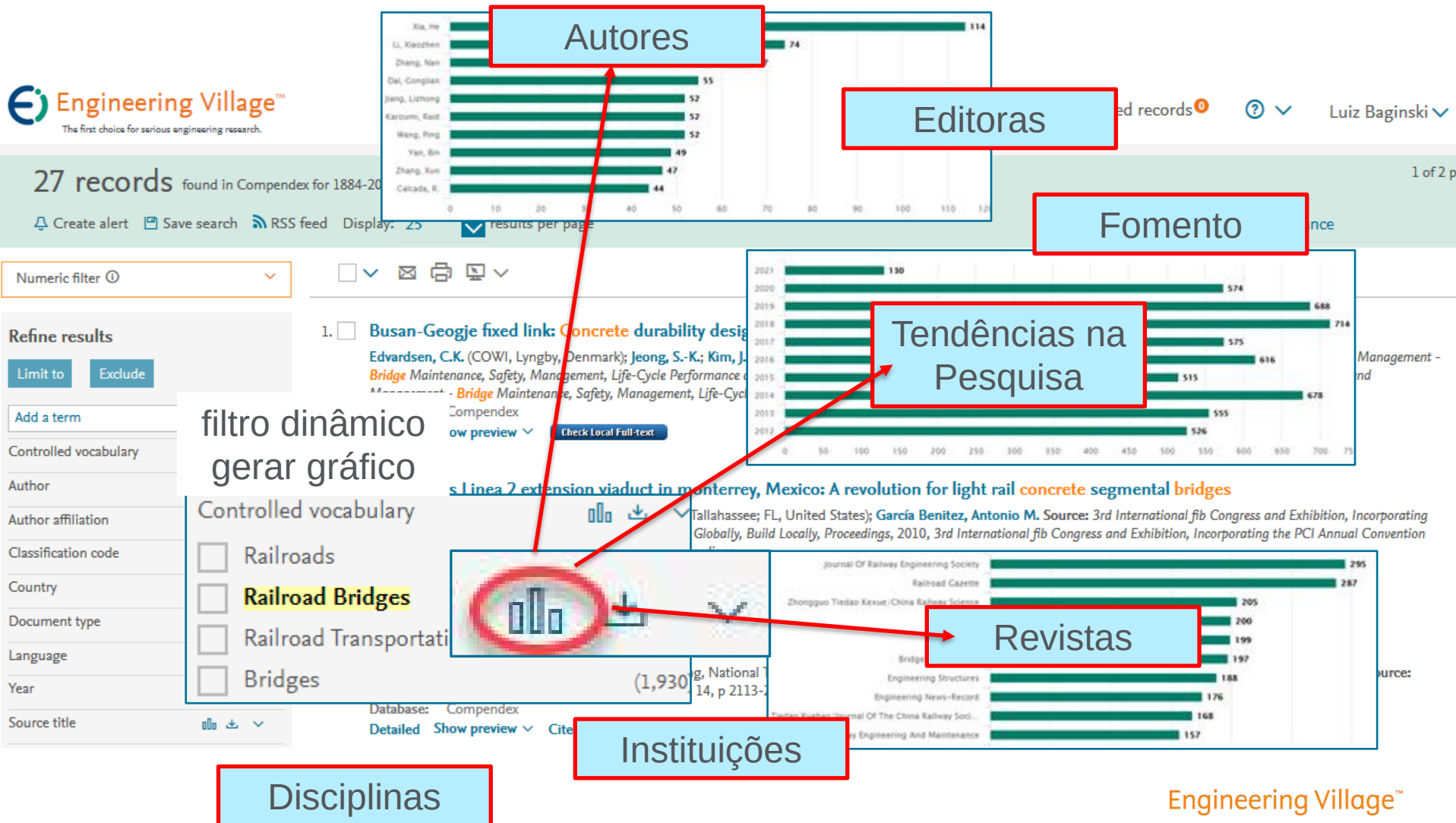
American Concrete Institute
Advancing sustainability



