

연구성과 분석 솔루션 -SciVal 매뉴얼-



2014
Elsevier Korea
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Agenda



- Scopus
- SciVal - 기관차원
 - How to login
 - Overview
 - Benchmark
 - Collaboration
- SciVal - 개인차원
 - Research Areas
 - Researchers and Groups



- Peer-Reviewed된 연구문헌 정보를 제공하는 **초록 및 인용 데이터베이스**
- 전 세계 5,000여 개 이상의 출판사에서 출판되는 21,800여종 이상의 타이틀 수록 (과학, 기술, 의학, 사회과학, 인문, 예술 분야)
- 논문별 인용정보: 연구과정을 지원하기 위해 논문별 인용정보 제공
- Author Profile: 각 저자의 논문, 피인용, 참고문헌. H-Index 제공
- Affiliation Profile: 기관의 논문을 그룹핑. 기관의 연구성과 분석, 논문, 저자, 특허, 주제정보, 연구협력기관
- Journal Analyzer: 개별 저널 평가 및 분석. 논문, 피인용도, SJR, SNIP 지수 제공

Scopus

Search | Sources | Analytics | Alerts | My list | Settings

Quick Search Search

Back to results | 1 of 12 Next >

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Seoul National University

| | |
|----------------|---|
| Name | Seoul National University |
| Affiliation ID | 60013682 |
| Address | San 56-1 Sillim-dong Seoul, Seoul South Korea |
| Name variants | Seoul National University |

Research

| | | |
|----------------|--------|---|
| Documents | 78,101 | + Add to my list Set alert Set feed |
| Authors | 26,985 | |
| Web results | 35 | |
| Patent results | 1,484 | |
| Sources | 802 | Applied Physics Letters |
| | 782 | Physical Review Letters |
| | 704 | Archives of Pharmacal Research |
| | 693 | Journal of the Korean Physical Society |
| | 608 | Lecture Notes in Computer Science Including Subseries Lecture Notes in Artificial Int |

[View more...](#)

[Find potential affiliation matches](#)

Collaborating affiliations

| Affiliation name | Documents |
|--|-----------|
| Korea University | 2,580 |
| Sungkyunkwan University | 2,186 |
| Seoul National University, College of Medical Sciences | 2,110 |
| Yonsei University | 2,055 |

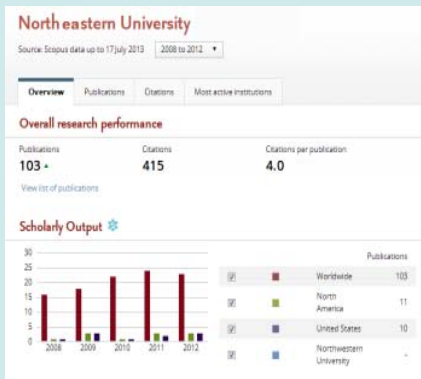
SciVal - 전략적인 의사결정 및 계획



SciVal: Scopus를 기반으로 한 연구성과 분석 솔루션

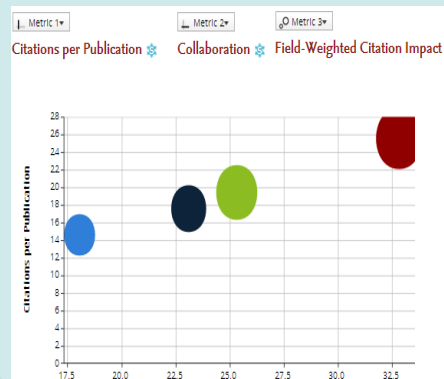
Performance Overview Module

선택한 기관의 성과평가를 위한 연구성과 분석 결과



Benchmarking Module

20개의 연구성과 분석 메트릭스를 통해 연구 팀, 연구자간의 성과 분석, 평가



Collaboration Analysis Module

현재의 연구협력현황과 앞으로의 연구협력 기회 분석



What?

How?

- 표준화된 형식의 리포트
- 4,600개 기관, 220개 국의 연구성과 분석결과

- 연구자, 연구팀의 특징에 따라 적합한 평가 메트릭스를 활용
- 연구전략 수립을 위한 상대적인 장점, 강점 확인

- 전세계 지도를 통한 협력현황 시각화
- 해당 기관과의 연구 협력에 기반한 협력기관 랭킹

How to Login

접속: <http://www.scival.com>

1

SciVal

Login

SciVal is a ready-to-use solution with unparalleled power and flexibility, which enables you to navigate research and devise an optimal plan to drive and analyze your performance.

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|

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Register to gain access to SciVal

2

3

Register

Registration is quick and easy. Register to stay up-to-date with Search Alerts and Document Citation Alerts or keep track of your research with Saved Searches.

Create a unique log in to use in Elsevier products

Your details

First name:

Family name:

E-mail and password

Enter a password between 5 and 20 characters. Your e-mail address will be your username

E-mail address:

Password:

Confirm password:

[Show other settings](#) [Hide other settings](#)

Profile image

This is the image used to represent you to other users.

You may upload any appropriate image to represent yourself. The display size for this image may be up to 100 x 100 pixels. This image can be a gif, jpg, png file.

Upload Image

Your job

5

SciVal

| | | | | |
|------|----------|--------------|---------------|-----------|
| Home | Overview | Benchmarking | Collaboration | My SciVal |
|------|----------|--------------|---------------|-----------|

My SciVal

Researcher and Groups

Publication Sets and Groups

Research Areas and Groups

Define a Research Area

| Name | Last updated | Actions |
|-------------------------------------|------------------|----------------------|
| My Research Area - 10 January 2014 | 10 January 2014 | Delete Shortcuts ▾ |
| My Research Area - 14 November 2013 | 26 November 2013 | Delete Shortcuts ▾ |
| My Research Area_5November2013 | 15 November 2013 | Delete Shortcuts ▾ |

- 1) www.scival.com 으로 접속
- 2) 기존의 ScienceDirect, Scopus 아이디가 있는 경우 기존 아이디와 패스워드 입력하여 접속
- 3) 기존의 SD, Scopus 가 없으신 경우, "Register Now"를 클릭하여 계정 생성
- 4) Register를 클릭한 화면으로 이름, 이메일, 패스워드 입력하여 계정 생성완료
- 5) My SciVal: 계정 생성 후, 개인이 저장한 키워드나 연구자, 연구팀의 셋팅 관리

Registration link가 안 보이는 경우:

<https://www.scival.com/customer/authenticate/loginfull>



SciVal

Home

Performance Overview

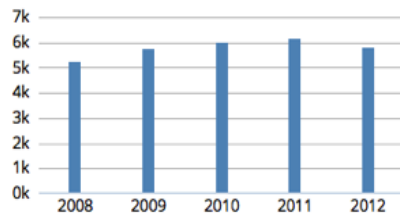
Benchmarking

Collaboration Analysis

1

Let SciVal help you put your research performance in perspective

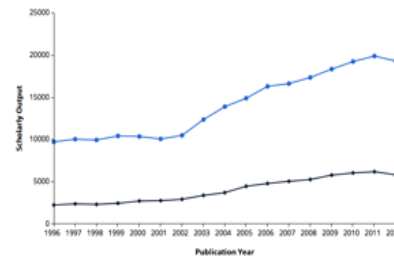
Performance Overview



Get a high-level overview of the research performance of your Institution, other Institutions, Countries and Groups of Researchers.

[Performance Overview >](#)

Benchmarking



Benchmark any Institutions, Research Areas, Countries, and Researchers using a wide variety of metrics.

[Benchmarking >](#)

Collaboration Analysis



Explore the collaboration network of your Institution, other Institutions and Researchers.

[Collaboration Analysis >](#)

Create Research Areas

3

A Research Area is a field of research defined by you. It can represent a strategic priority, an emerging area of science, or any other topic of interest.

Once you have created a Research Area you can view its performance dashboard, benchmark it against other areas, or identify collaborators in that area.

ELSEVIER

[Create a new Research Area >](#)
[View my existing Research Areas >](#)
[Read more about Research Areas >](#)

1), 2) 주요모듈 선택: Performance Overview(연구성과분석), Benchmarking, Collaboration Analysis(연구협력현황 분석)
3) 연구관심분야, 키워드를 셋팅하여 관련 동향 분석

Overview Module



SciVal

Home Overview

View overview of:

Institutions and Groups

- Ewha Womans University
- Gwangju Institute of Science and Technology
- Korea Advanced Institute of Science and Technology
- Yonsei University
- Pusan National University
- Pohang University of Science and Technology
- Ulsan National Institute of Science and Technology
- Kyungpook National University
- Hanyang University
- Yale University
- Sungkyunkwan University
- Korea University
- Seoul National University**
- Massachusetts Institute of Technology
- California Institute of Technology
- Kyung Hee University
- University of Tokyo
- Tsinghua University
- Peking University
- Harvard University

[+ Add Institutions and Groups](#)

Researchers and Groups

Publication Sets and Groups

Countries and Groups

Countries and Groups

- Sweden
- Canada
- Netherlands
- United States
- Japan
- France
- Germany
- United Kingdom
- Korea (Republic of)**

[+ Add Countries and Groups](#)

Research Areas and Groups

- Overview: 4,600개 기관 220개 국가의 연구성과 분석
 - Institution
 - Summary
 - Publication
 - Citation
 - Competencies
 - Countries

Overview Module



SciVal

Home Overview **Benchmarking** Collaboration

View overview of:

1 Institutions and Groups

- Seoul National University
- Ewha Womans University
- Yonsei University

2 harvard
Harvard University

Researchers and Groups

Publication Sets and Groups

Countries and Groups

- Korea (Republic of)
- Sweden
- Russian Federation
- Hanyang University

3 united states
United States
United States Minor Outlying Islands

- Korea Advanced Institute of Science and Technology
- Seoul National University**
- Massachusetts Institute of Technology

4 Research Areas and Groups

- My Research Area - 14 November 2013
- My Research Area_5November2013

+ Add Research Areas and Groups

Seoul National University **5**

Korea (Republic of) | Scopus affiliation ID: 60000656... Sh

Source: Scopus data up to 05 Dec 2013 | 2010 to 2013 | no filter selected

Summary Publications Citations Collaboration Competencies

Overall research performance

| | | |
|--------------|----------|-----------|
| Publications | Authors | Citations |
| 31,330 ▲ | 24,099 ▲ | 127,258 |

View list of publications

Performance by Research Area

| Research Area | Publications | Citations | Authors |
|-------------------------------------|--------------|-----------|---------|
| My Research Area - 14 November 2013 | 2,527 ▲ | 16,781 | 3,700 |
| My Research Area_5November2013 | 33 ▼ | 277 | 79 |
| My Research Area - 10 January 2014 | 0 | - | - |

