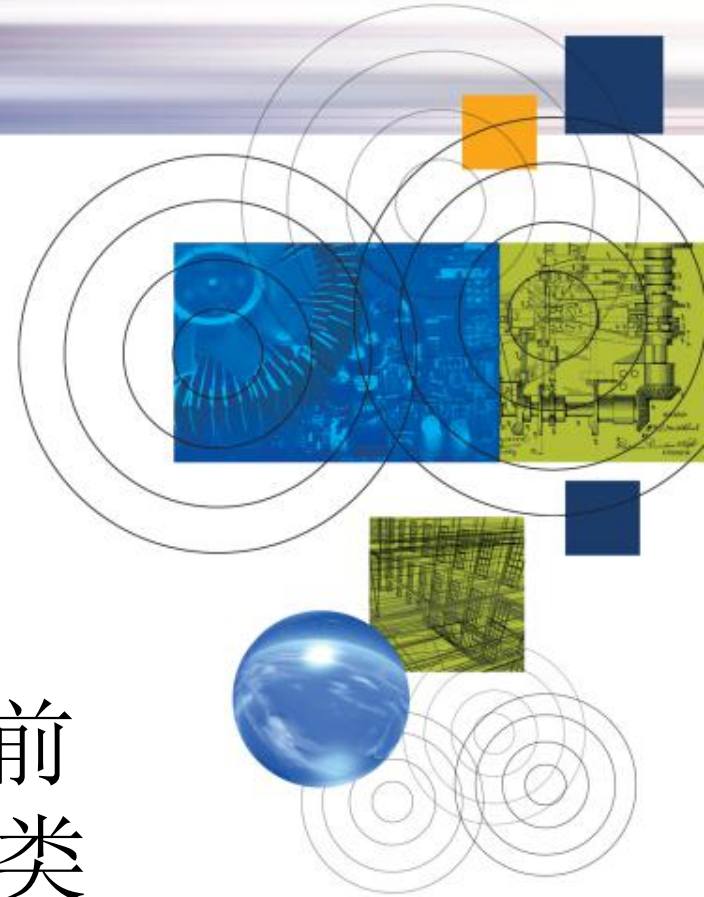


Ei数据库在开题与课题申请前的文献调研中的应用——工程类



主讲人：范国利

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提纲

1. 文献收集重点
2. 文献检索
3. Engineering Village简介
4. EI检索全解析
 - Thesaurus
 - Quick Search
 - Expert Search
5. iEI-My Profile
6. EI论文撰写技巧
7. Q&A环节

Quick Search

Expert Search

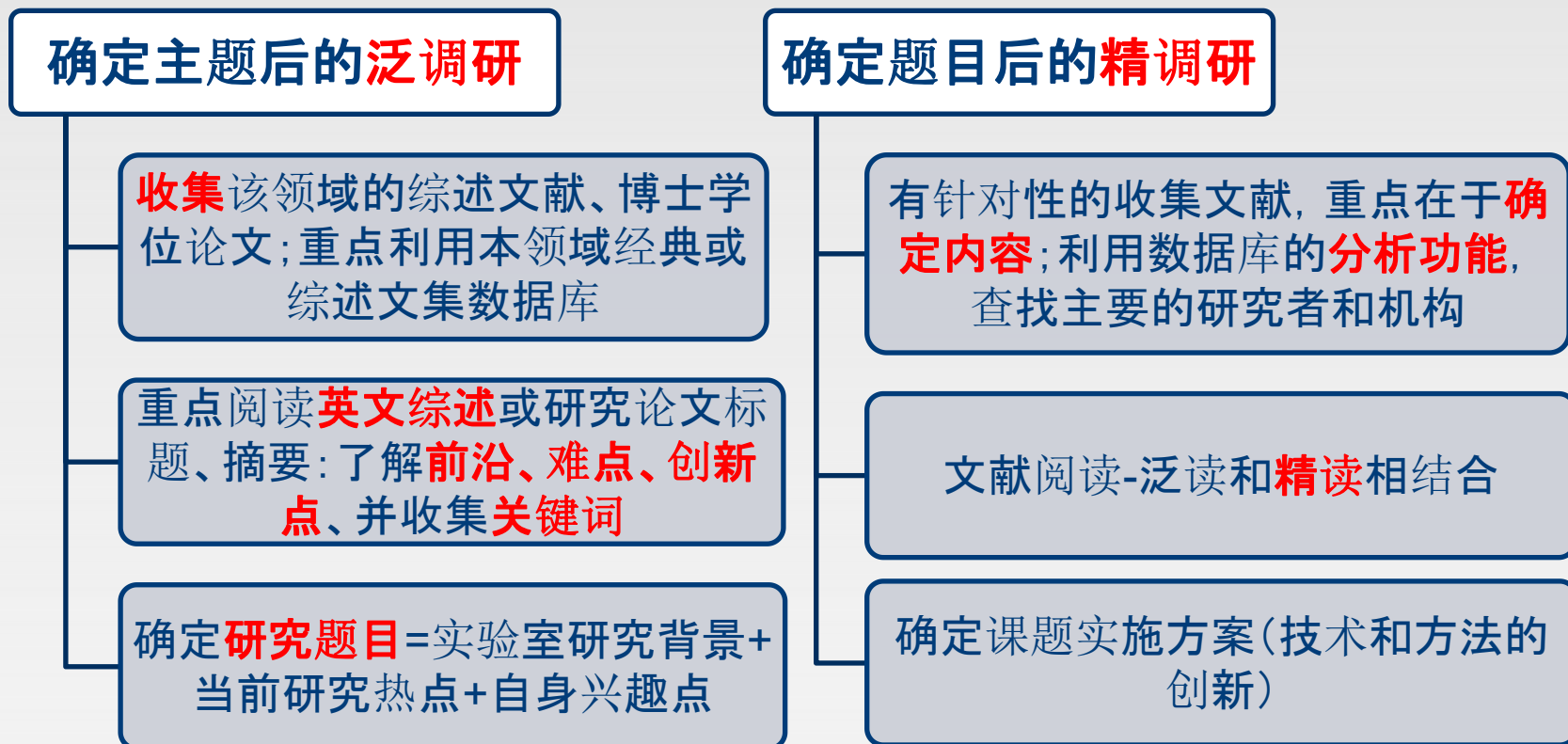
Thesaurus

My Profile

Ask an Expert

Help

一、文献收集重点-文献调研阶段



先看综述性论文，再看研究论文。

- 特点：综合性、扼要性和评价性，参考文献多。
- 应作为“起步文献”加以参考利用。

The screenshot displays the Engineering Village search interface. At the top, the logo and tagline 'The first choice for serious engineering research.' are visible. The search bar contains the text 'Search for... e.g. transcription factors AND jon smith'. Below the search bar, various filters are available: Databases, Date, Document type, Language, Treatment, Discipline, Sort by, Autostemming, and Browse indexes. The 'Treatment' filter is expanded, showing options: All Treatments, Experimental, Management aspects, Applications, General review, Numerical, Biographical, Historical, Theoretical, Economic, and Literature review. The 'Literature review' option is selected and highlighted with a red box. A blue callout box with a yellow border points to this selection, containing the text 'General Review' and '文献综述'. The footer includes the Elsevier logo and links to Terms and Conditions and Privacy Policy.

Engineering Village™
The first choice for serious engineering research.

Search Alerts Selected records ?

Quick search
Search in: All fields for Search for... e.g. transcription factors AND jon smith

Turn off AutoSuggest | + Add search field | Reset form

Databases Date Document type Language Treatment Discipline Sort by Autostemming Browse indexes

☐ All Treatments ☐ Applications ☐ Biographical ☐ Economic
☐ Experimental ☐ General review ☐ Historical ☒ Literature review
☐ Management aspects ☐ Numerical ☐ Theoretical

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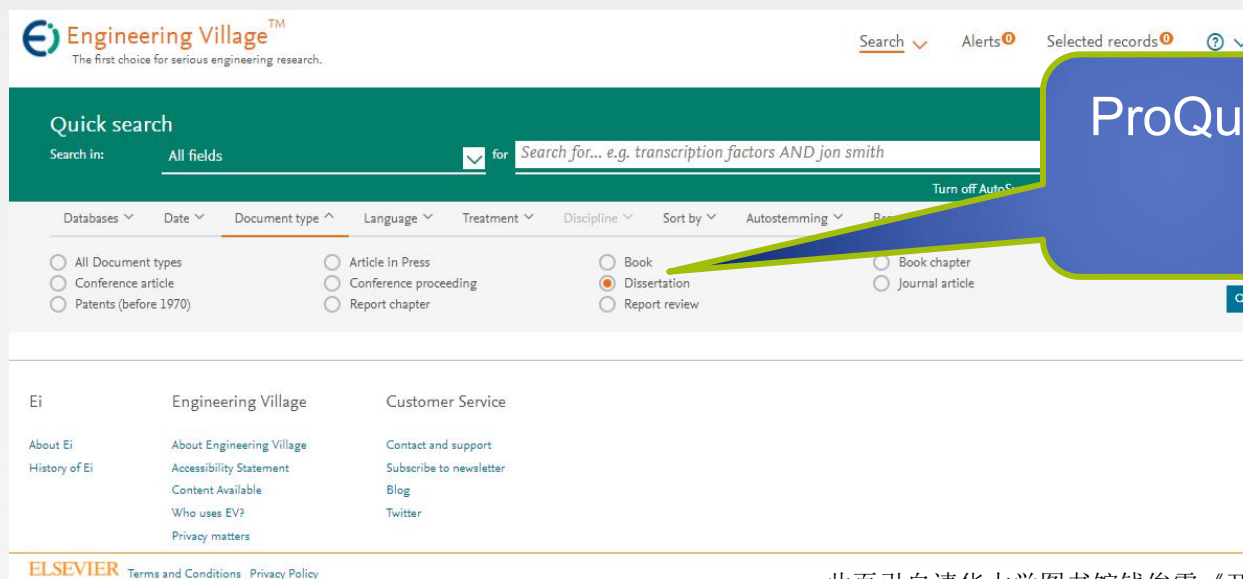
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General Review
文献综述

注重学位论文的检索和阅读。

- 五个显著特点：
- (1) 数据图表充分详尽
- (2) 参考文献丰富全面
- (3) 可得到课题研究现状综述
- (4) 可跟踪名校导师的科研进程
- (5) 学习学位论文的写作方法