American Water Works Association

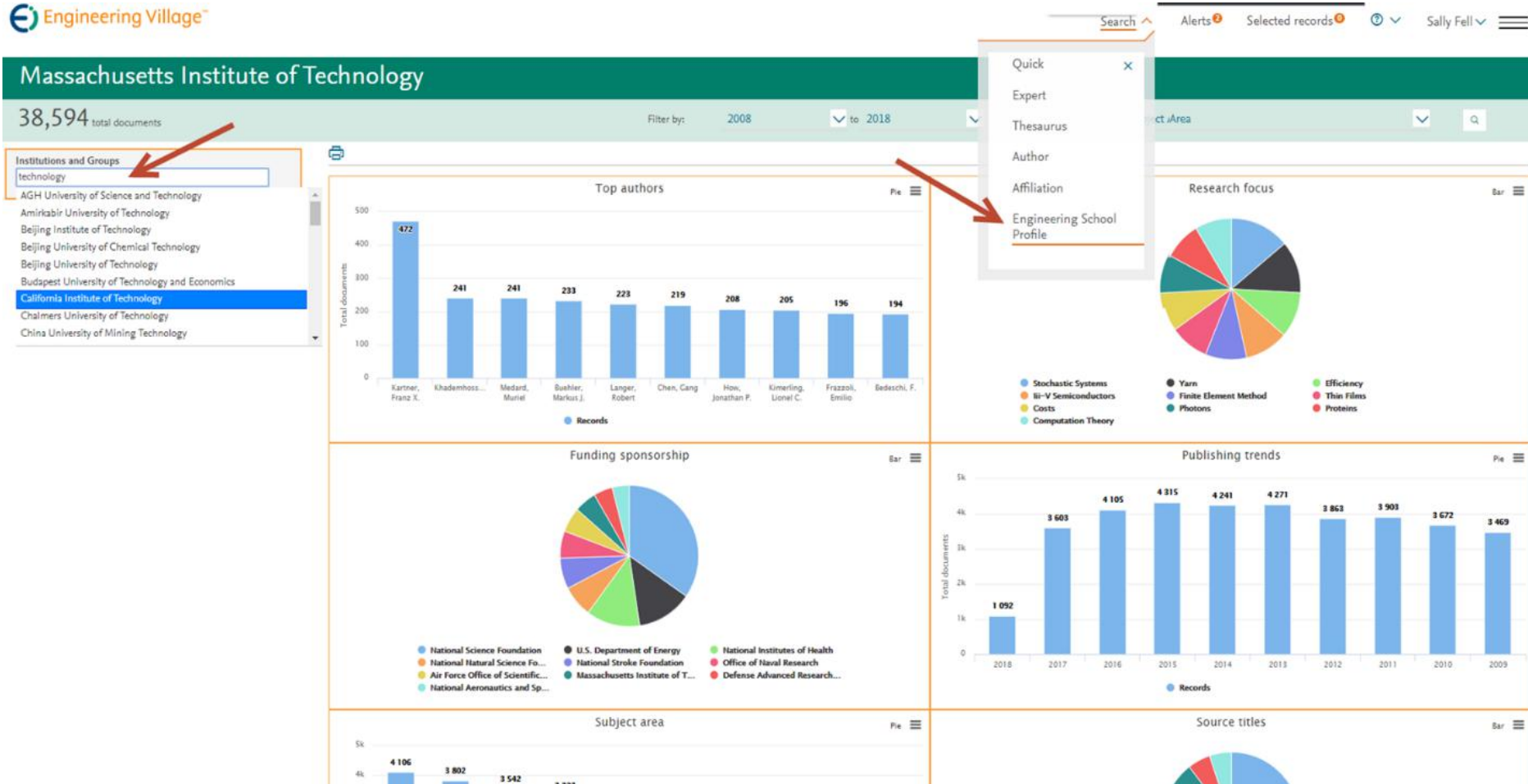


Análise Contextual (*railroad bridges*) – Mais Relevantes



Engineering Research Profile

- Number of documents
- Top Authors
- Subject areas
- Research focus
- Source titles
- Funding sources
- Published in last past 10 years



