

h index

h index 는 2005년 J. E. Hirsch 가 그의 논문 “An Index to Quantify an Individual’s Scientific Research Output”에 발표한 연구자 업적 평가 지수이다.(Hirsch, 2005) 이 논문은 발표되자마자 엄청난 반향을 불러 일으켰으며 이후 Web of Science 에서도 새로운 citation report feature 로 채택됨으로써 연구 성과 측정을 위한 보편적인 지표로 받아들여지게 되었다.(Harzing, 2008)

그는 h index 를 “A scientist has index h if h of his or her N_p papers have at least h citations each and the other $(N_p - h)$ papers have $\leq h$ citations each.” 라고 정의했다. 알기 쉽게 설명하자면, 어떤 연구자가 그의 논문을 피인용 횟수가 높은 순서대로 정렬했을 때 h 번째 논문의 피인용 횟수가 h 이거나 그보다 크면 그 연구자의 h index 는 h 가 된다.

h index 가 목표하는 바는 연구자의 연구 결과물의 피인용 횟수를 이용하여 누적 영향력을 측정하려는 것이다. 이전까지 연구자의 업적 평가 기준으로서 총 발표 논문 수, 총 피인용 횟수, 문헌 당 피인용 횟수 등 여러 숫자들이 제시되어 왔으나 h index 의 경우 양적, 질적인 측면을 모두 고려함으로써 보다 강력한 것이 되었다. 연구자는 지속적으로 상당수의 논문을 출판하고 또 그 중 다수가 다른 연구에 많이 인용되어야만 높은 h index 를 가질 수 있다.

물론 h index 는 완벽한 지표가 아니며 여러 약점들을 가지고 있다. Hirsch 역시 한 가지 수치로는 개별 연구자의 다면적 프로필을 대략적으로밖에 추정할 수 없으며, 개인의 평가에 있어서는 다른 많은 요소들이 고려되어야 한다고 경고하고 있다. 그러나 h index 는 그 직관적인 명쾌함으로 많은 사람들의 공감과 인정을 받는 지표가 되었다. 구하는 방법은 아래의 설명을 참조한다.

h index 산출방법

1. **Author 에 영문 성과 이름 미니셜을 입력한다.** (화면: Hong Gil Dong 의 경우 Hong GD 입력, 단 Hong Gildong 으로 출판된 논문이 있을 경우 Hong G* 로 검색해야 모두 검색됨) 아래의 **Timespan** 에서 **자신이 SCI급 논문을 처음 발표한 해 이후로 검색을 제한할 수** 있다. 서울대학교를 검색 조건에 추가하고 싶을 경우 **Address 에 Seoul Natl Univ** 를 입력한다.

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Search for: Example: oil spill* mediterranean in Topic

AND Hong GD in Author

AND Example: Cancer* OR Journal of Cancer Research and Clinical Oncology in Publication Name

Search Clear Searches must be in English

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Timespan: All Years (updated 2011-03-06) From 2000 to 2011 (default is all years)

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2. 검색 결과가 나타나면 상단의 **View Distinct author Sets** 링크 클릭

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Results Author=(Hong GD) Timespan=2000-2011 Databases=SCI-EXPANDED, SSCI, A&HCI

View Distinct Author Sets for Hong GD The Distinct Author Set feature is a discovery tool showing sets of papers likely written by the same person. (Tell me more.)

Results: 24 Page 1 of 3 Go Sort by: Latest Date

Print E-mail Add to Marked List Save to EndNote Web Save to EndNote, RefMan, ProCite more options Analyze Results Create Citation Report

1. Title: MEMS-Based Nanospray-Ionization Mass Spectrometer Author(s): Wright S, Syms RRA, Moseley R, et al. Source: JOURNAL OF MICROELECTROMECHANICAL SYSTEMS Volume: 19 Issue: 6 Pages: 1430-1443 Published: DEC 2010 Times Cited: 0 Find It @ SNU Full Text

3. 성(Hong)과 이름 미니셜(GD)이 동일한 저자를 그룹 리스트, 투고저널이나 활동 시기, 주제분야를 살펴보기거나 # of Records 링크를 클릭하여 나타나는 논문 리스트를 확인하여 본인의 set 을 선택(Select 열의 체크박스에 체크) 후 **View Records** 클릭

Distinct Author Sets: Hong GD

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3 Author Sets for Hong GD Page 1 of 1 Go

Select one or more sets and click "View Records".