可以获得课题研究的更多相关文献



ProQuest Dissertation
学位论文

阅读本领域的主要研究者/机构的文献

- 如何知道主要的研究者/机构？
- 利用数据库的分析功能获得。
- 通过本领域作者发文量或重要国际会议中的特邀报告人信息获得。

The screenshot displays the Engineering Village interface. The 'Refine results' section on the left includes a 'Limit to' button and an 'Add a term' input field. Below this, a 'Controlled vocabulary' section lists various filters. The 'Author' filter is highlighted with a red box, and a callout box labeled 'Author 作者信息' points to it. The 'Author affiliation' filter is also highlighted with a red box, and a callout box labeled 'Author Affiliation 机构信息' points to it. The main content area shows search results for 'and harmonic analysis' and 'from air temperature: Using least square method'. The first result is by 'Wang, Wei' (1194) from the 'University Of Chinese Academy Of Sciences' (3096). The second result is by 'Zhang, Wei' (1139) from the 'U.S. Geological Survey' (2262). The third result is by 'Li, Wei' (1112) from the 'State Key Laboratory Of Water Resources And Hydropower Engineering Science, Wuhan University' (2049). The fourth result is by 'Wang, Jun' (883) from 'Csiro Land And Water' (1818). The fifth result is by 'Wang, Yan' (806) from the 'State Key Laboratory Of Urban Water Resource And Environment, Harbin Institute Of Technology' (1705). The search results are displayed in a table with columns for 'Author', 'Affiliation', and 'Count'. The 'Author' column is highlighted with a red box, and the 'Author affiliation' column is also highlighted with a red box. The 'Count' column is highlighted with a red box. The 'Author' and 'Author affiliation' filters are highlighted with red boxes. The 'Count' column is highlighted with a red box. The 'Author' and 'Author affiliation' filters are highlighted with red boxes. The 'Count' column is highlighted with a red box.

阅读高被引次数的文献

- 被引次数是判断一篇论文是否有影响力(价值)的一种比较直观和比较有效的方法。

Engineering Village

14.  Prospects of high temperature superconductors for fusion magnets and power applications

Fietz, Walter H. (Karlsruhe Institute of Technology, Karlsruhe, Germany); Barth, Christian; Drotziger, Sandra; Goldacker, Wilfried; H. I.; Weiss, Klaus-Peter Source: *Fusion Engineering and Design*, v 88, n 6-8, p 440-445, 2013

Database: Compendex

[Abstract](#) | [Detailed](#) |  [Show preview](#) | [Cited by in Scopus \(6\)](#) | [Full Text Link](#) | 

15.  Conduction cooled high temperature superconducting dipole magnet for accelerator applications

Zangenberg, Nikolaj (Danfysik A/S, Gregersensvej 8, DK-2630, Taastrup, Denmark); Nielsen, Gunver; Hauge, Nils; Nielsen, Bjarne Christian G.; Bräuner, Lars; Ulse, Bo; Mller, Sren Pape Source: *IEEE Transactions on Applied Superconductivity*, v 22, n 3, 2012

Database: Compendex

[Abstract](#) | [Detailed](#) |  [Show preview](#) | [Cited by in Scopus \(6\)](#) | [Full Text Link](#) | 

引文信息

数据库分类及选择标准

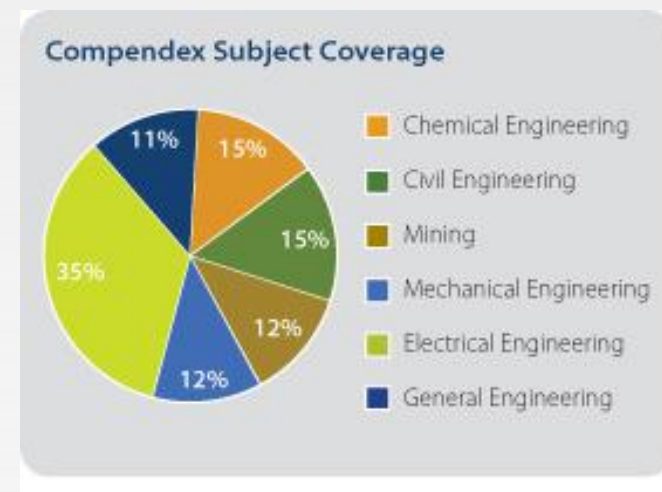
- 分类：
 - 全文型：存储内容为各类原始文献的信息。又称一次文献数据库。如：Elsevier SD、中国知网
 - 书目型：存储描述如目录、题录、文摘等书目线索的数据库，又称二次文献数据库。为用户指出获取原始信息的线索。如：EI Compendex、SCIE
 - 数据、事实型：存储内容来源于百科全书、名录、词典、手册、年鉴和统计资料等参考工具书。如：Knovel, Reaxys等
- 标准：
 - - 广和全的专业覆盖面
 - - 高质量的检索系统
 - - 内容的更新速度
 - - 数据库的权威性
 - - 利用检索平台实现跨库检索

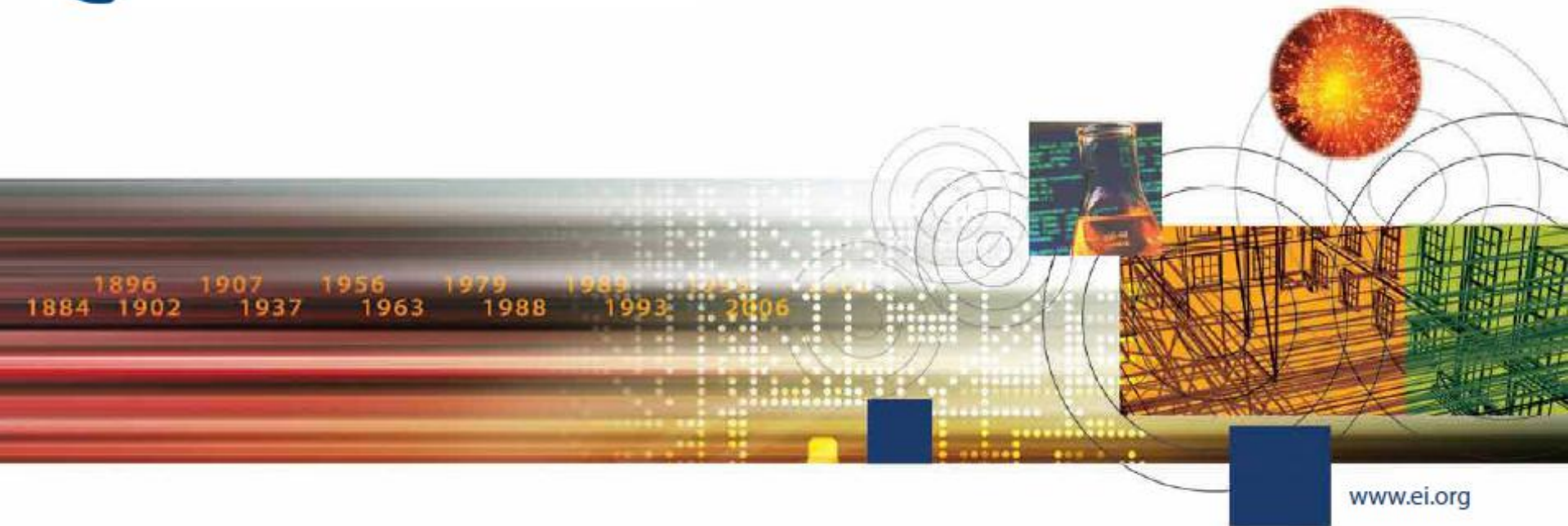
Engineering Village接口与收录内容

- 由美国Elsevier Engineering Information Inc. 所出版，提供工程领域的信息
- EV 平台接口下 内涵各种多元数据库：
 - **Compendex**(其中Compendex回溯期刊需另购)
 - INSPEC (需另购)
 - NTIS (需另购)
 - Referex Engineering 电子书 (需另购)
 - GeoBASE (需另购)
 - GeoRef (需另购)
 - EnCompassLIT & EnCompassPAT (需另购) Chimica&CBNB (需另购)
 - PaperChem (需另购)
 - USPTO / EPO专利 (需另购)
 - Scirus

Compendex

- 收录年代：1970年至今
- 3,600多种、期刊、商业杂志、和技术报告资料
- 80000多种工程研讨会会议记录
- 资料量：超过 1800 万篇，每年新增约 100万篇资料
- 包含 190 种工程领域学科，如：化学工程、土木工程、矿业工程、机械工程、电子工程、一般工程
- 收录超过55个国家的出版品，其中中文期刊200余种。
- 更新频率：每周
- 回溯期刊：1884年-1969年



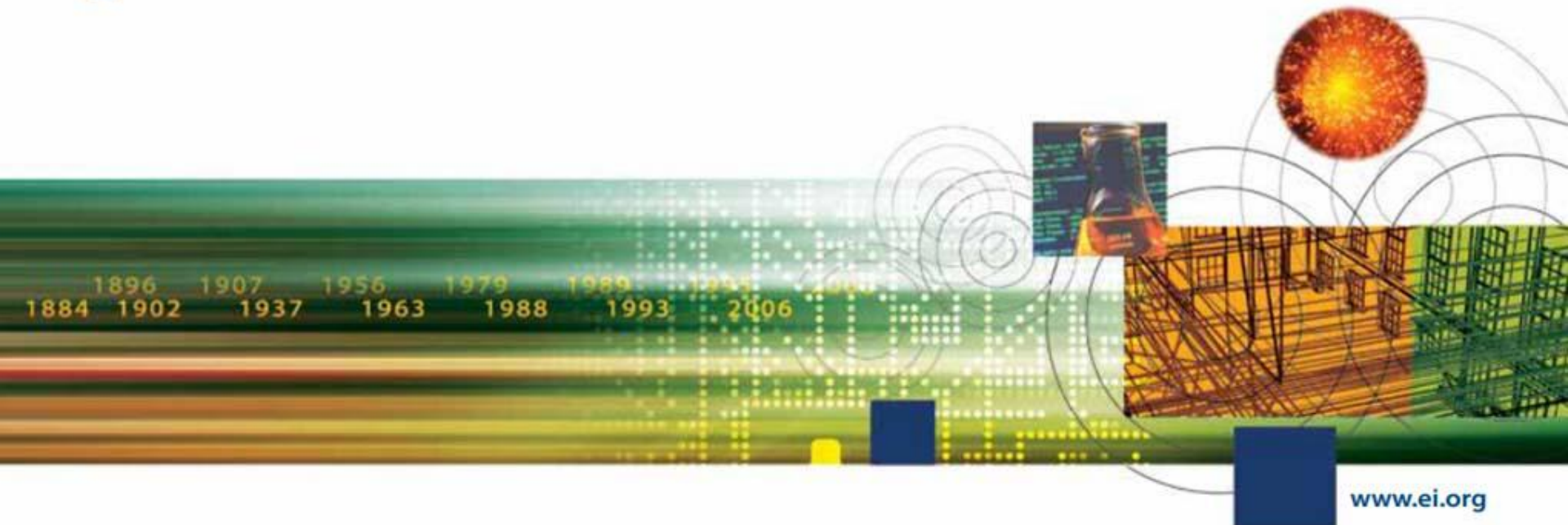


检索方式

- Quick Search - 快速检索
- Expert Search - 专家检索
- Thesaurus search - 词库检索



Quick Search - 快速检索



www.ei.org

Quick Search – 快速检索

页面介绍



The first choice for serious engineering research.