Performance by Journal Category

Pie chart Table

| Journal Category | Percentage |
|-----------------------|------------|
| Medicine | 19.4% |
| Biochemistry, Gene... | 10.9% |
| Engineering | 11.3% |
| Materials Science | 7.5% |
| Physics and Astronomy | 8.3% |
| Chemistry | 6.5% |
| Chemical Engineering | 3.8% |
| Mathematics | 2.7% |
| Other | 9.2% |
| Computer Science | 5.1% |
| Neuroscience | 2.2% |
| Pharmacology, Toxi... | 2.8% |
| Immunology and Mic... | 2.4% |
| Environmental Science | 2.2% |
| Earth and Planetar... | 2.1% |
| Agricultural and B... | 3.7% |

Visualize research performance

연구기관, 국가, 연구 그룹(팀, 학과), 주제별의 연구 경향에 대한 포괄적인 분석

Performance Overview

1) Institutions and Groups: 전세계 주요 연구기관 4,600개 기관 검색하여 해당 기관별 연구성과 분석. 예) Harvard와 같이 기관명 입력하여 추가

2) Researchers and Groups: 연구자와 연구자별 그룹 생성하여 연구성과 비교 분석, 학과별의 성과 분석 가능. 연구자별 등록은 Benchmarking 에서만 가능하며, 등록연구자의 그룹핑은 Overview에서도 가능

3) Countries and Groups: 220개 국의 연구성과 분석. 예) United States 검색하여 추가하고 연구성과 분석

4) Research Areas and Groups: 관심 연구주제 및 키워드 등록하여 관련 경향 분석

5) 왼쪽의 메뉴에서 선택한 내용이 화면 중간에서 보여짐

Overview - Summary



Seoul National University

Korea (Public of) | Scopus affiliation ID: 60002 Show all

Source: Scopus data up to 05 Dec 2013 | 2010 to 2013 | no filter selected

- 3 years 2010 to 2012
- 3 years + current year 2010 to 2013
- 3 years + current year + beyond current year 2010 to >2013
- 4 years 2008 to 2012
- 5 years + current year 2008 to 2013
- 5 years + current year + beyond current year 2008 to >2013

- no filter selected
- no filter selected
- ▶ Agricultural and Biological Sciences
- ▶ Arts and Humanities
- ▶ Biochemistry, Genetics and Molecular Biology
- ▶ Business, Management and Accounting
- ▶ Chemical Engineering
- ▶ Chemistry
- ▶ Computer Science
- ▶ Decision Sciences
- ▶ Dentistry
- ▶ Earth and Planetary Sciences
- ▶ Economics, Econometrics and Finance
- ▶ Energy
- ▶ Engineering
- ▶ Environmental Science
- ▶ Health Professions
- ▶ Immunology and Microbiology
- ▶ Materials Science

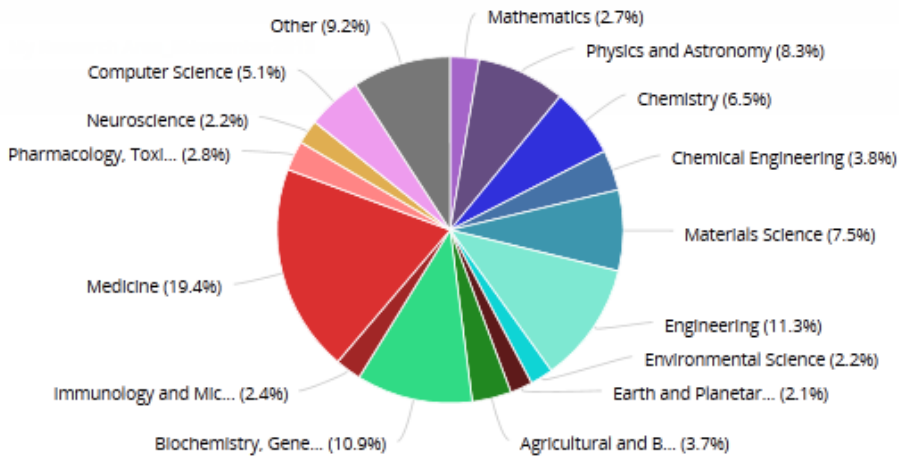
Summary | Publications | Citations | Collaboration | Competence

Overall research performance

| | | | |
|--------------|----------|-----------|---------------------------|
| Publications | Authors | Citations | Citations per Publication |
| 31,330 ▲ | 24,099 ▲ | 127,258 | 4.1 |

Performance by Journal Category

Pie chart | Table



Performance Overview
 4,500여 기관의 연구성과 분석을 리포트와 같이 쉽게 반출
 1) Source 확인: Scopus에서 데이터 반출일 확인
 2) 연도 선택 (3년, 4년, 5년, 6년 등)
 3) 주제선택(27개 주제와 이에 따른 330개 상세 주제)하여 해당 주제별 현황 분석
 4) 연구성과 분석결과 요약, 출판물 현황, 인용현황, 협력현황, 연구역량 등 탭을 선택하여 데이터 확인
 5) 논문 건 수, 저자 수, 인용, Citation Per Publication 확인
 6) 주제별 논문 발표현황

Overview - Summary



Performance by Journal Category

Export ▾

Pie chart | **Table**

| Journal Category | Publications | Citations | Authors | FWCI |
|--|--------------|-----------|----------|------|
| ▼ Seoul National University | 31,330 ▲ | 127,258 | 24,099 ▲ | 1.27 |
| ▶ Medicine | 10,514 ▲ | 44,188 | 10,875 ▲ | 1.27 |
| ▶ Engineering | 6,087 ▲ | 17,929 | 6,362 ▲ | 1.44 |
| ▶ Biochemistry, Genetics and Molecular Biology | 5,875 ▲ | 32,110 | 7,910 ▲ | 1.26 |
| ▶ Physics and Astronomy | 4,473 ▲ | 23,085 | 4,407 ▲ | 1.56 |
| ▶ Materials Science | 4,081 ▲ | 19,664 | 4,392 ▲ | 1.57 |
| ▶ Chemistry | 3,532 ▲ | 20,420 | 4,168 ▲ | 1.43 |
| ▶ Computer Science | 2,763 ▲ | 4,782 | 2,702 ▲ | 1.21 |
| ▶ Chemical Engineering | 2,046 ▲ | 12,232 | 3,047 ▲ | 1.56 |
| ▶ Agricultural and Biological Sciences | 1,976 ▲ | 7,198 | 2,866 ▲ | 1.20 |
| ▶ Pharmacology, Toxicology and Pharmaceutics | 1,503 ▲ | 6,547 | 2,334 ▲ | 1.09 |
| ▶ Mathematics | 1,458 ▲ | 3,131 | 1,485 ▲ | 1.34 |
| ▶ Immunology and Microbiology | 1,313 ▲ | 6,371 | 2,047 ▲ | 1.31 |
| ▶ Neuroscience | 1,217 ▲ | 5,213 | 1,700 ▲ | 0.94 |
| ▶ Environmental Science | 1,164 ▲ | 4,840 | 1,496 ▲ | 1.18 |
| ▶ Earth and Planetary Sciences | 1,133 ▲ | 4,474 | 889 ▲ | 0.99 |
| ▶ Energy | | | | |
| ▶ Social Sciences | | | | |
| ▶ Dentistry | | | | |
| ▶ Nursing | | | | |
| ▶ Veterinary | | | | |
| ▶ Business, Management and Accounting | | | | |
| ▶ Health Professions | | | | |
| ▶ Arts and Humanities | | | | |
| ▶ Economics, Econometrics and Finance | | | | |
| ▶ Psychology | | | | |
| ▶ Multidisciplinary | | | | |
| ▶ Decision Sciences | 154 ▲ | 371 | 163 ▲ | 1.08 |

Performance by Subject: 2008-2012 년을 선택한 경우;
 1) 4년 동안 발표된 출판물의 주제별 분석 현황 27개 주제와 330개 주제별로 분석
 2) Publications: 논문 발표건수 확인
 3) Citations: 인용현황
 4) FWCI: 같은 해, 동일 주제, 동일한 형태(리뷰, 아티클) 등에 따른 인용을 측정하여 표준화한 저널의 영향력 지수, 평균: 1, 1을 기준으로 평균 이상, 이하 판단

Overview - Summary (Top authors)



Top authors

Top 5 **1** at Seoul National University, by

| | Publications | Citations | <i>h</i> -Index * |
|------------|--------------|-----------|-------------------|
| Kim, H.S. | 164 | 1,679 | 79 |
| Lee, J.-H. | 157 | 362 | 40 |
| Kim, S.B. | 155 | 2,825 | 69 |
| Jeon, E.J. | 136 | 1,641 | 49 |
| Lee, B. | 136 | 601 | 18 |

* *h*-Index is based on an author's publications from 1996 onwards

Top collaborating Institutions

by number of publications co-authored with Seoul National University **4**

| Institution | Co-authored publications | Citations received for co-authored publications | Co-authors |
|-----------------------------------|--------------------------|---|------------|
| 1. Sungkyunkwan University | 1,693 ▲ | 10,796 | 1,821 ▲ |
| 2. Korea University | 1,466 ▲ | 8,407 | 1,466 ▲ |
| 3. Yonsei University | 1,408 ▲ | 8,419 | 1,642 ▲ |
| 4. University of Ulsan | 1,076 ▲ | 6,156 | 1,031 ▲ |
| 5. Hanyang University | 949 ▲ | 4,650 | 765 ▲ |
| 6. Kyungpook National University | 921 ▲ | 6,313 | 907 ▲ |
| 7. Chonnam National University | 762 ▲ | 6,436 | 803 ▲ |
| 8. Kyung Hee University | 712 ▲ | 2,816 | 733 ▲ |
| 9. Ewha Womans University | 710 ▲ | 3,896 | 752 ▲ |
| 10. Catholic University of Korea | 672 ▲ | 3,389 | 678 ▲ |

Kim, H.S.

