

## ***Essential Science Indicators***

科学文献を複合的に分析するための理想的な情報資源

<http://scientific.thomson.com/products/es/>

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### ***科学文献を複合的に分析するための理想的な情報資源***

Essential Science Indicators は、科学文献を複合的に分析するための理想的な情報資源です。必要な情報を必要な形で得ることができます。

- ? 企業や機関、国、雑誌などの研究業績の分析
- ? 自然科学、社会科学分野の顕著な研究動向の発見
- ? 分野ごとの国、雑誌、研究者、論文、機関のランキング
- ? 特定分野での研究成果と影響度の判定
- ? 潜在的な採用予定者、共同研究者、査読者の評価

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## Essential Science Indicators

? Citation Rankings: (引用ランキング :4種類)

各研究分野別の過去10年間に最も引用された論文に関する合計被引用回数と、一論文あたりの平均被引用回数です。

? 上位 1% 著者と所属機関

? 上位 50% 学術雑誌と国または地域

? Highly Cited Papers: 22の各科学分野において、過去10年間に最も引用された論文

? Hot Papers: 最近2ヶ月間で最も引用されている論文

? Baselines: (ベースライン) - 広範囲の論文にわたる累積引用度の基準で、各分野における論文の期待予想引用率

? Research Fronts: (リサーチフロント) - クラスタ分析で定義されるより細分化された専門トピックを題材とするもので、コア論文として共通して引用される回数の多い論文のまとめ

? Editorial commentary: 著者のインタビューや、各種引用分析の記事やエッセイなど


## 10年間の22分野のWeb of Science® を分析

- Agricultural Science
- Biology & Biochemistry
- Chemistry
- Clinical Medicine
- Computer Science
- Economics & Business
- Engineering
- Environment/ Ecology
- Geosciences
- Immunology
- Materials Science
- Mathematics
- Microbiology
- Molecular Biology & Genetics
- *Multidisciplinary* \*
- Neuroscience & Behavior
- Pharmacology
- Physics
- Plant & Animal Science
- Psychiatry/Psychology
- Social Sciences--general
- Space Science

\* Approximately 98% of articles published in *Nature*, *Science* and the *Proceedings of the National Academy of Sciences*, are reallocated into one of the other 21 disciplines based on their citation information.

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<b>Citation Rankings:</b>	- <a href="#">Scientists</a> - <a href="#">Institutions</a> - <a href="#">Countries/Territories</a> - <a href="#">Journals</a>
<b>Most Cited Papers:</b>	- <a href="#">Highly Cited Papers (last 10 years)</a> - <a href="#">Hot Papers (last 2 years)</a>
<b>Citation Analysis:</b>	- <a href="#">Baselines</a> - <a href="#">Research Fronts</a>

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引用ランキング

Commentary:

- IN-CITES
- SPECIAL TOPICS
- SCIENCE WATCH

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**BY FIELD** Select a scientist from this field:

**OR**

**BY NAME** Select a scientist from the alphabet

0-9 **A B C D E**

Example: WEINBERG RA [\(more\)](#)

SCIENTISTS MENU

- (All Fields)
- (All Fields)
- Agricultural Sciences
- Biology & Biochemistry
- Chemistry
- Clinical Medicine
- Computer Science
- Economics & Business
- Engineering
- Environment/Ecology
- Geosciences
- Immunology
- Materials Science
- Mathematics
- Microbiology
- Molecular Biology & Genetics
- Multidisciplinary
- Neuroscience & Behavior
- Pharmacology & Toxicology
- Physics
- Plant & Animal Science
- Psychiatry/Psychology
- Social Sciences, general
- Space Science

P Q R S T U V W X Y Z

画面上のプルダウンで22分野の引用ランキングを参照

あるいは、画面下の入力欄に、著者名を入れるとランクされている著者を検索

- Enter WEINBERG to search for citation data for WEINBERG and whose only initials are RA.
- Enter WEINBERG RA to search for citation data for WEINBERG, whose first initial is R, and who may have other subsequent initials (the asterisk stands for any character).
- If an author's last name includes spaces (e.g., Van HORN), enter the name without the space(s). For example, enter VANHORN \* for Van Horn, DELOSRIOS \* for Delosrios, etc.
- If an author's last name includes a nonalphanumeric character, enter the name without the character. For example, enter O'DONNELL for O'Donnell.