功能列：快速检索、专家检索、词库检索

Quick search

Search in:

All fields

▼

for

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

🔍

Search

Results

Alerts 0

Selected records 0

?

▼

限制条件、排序选项

Databases ^

Date ▼

Document type ▼

Language ▼

Treatment ▼

Discipline ▼

Sort by ▼

Autostemming ▼

Browse indexes ▼

增加检索字段

Turn off AutoSuggest

+ Add search field

Reset form

☐ All
 ☒ Compendex
 ☐ Inspec
 ☐ NTIS
 ☐ PaperChem
 ☐ Chimica
 ☐ CBNB
 ☐ EnCompassLIT
 ☐ EnCompassPAT

☐ GEOBASE
 ☐ GeoRef
 ☐ US Patents
 ☐ EP Patents
 ☐ Knovel

🔍

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结果页面 - 1

检索结果：
快速检索/篇摘要数据/
数据库： Compendex & INSPECT

The screenshot shows the Engineering Village search results page for the query 'air pollution'. The page features a green header with the Engineering Village logo and navigation links. A search bar at the top displays the query 'air pollution'. Below the search bar, a summary bar indicates '123241 records for 1884-2018 ((air pollution) WN All fields)'. A sidebar on the left provides options to refine results using various filters such as 'Controlled vocabulary', 'Author', 'Author affiliation', 'Classification code', 'Country', 'Document type', 'Language', 'Year', 'Source title', 'Publisher', and 'Funding sponsor'. The main content area displays a list of search results, each with a checkbox, a title, and a brief abstract. Red arrows and boxes highlight specific features: one box points to the search bar, another to the record count, a third to the 'Numeric filter' dropdown, and a fourth to the 'Refine results' sidebar. A large red box in the center contains text describing the data search functionality.

123241 records for 1884-2018 ((air pollution) WN All fields)

Sort on: Relevance

Numeric filter

Refine results

Limit to Exclude

Controlled vocabulary

Author

Author affiliation

Classification code

Country

Document type

Language

Year

Source title

Publisher

Funding sponsor

数据检索功能

- 图表显示
- 输出数据
- 打开/关闭限缩
- 字段详细信息
- 可用拖曳的方式改变限缩字段顺序

输入关键词开启新的检索

结果页面 - 2

Selected Records: 暂存文章

管理检索结果: 寄E-mail/打印/下载书目信息/存到我的数据夹/移除重复文章

可依照相关程度、日期, 作者, 期刊, 出版社(默认为相关度); 在相同条件之下, 再依降序或升幂规则排序

The screenshot shows the Engineering Village search results interface. The search term is 'air pollution'. The results are sorted by 'Relevance'. The page displays 123,241 records for 1884-2018. The left sidebar shows 'Refine results' with various filters. The main list shows search results with checkboxes for selection. Annotations highlight the 'Selected Records' section, the management options (E-mail, Print, Download, Save, Remove), the sorting options (Relevance, Date, Author), and the multi-select functionality.

Quick search
Search in: All fields for air pollution

Databases ^ Date v Document type v Language v Treatment v Discipline v Sort by v Autostemming v Browse indexes v

123241 records for 1884-2018 ((air pollution) WN All field)

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

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

review on air pollution monitoring and management using plants with special reference to foliar dust adsorption and physiological stress responses
am, S.S. (UGC-DAE Consortium for Scientific Research, Plot No-8, Block-LB, Sector-III, Salt-Lake; Kolkata; 700098, India); Majumder, S.; Chaudhuri, P.; Chanda, S.; Sudarshan, M. Source: Critical Reviews in Environmental Science and Technology, v 45, n 23, p 2489-2522, December 2, 2015
Database: Compendex
Detailed Show preview v Cited by in Scopus (5) Enlink text v Check local full text v

air pollution in China: Status and spatiotemporal variations
ong, Congbo (Center for Urban Transport Emission Research, State Environmental Protection Key Laboratory of Urban Ambient Air Particulate Matter Pollution Prevention and Control, College of Environmental Science and Engineering, Nankai University, Tianjin; 300071, China); Wu, Lin; Xie, Yaochen; He, Jianjun; Chen, Xi; Wang, Ting; Lin, Yingchao; Jin, Taosheng; Wang, Anxu; Liu, Yan; ai, Qili; Liu, Baoshuang; Wang, Ya-nan; Mao, Hongjun Source: Environmental Pollution, v 227, p 334-347, 2017
Database: Compendex
Detailed Show preview v Enlink text v Check local full text v

Modelling air pollution crises using multi-agent simulation
hazi, Sabri (Computer Science Department, University Badji Mokhtar, P.O. Box 12, Annaba; 23000, Algeria); Durdale, Julia; Khadir, Tarak Source: Proceedings of the Annual Hawaii International Conference on System Sciences, v 2016-March, p 172-173
Database: Compendex
Detailed Show preview v Enlink text v Check local full text v

Mapping indoor overheating and air pollution risk
aylor, Jonathon (UCL Institute for Environmental Design and Engineering, Bartlett School of Environment, Energy and Resources, Central House, 14 Upper Woburn Pl, London, United Kingdom); Davies, Mike; Mavrogianni, Anna; Shrubsole, Clive; Hamilton, Ian; Das, Payel; Jones, Benjamin; Oikonomou, Eleni; Biddulph, Phillip Source: Building and Environment, v 99, p 1-12,

Selected records 0 Create account Login

Sort by: Relevance
Relevance
Date (Oldest)
Date (Newest)
Author (A-Z)
Author (Z-A)

可同时勾选多篇文献, 进行管理(E-mail/打印/下载书目信息/存到我的数据夹/暂存)

Browse Index

Quick search
Search in: [All fields](#) ☒ for [Turn off AutoSuggest](#) [Add search field](#) [Reset form](#)

[Databases](#) [Date](#) [Document type](#) [Language](#) [Treatment](#) [Discipline](#) [Sort by](#) [Autostemming](#) [Browse indexes](#)

[Author](#) [Author affiliation](#) [Controlled term](#) [Publisher](#)

[Source title](#)

Browse Index: 可利用索引功能浏览 / 查询作者、作者服务机构、Ei控制词汇、期刊名称和出版社

Engineering Village - browse Index Lookup - Google Chrome
安全 | <https://www.engineeringvillage.com/search/browseindex.url?d...>
Search for: [Find](#) [Submit](#) Selected index: [Ei Controlled term](#)
Click on letter below to browse index:
[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)
[Aa](#) [Ab](#) [Ac](#) [Ad](#) [Ae](#) [Af](#) [Ag](#) [Ah](#) [Ai](#) [Aj](#) [Ak](#) [Al](#) [Am](#) [An](#) [Ao](#) [Ap](#) [Aq](#) [Ar](#) [As](#) [At](#) [Au](#) [Av](#) [Aw](#) [Ax](#) [Ay](#) [Az](#)
Select terms below to add to search
Connect terms with: [AND](#) [OR](#) [Next page >](#)
[A](#) (Compendex)
[A A](#) (Compendex)
[A B](#) (Compendex)
[A B C](#) (Compendex)
[A C](#) (Compendex)
[A D](#) (Compendex)
[A E](#) (Compendex)
[A F](#) (Compendex)
[A FERREIRA](#) (Compendex)
[A FRAME](#) (Compendex)

文献内容：详细格式

Authors: 点选作者名字找到更多该作者发表的文章

Author affiliation: 每位作者的所属机构

E-mail: 主要作者联络信息

ISSN: 找到更多关于这本期刊的文章

Corresponding Author: 通讯作者

Abstract: 文章内容摘要

Main heading: 主要主题

Controlled term: 索引词汇标准

Uncontrolled term: 相关主题的广义分类

Classification code: 在来源中其它附加优势的词汇和词组

Record 21 from Compendex & Inspect for: ((stress)) WN All fields, 1884-2012

Check record to add to Selected Records

21 ☐ Accession number: 2006269991405

Title: Stress wave emission and cavitation bubble dynamics by nanosecond optical breakdown in a tissue phantom

Authors: Brujan, Emil-Alexandru^{1, 2}  Vogel, Alfred¹ 

Author affiliation: ¹ Institute of Biomedical Optics, University of Lübeck, Peter-Monnich-Weg 4, 23554 Lübeck, Germany
² Department of Hydraulics, University Politehnica, Spl. Independentei 313, 050042 Bucharest, Romania

Corresponding author: Vogel, A. (vogel@bmo.uni-luebeck.de)

Source title: Journal of Fluid Mechanics

Abbreviated source title: J. Fluid Mech.