Scopus author ID: 34769900900 | [View In Scopus](#)

Publications **2,105** **2**

[View list of publications](#)

Citations **38,042** **3**

Data from Scopus 2010-2013

Citations per Publication **18.1**

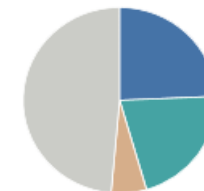
h-Index **79**

Publications by Journal Category



- General Physics and Astronomy (15.8%)
- Nuclear and High Energy Physics (8.8%)
- Condensed Matter Physics (7.0%)
- Other (68.5%)

Publications by Journal



- 1) 우리기관에서 선택한 기간 동안 가장 많은 논문을 발표한 저자 5명 정보와 해당 데이터 확인
- 2) 저자이름 링크 클릭 하면, 저자의 상세정보 확인
- 3) View in Scopus 클릭하여 저자의 Scopus 페이지로 이동
- 4) 선택 기간 동안 연구협력이 가장 많은 기관과 해당 데이터 확인

Overview - Publication



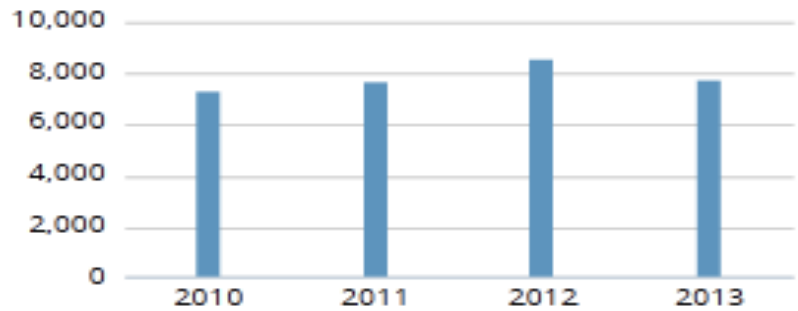
1 **Publications** Citations Collaboration Competencies 6

Overall by Journal Category by journal Export Shortcuts

Scholarly Output

2

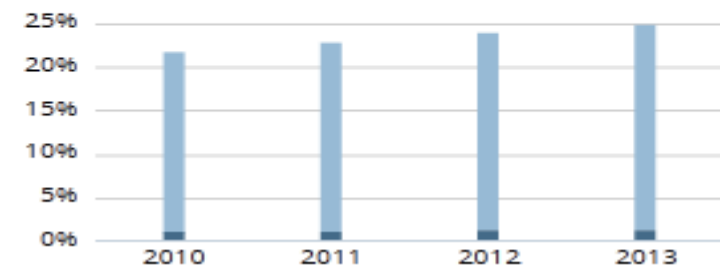
31,330 publications



Publications in Top Journal Percentiles

4

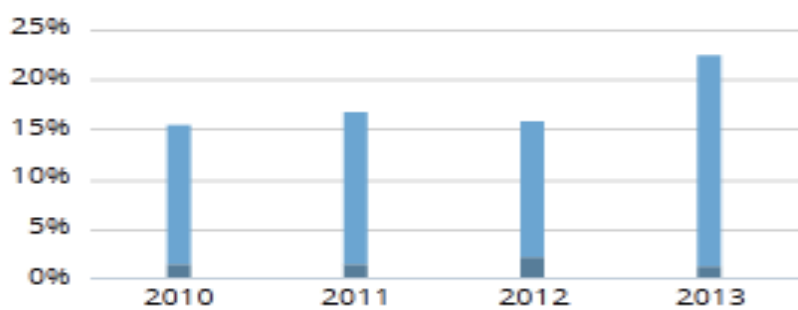
Share of publications at Seoul National University that ar



Outputs in Top Percentiles

3

Share of publications at Seoul National University that ar



Most cited publications

Top 5 publications at Seoul National University

- 5
- Publication: Kwak, E.L. et al. Anaplastic lymphoma kinase inhibitor in metastatic breast cancer. [View In Scopus](#)
 - Publication: Bang, Y.-J. et al. Trastuzumab in combination with paclitaxel and epirubicin for metastatic breast cancer (ToGA): A phase 3, open-label, randomised controlled trial. [View In Scopus](#)
 - Publication: Teslovich, T.M. et al. Biological, clinical, and environmental risk factors for type 2 diabetes. [View In Scopus](#)
 - Publication: Abe, K. et al. Indication of electrocatalytic reduction of carbon dioxide. [View In Scopus](#)
 - Publication: Kwon, D.-H. et al. Atomic structure of the human mitochondrial cytochrome b. [View In Scopus](#)

1) Publications: 우리학교의 출판물 데이터 전체, 저널의 주제별, 저널별로 논문 출판현황 분석
 2) 선택한 연도별 논문 출판현황
 3) 전세계 논문 대비 우리기관의 상위 1% 논문, 상위 10% 논문 비율
 4) 영향력 지수 높은 저널 기준으로 상위 1%, 10% 저널에 발표한 논문 비율
 5) 인용을 가장 많이 받은 우리학교 논문 5편 확인
 6) Export: 데이터 다운로드



Overview - Citation



1 Citations

2 Citation Count

3 Citations per Publication

4 Field-Weighted Citation Impact

5 Overall research performance

Seoul National University

Year range: 2010 to 2013

Export Shortcuts

Filtered by: not filtered

Types of publication: all publication types

Self-citation: included

Data source: Scopus

Date last updated: 5 December 2013

Date exported: 13 January 2014

| | Overall | 2010 | 2011 | 2012 | 2013 |
|--------------------------------|---------|-------|-------|-------|-------|
| Publications | 31330 | 7289 | 7712 | 8543 | 7786 |
| Citations per publication | 17.2 | | | | |
| Total citations | 127258 | 58547 | 40276 | 24822 | 3613 |
| Authors | 24099 | 8473 | 9009 | 10253 | 12115 |
| Authors (grouped) | 21 | | | | |
| Citations per author | 4.1 | 8 | 5.2 | 2.9 | 0.5 |
| Field-Weighted Citation Impact | 1.27 | 1.29 | 1.3 | 1.4 | 1.06 |

- 1) Citations: 인용현황 분석
- 2) Citation Count: 4년 동안의 인용현황 분석
- 3) Citation Per Publication: 논문별 인용건수
- 4) FWCI: 같은 해, 동일 주제, 동일한 형태(리뷰, 아티클)등에 따른 인용을 측정하여 표준화한 저널의 영향력 지수, 평균: 1, 1을 기준으로 평균 이상, 이하 판단
- 5) 해당 데이터 엑셀파일로 다운로드

Overview - Collaboration



| | | | | |
|---------|--------------|--------------------------------|------------------------|--------------|
| Summary | Publications | Citations | 1 Collaboration | Competencies |
| Overall | | Top collaborating Institutions | | |

Collaboration

Publication output of Seoul National University, by amount of international, national, and institutional co-authorship



- 26.6% International collaboration**
8,334 publications (26.6%) were co-authored with Institutions in other countries
Citations per Publication: 6.5
- 38.2% National collaboration**
11,977 publications (38.2%) were co-authored with other Institutions in the Korea (Republic of), but not with Institutions in other countries
Citations per Publication: 3.6
- 32.4% Institutional collaboration**
10,156 publications (32.4%) were co-authored with others at Seoul National University, but not with other Institutions
Citations per Publication: 2.9
- 2.8% Single authorship**
863 publications (2.8%) were not co-authored but had a single author
Citations per Publication: 1.4

Academic-Corporate Collaboration

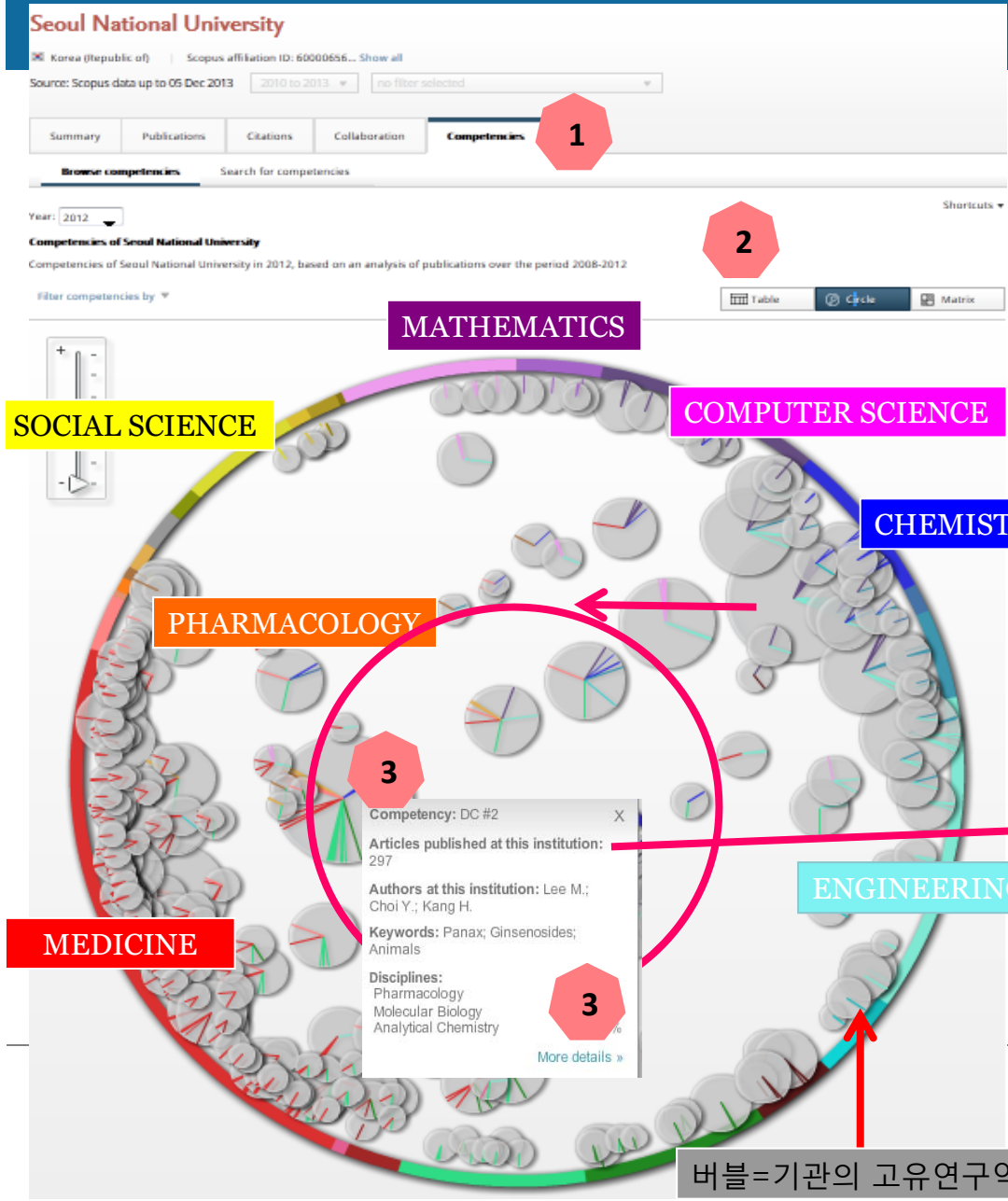


- 4.1% Academic-corporate collaboration**
1,282 publications (4.1%) had one or more authors with both academic and corporate affiliations
Citations per Publication: 8.6
- 95.9% No academic-corporate collaboration**
30,048 publications (95.9%) did not have authors with both academic and corporate affiliations
Citations per Publication: 3.9

1) Collaboration: 연구협력현황 분석
 2) 협력현황 데이터: 국제적인 기관들과의 연구협력, 국내기관과의 연구협력, 우리기관내의 연구 협력 등의 현황과 협력에 따른 Citation Per Publication 데이터 확인
 3) 연구협력 현황 Academic 기관과 corporate 기관으로 분류하여 해당 협력과 이에 따른 영향력 결과 분석



Overview - Competencies (연구역량)



우리학교는 어떤 주제 분야에 장점이 있는가?