Select	Set	Author Names	# of Records	Source Titles (top 5 by record count)	Publication Years	Subject Areas (top 5 by record count)
<input checked="" type="checkbox"/>	1.	Hong, GD	14	- INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS (14)	2004 - 2010	- Multidisciplinary Science & Technology (14)
<input type="checkbox"/>	2.	Hong, GD Hong, G	7	- JOURNAL OF MICROELECTROMECHANICAL SYSTEMS (2) - 6TH ELECTRONICS PACKAGING TECHNOLOGY CONFERENCE, PROCEEDINGS (EPTC 2004) (1) - DTP 2003: DESIGN, TEST, INTEGRATION AND PACKAGING OF MEMS/DMOS 2003 (1) - JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY (1) - MEMS 2006: 19th IEEE International Conference on Micro Electro Mechanical Systems, Technical Digest (1)	2003 - 2010	- Multidisciplinary Science & Technology (7) - Physical Sciences (3)
<input type="checkbox"/>	3.	Hong, GD	2	- JOURNAL OF MATERIALS PROCESSING TECHNOLOGY (1) - JOURNAL OF MICROMECHANICS AND MICROENGINEERING (1)	2001 - 2002	- Multidisciplinary Science & Technology (2)

4. 만일 본인의 논문이 다른 저자의 세트에 섞여 있을 경우 모두 선택 후 **View Records** 클릭

Distinct Author Sets: Hong GD

The Distinct Author Set feature is a discovery tool showing sets of papers likely written by the same person. Citation data is analyzed to create these sets. This feature should be used as a tool to focus your search rather than as a definitive list of a specific author's works. (Tell me more.)

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<input checked="" type="checkbox"/>	2.	Hong, GD Hong, G	7	- JOURNAL OF MICROELECTROMECHANICAL SYSTEMS (2) - 6TH ELECTRONICS PACKAGING TECHNOLOGY CONFERENCE, PROCEEDINGS (EPTC 2004) (1) - DTP 2003: DESIGN, TEST, INTEGRATION AND PACKAGING OF MEMS/DMOS 2003 (1) - JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY (1) - MEMS 2006: 19th IEEE International Conference on Micro Electro Mechanical Systems, Technical Digest (1)	2003 - 2010	- Multidisciplinary Science & Technology (7) - Physical Sciences (3)
<input type="checkbox"/>	3.	Hong, GD	2	- JOURNAL OF MATERIALS PROCESSING TECHNOLOGY (1) - JOURNAL OF MICROMECHANICS AND MICROENGINEERING (1)	2001 - 2002	- Multidisciplinary Science & Technology (2)

5. 나타난 리스트 우측 상단의 **Create Citation Report** 클릭

Distinct Author Set: Hong GD Timespan=All Years Databases=SCI-EXPANDED, A&HCI, SSCI

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Shown below are papers by Hong GD Perform a search for this author name

Results: (only 187) 18 Page 1 of 2 Go Sort by: Latest Date

Print E-mail Add to Marked List Save to EndNote Web Save to EndNote, RefMan, ProCite more options Create Citation Report

1. Title: Microfabricated Quadrupole Mass Spectrometer With a Brubaker Prefilter Author(s): Wright S, O'Prey S, Syms RRA, et al. Source: JOURNAL OF MICROELECTROMECHANICAL SYSTEMS Volume: 19 Issue: 2 Pages: 325-337 Published: APR 2010 Times Cited: 1 Find It @ SNU Full Text