Volume: 558

Issue date: July 10, 2006

Publication year: 2006

Pages: 281-308

Language: English

ISSN: 00221120

E-ISSN: 14697645

CODEN: JFLSA7

Document type: Journal article (JA)

Publisher: Cambridge University Press

Abstract: Stress wave emission and cavitation bubble dynamics after optical breakdown in water and a tissue phantom with Nd:YAG laser pulses of ns duration were investigated both experimentally and numerically to obtain a better understanding of the physical mechanisms involved in

Number of references: 79

Main heading: Acoustic emissions

Controlled terms: Bubbles (in fluids) - Cavitation - Compressive stress - Computer simulation - Mechanical properties - Semiconductor lasers - Tensile stress

Uncontrolled terms: Cavitation bubble dynamics - Compressive stress wave - Optical breakdown

Classification code: 631.1.1 Liquid Dynamics - 723.5 Computer Applications - 744.4.1 Semiconductor Lasers - 751.2 Acoustic Properties of Materials - 931.2 Physical Properties of Gases, Liquids and Solids

Treatment: Theoretical (THR)

DOI: 10.1017/S0022112006000115

Database: Compendex

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结果中再检索



Refine Result 结果再检索

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Numeric filter ①

Refine results

Limit to Exclude

Add a term

Controlled vocabulary 000 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 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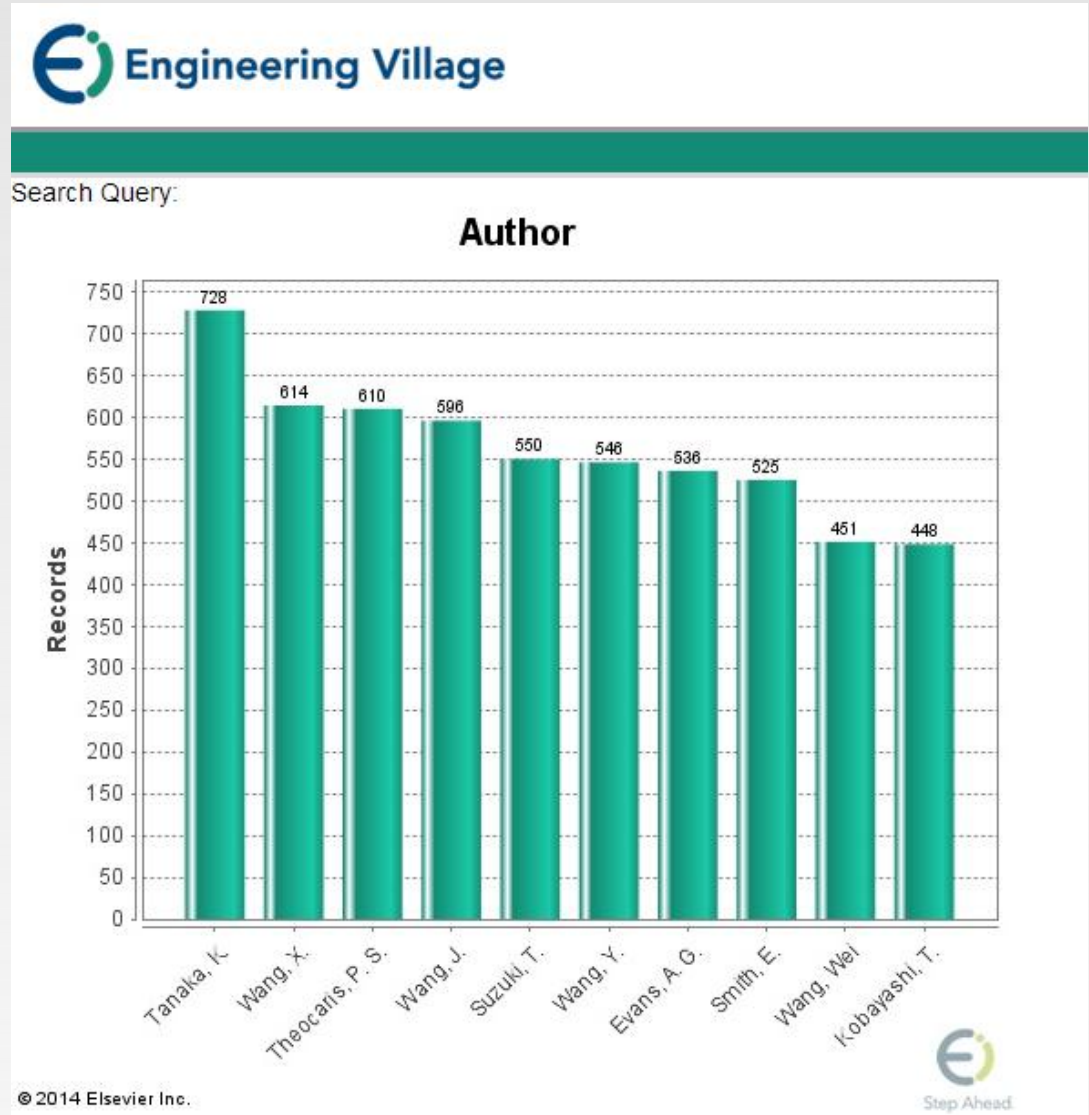
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2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 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2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666

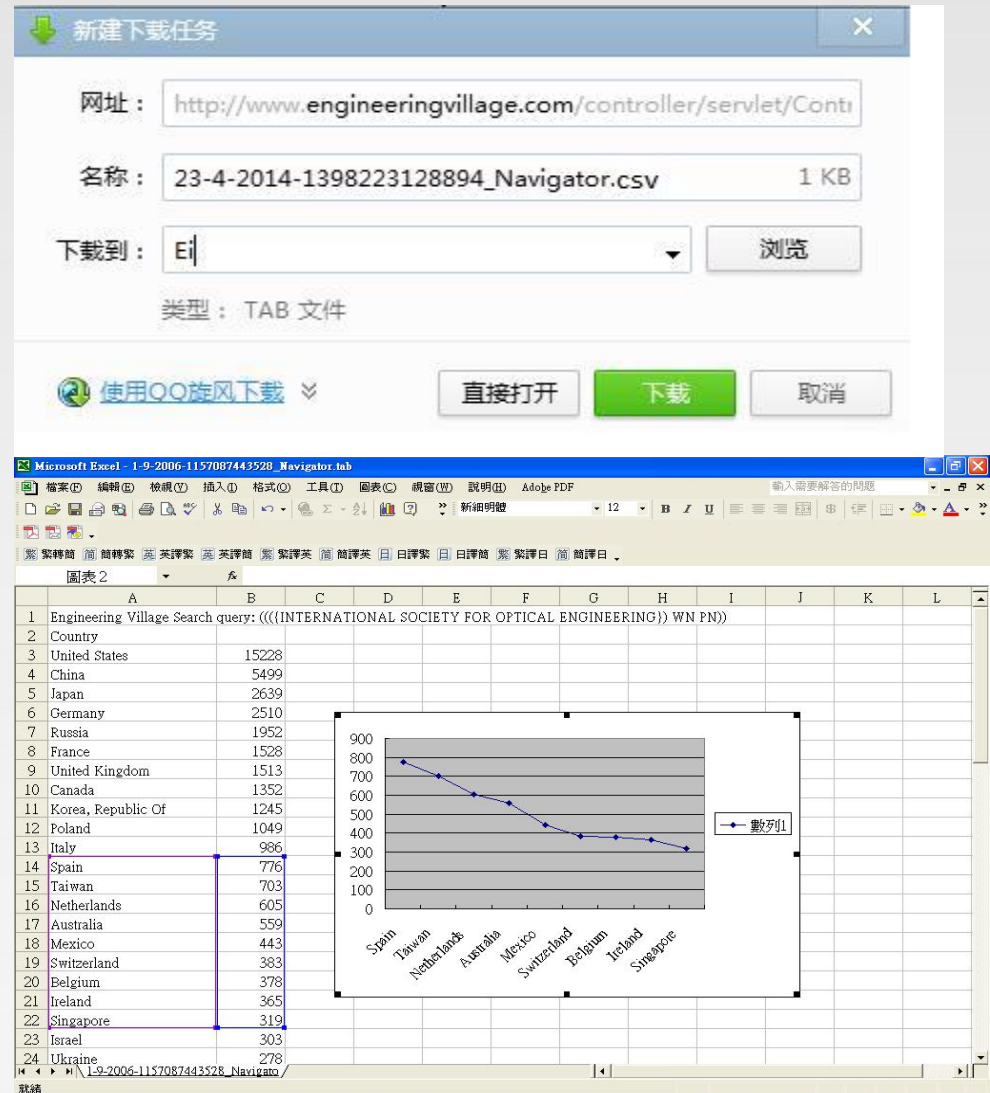
Refine Results Graphs & Export

- 当点选  图表，会开启一个新窗口看到在各分析项目中前10篇结果的图片。
- 例如：右图呈现该检索主题各国的学者所发表的文献数量!并可在此图片存盘、打印、或是Email。



Refine Results Graphs & Export

- 点选  图标可以让您将图表输出成tab档案
- 您也可以将输出的档案以 **Excel** 软件开启分析管理



Refine Results 的作用

- 了解你的同行吗，他们又有哪些成就呢？
- 了解你关心的课题所涉及的领域，是否能发现新的研究方向
- 了解课题所处的生命周期，通过文献计量的年代分析
- 了解课题的热门期刊，作为投递文章的选择
- 通过文献类型了解论文的分布

分析功能

控制词汇

Controlled vocabulary	
☐ Water	(76175)
☐ Mathematical Models	(72140)
☐ Computer Simulation	(57816)
☐ Soils	(53764)
☐ Water Quality	(48305)
View all >	

作者

Author	
☐ Wang, Wei	(1194)
☐ Zhang, Wei	(1139)
☐ Li, Wei	(1112)
☐ Wang, Jun	(883)
☐ Wang, Yan	(806)
View all >	

作者机构

Author affiliation	
☐ University Of Chinese Academy Of Sciences	(3096)
☐ U.S. Geological Survey	(2262)
☐ State Key Laboratory Of Water Resources And Hydropower Engineering Science, Wuhan University	(2049)
☐ Csiro Land And Water	(1818)
☐ State Key Laboratory Of Urban Water Resource And Environment, Harbin Institute Of Technology	(1705)
View all >	

学科分类

Classification code	
☐ Chemical Products Generally	(305324)
☐ Chemical Operations	(284168)
☐ Organic Compounds	(258893)
☐ Chemical Reactions	(228331)
☐ Chemistry	(185796)
View all >	

国家

文献类型

原文语言

年

Country	
☐ United States	(300214)
☐ China	(268704)
☐ Japan	(85354)
☐ United Kingdom	(67054)
☐ Germany	(65020)
View all >	

Document type	
☐ Journal article	(1171538)
☐ Conference article	(397495)
☐ Dissertation	(18684)
☐ Article in Press	(7993)
☐ Conference proceeding	(7739)
View all >	

Language	
☐ English	(1508046)
☐ Chinese	(74904)
☐ German	(18953)
☐ Russian	(13839)
☐ Japanese	(10762)
View all >	

Year	
☐ 2018	(269)
☐ 2017	(64800)
☐ 2016	(94832)
☐ 2015	(92476)
☐ 2014	(97399)
View all >	