- 1) Competencies: 5년간의 논문 데이터를 기반으로 우리 기관의 연구역량 분석. 전세계 어떤 기관과 비교해서도 우리기관이 잘하고 있는 분야 분석
- 2) 연구역량을 맵, 테이블, 매트릭스를 통해 분석
- 3) 각 연구역량을 클릭하여 역량별 상세정보 확인. 키워드, 저자, 저널, 학문분야에 대한 정보 확인

Competency DC #2
Panax; Ginsenosides; Animals

| Summary | Trends | Disciplines | Institutions | Authors |
|---|----------|---------------|--------------|---------|
| Based on an analysis of publications over the period 2008-2012, SciVal has identified DC #2 as a distinctive competency of Seoul National University | | | | |
| See why this field is a distinctive competency of Seoul National University | | | | |
| Articles published in this field (2008-2012) | | | | |
| | Articles | Annual growth | Citations | |
| Articles published worldwide | 7,847 | -3.9% | 81,397 | |
| Articles published in the Korea (Republic of) | 934 | -8.2% | 5,498 | |
| Articles published at Seoul National University | 297 | -2.7% | 2,090 | |

Show the contribution to this field from:

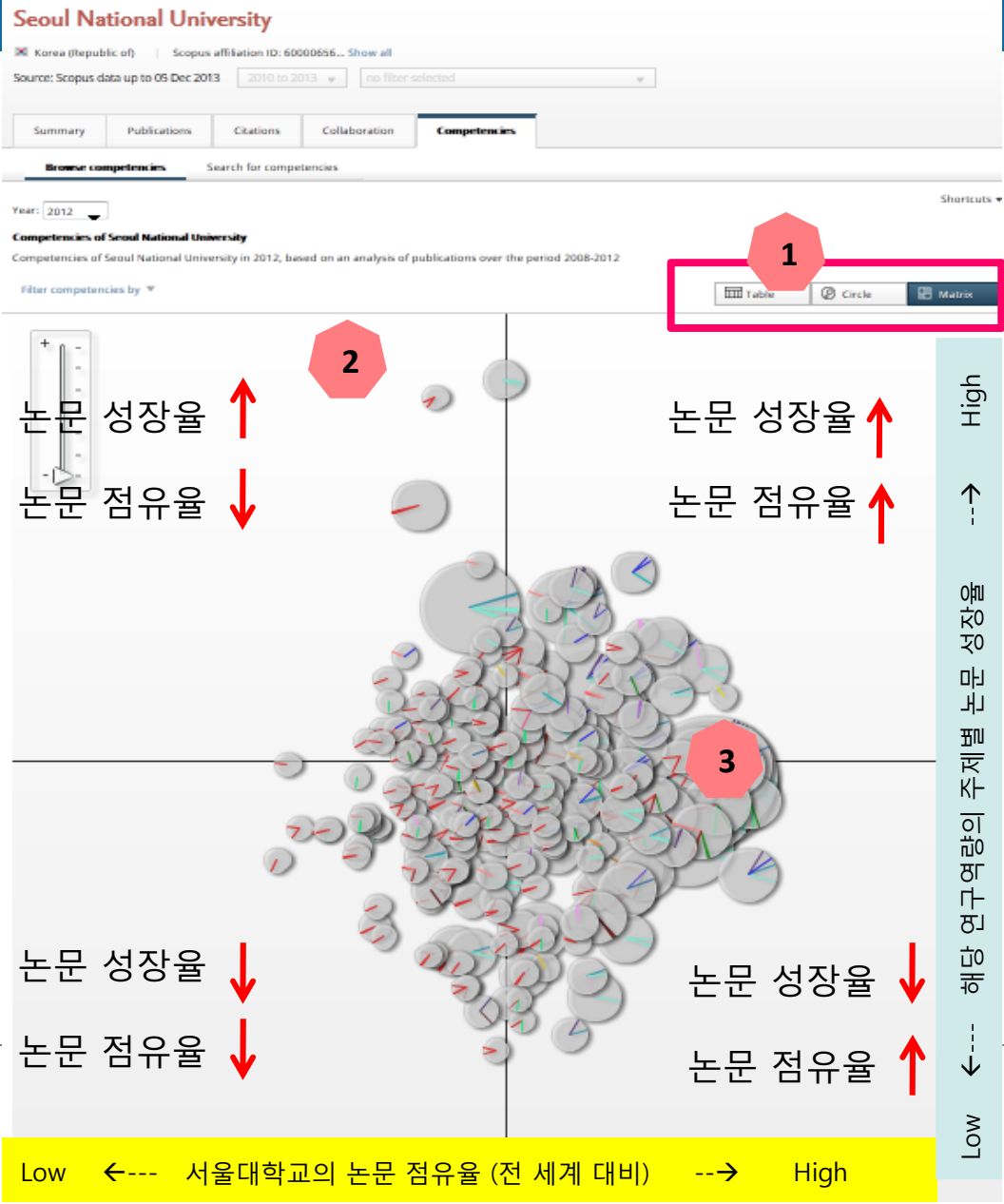
Seoul National University
 all contributing institutions worldwide

| Top keywords for Seoul National University | show all > | Top authors from Seoul National University | details > |
|--|------------|--|-----------|
| Pharmacokinetics | | Lee M. | |
| Panax | | Choi Y. | |
| Area Under Curve | | Kang H. | |
| Rats, Sprague-Dawley | | Lee J. | |
| Animals | | Park J. | |
| Administration, Oral | | Lee J. | |
| Rats | | Shin W. | |
| Ginsenosides | | Yang K. | |
| Microsomes, Liver | | Sun J. | |
| Metabolism | | Jung Y. | |

| Top disciplines for Seoul National University | details > | Top journals for Seoul National University |
|---|-----------|--|
| Pharmacology | | Xenobiotica; the fate of foreign comp... |
| Analytical Chemistry | | Journal of Pharmacy and Pharmacology |
| Molecular Biology | | Biopharmaceutics and Drug Disposition |
| Cancer Research | | Archives of Pharmacal Research |
| Drug Discovery | | British Journal of Pharmacology |

버블=기관의 고유연구역량

Overview - Competencies (연구역량)



우리학교는 어떤 주제 분야에 장점이 있는가?

- 1) 연구역량을 매트릭스를 통해 확인
- 2) 개별 연구역량 별, 성장율, 점유율 확인하여 해당 연구역량에 맞는 전략 수립
- 3) 역량 클릭하여 상세 정보 확인
- 4) 테이블 형태로 연구역량 브라우징

Year: 2012

Competencies of Seoul National University
Competencies of Seoul National University in 2012, based on an analysis of publications over the period 2008-2012

Filter competencies by

1 Table 2 Circle 3 Matrix

| ID | Keywords | Most active authors | Publications | Citations |
|--------|--|---------------------------|------------------|-----------|
| DC #1 | Stomach Neoplasms; Neoplasms; Survival | Bang Y., Im S., Oh D. | 222 [▲] | 2,818 |
| DC #2 | Panax; Ginsenosides; Animals | Lee M., Choi Y., Kang H. | 297 [▼] | 2,090 |
| DC #3 | Helicobacter pylori; Helicobacter infections; Pylorus | Kim N., Jung H., Song I. | 110 [▼] | 1,074 |
| DC #4 | Switching; Data storage equipment; Films | Hwang C., Park B., Han J. | 245 [▲] | 1,973 |
| DC #5 | Stem Cells; Myocardial Infarction; Tissue Therapy | Kang H., Park Y., Kim H. | 69 [▼] | 782 |
| DC #6 | Flash memory; Data storage equipment; Embedded systems | Paek Y., Shin I., Koh K. | 100 [▲] | 237 |
| DC #7 | Gastrectomy; Stomach Neoplasms; Laparoscopy | Kim H., Park D., Lee H. | 73 [▲] | 784 |
| DC #8 | Bone Marrow; Stem Cells; Mesenchymal Stem Cell Transplantation | Kim B., Bhang S., La W. | 87 [▲] | 839 |
| DC #9 | Breast; Breast Neoplasms; Ultrasonography; Mammary | Cho N., Chang J., Moon W. | 56 [▲] | 324 |
| DC #10 | Platelet Aggregation Inhibitors; Ticlopidine; Blood Platelets | Chae I., Park K., Koo B. | 43 [▲] | 272 |
| EC #11 | Thin film transistors; Zinc oxide; Threshold voltage | Han M., Han M., Kwon J. | 138 [▲] | 422 |
| DC #12 | Plasmons; slits; polaritons | Kim D., Seo M., Ahn K. | 122 [▼] | 750 |
| DC #13 | TRPV Cation Channels; Acne Vulgaris; Skin | Chung J., Cho T., Kim Y. | 90 [▼] | 1,034 |
| DC #14 | Monophenol Monooxygenase; Melanins; Microphthalmia-Associated Transcription Factor | Kim S., Park K., Kim H. | 133 [▲] | 552 |
| DC #15 | Tuberculosis; Latent Tuberculosis; Tuberculin Test | Lee S., Yim J., Song K. | 35 [▲] | 148 |
| DC #16 | Throughput Radio; Wireless networks | Kim C., Choi Y., Kwon T. | 47 [▲] | 103 |

Overview - Country / Institution



View overview of:

- Institutions and Groups
 - Researchers and Groups
 - Publication Sets and Groups
 - Countries and Groups**
 - Research Areas and Groups
- Sweden
 - Canada
 - Netherlands
 - United States
 - Japan
 - France
 - Germany
 - United Kingdom
 - Korea (Republic of)**
 - + Add Countries and Groups

1

Korea (Republic of)

Source: Scopus data up to 05 Dec 2013 2008 to 2012 no filter selected

- Summary
- Publications
- Citations
- Competencies
- Institutions**

2

Institutions in the Korea (Republic of)

Below is a list of Institutions in the Korea (Republic of):