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HOME HELP ABOUT RETURN TO MENU IN-CITIES

### SCIENTIST RANKINGS IN MATHEMATICS

Display items with at least:  Citation(s)

Sorted by: Citations Papers Citations per Paper Scientist

1 - 20 (of 881) Page 1 of 45

	View	Scientist	Papers	Citations	Citations Per Paper	
1		RAFTERY, AE		31	1,333	43.00
2		DONOHO, DL				
3		JOHNSTONE, IM				
4		KASS, RE				
5		HALL, P				
6		RUBIN, DB				
7		BENJAMIN, Y				
8		GREEN, PJ	16	832	52.00	
9		FAN, JQ	46	778	16.91	
10		HOCHBERG, Y	8	778	97.25	

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引用ランキングで特定の分野を選択した後、その中での総引用回数、総論文数、平均被引用回数、アルファベット順に並び替えできます。

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### SCIENTIST RANKINGS IN MATHEMATICS

Display items with at least:  Papers

Sorted by: Citations per Paper

1 - 20 (of 840) Page 1 of 42

	View	Scientist	Papers	Citations	Citations Per Paper
1		BENJAMIN, Y	9	877	97.44
2		HOCHBERG, Y	8	778	97.25
3		KASS, RE	12	1,078	89.83
4		VANDENBERGHE, L			
5		TIERNEY, L			
6		CHIB, S			
7		JOHNSTONE, IM			
8		IMBENS, GW	5	378	75.60
9		BOYD, S	8	532	66.50
10		DONOHO, DL	19	1,170	61.58

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各、著者の論文数、被引用回数、平均被引用回数

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TOP PAPERS FOR BENJAMINI, Y IN MATHEMATICS

Sorted by: Citations SORT AGAIN

1 - 3 (of 3) Page 1 of 1

1 Citations: 707

Title: CONTROLLING THE FALSE DISCOVERY RATE - A PRACTICAL AND POWERFUL APPROACH TO MULTIPLE TESTING

Authors: BENJAMINI, Y; HOCHBERG, Y

Source: J ROY STATIST SOC SER B METHO 57 (1): 289-300 1995

Addresses: TEL AVIV UNIV, SACKLER FAC EXACT SCI, SCH MATH SCI, DEPT STAT, IL-69978 TEL AVIV, ISRAEL.

Field: MATHEMATICS

2 Citations: 76

Title: THE CONTROL OF THE FALSE DISCOVERY RATE IN MULTIPLE TESTING UNDER DEPENDENCY

Authors: BENJAMINI, Y; YEKUTIELI, D

Source: ANN STATIST 29 (4): 1165-1188 AUG 2001

Addresses: Tel Aviv Univ, Dept Stat & Operat Res, Sch Math Sci, IL-69978 Tel Aviv, Israel.

Field: MATHEMATICS

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論文のアイコンをクリックすると、highly cited もしくは、hot papers の書誌事項を表示

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SCIENTIST RANKING

Display items with at least: 10

Sorted by: Citations

1 - 20 (of 840) Page 1 of 42

1 Citations: 877 Citations Per Paper: 97.44

2 Citations: 778 Citations Per Paper: 97.25

3 Citations: 1,078 Citations Per Paper: 89.83

4 Citations: 536 Citations Per Paper: 89.33

5 Citations: 686 Citations Per Paper: 85.75

MOST CITED SCIENTISTS IN MATHEMATICS

Scientist: BENJAMINI, Y

Number of Papers (in 5-year Intervals)

Number of Citations (in 5-year Intervals)

Citation Data (in 5-year Intervals): Back to graph view

5-year Intervals:	1995-1999	1996-2000	1997-2001	1998-2002	1999-2003	2000-2004	2001-2005
# of Papers	8	7	4	4	3	1	1
Times Cited	47	17	8	29	54	60	104
Citations per Paper	5.87	2.42	2.00	7.25	18.00	60.00	90.49