刊源

出版社

赞助机构

Source title	
☐ Water Science And Technology	(21535)
☐ Proquest Dissertations And Theses Global	(18684)
☐ Water Research	(16333)
☐ Advanced Materials Research	(14270)
☐ Proceedings Of Spie - The International Society For Optical Engineering	(14068)
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Publisher	
☐ Elsevier Ltd	(144352)
☐ Elsevier	(121944)
☐ American Chemical Society	(67892)
☐ Institute Of Electrical And Electronics Engineers Inc.	(26782)
☐ Springer Verlag	(25231)
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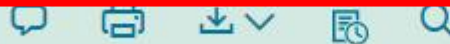
有五种选项保存需要的文章

Record

Record 1 from Compendex for: ((water) WN All fields) , 1884-2018

< Back to results

Full text



Abstract

Detailed

Compendex Refs 43

☐ **Water** dema

Kozłowski, Edward

Source: Archives of
10.1016/j.j.acme.2018.03.001

Author affiliation

Management, Na
2 Lublin Universit
Nadbystrzycka 40

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- ☐ Mendeley
- ☐ RefWorks
- ☐ Google Drive
- ☐ Dropbox
- ☐ Your Folder(s)

Format:

- ☐ EndNote (RIS, Ref. Manager)
- ☐ BibTeX
- ☐ Text (ASCII)
- ☐ CSV
- ☐ Excel®
- ☒ PDF
- ☐ RTF (Word®)

Output:

- ☒ Current page view
- ☐ Citation
- ☐ Abstract
- ☐ Detailed record

File name:

Engineering_Village

_current_page_view_Date/Time.pdf

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Cancel

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* Go to the Selected records page and clear records; OR
* End your session

Location:

- ☐ My PC
- ☐ Mendeley
- ☐ RefWorks
- ☐ Google Drive
- ☐ Dropbox
- ☒ Your Folder(s)

Format:

- ☒ EndNote (RIS, Ref. Manager)
- ☐ BibTeX
- ☐ Text (ASCII)
- ☐ CSV
- ☐ Excel®
- ☐ PDF
- ☐ RTF (Word®)

Output:

- ☒ Current page view
- ☐ Citation
- ☐ Abstract
- ☐ Detailed record

File name: water

View/Update Folders

With your personal account, you can create up to ten folders in which to save selected records. Each folder can contain up to 50 records. choose an existing folder or create a new folder.

My existing folders:

Create a folder:

Folder Name : Water

1 record in this folder

View Folders

ALL ☒ Citation format ☒ ☐ ☐ ☐

1. ☒ **Water demand forecasting by trend and harmonic analysis**
Kozłowski, Edward (Lublin University of Technology, Faculty of Management, Department of Management, Kowalski, Dariusz; Mazurkiewicz, Dariusz
Source: Archives of Civil and Mechanical Engineering, v 18, n 1, p 140-148, January 2018
Database: Compendex

标签功能

Tags & Groups

[Browse tags](#)[Search tags](#)[View/Edit groups](#)[Rename/Delete tags](#)

Display: Public



1 123 Ad Hoc networks AP Arabidopsis thaliana assessment BUPT cao Capillary electrophoresis Cloud Index Conducting polymers Contact resistance Data sets Datasets EI2 Electro
Electronics cooling ESJP Fault diagnosis folksonomy Gene expression Gulf of Mexico Hydrogen production Informatics Information Literacy irr irrelevant Lead Free solder
Metamaterials Microchannels Modeling My Nanoparticles Ni Chen Noise sources nope Numerical modeling Oil Spills Paper Ontology Optical Burst Switching OBS Optical netwo
fibers Photonic crystals Power Quality Room temperature Sea Surface Temperature SST Sensor networks Silicon photonics Soil properties Stars Suction Support Vector Machine SVM Support vector machines survey
paper tag clouds tagging TEST Thermal aging Thermal management Triaxial tests Unsaturated Soils ustc Volume rendering Water content Water management waynestate Web Services Wireless Sensor Networks
xionghui yes

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Folders

Tags & groups

Bulletins

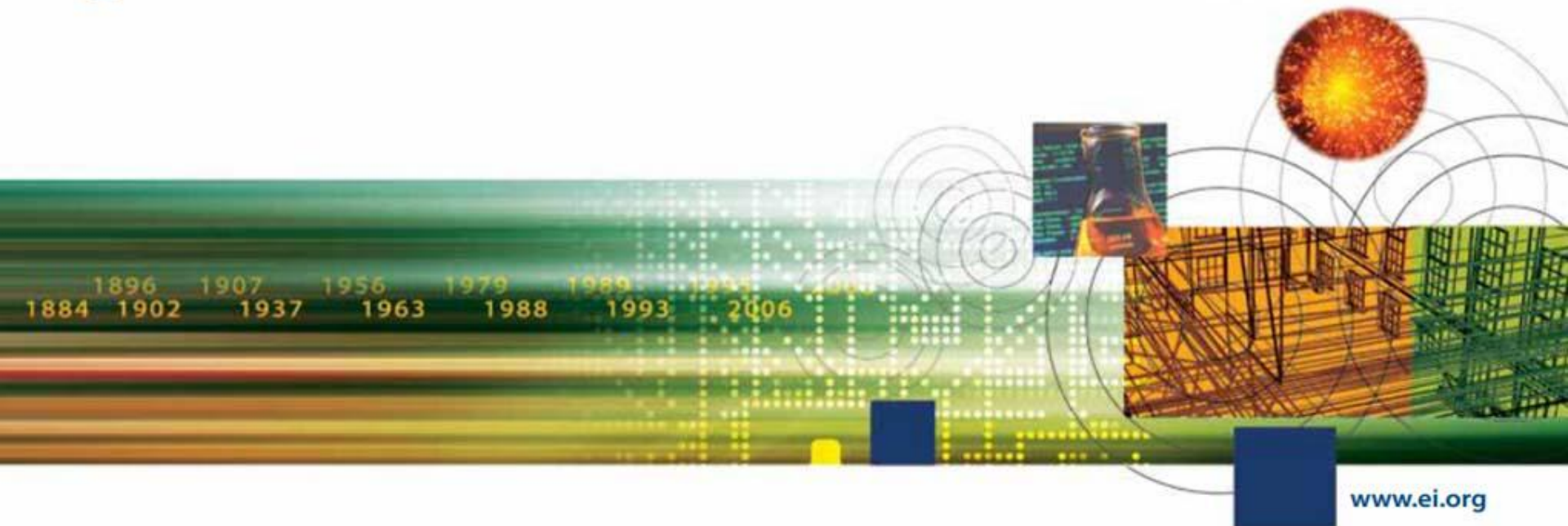
Interactive equations

标签功能

Tag（标签）的功能

- 使用者可对任何的数据指定其关键词（标签）
- 使用者可透过标签执行检索
- 使用者可选择将自己的标签对其他人公开
 - 所有的EV使用者
 - 只在个人所属的研究团队
 - 只限个人使用，不对其他人公开

注意，此为个人化功能，需注册及登录后才能使用。



Expert Search – 专家检索



Expert Search – 专家检索

输入检索词汇和检索字段代码

Selected records ⓘ

?

Create account

Expert search

Search for:

Eg.:smith wn AU and ("autonomous navigation" or radar*)

Reset form

检索代码

Databases ▾ Date ▾ Sort by ▾ Autostemming ▾ Search codes ^ Browse indexes ▾

Database		Code = Field		Code = Field	
c	= Compendex	AB	= Abstract (c,i,n,pc,cm,cb,el,ep,g,f,u,e,k)	CVMA	= Major term as a reagent (el,ep)
i	= Inspec	AN	= Accession number (c,i,n,pc,el,ep,g,f,k)	CVMN	= Major term with no role (el,ep)
n	= NTIS	AF	= Affiliation/Assignee (c,i,n,pc,cm,el,ep,g,f,u,e)	MS	= Map Scale (f)
pc	= PaperChem	ALL	= All fields (c,i,n,pc,cm,cb,el,g,f,u,e,k)	MP	= Map Type (f)
cm	= Chimica	ANN	= Annotation (f)	MI	= Material identity number (i)
cb	= CBNB	AI	= Astronomical indexing (i)	AG	= Monitoring agency (n)
el	= EnCompassLIT	AU	= Author/Inventor (c,i,n,pc,el,ep,g,f,u,e,k)	NT	= Notes (n)
ep	= EnCompassPAT	AV	= Availability (n,cb,f)	NU	= see Numerical Data Codes (c,i)
n	= GFOR&SF	CR	= CAS registry number (cm,cb,el,en)	NI	= Numerical indexing (i)

Codes displayed will depend on your current database selection

通配符

- ***右截词**-命中检索词起始部分相同的记录
- **Learn*** 命中**learn, learns, learning, learned, learnt, learner(s), learner's, learnability, learnable**
- **?有限截词**-问号个数代表字符数
- 如**distance?** 可检出复数; **Wom?n** 命中**woman, women**
- **\$词根运算符**等价于Auto stemming功能
- **\$ manage** 命中 **manage, managing, managed, manager, managers, management, managements。**

位置算符

- 词组检索“ ” 或{ }- 词间不能插词，词序不能颠倒
- “**International Space Station**”命中包含有词组 “**International Space Station**”的记录
- 词组检索不能使用通配符与字根符
- **Onear/n-** 两个词之间可插入0—n个词，词序不能颠倒,如
- **Distance Onear/3 learning**
- **Near/n-** 两个词之间可插入0—n个词，词序可以颠倒，如
- **Distance near/3 learning**

查收-人名检索

◆EI数据库的作者有九种写法：以**娃哈哈**(Wa Haha)老师为例 Wa haha or Wa ha-ha or Wa hh or Wa h-h or Wa h or haha wa or ha-ha wa or haha w or ha-ha w

◆建议大家采用截词符 “ * ”，以三种形式来代替，并用其他检索字段来限制 **Wa H* or haha w* or ha-ha w ***

◆利用作者单位提高查准率

**((Wa H*) or (haha w*) or (ha-ha w *)) wn au
AND (XXX onear univ*) wn af)**

◆用作者查不到某篇文章时，可用篇名试试

查收-机构检索

- 推荐检索式：
- 以清华大学为例
- (tsinghua onear univ* and (beijing or 100084 or china)) wn af and 2015 wn yr
- 由refine results—author affiliation可知，均为清华大学。
- (此检索式只供参考，在借鉴使用时一定要考虑自身情况优化)