Export

| Institution | Publications | Citations | Authors |
|---|--------------|-----------|---------|
| 1. Seoul National University | 35,989 | 266,841 | 22,890 |
| 2. Yonsei University | 21,830 | 153,579 | 14,242 |
| 3. Korea University | 18,556 | 124,501 | 11,439 |
| 4. Sungkyunkwan University | 16,806 | 124,080 | 10,861 |
| 5. Korea Advanced Institute of Science and Technology | 16,505 | 104,516 | 9,445 |
| 6. Hanyang University | 13,828 | 73,193 | 8,447 |
| 7. Kyung Hee University | 10,840 | 60,298 | 6,662 |
| 8. Pusan National University | 10,439 | 55,310 | 7,306 |
| 9. Kyungpook National University | 10,291 | 66,604 | 6,779 |
| 10. Pohang University of Science and Technology | 8,729 | 76,233 | 4,970 |
| 11. University of Ulsan | 8,323 | 62,056 | 5,849 |
| 12. Chonnam National University | 8,236 | 54,814 | 5,570 |
| 13. Chungnam National University | 8,030 | 39,890 | 5,159 |
| 14. Inha University | 7,512 | 40,384 | 4,524 |
| 15. Konkuk University | 7,311 | 40,616 | 4,657 |
| 16. Chonbuk National University | 7,192 | 42,215 | 4,974 |
| 17. Catholic University of Korea | 6,871 | 40,598 | 5,416 |
| 18. Samsung | 5,753 | 25,051 | 7,068 |
| 19. Korea Institute of Science and Technology | 5,623 | 40,516 | 3,205 |
| 20. Chung-Ang University | 5,615 | 26,227 | 3,581 |
| 21. Electronics and Telecommunications Research Institute | 5,435 | 16,319 | 3,332 |
| 22. Ewha Womans University | 5,315 | 45,366 | 3,350 |
| 23. Ajou University | 5,284 | 30,247 | 3,480 |
| 24. Chungbuk National University | 5,174 | 24,925 | 3,499 |
| 25. Gyeongsang National University | 5,150 | 30,804 | 3,472 |
| 26. Kangwon National University | 4,827 | 27,707 | 2,682 |
| 27. Gwangju Institute of Science and Technology | 4,680 | 32,224 | 2,374 |
| 28. Yeungnam University | 4,645 | 24,397 | 2,700 |
| 29. Inje University | 4,181 | 22,125 | 3,173 |

3

1) Countries 에서 대한민국 검색하여 한국의 연구성과 분석 결과를 개별 연구기관과 같이 확인
2) Institution 클릭하면 한국 기관별의 논문, 인용 건수 확인. Publication클릭하면 논문 확인



Benchmarking Module



SciVal

Home

Overview

Benchmarking

View metrics for:

Benchmarking

Institutions and Groups

- Ewha Womans University
- Gwangju Institute of Science and Technology
- Korea Advanced Institute of Science and Technology
- Yonsei University
- Pusan National University
- Pohang University of Science and Technology
- Ulsan National Institute of Science and Technology
- Kyungpook National University
- Hanyang University
- Yale University
- Sungkyunkwan University
- Korea University
- Seoul National University**
- Massachusetts Institute of Technology
- California Institute of Technology
- Kyung Hee University
- University of Tokyo
- Tsinghua University
- Peking University
- Harvard University
- [+ Add Institutions and Groups](#)

Researchers and Groups

Publication Sets and Groups

Countries and Groups

Research Areas and Groups

- BenchMarking: : 4,600개 기관
220개 국가의 연구성과를 15개의
메트릭스를 통해 비교 분석
 - Institution
 - Researchers and Group
 - Countries

Benchmark



Benchmark your progress

The screenshot shows the SciVal Benchmarking interface. On the left, a list of institutions is shown under 'Institutions and Groups', with 'Seoul National University' selected. Below this are sections for 'Researchers and Groups', 'Publication Sets and Groups', 'Countries and Groups', and 'Research Areas and Groups'. The main area is titled 'Benchmarking' and shows 'Source: Scopus data up to 2013'. A date range selector is set to '1996 to >2013'. A dropdown menu for 'no filter selected' is open, showing a list of research areas with 'Agricultural and Biological Sciences' selected. Below this, a 'Scholarly Output' section is highlighted, showing a list of metrics with 'Scholarly Output' selected. A 'Change to a different metric below:' section is also visible, with 'All publication types' selected in the 'Include:' dropdown. The interface includes a 'Chart' and 'Table' view selector, and a 'Choose as y-axis' button.

벤치마킹 기능을 통해 15개의 평가 지표로 경쟁기관과의 연구성과 비교 분석

- 1) Institution: 성과 비교분석을 원하는 기관 선택
- 2) Countries: 비교분석 원하는 국가 선택
- 3) 바 그래프를 통해 분석연도 선택
- 4) 분석 주제 선택 (27개, 330개 주제)
- 5) 분석 매트릭스 선택
- 6) 논문의 형태, 아티클, 리뷰 등으로 제한하여 연구성과 분석

Benchmark

Benchmarking

Source: Scopus data up to 05 Dec 2013

1996 to 2014

no filter selected

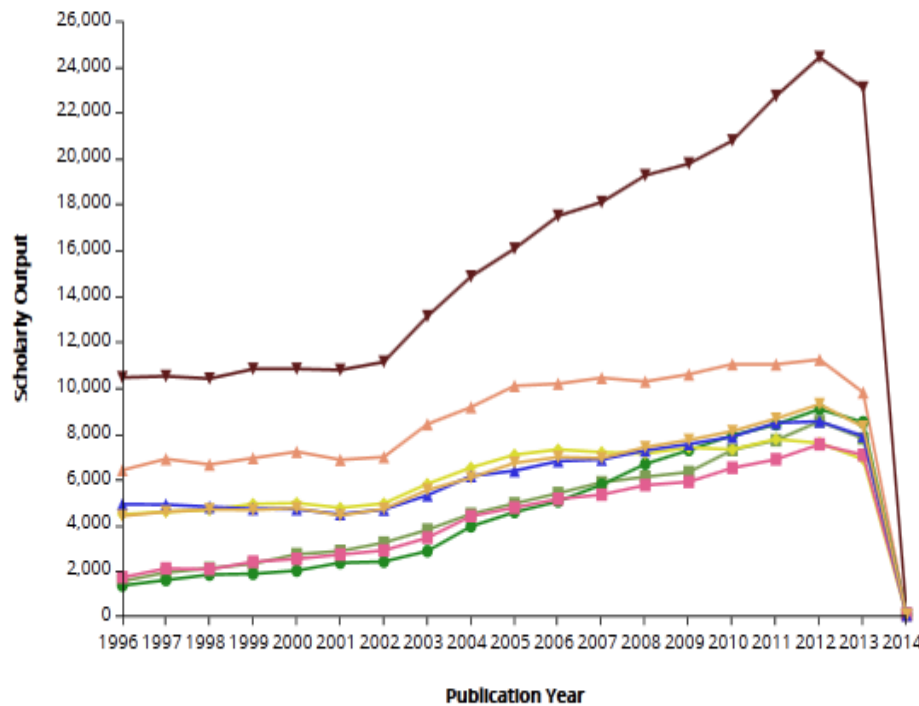
Chart

Table

Export

Scholarly Output

Publication Year



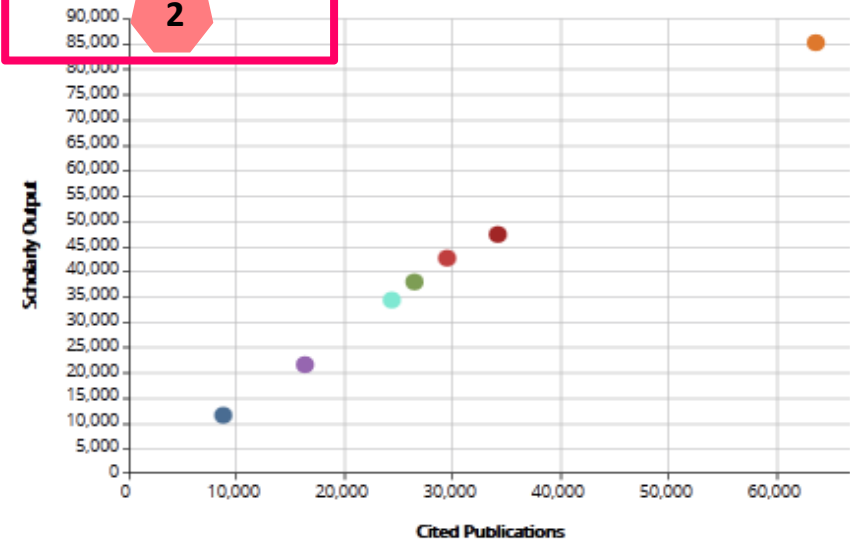
- Seoul National University
- University of Tokyo
- Harvard University
- Peking University
- Kyoto University
- National University of Singapore
- Imperial College London
- University of Cambridge

Chart

Table

Scholarly Output

Cited Publications



- Ewha Womans University
- Korea Advanced Institute of Science and Technology
- Korea University
- Pohang University of Science and Technology
- Seoul National University
- Sungkyunkwan University
- Yonsei University

Data source: Scopus

Date last updated: 5 December 2013

Date exported: 10 January 2014

Metric name: Scholarly C-
 Specific me: -
 Self-citation: -
 Types of publication: All publica-

| Name | Scholarly Output Overall | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|-------------|--------------------------|------|------|------|------|------|------|------|------|------|
| Ewha Wom | 11553 | 142 | 170 | 174 | 231 | 240 | 316 | 350 | 524 | 622 |
| Korea Adva | 42642 | 1282 | 1471 | 1411 | 1562 | 1705 | 1694 | 1696 | 1948 | 2278 |
| Korea Univ | 37940 | 398 | 507 | 590 | 651 | 735 | 907 | 975 | 1315 | 1640 |
| Pohang Uni | 21577 | 437 | 559 | 634 | 710 | 745 | 861 | 880 | 1122 | 1148 |
| Seoul Natic | 85253 | 1567 | 1941 | 2127 | 2328 | 2743 | 2879 | 3242 | 3811 | 4491 |
| Sungkyunkw | 34328 | 235 | 351 | 364 | 522 | 717 | 853 | 939 | 1300 | 1492 |
| Yonsei Univ | 47311 | 656 | 901 | 976 | 1090 | 1199 | 1397 | 1510 | 1819 | 2266 |

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- 1) 하나의 메트릭스 선택하여 분석결과 확인
- 2) 2개 메트릭스 선택하여 분석결과 확인
- 3) 그래프 수치 및 그래프 다운로드

Benchmark



Benchmarking

Source: Scopus data up to 05 Dec 2013

1996 to 2014

Multidisciplinary

Chart Table

y-axis

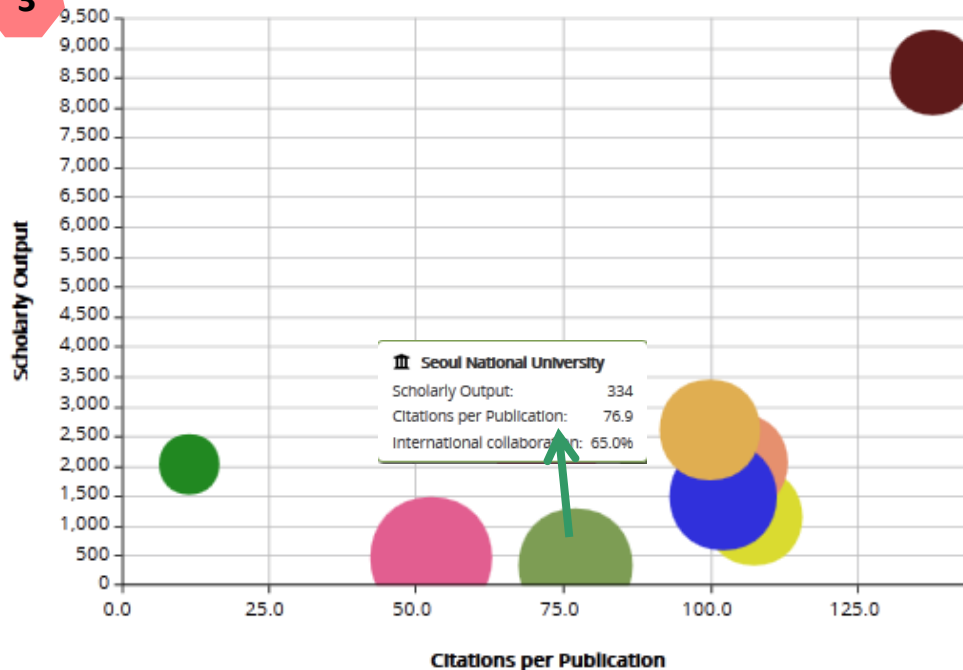
Scholarly Output

x-axis

Citations per Publication

Bubble size

Collaboration



- Peking University
- Seoul National University
- University of Cambridge
- Kyoto University
- National University of Singapore
- Harvard University
- University of Tokyo
- Imperial College London

Collaboration

Percent of institutional, national and international co-authorship.