Exemplo de Base Científica

Acesso à Plataforma **EngineeringVillage**
base de dados **Compendex**



Página do Portal de Periódicos da CAPES

<http://periodicos.capes.gov.br>

Opção Buscar base
= 'compendex'

Acesso CAFe

Suporte

Treinamentos

Materiais didáticos

Dispositivos móveis

Portal de
Periódicos
CAPES/MEC

Acesso livre

PÁGINA INICIAL > BUSCA > BUSCAR BASE

Buscar base (Selecione uma das opções abaixo)

Busca por título Busca por área do conhecimento Busca avançada

AB C D E F G H I J K L M N O P Q R S T U V W X Y Z Outro(a) | VER TODAS

Palavra no título:

compendex

☒ Contém a palavra ☐ Inicia com a palavra ☐ Palavra exata

Enviar Limpar

.periodicos.

CAPES

BUSCA

Buscar assunto

Buscar periódico

Buscar livro

Buscar base

INSTITUCIONAL

Histórico

Plataforma de busca EngineeringVillage

[Search](#) ▾Alerts ²⁵Selected records ⁰ ▾

Luiz Baginski ▾



Quick search

Search in:

All fields

for *Search for... e.g. transcription factors AND jon smith*

AND ▾

All fields

for

Search for... e.g. transcription factors AND jon smith ☒ AND

All fields

for

Search for... e.g. transcription factors AND jon smith 

OR

All fields

for

Search for... e.g. transcription factors AND jon smith 

NOT

All fields

for

Search for... e.g. transcription factors AND jon smith ☒ All fields☐ Subject/Title/Abstract☐ Abstract☐ Author☐ Author affiliation☐ TitleMy organization Elsevier - Demonstration
Account, ** Elsevier Juniper IP
**(Dayton)[Change Organization](#)[Remote Access Activation](#)[Logout](#)[Turn off AutoSuggest](#) | [+ Add search field](#) | [Reset form](#)[Databases](#) ^[Date](#) ▾[Language](#) ▾[Document type](#) ▾[Sort by](#) ▾[Browse indexes](#) ▾[Autostemming](#) ▾[Discipline](#) ▾[Treatment](#) ▾

- | | | | | | | |
|---------------------------------------|---|----------------------------------|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------|
| ☐ All | ☒ Compendex | ☐ Inspec | ☐ NTIS | ☐ PaperChem | ☐ Chimica | ☐ CBNB |
| ☐ EnCompassLIT | ☐ EnCompassPAT | ☐ GEOBASE | ☐ GeoRef | ☐ US Patents | ☐ EP Patents | |
| ☐ Knovel | | | | | | |



Ferramentas de Filtragem

(índices / campos) / Tesauro / Propriedades

Numeric filter ⓘ

Refine results

Limit to Exclude

Add a term

Controlled vocabulary

Author

Author

Class

Country

Document type

Language

Year

Source title

Publisher

Funding sponsor

Limit to Exclude

Filtros Dinâmicos

Engineering Village™

Quick search: All fields

Databases ^ Date v Language v

39487 records found in Comp

Alert Save RSS

Refine <<

Numeric filter ⓘ

By category

Download all ^

Limit to

Add a term

By physical property

Filter results by physical properties such as size, temperature, pressure and many more

Size

between

Meter (m)

Filtro Numérico

Thesaurus search: Vocabulary search for integrated circuit

Database: Compendex Inspec GeoRef GEOBASE EnCompass

49 matching terms ^

integrated circuit

Tesauro

1 of 5 >

Term

☐ Analog integrated circuits

☐ Automatic test pattern generation

☐ Built-in self test

☐ Chemical mechanical polishing

☐ Chip scale packages

Term

☐ Clean rooms

☐ Computer aided design

☐ Computer hardware description languages

☐ Design for manufacturability

☐ Design for testability

1. ☐ Impact in highway prestressed concrete bridges

Wang, T.L. (Florida Intl Univ, Miami, United States); Shahawy, M.; Huang, D.Z. Source: Computers and Structures, v 44, n 3, p 525-534, Jul 17 1992