提高主题检索效率的方法（准且全）

- 从文中选词检索易漏检或误检
 - 一个概念有多种表示—**导致漏检** (检索时需要收集同义词, 费时麻烦且易漏检)
 - 一个词可以表示多个概念—**导致误检** (cell 细胞、电池 Cell w n ti, 检出的文献中有solar cell, tumor cells等)
- EI的解决方案: 对文献进行主题标引
 - 做到**标引词与概念一一对应**, 标引词来源于词表, 故EI的标引词也称为受控词

◆ 如“计算机层析”

- 这一概念在文中可以有如下表示: CT、computet tomography、computed tomography、computerized tomography、computerised tomography、computer-aided tomography
- EI主题标引时, 统一表示为 “Computerized Tomography”

EI的主题标引字段: Ei main heading/controlled term/Uncontrolled term

- 采用受控词标引—提高主题检索效率

标引词取自叙词表

相应字段

Ei controlled term, CV

Ei main heading, MH

- 非受控词标引字段—解决词表更新滞后的问题

标引词直接取自文中词，如关键词及摘要

相应的字段: Uncontrolled term, FL

The screenshot displays a record from the Engineering Index (EI) database. The record is titled "Water quality monitoring of water resources conservation area in city of Shanghai based on remote sensing". The authors listed are Yanling, Qiu¹, Hongen, Zhang¹, Xiaohua, Tong², Ling, Chen³, Jianfu, Zhao³. The source is the International Geoscience and Remote Sensing Symposium (IGARSS), p 3434-3437, 2006. The abstract discusses the use of remote sensing for water quality monitoring in Shanghai, mentioning the use of Landsat 5 TM images and the establishment of inversion models for dissolved oxygen (DO) and chemical oxygen demand (COD). The main heading is "Remote sensing". The controlled terms are "Condition monitoring", "Cost effectiveness", "Water conservation", and "Water quality". The uncontrolled terms are "Inversion model", "TM image", and "Water quality monitoring". The classification code is 444 Water Resources - 445.2 Water Analysis - 731.1 Control Systems - 911.2 Industrial Economics. The treatment is Theoretical (THR) - Experimental (EXP). The database is Compendex.

Abstract | **Detailed** | ☒ Highlight search terms

Record 1 from Compendex for: ((water resources--conservation) WN All fields), 1884-2016

Check record to add to Selected Records

☐ **Water quality monitoring of water resources conservation area in city of Shanghai based on remote sensing**

Yanling, Qiu¹ Hongen, Zhang¹; Xiaohua, Tong²; Ling, Chen³; Jianfu, Zhao³

Source: International Geoscience and Remote Sensing Symposium (IGARSS), p 3434-3437, 2006; 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS. **ISBN-10:** 0780395107. **ISBN-13:** 9780780395107. **DOI:** 10.1109/IGARSS.2006.681. **Article number:** 4242029; **Conference:** 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, July 31, 2006 - August 4, 2006; **Sponsor:** IEEE Geoscience and Remote Sensing Society; Canadian Remote Sensing Society; National Aeronautics and Space Administration, NASA; National Oceanic and Atmospheric Administration; Office of Naval Research; **Publisher:** Institute of Electrical and Electronics Engineers Inc.

Author affiliations:

¹ Key Laboratory of Yangtze Aquatic Environment, Tongji University, Ministry of Education, Shanghai, China

² Department of Survey and Geo-Informatics, Tongji University, Shanghai, China

³ State Key Laboratory of Pollution Control and Resource Reuse, College of Environmental Science and Engineering, Tongji University, Shanghai, China

Abstract:

Water pollution of upstream Huangpu River is regarded as one of the most significant environmental problems in Shanghai. As a necessary complement to conventional water quality monitoring methods, remote sensing based water monitoring has the advantages of large scale, speediness, cost-effective and so on. In this study, LANDSAT 5 Thematic Mapper (TM) image was selected as the satellite data source. Inversion models of representative water quality parameters in upstream Huangpu River based on remote sensing were established. The universality of these models was verified. The average fitting deviation between the estimated and real value of dissolved oxygen (DO) and chemical oxygen demand (COD) were less than 19% and 17%, indicating the inversion models could meet the needs of remote sensing based water quality monitoring. (13 refs)

Main heading: Remote sensing

Controlled terms: Condition monitoring - Cost effectiveness - Water conservation - Water quality

Uncontrolled terms: Inversion model - TM image - Water quality monitoring

Classification Code: 444 Water Resources - 445.2 Water Analysis - 731.1 Control Systems - 911.2 Industrial Economics

Treatment: Theoretical (THR) - Experimental (EXP)

Database: Compendex

Full-text and Local Holdings Links

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EI同时采用受控词和非受控词进行主题标引

- **采用受控词标引—提高主题检索效率**
 - 标引词取自叙词表
 - 相应字段
 - EI controlled term, CV
 - Ei main heading, MH
- **非受控词标引字段—解决词表更新滞后的问题**
 - 标引词直接取自文中词, 如关键词及摘要
 - 相应的字段: Uncontrolled term, FL

叙词表的作用

- 叙词表是由专业的规范词组成，它可以将同一主题不同表述的词，按主题内容规范在标准的专业词下，避免了由于词汇书写不同造成漏检，或词义概念混淆导致错检的问题。
- 用户利用叙词表可从主题角度检索文献，进而提高文献的查准率。
- 利用叙词表还可以从主题概念的角度扩展或缩小检索范围。

叙词表概述

- 分面层次
 - 分面: 按类别分组
 - 层次: 上位类/下位类
- 自动显示的款目
 - 有信心检索专属性的任一层次
- 相互参照
 - 引导用户使用有效款目