Show as:

- International collaboration
- National collaboration
- Institutional collaboration
- Single authorship

Show as:

- Percentage
- Absolute number

Include:

All publication types

Choose as bubble size

View a third metric

Change to a different metric below:

- Academic-Corporate Collaboration
- Academic-Corporate Collaboration Impact
- Citation Count
- Citations per Publication
- Cited Publications
- Collaboration**
- Collaboration Impact
- Field-Weighted Citation Impact
- h-Indices
- Journal Category Count
- Journal Count
- Number of Citing Countries
- Outputs in Top Percentiles
- Publications in Top Journal Percentiles
- Scholarly Output
- Don't show a third metric

Benchmark 예시

- 1)기간선택: 2009-2013년
- 2)주제: 다학제 주제 (Multidisciplinary) 선택
- 3)메트릭스 1: 논문 출판 건수
- 4)메트릭스 2: 논문 한페이지 인용건수
- 5)메트릭스 3: 버블 크기로 국제적인 연구협력논문의 비율 선택, 원 크기가 클수록 연구협력 비율 높음.

Benchmark



Benchmarking

Source: Scopus data up to 05 Dec 2013

2008 to 2013

Energy

Chart

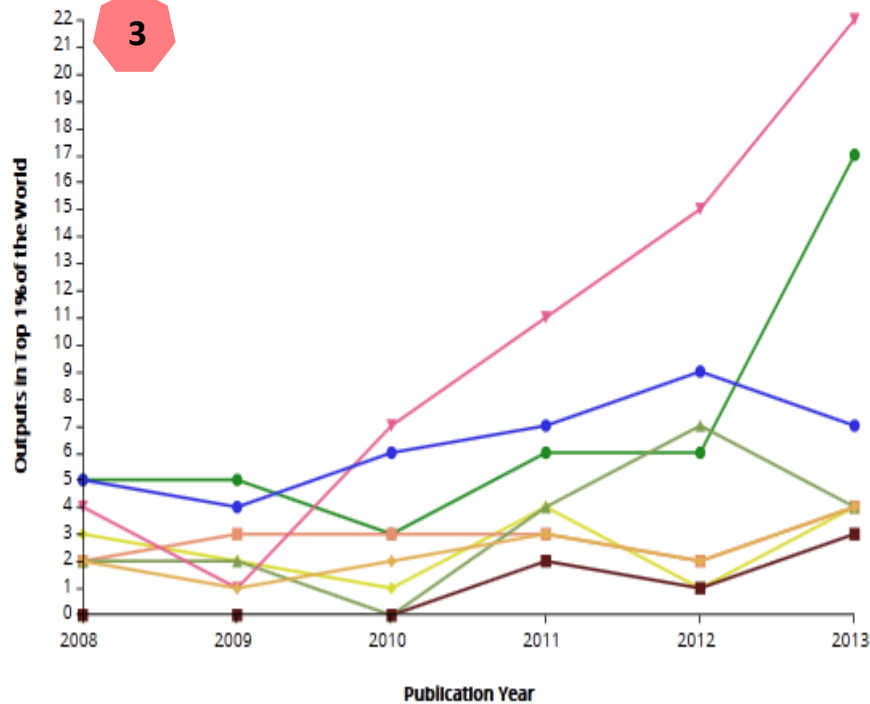
Table

y-axis

x-axis

Outputs in Top Percentiles

Publication Year



- Peking University
- Kyoto University
- University of Tokyo
- Seoul National University
- National University of Singapore
- Imperial College London
- University of Cambridge
- Harvard University

Metric 1

Metric 2

Outputs in Top Percentiles

Publication Year

Outputs in Top 1% of the World

| Name | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|----------------------------------|------|------|------|------|------|------|
| Harvard University | 0 | 0 | 0 | 2 | 1 | 3 |
| Imperial College London | 5 | 4 | 6 | 7 | 9 | 7 |
| Kyoto University | 3 | 2 | 1 | 4 | 1 | 4 |
| National University of Singapore | 4 | 1 | 7 | 11 | 15 | 22 |
| Peking University | 5 | 5 | 3 | 6 | 6 | 17 |
| Seoul National University | 2 | 2 | 0 | 4 | 7 | 4 |
| University of Cambridge | 2 | 1 | 2 | 3 | 2 | 4 |
| University of Tokyo | 2 | 3 | 3 | 3 | 2 | 4 |

Publications at Seoul National University that fall within the top 1% most cited publications worldwide (2013)

4 publications

Authors

All authors

| Count | Publication Title | Author |
|-------|---|-------------------|
| 2 | Modified SiO as a high performance anode for Li-Ion batteries | Hwa, Y. et al. |
| 2 | View abstract View in Scopus | |
| 1 | Synthesis of SnO2 nano hollow spheres and their size effects in lithium ion battery anode application | Kim, W.-S. et al. |
| 1 | View abstract View in Scopus | |
| 1 | Energy efficient growth control of microalgae using photobiological methods | Jeong, H. et al. |

Benchmark 예시
 1)기간선택: 2009-2013년
 2)주제: "Energy" 선택 (27개, 330개 중 선택)
 3)메트릭스 1: Top percentiles 1% 선택 (1%,5%,10%, 25%중 선택): 해당 분야 전세계 상위 1%에 포함되는 우리기관의 논문 건수
 4)테이블 형태로 논문 건수 확인
 5) 2013년 91편 클릭하여 해당 논문 확인

Collaboration Module



SciVal

Home Overview Benchmarking **Collaboration**

View collaboration by:

Institutions and Groups

- Seoul National University
- Ewha Womans University
- Gwangju Institute of Science and Technology
- Korea Advanced Institute of Science and Technology
- Yonsei University
- Pohang University of Science and Technology
- Ulsan National Institute of Science and Technology
- Hanyang University
- Sungkyunkwan University
- Korea University
- Massachusetts Institute of Technology
- California Institute of Technology
- University of Tokyo
- Harvard University
- Peking University
- National University of Singapore
- Kyoto University
- Imperial College London
- University of Cambridge
- [+ Add Institutions and Groups](#)

Researchers and Groups

Publication Sets and Groups

Countries and Groups

Research Areas and Groups

Collaboration by Seoul National University

Korea (Republic of) | Scopus affiliation ID: 60000656... [Show all](#)

Source: Scopus data up to 05 Dec 2013 | 2010 to 2012 | Energy

Current collaboration Potential collaboration

Map Table

| | |
|--|---------------------|
| 3 years | 2010 to 2012 |
| 3 years + current year | 2010 to 2013 |
| 3 years + current year + beyond current year | 2010 to >2013 |
| 5 years | 2008 to 2012 |
| 5 years + current year | 2008 to 2013 |
| 5 years + current year + beyond current year | 2008 to >2013 |

- no filter selected
- no filter selected
- ▶ Agricultural and Biological Sciences
- ▶ Arts and Humanities
- ▶ Biochemistry, Genetics and Molecular Biology
- ▶ Business, Management and Accounting
- ▶ Chemical Engineering
- ▶ Chemistry
- ▶ Computer Science
- ▶ Decision Sciences
- ▶ Dentistry
- ▶ Earth and Planetary Sciences
- ▶ Economics, Econometrics and Finance
- ▶ Energy
- ▶ Engineering
- ▶ Environmental Science
- ▶ Health Professions
- ▶ Immunology and Microbiology
- ▶ Materials Science
- ▶ Mathematics
- ▶ Medicine
- ▶ Multidisciplinary
- ▶ Neuroscience
- ▶ Nursing
- ▶ Pharmacology, Toxicology and Pharmaceutics
- ▶ Physics and Astronomy
- ▶ Psychology
- ▶ Social Sciences
- ▶ Veterinary

■ Collaboration:

- Current Collaboration: 현재의 연구협력 현황.
- Potential Collaboration: 앞으로의 연구협력 기회 분석
- 전세계 4,600개 기관의 협력현황 데이터 분석
- 3년, 4년, 5년, 6년간의 기간 선택하여 협력현황 분석
- 주제별로 선택하여 협력현황 분석



ELSEVIER

Collaboration - Current Collaboration



View collaboration by:

Institutions and Groups

- Seoul National University
- Ewha Womans University
- Gwangju Institute of Science and Technology
- Korea Advanced Institute of Science and Technology
- Yonsei University
- Pohang University of Science and Technology
- Ulsan National Institute of Science and Technology
- Hanyang University
- Sungkyunkwan University
- Korea University
- Massachusetts Institute of Technology
- California Institute of Technology
- University of Tokyo
- Harvard University
- Peking University
- National University of Singapore
- Kyoto University
- Imperial College London
- University of Cambridge
- [+ Add Institutions and Groups](#)

Researchers and Groups

Publication Sets and Groups

Collaboration by Seoul National University

Korea (Republic of) | Scopus affiliation ID: 60000656... Show all

Source: Scopus data up to 05 Dec 2013

2010 to 2013

Engineering

Current collaboration | Potential collaboration

Map | Table

Export

Worldwide | 731 collaborating institutions | 3,699 co-authored publications

- 1) 기관명 검색
- 2) 연도와 주제분야 선택
- 3) 현재의 연구협력현황 분석 (지도, 테이블 형태선택)
- 4) 지도상에서의 협력 건수 분석
- 5) 대륙별 숫자 클릭하여 상세한 협력현황 분석
- 6) 앞으로의 연구협력 기회 분석

Collaboration - Current Collaboration



Collaboration by Seoul National University

Korea (Republic of) Scopus affiliation ID: 81909192 Seoul National University
 Source: Scopus data up to 05 Dec 2013 2010 to 2013 Engineering

Institutions collaborating with Seoul National University

Top 100 collaborating Institutions, by number of publications co-authored with Seoul National University