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グラフのアイコンをクリックすると、年度別の統計推移を確認

View data in tabular format

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ランキングはその他、所属機関別、国もしくは地域別でもできます。

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INSTITUTIONS

Display items with at least: 0 Citation(s)

Sorted by: Citations

View	Journal	Papers	Citations	Citations Per Paper
1	J AMER STATIST ASSN	1,247	16,202	12.99
2	J MATH ANAL APPL	5,322	12,284	2.31
3	BIOMETRICS	1,499	11,080	7.39
4	J ALGEBRA	4,263	9,863	2.31
5	ANN STATIST	992	9,616	9.69
6	PROC AMER MATH SOC	5,046	8,849	1.75
7	C R ACAD SCI SER I MATH	3,371	7,921	2.35
8	J DIFFERENTIAL EQUATIONS	1,775	7,576	4.27
9	TRANS AMER MATH SOC	2,416	7,525	3.11
10	J FUNCT ANAL	1,702	7,487	4.40
11	SIAM J NUMER ANAL	1,114	7,485	6.72

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Most Cited Papers:	- <a href="#">Highly Cited Papers (last 10 years)</a> - <a href="#">Hot Papers (last 2 years)</a>
Citation Analysis:	- <a href="#">Baselines</a> - <a href="#">Research Fronts</a>

**Highly Cited Papers**  
22の各科学分野において過去10年間に最も引用された論文

**Hot Papers**  
最近2ヶ月間で最も引用されている論文

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HOME HELP IN-CITES

### HIGHLY CITED PAPERS MENU

BY FIELD Display papers from this field: (All Fields) GO

OR (All Fields)

BY NAME Show alphabetic list of: Scientist Institution Country/Territory Journal

OR

BY SEARCHING Enter terms or phrases separated by spaces. Search fields are automatically selected.

Title word: nanotube

Scientist:

Institution:

Country/Territory:

Journal:

SEARCH

Environment/Ecology  
Geosciences  
Immunology  
Materials Science  
Mathematics  
Microbiology  
Molecular Biology & Genetics  
Multidisciplinary  
Neuroscience & Behavioral Science  
Pharmacology & Toxicology  
Physics  
Plant & Animal Science  
Psychiatry/Psychology  
Social Sciences, general  
Space Science

Highly Cited Papers  
分野別もしくは、22分野全体で比較できます。

あるいは、  
著者別、所属機関別、国もしくは地域別、ジャーナル別で表示

あるいは、  
タイトル、所属機関名などを  
入力し、独自のリストを作成

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### HIGHLY CITED PAPERS FOR (NANOTUBE)

Sorted by: Citations SORT AGAIN

1 - 20 (of 216) Page 1 of 11

1 Citations: 1,085

Title: ROOM-TEMPERATURE TRANSISTOR BASED CARBON NANOTUBE FIELD-EMISSION ELECTRON SOURCE

Authors: TANS S.J., VERSCHUEREN ARM, DEKKER C.

Source: NATURE 393 (6680): 49-52 MAY 7 1998

Addresses: Delft Univ Technol, Dept Appl Phys, Lorentzweg 1, NL-2628 C

Field: PHYSICS

Number of Citations (by year):

Year	Number of Citations
1993	0
1994	0
1995	0
1996	0
1997	0
1998	0
1999	0
2000	0
2001	0
2002	100
2003	100

How to read this graph: View table of graph data

各、ハイパーリンクは、それぞれの項目でリンクしなおします。

年度別、被引用回数を分析します。

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WELCOME HELP GENERAL SEARCHER CITED REF SEARCHER STRUCTURE SEARCHER SEARCH HISTORY ADVANCED SEARCHER

Full Record

Record 1 of 1 (Set #1)

Title: Room-temperature transistor based on a single carbon nanotube

Author(s): Tans, S.J., Verschueren, A.M., Dekker, C.