Propriedade Física

Operador e Valor

Unidade

Acceleration
Age
Apparent Power
Area
Bit Rate
Decibel

between

Meter-Squared (m²)
Area (acre)
Centimeter-Squared (cm²)
Foot-Squared (ft²)
Hectare (hectare)
Inch-Squared (in²)
Kilometer-Squared (km²)

Exemplo de busca:

1. Pontes de concreto (bridges and concrete – 41.973)
2. para trens (railroad),
3. com extensão maior que 4 quilômetros (size $\geq$ 4km)

Quick search: All fields



for bridges and concrete

Turn off AutoSuggest

Databases ^

Date ▾

Language ▾

Document type ▾

Sort by ▾

Browse indexes ▾

Auto

39487 records found in Compendex for 1884-2018: ((bridges and concrete) WN All fields)

Alert Save RSS

Refine

Numeric filter ⓘ ▾

By category

Download all ⬇ ⬆

Limit to

Exclude

1. ☐ Impact in highway prestressed concrete bridges

Wang, T.L. (Florida Intl Univ, Miami, United States); Shahawy, M.; Huang, D
525-534, Jul 17 1992

Database: Compendex

Detailed

Show preview ▾

Cited by in Scopus (15)

Full text ➔

Numeric filter ⓘ ▾

Refine results

Limit to

Exclude

Add a term

Controlled vocabulary

Author

Author affiliation

Classification code

Country

Document type

Language

Year

Source title

Publisher

Funding sponsor

Exemplo de busca:

1. Pontes de concreto (bridges and concrete – 41.973)
2. para trens (railroad, bridges – 924),
3. com extensão maior que 4 kilometros (size $\geq$ 4km)

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The first choice for serious engineering research.

Search Results Alerts ²⁵ Selected records ⁰ Luiz Baginski

Numeric filter

Refine results

Limit to **Exclude**

Controlled vocabulary

- ☐ Bridges (8551)
- ☐ Concretes (7928)
- ☐ Reinforced Concrete (7100)
- ☐ Concrete Bridges (5096)
- ☐ Concrete Construction (4854)

[View all >](#)

Author

Author affiliation

Classification code

Country

Controlled vocabulary

☐ Bridges (8551)	☐ Design (1502)	☐ Computer Simulation (1003)
☐ Concretes (7928)	☐ Concrete Buildings (1486)	☐ Columns (Structural) (997)
☐ Reinforced Concrete (7100)	☐ Concrete Slabs (1380)	☐ Cables (930)
☐ Concrete Bridges (5096)	☐ Seismology (1331)	☐ Deformation (910)
☐ Concrete Construction (4854)	☐ Fiber Reinforced Plastics (1327)	☐ Concrete Testing (901)
☐ Finite Element Method (3893)	☐ Tubular Steel Structures (1287)	☐ Prestressing (899)
☐ Bridge Decks (3485)	☐ Corrosion (1282)	☒ Railroad Bridges (868)
☐ Structural Design (5237)	☐ Building Materials (1221)	☐ Structural Health Monitoring (868)
☐ Concrete Beams And Girders (3119)	☐ Cable Stayed Bridges (1201)	☐ Composite Beams And Girders (861)
☐ Prestressed Concrete (2638)	☐ Steel (1191)	☐ Piers (859)
☐ Bridges, Concrete (2386)	☐ Stiffness (1188)	☐ Composite Bridges (855)
☐ Beams And Girders (2308)	☐ Steel Bridges (1158)	☐ Fibers (854)
☐ Reinforcement (2169)	☐ Mathematical Models (1153)	☐ Damage Detection (852)
☐ Arch Bridges (2107)	☐ Durability (1141)	☐ Bridges, Highway (838)
☐ Cracks (2073)	☐ Repair (1125)	☐ Reinforced Plastics (837)
☐ Structural Analysis (1826)	☐ Precast Concrete (1108)	☐ Ductility (836)
☐ Maintenance (1800)	☐ Compressive Strength (1089)	☐ Concrete Reinforcements (835)
☐ Civil Engineering (1725)	☐ Earthquakes (1086)	☐ Nondestructive Examination (828)
☐ Box Girder Bridges (1627)	☐ Bridge Piers (1078)	☐ Chlorine Compounds (804)
☐ Highway Bridges (1531)	☐ Arches (1039)	