Region: North America Country: All countries

| Institution | Co-authored publications | Co-authors at Seoul National University | Co-authors at the other Institution | Citations |
|--|--------------------------|---|-------------------------------------|-----------|
| Stanford University | 44 ▲ | 67 ▲ | 42 ▲ | 418 |
| University of Illinois at Urbana-Champaign | 32 ▼ | 65 ▼ | 54 ▼ | 246 |
| University of Southern California | 29 ▲ | 13 | 19 ▲ | 176 |
| Massachusetts Institute of Technology | 28 ▼ | 84 ▼ | 41 ▲ | 297 |
| Georgia Institute of Technology | 27 ▼ | 43 ▼ | 32 ▼ | 81 |
| Harvard University | 26 ▼ | 69 ▼ | 54 ▼ | 237 |
| University of Texas at Austin | 26 ▼ | 28 ▼ | 41 ▼ | 216 |
| University of Maryland | 25 ▲ | 12 ▲ | 27 ▲ | 78 |
| University of Michigan | 25 ▲ | 89 ▲ | 35 ▼ | 124 |
| University of California at Los Angeles | 19 ▲ | 46 ▼ | 20 ▲ | 43 |
| University of Wisconsin | 19 ▲ | 42 ▲ | 26 ▲ | 115 |
| The Ohio State University | 17 ▼ | 36 ▼ | 24 | 267 |
| Purdue University | 17 ▼ | 49 ▼ | 32 ▼ | 174 |
| University of California at Berkeley | 17 | 32 ▲ | 24 ▼ | 203 |
| University of Texas at Dallas | 16 ▲ | 37 ▲ | 19 ▲ | 123 |
| Lawrence Berkeley National Laboratory | 14 ▲ | 37 ▲ | 33 ▲ | 349 |
| University of Pennsylvania | 14 ▲ | 24 ▲ | 22 ▲ | 29 |

Data set: Institutions collaborating with Seoul National University
 Entity: Seoul National University
 Year range: 2010 to 2013
 Filtered by: Engineering
 Types of publication types: Self-citation included
 Date source: Scopus
 Date last updated: 5 December 2013
 Date exported: 13 January 2014
 Location: North America

| Institution | Country | Co-authored publications | Co-authored at Seoul National University | Co-authored at the other Institution | Citations | Citations per publication | Field-Weighted Citations |
|--|---------------|--------------------------|--|--------------------------------------|-----------|---------------------------|--------------------------|
| Stanford University | United States | 44 | 67 | 42 | 418 | 9.5 | 2.42 |
| University of Illinois at Urbana-Champaign | United States | 32 | 65 | 54 | 246 | 7.7 | 2.67 |
| University of Southern California | United States | 29 | 13 | 19 | 200 | 176 | 6.1 |
| Massachusetts Institute of Technology | United States | 28 | 84 | 41 | 297 | 10.6 | 2.95 |
| Georgia Institute of Technology | United States | 27 | 43 | 32 | 81 | 3 | 3.81 |
| Harvard University | United States | 26 | 69 | 54 | 237 | 9.1 | 1.99 |
| University of Texas at Austin | United States | 26 | 28 | 41 | 216 | 8.3 | 2.96 |
| University of Maryland | United States | 25 | 12 | 27 | 125 | 78 | 3.1 |
| University of Michigan | United States | 25 | 89 | 35 | 124 | 5 | 1.5 |
| University of California at Los Angeles | United States | 19 | 46 | 20 | 166.7 | 43 | 2.3 |
| University of Wisconsin | United States | 19 | 42 | 26 | 200 | 115 | 6.1 |
| The Ohio State University | United States | 17 | 36 | 24 | 0 | 267 | 15.7 |
| Purdue University | United States | 17 | 49 | 32 | -83.3 | 174 | 10.2 |
| University of California at Berkeley | United States | 17 | 32 | 24 | -75 | 203 | 11.9 |
| University of Texas at Dallas | United States | 16 | 37 | 19 | 700 | 123 | 7.7 |
| Lawrence Berkeley National Laboratory | United States | 14 | 37 | 33 | 100 | 349 | 24.9 |
| University of Pennsylvania | United States | 14 | 24 | 22 | 133.3 | 29 | 2.1 |
| University of Canada | Canada | 13 | 0 | 17 | 33.3 | 102 | 7.8 |
| Brown University | United States | 13 | 18 | 24 | 25 | 1.9 | 2.84 |
| Northwestern University | United States | 13 | 48 | -61.9 | 21 | -10 | 41 |
| University of Texas at Dallas | United States | 13 | 7 | 66.7 | 13 | 66.7 | 113 |
| University of Texas at Austin | United States | 13 | 300 | 36 | 72.7 | 12 | 500 |
| University of Canada | Canada | 12 | -100 | 25 | -100 | 14 | -100 |

현재의 연구 협력현황 분석
 1) 기간, 주제 선택
 2) 전세계, 아시아, 유럽 등 대륙과 국가 선택
 3) 기간, 주제, 국가에 따른 리스트 확인하고 해당 기관 클릭하여 협력과 관련된 상세 정보 확인
 4) 해당 데이터 엑셀로 다운로드

Current Collaboration - Detail information



Collaboration with Stanford University

Within: Engineering | Year range: 2010 to 2013

Overview Co-authors

Seoul National University

67 ▲ co-authors with Stanford University

Total output of this institution

| | |
|--------------------------------|---------|
| Publications | 6,087 ▲ |
| Authors | 6,362 ▲ |
| Citations | 17,929 |
| Citations per Publication | 2.9 |
| Field-Weighted Citation Impact | 1.44 |

2

44 ▲

co-authored publications

[View list of publications](#)

| | |
|--------------------------------|------|
| Citations | 418 |
| Citations per Publication | 9.5 |
| Field-Weighted Citation Impact | 2.42 |

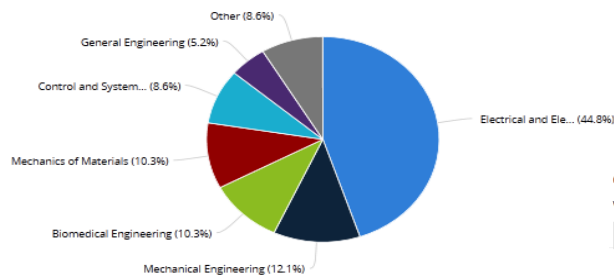
Stanford University

42 ▲ co-authors with Seoul National University

Total output of this institution

| | |
|--------------------------------|---------|
| Publications | 4,709 ▼ |
| Authors | 4,654 ▲ |
| Citations | 31,152 |
| Citations per Publication | 6.6 |
| Field-Weighted Citation Impact | 3.05 |

Co-authored publications by Journal Category



Collaboration with Stanford University

Within: Engineering | Year range: 2010 to 2013

Overview Co-authors

Seoul National University

Co-authors with Stanford University

| Author | Co-authored publications | Citations |
|---------------|--------------------------|-----------|
| ▶ Park, B.-G. | 12 | 16 |
| ▶ Hong, K.S. | 7 | 34 |
| ▶ Sun, M.-C. | 4 | 13 |
| ▶ Yim, D.K. | 3 | 25 |
| ▶ Kim, J.S. | 3 | 20 |
| ▶ Kim, D.H. | 3 | 6 |
| ▶ Kim, J. | 3 | 6 |
| ▶ Shin, H. | 3 | 6 |
| ▶ Kim, H.-J. | 3 | 2 |
| ▶ Koo, B.-K. | 2 | 18 |
| ▶ Song, H.J. | 2 | 17 |
| ▶ Roh, H.-S. | 2 | 12 |
| ▶ Shin, Y.G. | 2 | 11 |
| ▶ Lee, C.W. | 2 | 9 |
| ▶ Park, J.H. | 2 | 6 |

Stanford University

Co-authors with Seoul National University

| Author | Co-authored publications | Citations |
|------------------------|--------------------------|-----------|
| ▶ Cho, S. | 15 | 34 |
| ▶ Harris, J.S. | 9 | 26 |
| ▶ Cho, I.-S. | 7 | 34 |
| ▶ Park, B.-G. | 4 | 21 |
| ▶ Kamins, T.I. | 3 | 15 |
| ▶ Horowitz, M. | 3 | 6 |
| ▶ Gerdes, J.C. | 2 | 5 |
| ▶ Jungkunz, A.F. | 2 | 5 |
| ▶ Gabareen Mokhtar, A. | 1 | 182 |
| ▶ Baker, J.C. | 1 | 71 |
| ▶ Chiao, E. | 1 | 71 |
| ▶ Khatib, O. | 1 | 44 |
| ▶ Feinstein, J.A. | 1 | 11 |
| ▶ Honda, Y. | 1 | 7 |
| ▶ Otake, H. | 1 | 7 |

특정 기간과 우리학교와의 연구협력 현황 분석
 1)전체 협력현황 혹은 협력 저자 정보 중 선택
 2)우리기관, 협력기관의 해당 주제분야 논문, 인용 분석과 협력논문 및 그 인용에 대한 분석
 3)협력한 저자 리스트와 논문 편수

Collaboration - Potential Collaboration



Collaboration by Seoul National University

Korea (Republic of) | Scopus affiliation ID: 60000656 | Show all

Source: Scopus data up to 05 Dec 2013

2010 to 2013 | Energy

Current collaboration | **Potential collaboration**

Map | **Table** | Export

Top 100 Institutions not yet collaborating with Seoul National University, by number of publications

Region: North America | Country: **United States**

| Institution | Publications | Authors | Citations |
|---------------------------------------|--------------|---------|-----------|
| Texas A and M University | 1,458 | 1,355 | 2,979 |
| Pacific Northwest National Laboratory | 75 | 968 | 4,151 |
| Purdue University | 639 | 795 | 2,094 |
| North Carolina State University | 518 | 643 | 1,940 |

Publications at Texas A and M University (2010 to 2013)

| Authors | Title |
|---------------------|--|
| All authors | |
| Nasir, El-Gil, H.A. | The current status of hydrogen storage in metal-organic frameworks - Updated |
| Hassan, Y.A. | |
| Kesunovic, M. | Oxides of nitrogen emissions from biodiesel-fueled diesel engines |
| Singh, C. | |
| Mannan, M.S. | |

Institutions

| Institutions | Publications |
|--------------------------------|--------------|
| All institutions | |
| Texas A and M University | 1,458 |
| Los Alamos National Laboratory | 21 |
| University of Texas at Austin | 17 |
| China University of Petroleum | 16 |
| Idaho National Laboratory | 14 |

앞으로의 연구 협력기회 분석

- 1) 기간, 주제 선택
- 2) 전세계, 아시아, 유럽 등 대륙과 국가 선택하여 연구 협력하면 좋은 기관 선택.
- 3) 선택 주제분야에 대해 우리학교와 연구협력이 없는 기관 중 논문 발표가 많은 기관리스트
- 4) 해당 기관 클릭하여 상세 정보 확인, 논문, 논문을 많이 발표한 저자 등의 정보 확인
- 5) Overview module에 기관에 "Stanford" 검색하여 해당 기관의 상세정보 파악 및 협력 기회 분석