Source: NATURE 393 (6680): 49-52 MAY 7 1998

Document Type: Article

Language: English

Cited References: 20 Times Cited: 1185 FIND RELATED RECORDS

Abstract: The use of individual molecules as functional electronic devices was first proposed in the 1970s (ref. 1). Since then, molecular electronics(2,3) has attracted much interest, particularly because it could lead to conceptually new miniaturization strategies in the electronics and computer industry. The realization of single molecule devices has remained challenging, largely owing to difficulties in achieving electrical contact to individual molecules. Recent advances in nanotechnology, however, have resulted in electrical measurements on single molecules(4-7). Here we report the fabrication of a field-effect transistor—a three-terminal switching device that consists of one semiconducting(8-10) single-wall carbon nanotube(11,12) connected to two metal electrodes. By applying a voltage to a gate electrode, the nanotube can be switched from a conducting to an insulating state. We have reported(5) similar behaviour for a metallic single-wall carbon nanotube operated at extreme temperatures. The present device, in contrast, operates at room temperature, thereby meeting an important requirement for potential practical applications. Electrical measurements on the transistor indicate that its operation characteristics can be qualitatively described by the band-bending models currently used for traditional semiconductor devices. The fabrication of a terminal switching device at the level of a single molecule represents an important step toward molecular electronics.

KeyWords Plus: TUBULES; GROWTH

Addresses: Dekker, C. (reprint author), Delft Univ Technol, Dept Appl Phys, Lorentzweg 1, 2628 CJ Netherlands  
Delft Univ Technol, Dept Appl Phys, Delft, NL-2628 CJ Netherlands

MARK (0 articles marked)  
(Save, Export, E-mail, Order, Print)

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Receive e-mail alerts on future citations to this record. (Requires registration.)

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LINKS  
Holdings GO

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WEB OF SCIENCE®

NANOTUBE

erlands.

Web of Science にリンクし、書誌事項の詳細を確認したり、現時点での引用回数を確認できます。あるいは電子ジャーナルへのリンクも可能(契約による)。Citation Alertを設定すれば、その後引用した論文がメールで送信されてきます。

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Citation Analysis:	- Baselines - Research Fronts

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広範囲の論文にわたる累積引用度の基準で、各分野における論文の期待予想引用率

BASELINES MENU

BY AVERAGES:	<a href="#">View the average citation rates table.</a>
OR	
BY PERCENTILES:	<a href="#">View the percentiles table.</a>
OR	
BY FIELD RANKINGS:	<a href="#">View field rankings table.</a>

過去10年間の各年の平均被引用率が計算されます。平均値は、各論文の被引用回数を足した値をその論文数で割って計算します。

Average Citation Rates  
for papers published by field, 1995 - 2005  
(How to read this data)

Fields	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	All Years
All Fields	15.08	13.85	13.19	11.99	10.70	9.16	7.27	5.14	2.82	0.83	0.09	8.38
Agricultural Sciences	7.97	7.70	7.13	6.82	6.15	5.42	4.12	2.78	1.57	0.40	0.06	4.63
Biology & Biochemistry	25.66	23.54	23.23	20.54	18.44	16.52	15.46	14.11	11.61	11.00	10.70	11.61
Chemistry	13.02	12.33	11.61	11.00	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70
Clinical Medicine	18.44	16.52	15.46	14.11	11.61	11.00	10.70	10.70	10.70	10.70	10.70	10.70
Computer Science	4.77	4.63	4.37	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
Economics & Business	8.68	6.99	6.66	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.57

ある研究分野で1人の科学者の論文ごとの被引用回数を、同分野の平均被引用率と比較できます。(例: 化学分野の1998年の論文は平均11回引用)

BASELINES MENU

BY AVERAGES:	<a href="#">View the average citation rates table.</a>
OR	
BY PERCENTILES:	<a href="#">View the percentiles table.</a>
OR	
BY FIELD RANKINGS:	<a href="#">View field rankings table.</a>

分野別と年別のリストは、0.01%、0.1%、1.0%、10%の各レベルで表示

Percentiles  
for papers published by field, 1995 - 2005  
(How to read this data)