层次

叙词表层次

设备*

反应器

炼焦器

裂解器

催化裂解器

裂解炉

氢化裂解器

蒸汽裂解器

微分反应器

发酵器

细颈瓶

流反应器

气化炉

液态排渣气化炉

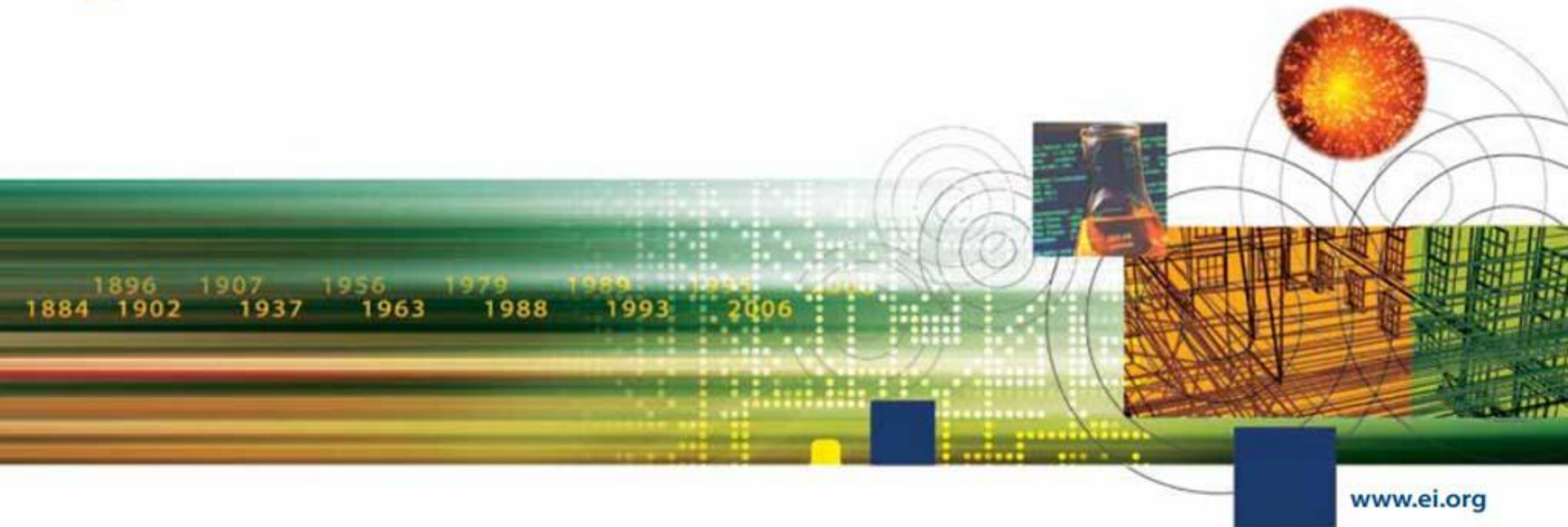
甲烷转化器

下雨固体反应器

裂化炉

如果在层次结构中的一个术语后面有一个*，该术语就不能被它下面的下位词自动显示出来。

Thesaurus Search - 词库检索



Thesaurus Search – 词库检索

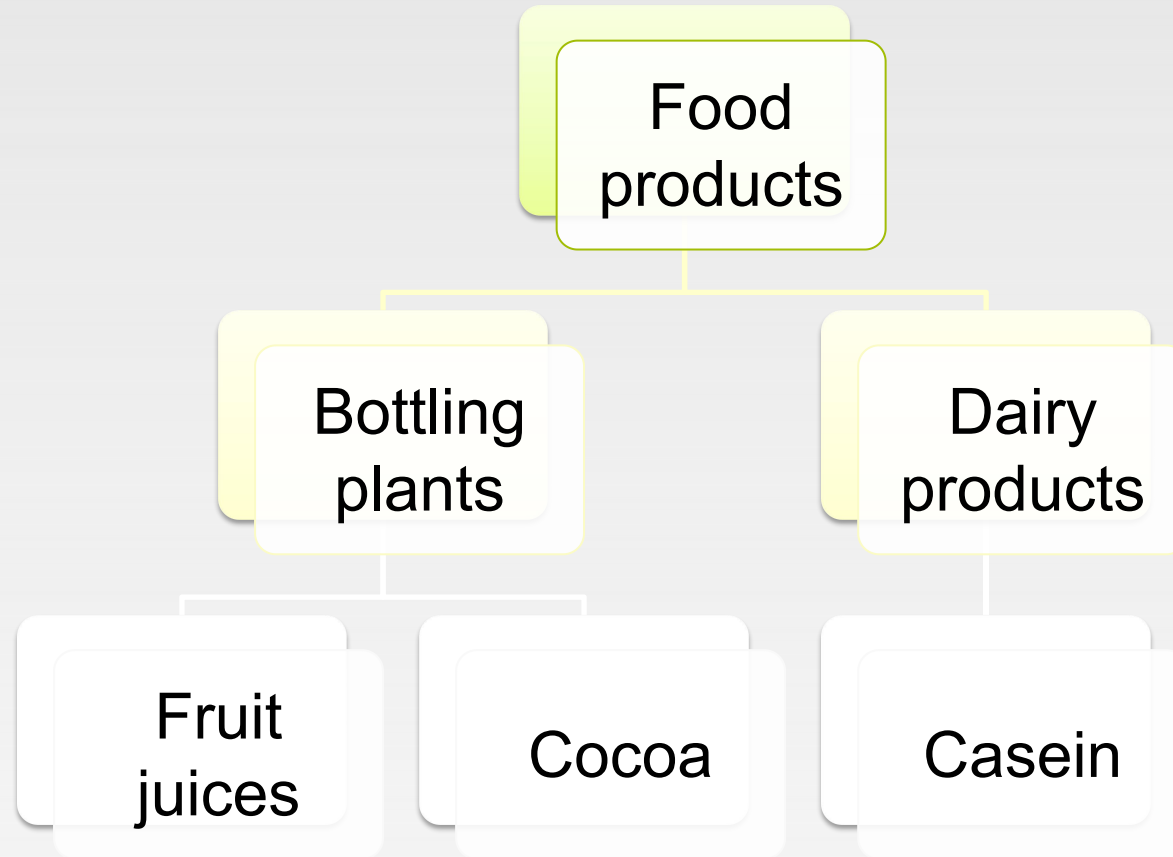


THESAURUS词库-Beverages（饮料）

•Broader
Term
广义词

•Related
Term
相关词

•Narrow
Term
狭义词



实例一用叙词表选词进行主题检索

- 用Thesaurus方式检索有关气候学中气候变化的温室效应
- 构设计方面的文献。
- 从课题名称中提取概念
 - 气候学 Climatology
 - 气候变化 Climate Change
 - 温室效应 Greenhouse effect
- 检索式：
 - ((({Climatology} WN CV) AND ({Climate change} WN CV) AND ({Greenhouse effect} WN CV)))

用EI叙词表选词

点击“Thesaurus”，打开叙词表，输入关键词，点击“Search Index”，系统显示与之相应的叙词，勾选后，系统将所选的叙词调入检索框。选完词后，点击“search”检索

Engineering Village
The first choice for serious engineering research.

Create account

Thesaurus search

Database: ☒ Compendex ☐ Inspec ☐ GeoRef ☐ GEOBASE ☐ EnCompass

Search in: Exact term for

Exact term

Climate Change

☐ Climate change 

Broader terms
☒ Climatology

Related terms
☐ Air pollution
☐ Atmospheric composition
☐ Atmospheric temperature
☐ Climate models
☐ Greenhouse gases

Narrower terms
☐ Global warming
☒ Greenhouse effect

Selected term(s) >

☐ AND
☒ OR

Date Document type Language Discipline Treatment Sort by

EI叙词表(Thesaurus)

- EI标引用词
- 表中的词已规范化, 故也称为受控词(**controlled term**)
- 词表由字顺表和等级结构表组成。以下显示的为等级结构表

Thesaurus search

Database: ☒ Compendex ☐ Inspec ☐ GeoRef ☐ GEOBASE ☐ EnCompass

Search in: Exact term for

Exact term

Climate Change

☐ Climate change

Broader terms

☒ Climatology

Related terms

☐ Air pollution
☐ Atmospheric composition
☐ Atmospheric temperature
☐ Climate models
☐ Greenhouse gases

Narrower terms

☐ Global warming
☒ Greenhouse effect

Selected term(s) >

Climatology

Greenhouse effect

☐ AND
☒ OR

Date

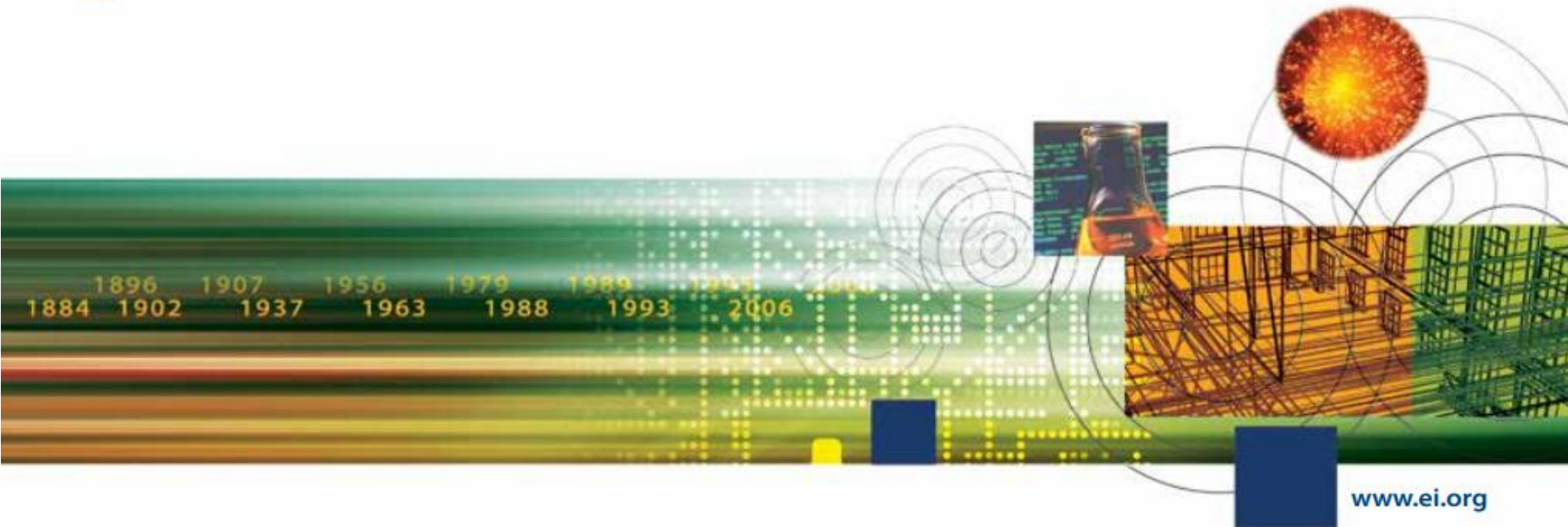
Document type

Language

Discipline

Treatment

Sort by



个人化功能



My Profile

- 功能
 - 储存检索策略 (125个)
 - 建立E-mail Alert (25篇)
 - 建立个人数据夹
 - 3个资料夹
 - 每个数据夹可储存50篇记录
 - 修改个人账号信息



EV特色

检索利器

1. Refine Results : 提供**多种字段**支持精确检索，并可做成图表
如：控制词汇、索书号、文件形式、刊名等(共10种)
2. 专家思维：控制词汇 – Thesaurus 词库
3. 使用者思维：自然语汇 – Tag 标签
4. 专业的专家检索模式：可自行输入检索语法



在线询问

The screenshot displays the Engineering Village website interface. At the top, the browser address bar shows the URL <https://www.engineeringvillage.com/selected/citation.url?page=1>. The website header includes the Engineering Village logo, a search bar, and navigation links for Alerts, Selected records, and a user profile (Ying Luo). A dropdown menu is open over the 'Selected records' link, showing options: Help, Contact, Ask an Expert, and Latest resources. The main content area, titled 'Selected records', states: 'Currently there are no records selected. Please select records from the search results and try again.' Below this, a table lists various links organized under three columns: Ei, Engineering Village, and Customer Service. The footer contains the Elsevier logo, copyright information for 2017 Elsevier B.V., and a link to the Cookies page. The Windows taskbar at the bottom shows several open applications, including Google Chrome, Microsoft Word, and various utility programs, with the system clock indicating 5:48 PM on 9/5/2017.

Selected Set - Citation Fc X

安全 | <https://www.engineeringvillage.com/selected/citation.url?page=1>

应用 ★ Bookmarks Import Contacts and CC MBS MBA IHG 先行者 幼升小 其他书签

Engineering Village™
The first choice for serious engineering research.

Search Alerts 0 Selected records 0 Ying Luo

Selected records

Currently there are no records selected. Please select records from the search results and try again.

Ei	Engineering Village	Customer Service
About Ei	About Engineering Village	Contact and support
History of Ei	Accessibility Statement	Subscribe to newsletter
	Content Available	Blog
	Who uses EV?	Twitter
	Privacy matters	

ELSEVIER Terms and Conditions Privacy Policy RELX Group™

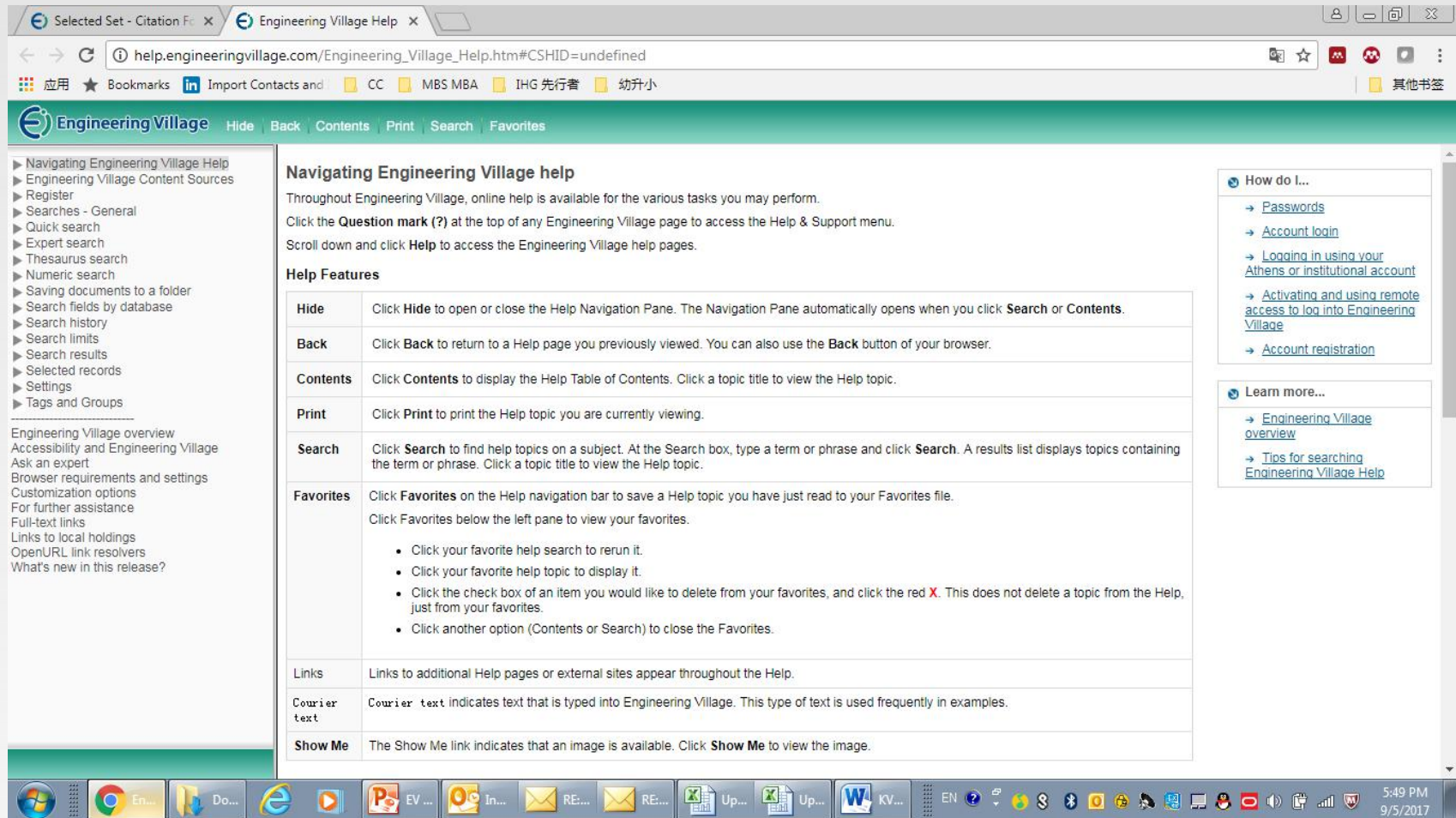
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KVL_Renewal_ProposalTemplate_Academic_012517.docx - Microsoft Word