2. Title: Manuscript Template for the International Journal of Control, Automation, and Systems: ICROS & KIEE Author(s): Hong GD, Smith A, Mizumoto I Source: INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS Volume: 8 Issue: 2 Published: APR 2010 Times Cited: 0 Find It @ SNU Full Text

6. 리스트에 본인의 논문이 아닌 것이 있으면 체크 후 상단의 **Go** 클릭

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1. Title: Axial-flux permanent magnet machines for micropower generation Author(s): Holmes AS, Hong GD, Pullen KR Source: JOURNAL OF MICROELECTROMECHANICAL SYSTEMS Volume: 14 Issue: 1 Pages: 54-62 Published: FEB 2005	5	9	5	5	1	28	4.00
2. Title: SUS resist plasma etching and its optimisation Author(s): Hong G, Holmes AS, Heaton ME Source: MICROSYSTEM TECHNOLOGIES-MICRO-AND NANO SYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS Volume: 10 Issue: 5 Pages: 357-359 Published: AUG 2004	3	4	4	1	1	16	2.00
3. Title: Comparison of Ion Coupling Strategies for a Microengineered Quadrupole Mass Filter Author(s): Wright S, Syms RRA, O'Prey S, et al. Source: JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY Volume: 20 Issue: 1 Pages: 146-156 Published: JAN 2009	0	0	1	7	0	8	2.67
4. Title: Manuscript template for the International Journal of Control, Automation, and Systems: ICASE & KIEE Author(s): Hong GD, Smith A, Mizumoto I Source: INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS Volume: 4 Issue: 5 Pages: 1-2 Published: OCT 2006	0	1	1	1	0	3	0.50
5. Title: Microfabricated Quadrupole Mass Spectrometer With a Brubaker Prefilter Author(s): Wright S, O'Prey S, Syms RRA, et al. Source: JOURNAL OF MICROELECTROMECHANICAL SYSTEMS Volume: 19 Issue: 2 Pages: 325-337 Published: APR 2010	0	0	0	1	0	1	0.50
6. Title: Manuscript Template for the International Journal of Control, Automation, and Systems: ICROS & KIEE Author(s): Hong GD, Smith A, Mizumoto I Source: INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS Volume: 8 Issue: 2 Published: APR 2010	0	0	0	0	0	0	0.00
7. Title: Manuscript Template for the International Journal of Control, Automation, and Systems: ICROS & KIEE Author(s): Hong GD, Smith A, Mizumoto I Source: INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS Volume: 7 Issue: 6 Published: DEC 2009	0	0	0	0	0	0	0.00
8. Title: Manuscript Template for the International Journal of Control, Automation, and Systems: ICROS & KIEE Author(s): Hong GD, Smith A, Mizumoto I Source: INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS Volume: 7 Issue: 5 Published: OCT 2009	0	0	0	0	0	0	0.00
9. Title: Manuscript Template for the International Journal of Control, Automation, and Systems: ICROS & KIEE Author(s): Hong GD, Smith A, Mizumoto I Source: INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS Volume: 7 Issue: 4 Published: AUG 2009	0	0	0	0	0	0	0.00
10. Title: Manuscript Template for the International Journal of Control, Automation, and Systems: ICROS & KIEE Author(s): Hong GD, Smith A, Mizumoto I Source: INTERNATIONAL JOURNAL OF CONTROL AUTOMATION AND SYSTEMS Volume: 7 Issue: 1 Published: FEB 2009	0	0	0	0	0	0	0.00

7. Citation Report 우측 상단에서 **h-index** 확인

Citation Report Distinct Author Set: Hong GD Timespan=1900-2011 Databases=SCI-EXPANDED, A&HCI, SSCI

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3. Title: Microfabricated Quadrupole Mass Spectrometer With a Brubaker Prefilter Author(s): Wright S, O'Prey S, Syms RRA, et al. Source: JOURNAL OF MICROELECTROMECHANICAL SYSTEMS Volume: 19 Issue: 2 Pages: 325-337 Published: APR 2010	0	0	0	1	0	1	0.50