Fields	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	All Years	
All Fields	0.01 %	1269	1096	975	931	698	586	464	345	184	67	11	746
	0.10 %	443	402	365	331	280	230	182	128	73	26	6	271
	1.00 %	143	132	122	111	97	82	65	46	26	10	3	88
	10.00 %	36	33	31	28	26	22	18	11	6	3	1	11
	20.00 %	20	19	18	16	15	13	11	7	4	2	1	7
	50.00 %	6	6	6	5	5	4	4	3	2	1	1	4
Agricultural Sciences	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	All Years	
	0.01 %	671	320	250	319	195	205	139	111	73	26	6	271
	0.10 %	135	142	110	128	106	88	66	44	26	10	3	88
	1.00 %	61	55	53	53	48	41	30	20	13	5	2	41
	10.00 %	21	20	18	17	15	14	11	8	5	2	1	13
	20.00 %	13	12	12	11	10	9	7	5	3	1	0	7
	50.00 %	4	4	4	4	3	3	3	2	1	0	0	2

例: 1998年の農学分野では、319回以上引用されていると、上位0.01%、128回以上だと上位0.1%になります。

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OR	
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OR	
BY FIELD RANKINGS:	<a href="#">View field rankings table.</a>

Field Rankingsを見て、全体の傾向をつかむことができます。

**Field Rankings**

Sorted by: Citations

	View	Field	Papers	Citations	Citations Per Paper
1		CLINICAL MEDICINE	1,729,366	17,407,082	10.07
2		BIOLOGY & BIOCHEMISTRY	522,347	7,691,111	14.72
3		CHEMISTRY	980,399	7,506,439	7.66
4		MOLECULAR BIOLOGY & GENETICS	237,807	5,642,557	23.73
5		PHYSICS	801,567	5,504,628	6.87



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Most Cited Papers:	- <a href="#">Highly Cited Papers (last 10 years)</a> - <a href="#">Hot Papers (last 2 years)</a>
Citation Analysis:	- <a href="#">Baselines</a> - <a href="#">Research Fronts</a>

**リサーチフロント分析**  
これは共引用、つまり参考文献として一緒に引用される頻度によって高被引用文献をグループ分けしています。重要な研究が行われている領域や、研究コミュニティの注目を集めている領域を発見する上で役立ちます。

[Notices](#)

[Tutorials](#)

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**RESEARCH FRONTS MENU**

BY FIELD: Select a topic from this field: (All Fields)

OR

BY NAME: Enter up to five terms or phrases separated by the operators AND or OR to search.  
*Example: BREAST CANCER (more examples)*

共引用は著者のコンセプトの連関を映し出しており、頻繁に共引用される文献のあいだには、概念的あるいは方法論的に顕著な関連性があることがわかっています。

一対のペアをもとにした関連付けの後、あらかじめ設定された閾値以上でリンクする文献をグループ化するクラスタリング分析が行われます。その結果、各リサーチフロントのグループは、強い共引用によって関連付けされた高被引用文献のセットで構成されます。

TH 分類別、もしくは、キーワードでリサーチフロントを検索できます。

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*in-cites provides a behind-the-scenes look at the scientists, journals, institutions, nations, and papers selected by the ISI Essential Science Indicators<sup>SM</sup> (ESI) Web product. Read interviews and first-person essays about people in a wide variety of fields and professions. View selected overall and field rankings, pertinent statistics on the principles behind the data, the latest version of the database, including new entrants and most-improved entities in the rankings, information on field definitions, citation thresholds, and graphing trends. Updated weekly is SCI-BYTES: a summary of what's new in research.*

**AUGUST 2005**

**PAPERS**



in-cites correspondent Gary Taubes talks with **Dr. Marc Tessier-Lavigne** about his highly cited paper, "The molecular biology of axon guidance," (Tessier-Lavigne, M., and Goodman, C.S., *Science* 274(5290): 1123-23, 15 November 1996). This paper is currently ranked at #6 among Neuroscience & Behavior papers published in the past decade, with 1,226 citations to date. Dr. Tessier-Lavigne is the Senior Vice President for Research Drug Discovery at Genentech, Inc., in San Francisco.

**INSTITUTIONS**



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TRACKING TRENDS AND PERFORMANCE IN BASIC RESEARCH

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"U.S. Slide in World Share Continues as European Union, Asia Pacific Advance"

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