Texas A and M University

United States | Scopus affiliation ID: 60000514 | Show all

Source: Scopus data up to 05 Dec 2013 | 2010 to 2013 | Energy

Summary | Publications | Citations | Collaboration | Competencies

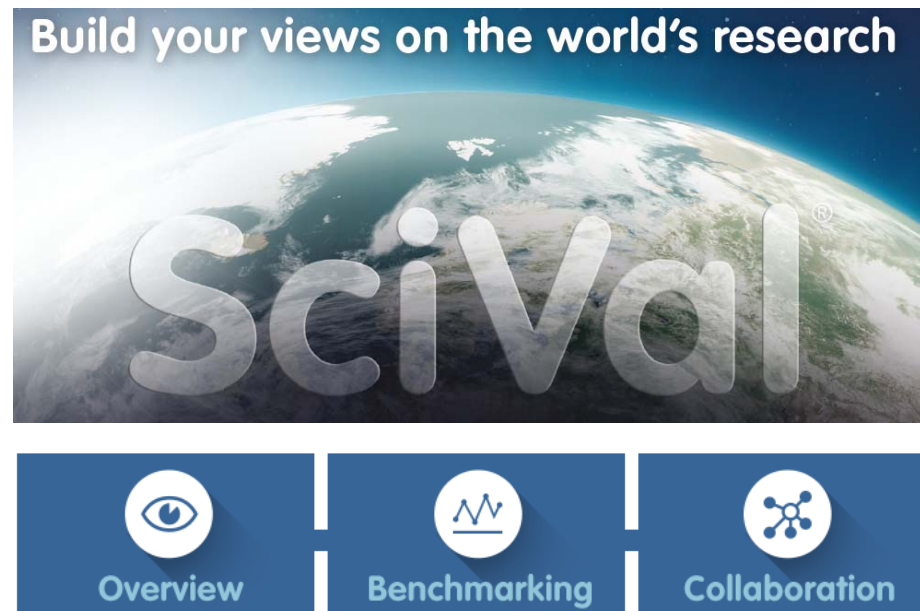
Overall research performance

| Publications | Authors | Citations | Citations per Publication |
|--------------|---------|-----------|---------------------------|
| 1,458 | 1,355 | 2,979 | 2.0 |

Performance by Journal Category

- SciVal - 개인차원
 - Research Areas
 - Researchers and Groups

SciVal을 통해 개인의 관심 분야 저장 후 실시간 분석, 본인의 연구성과 분석, 학과의 연구성과 분석을 위해 팀 구성할 수 있으며, 경쟁기관과의 업적 분석 실시간으로 가능



Build your views on the world's research

SciVal®

Overview Benchmarking Collaboration

My Research Area - 키워드



연구자의 관심분야에 대한 전세계 연구경향을 분석하여 제공

1 Add

2 Define a new Research Area

3 Refine definition

4 Save definition

5 Summary

My Research Area: 관심 있는 분야 키워드, 기관, 국가, 연구역량을 셋팅하면 해당 분야의 연구경향 데이터 분석하여 제공, 데이터의 양에 따라 24-48시간 소요될 수 있음. 이용자의 이메일로 알림 서비스 전송

- 1) Research Area에서 "Add" 클릭
- 2) 관심 키워드 입력하여 검색
- 3) 검색결과 확인 후, 저널, 주제 등 제한가능하며, 다음 단계로 이동
- 4) 저장된 결과 확인
- 5) 저장한 키워드의 연구경향 분석 결과 확인

My Research Area - 주제분야



1 Use Entities에서 "Journal Categories" 선택

2 Scopus의 주제분야, 27개, 330개 중 관심 분야 주제를 선택하여 오른쪽으로 이동

3 선택된 주제의 검색 결과로 검색값을 검토 및 삭제

4 주제분야 셋팅 마무리

5 My SciVal에서 키워드, 주제 등 개인별로 저장된 정보 확인

My Research Area: 3단계 절차에 따라 관심 주제분야 선택 및 셋팅하면 해당 주제 분야의 연구경향 데이터 분석하여 제공, 데이터의 양에 따라 24-48시간 소요될 수 있음. 이용자의 이메일로 알림 서비스 전송

1 Create definition

2 Refine definition

3 Save definition

4 Save your Research Area as: Basic Science- Life Science

5 My SciVal

| Name | Last updated | Actions |
|-------------------------------------|------------------|----------------------|
| Basic Science- Life Science | 13 January 2014 | Delete Shortcuts ▼ |
| My Research Area - 10 January 2014 | 10 January 2014 | Delete Shortcuts ▼ |
| My Research Area - 14 November 2013 | 26 November 2013 | Delete Shortcuts ▼ |
| My Research Area_5November2013 | 15 November 2013 | Delete Shortcuts ▼ |

Researchers and Groups



SciVal

Home

Overview

Benchmarking

Define a new Researcher

Combine author name variants into a single researcher

STEP 1: Search STEP 2: Select STEP 3: Save

Author

Last name: Initials or First name:
E.g., Smith E.g., J.L.

Institution:
E.g., Ohio State University

Define a new Researcher

Combine author name variants into a single researcher

STEP 1: Search STEP 2: Select STEP 3: Save

You searched for: Authorname (surh, yj) and Institution (Seoul National University)

| | Authors | Documents | Subject area |
|---|---|-----------|---|
| 1 | <input checked="" type="checkbox"/> Surh, Young Joon <small>Surh, Young J.</small> | 230 | Medicine, Health Professions, Biochemistry, Ge Chemistry, Environmental Science, Arts and Hu |
| 2 | <input checked="" type="checkbox"/> Surh, Young Joon <small>Surh, Y. J.</small> | 57 | Agricultural and Biological Sciences, Pharmacol Arts and Humanities, Nursing |
| 3 | <input type="checkbox"/> Surh, Young Jun <small>Surh, Young J.</small> | 1 | Biochemistry, Genetics and Molecular Biology, . |

View metrics for:

- Institutions and Groups
- Researchers and Groups
- Publication Sets and Groups
- Countries and Groups
- Research Areas and Groups

Hwang, Inhwan

Search by name

Define a new Researcher

Combine author name variants into a single researcher

STEP 1: Search STEP 2: Select STEP 3: Review STEP 4: Save

save your researcher as:

Define a new Researcher

Combine author name variants into a single researcher

STEP 1: Search STEP 2: Select STEP 3: Review STEP 4: Save

Review list of publications associated with this Researcher

287 (of which 263 are from 1996 or later) publications associated with your selected author name variants.

| Publication Title | Author(s) | Date | Source Title |
|--|---|------|--|
| <input checked="" type="checkbox"/> Oncogenic potential of Nrf2 and its principal target protein heme oxygenase-1 | Na, H.-K., Surh, Y.-J. | 2014 | Free Radical Biology and Medicine 67, pp. 353 |
| <input checked="" type="checkbox"/> Esculetin suppresses proliferation of human colon cancer cells by directly targeting β -catenin | Lee, S.-Y., Lim, T.-G., Chen, H., Jung, S.K., Lee, H.-J., Lee, M.-H., Kim, D.J., Shin, A., (...), Dong, Z. | 2013 | Cancer Prevention Research 6 (12), pp. 1356 |
| <input checked="" type="checkbox"/> Tumor suppressor p16INK4a inhibits cancer cell growth by downregulating eEF1A2 through a direct interaction | Lee, M.-H., Choi, B.Y., Cho, Y.-Y., Lee, S.-Y., Huang, Z., Kundu, J.K., Kim, M.O., Kim, D.J., (...), Dong, Z. | 2013 | Journal of Cell Science 126 (16), pp. 3796 |
| <input checked="" type="checkbox"/> Thymoquinone inhibits phorbol ester-induced activation of NF- κ B and expression of COX-2, and induces expression of cytoprotective enzymes in mouse skin in vivo | Kundu, J.K., Liu, L., Shin, J.-W., Surh, Y.-J. | 2013 | Biochemical and Biophysical Research Communications 438 (4), pp. 721 |

Researchers and Groups: 연구자 검색 및 연구자별 그룹핑(학과별 그룹핑)으로 벤치마킹 모듈에서 진행

- 1) Define 선택하여 연구자 검색,
- 2) 연구자 성, 이름의 이니셜과 기관명으로 검색
- 3) 검색결과 중 프로파일이 1개 이상일때 하나로 병합
- 4) 병합된 리스트 확인 과정에서, 논문 삭제 추가한 후
- 5) 프로파일 저장

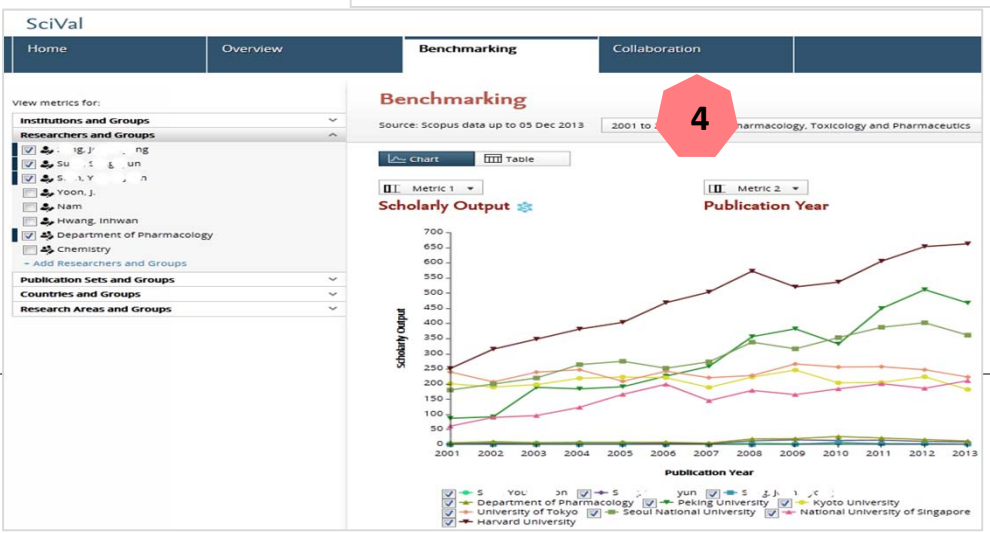
Researchers 그룹핑 (학과별 그룹핑) 및 성과 분석



SciVal

Researchers 그룹핑: 특정 학과 연구원을 그룹핑하기

- 1) Define new group of researcher 선택
- 2) 특정 그룹에 포함되어야 하는 연구자 선택 하여 그룹핑
- 3) 그룹에 대한 이름 입력 - 학과 이름으로 입력
- 4) Benchmarking에서 기간, 주제 선택한 후, 선택한 학교, 선택한 연구자, 학과의 연구성과 비교 분석. 연구업적 비교 분석 시 기관 분석과 마찬가지로 15개 지표로 분석 가능하며 연구팀 멤버를 무제한으로 추가할 수 있음





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