5:48 PM 9/5/2017

Help-全面了解Ei



Selected Set - Citation Fo x Engineering Village Help x

help.engineeringvillage.com/Engineering_Village_Help.htm#CSHID=undefined

应用 ★ Bookmarks in Import Contacts and CC MBS MBA IHG 先行者 幼升小 其他书签

Engineering Village Hide Back Contents Print Search Favorites

▶ Navigating Engineering Village Help
 ▶ Engineering Village Content Sources
 ▶ Register
 ▶ Searches - General
 ▶ Quick search
 ▶ Expert search
 ▶ Thesaurus search
 ▶ Numeric search
 ▶ Saving documents to a folder
 ▶ Search fields by database
 ▶ Search history
 ▶ Search limits
 ▶ Search results
 ▶ Selected records
 ▶ Settings
 ▶ Tags and Groups

Engineering Village overview
 Accessibility and Engineering Village
 Ask an expert
 Browser requirements and settings
 Customization options
 For further assistance
 Full-text links
 Links to local holdings
 OpenURL link resolvers
 What's new in this release?

Navigating Engineering Village help

Throughout Engineering Village, online help is available for the various tasks you may perform.

Click the **Question mark (?)** at the top of any Engineering Village page to access the Help & Support menu.

Scroll down and click **Help** to access the Engineering Village help pages.

Help Features

Hide	Click Hide to open or close the Help Navigation Pane. The Navigation Pane automatically opens when you click Search or Contents .
Back	Click Back to return to a Help page you previously viewed. You can also use the Back button of your browser.
Contents	Click Contents to display the Help Table of Contents. Click a topic title to view the Help topic.
Print	Click Print to print the Help topic you are currently viewing.
Search	Click Search to find help topics on a subject. At the Search box, type a term or phrase and click Search . A results list displays topics containing the term or phrase. Click a topic title to view the Help topic.
Favorites	Click Favorites on the Help navigation bar to save a Help topic you have just read to your Favorites file. Click Favorites below the left pane to view your favorites. - Click your favorite help search to rerun it. - Click your favorite help topic to display it. - Click the check box of an item you would like to delete from your favorites, and click the red X. This does not delete a topic from the Help, just from your favorites. - Click another option (Contents or Search) to close the Favorites.
Links	Links to additional Help pages or external sites appear throughout the Help.
Courier text	Courier text indicates text that is typed into Engineering Village. This type of text is used frequently in examples.
Show Me	The Show Me link indicates that an image is available. Click Show Me to view the image.

How do I...

- [Passwords](#)
- [Account login](#)
- [Logging in using your Athens or institutional account](#)
- [Activating and using remote access to log into Engineering Village](#)
- [Account registration](#)

Learn more...

- [Engineering Village overview](#)
- [Tips for searching Engineering Village Help](#)

EN ?

5:49 PM 9/5/2017

Contact Us-直接提问

[Click Here to visit our Help Database](#)

Contact Us



Ask a Question

Your Contact Details

* Denotes a required field

Title *

First Name *

Last Name *

Email Address *

Country/Region *

How can we help you?

Subject *

To help us resolve your question quickly, please provide as much of the following information as possible.

Attach Files:

Additional Details

Send Message

Ask An Expert - FAQ

Ask an expert

Frequently asked questions

When is full text available?

How can I obtain a full-text document if it is not available to me?

What are "facets" and how do they help my search?

Which groups of results data (facets) are available to me?

Why would I export the grouped result data (facets) into a chart and/or spreadsheet?

How often is content updated into Engineering Village?

How can I manage my results and save my searches?

What is the benefit of email alerts and RSS

Why would I share a record?

What are tags and how can I use them?

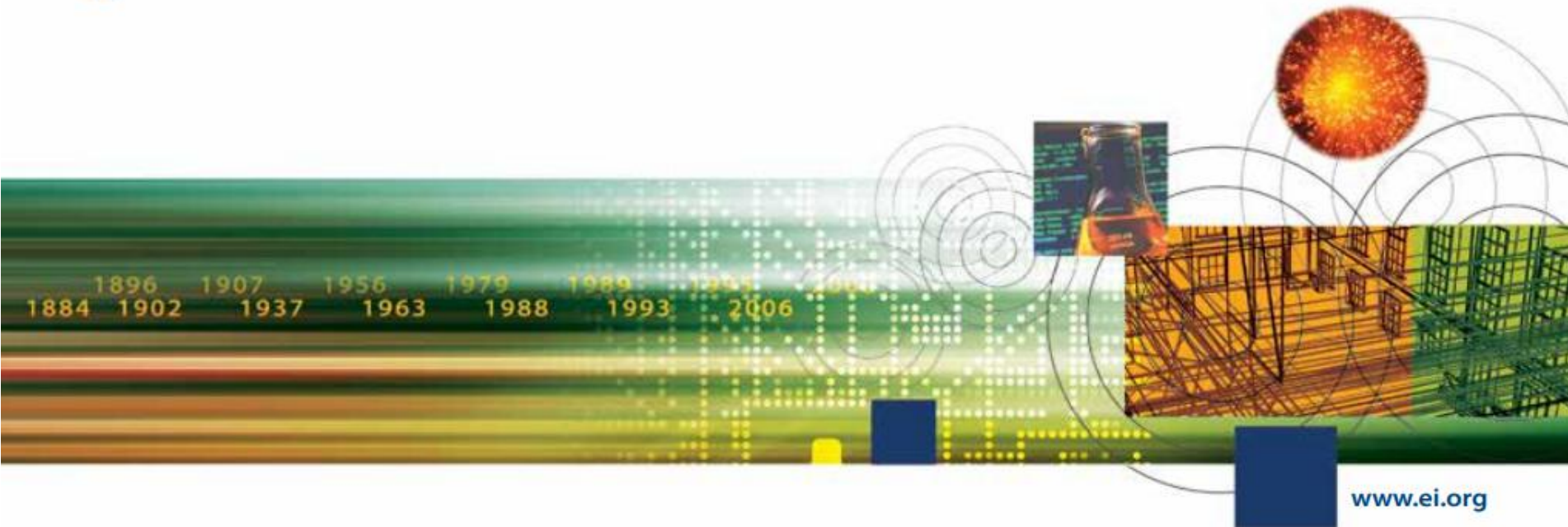
What does it mean to "Browse indexes"?

How can the thesaurus help me when searching for content?

Ask an expert

[Ask a product specialist](#)

[Ask a librarian](#)



www.ei.org

EI论文撰写技巧



撰写EI论文的要点及写作技巧

- 选题要小、分析要深；“新题新做”，“小题大做”
- 注意学术积累，充分利用数据库
- “选题新”，“方法新”，“资料新”的三个原则

写作技巧

“抄写”不可避免，妙在“抄写”技巧。

- 格式上的“照抄”：同类性质的研究文章，撰写格式大同小异。
- 常用句型的“照抄”：可灵活“抄”用，有些描述性、结论性的句子在读懂的情况下尽量用自己的语言表达和总结
- 论文中尽量使用你熟悉的词汇，不要故意使用华丽、少用或罕见词汇

撰写EI论文的要点分析

- 文章尽量写成**偏向工程技术方向**，要尽量融入一些工程技术类成分进去
- 文章篇幅**4-5页为佳**（模板调整后的4-5页），文章太长或者太短都不行
- 摘要只写**研究目的意义、内容、过程和研究效果**，其它一律不要。**摘要切记不要出现研究背景详细介绍。**
- 引言部分要有**前人成果对比分析**，研究背景不要展开论述，**引出论文主题后立即进行前人成果对比分析**，并简要阐述自己的研究工作。
- 文章尽量要有研究测试结果、仿真结果、实际应用结果或者实验结果。这是证明你文章创新的证据，这个部分最好做到**有图、有表、有详细分析、有数据，篇幅尽量在1页左右为佳**
- 文章结束语可以再次梳理文章流程，**主动例举出本文的创新点，并点两个本文的不足之处**（不能太多），下步研究工作，如何客服这些不足，让审稿专家感觉你是做了很多工作才写出论文的。

相关网站资源

- 中文使用指南, 培训课件和Webex视频培训: 爱思唯尔 :
<http://china.elsevier.com/elsevierdnn/ch/%E8%AE%B2%E5%B%A7%E4%B8%8E%E6%B4%BB%E5%8A%A8/%E4%BA%A7%E5%93%81%E8%A7%A3%E5%86%B3%E6%96%B9%E6%A1%88%E5%9C%A8%E7%BA%BF%E5%9F%B9%E8%AE%AD/tabid/2698/Default.aspx>
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爱思唯尔助力您的科学研究



○ ○ ○ ○ ○ ○