[View less](#) **Limit to** **Exclude**

Exemplo de busca:

1. Pontes de concreto (bridges and concrete – 41.973)
2. para trens (railroad, bridges – 924),
3. com extensão maior que 4 kilometros (size $\geq$ 4km)

The screenshot displays a search results page from Compendex. At the top, it shows '868 records found in Compendex for 1884-2018:'. Below this, there are options to 'Create alert', 'Save search', 'RSS feed', and 'Display: 25'. The results are sorted by 'Relevance'. On the left, there is a 'Refine results' section with a 'Limit to' button and an 'Exclude' button. Below this, there is a 'Controlled vocabulary' section with checkboxes for 'Reinforced Concrete' (344), 'Concrete Bridges' (287), 'Concretes' (261), 'Railroads' (217), and 'Concrete Construction' (186). The main search results list includes three items:

1. ☐ **Evaluation of the performance of concrete bridges**
Davis, Allan; ...
Database: ...
Detailed S
2. ☐ **Pretensioned prestressed concrete beam bridges and industrial structures**
Passeman, Pierre (CERIB, Epervan, France); Doan, Van-Tho; Boyer, Philippe
Source: Proceedings of the 10th Symposium 2004 - Concrete Structures: The Challenge of Creativity, p 210-211, 2004
Database: ...
Detailed S
3. ☐ **Life-cycle cost analysis of reinforced concrete bridges**
Grace, Nabil
Structural Jo
Database: ...
Detailed S

Four red boxes highlight specific filter settings:

- Box 1:** 'Size' filter set to 'Greater or equal' with a value of '4'.
- Box 2:** 'Size' filter set to 'Greater or equal' with a value of '4'.
- Box 3:** 'Size' filter set to 'Greater or equal' with a value of '4'.
- Box 4:** 'Size' filter set to 'Greater or equal' with a value of '4'.

Exemplo de busca:

1. Pontes de concreto (bridges and concrete – 41.973)
2. para trens (railroad, bridges – 924),
3. com extensão maior que 4 kilometros (size $\geq$ 4km – 27)

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Search ▾ Results Alerts 25 Selected records 0 ? ▾ Luiz Baginski ▾

27 records found in Compendex for 1884-2018: ((bridges and concrete) WN ALL) × + {railroad bridges} WN CV × + (NU_SIZE GTE 4 km) ×

Create alert Save search RSS feed Display: 25 results per page Sort on: Relevance

Numeric filter ⓘ

- Size ▾
- Kilometer (km) ▾
- Greater than ▾

4 Continue

Classification code Country Document type Language Year Source title

3. ☐ Long-term seismic performance of reinforced concrete bridges

ou, Yu-Chen (Department of Construction Engineering, National Earthquake Engineering and Structural Dynamics, v 42, n 14, p 211)

Database: Compendex Detailed Show preview ▾ Cited by in Scopus (14) Full text

Processo de filtragem:

0. 25.000.000
1. 41.973
2. 924
3. 27

Recomendação de Recursos de Informação / Soluções

- *EngineeringVillage / Compendex*
- *Scopus*
- *ScienceDirect*
- *Researcher Academy*
- *Author Resources*
- **Mendeley**
- Portal de Periódicos CAPES

- **BIBLIOTECA !!!**

- Catálogo
- Repositório

Instagram

<https://www.instagram.com/ElsevierPesquisa>

Youtube

<https://www.youtube.com/channel/UCyOOBls wfGNv2X5ckozzCxA>

- “Como encontrar o melhor periódico para publicar o seu artigo”
<https://www.youtube.com/watch?v=PY3--eliUkc&t=159s>
- “La ética en publicaciones científicas”
<https://www.youtube.com/watch?v=E4RYaVCoopY>
- “Introdução à publicação acadêmica”
<https://www.youtube.com/watch?v=C43rTOelB7M>
- RELX SDG Resource Centre
<https://sdgresources.relx.com>
- 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>