The Thomson Reuters data and its use in Research Evaluation
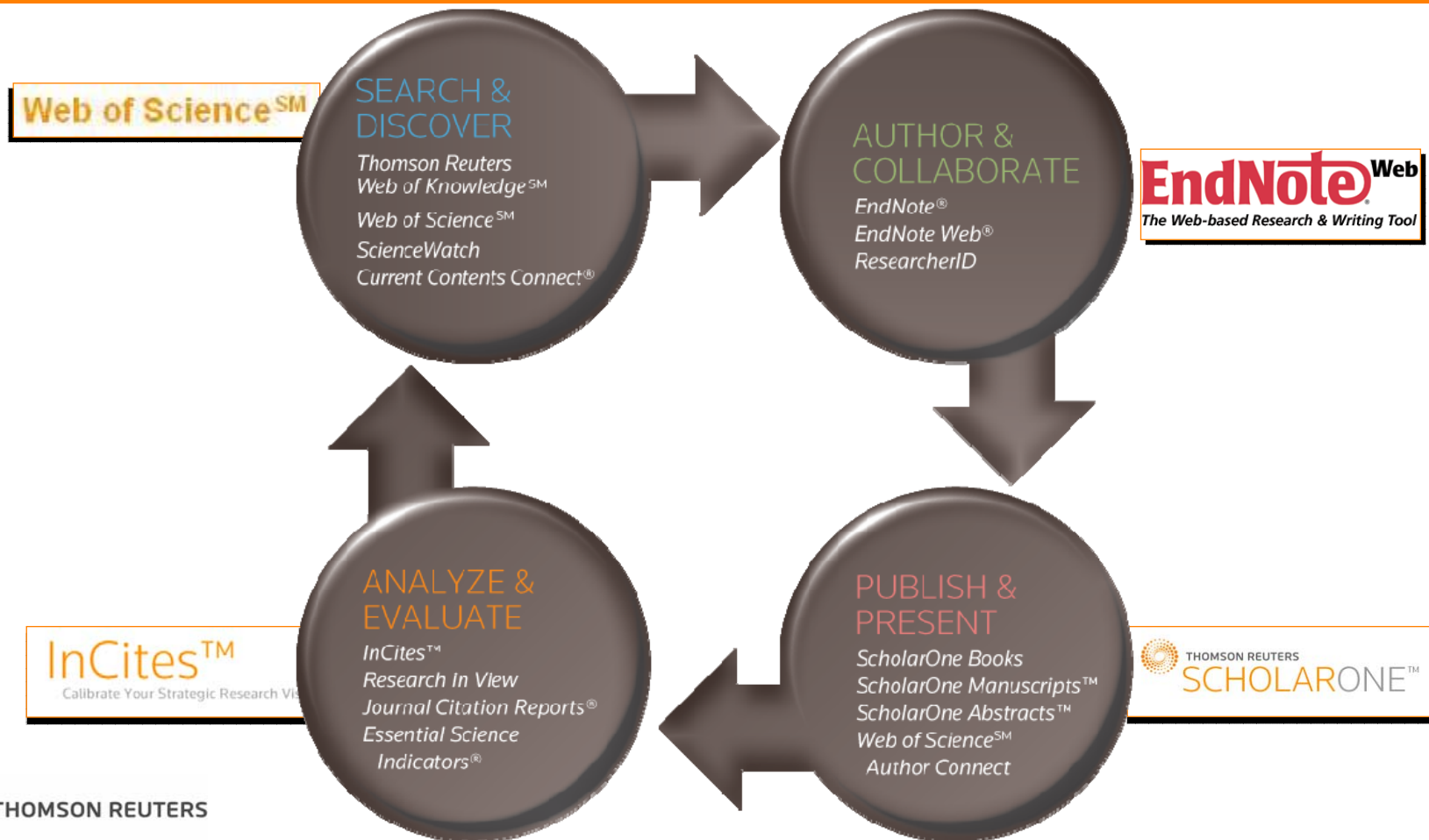
Dr Guillaume Rivalle
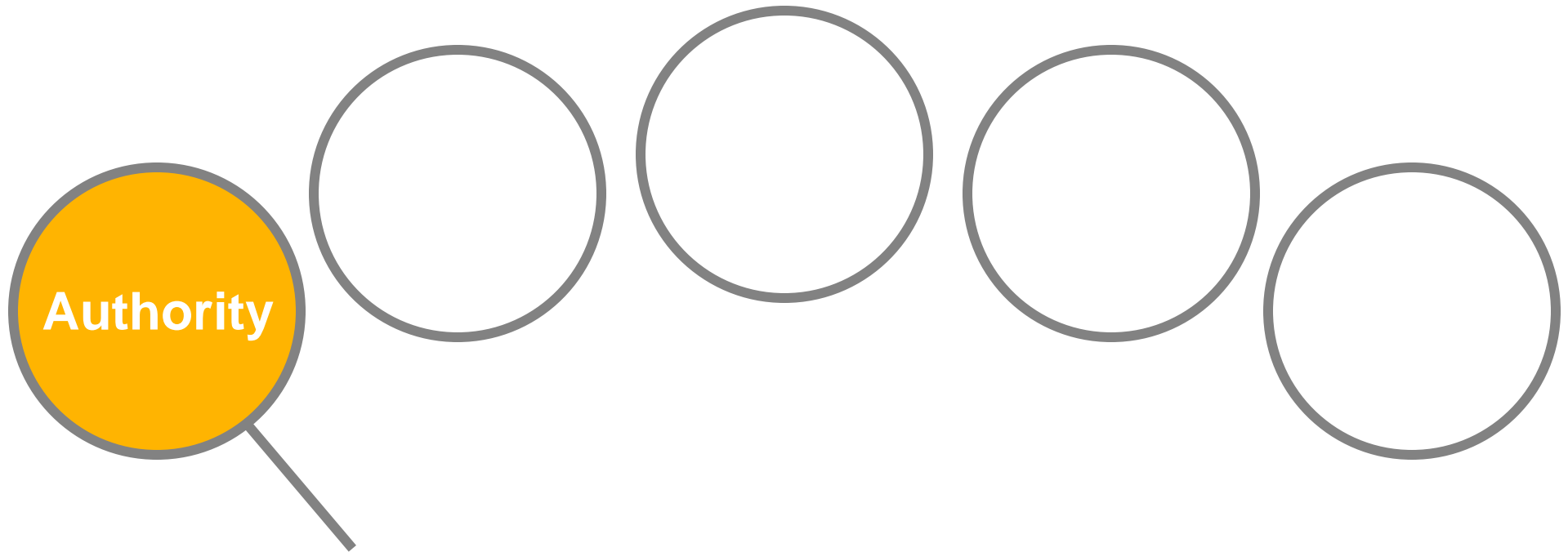**Product Specialist**

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The quality and reliability of metrics is only as good as the data used to generate them

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Web of Science

The quality and reliability of metrics is only as good as the data used to generate them

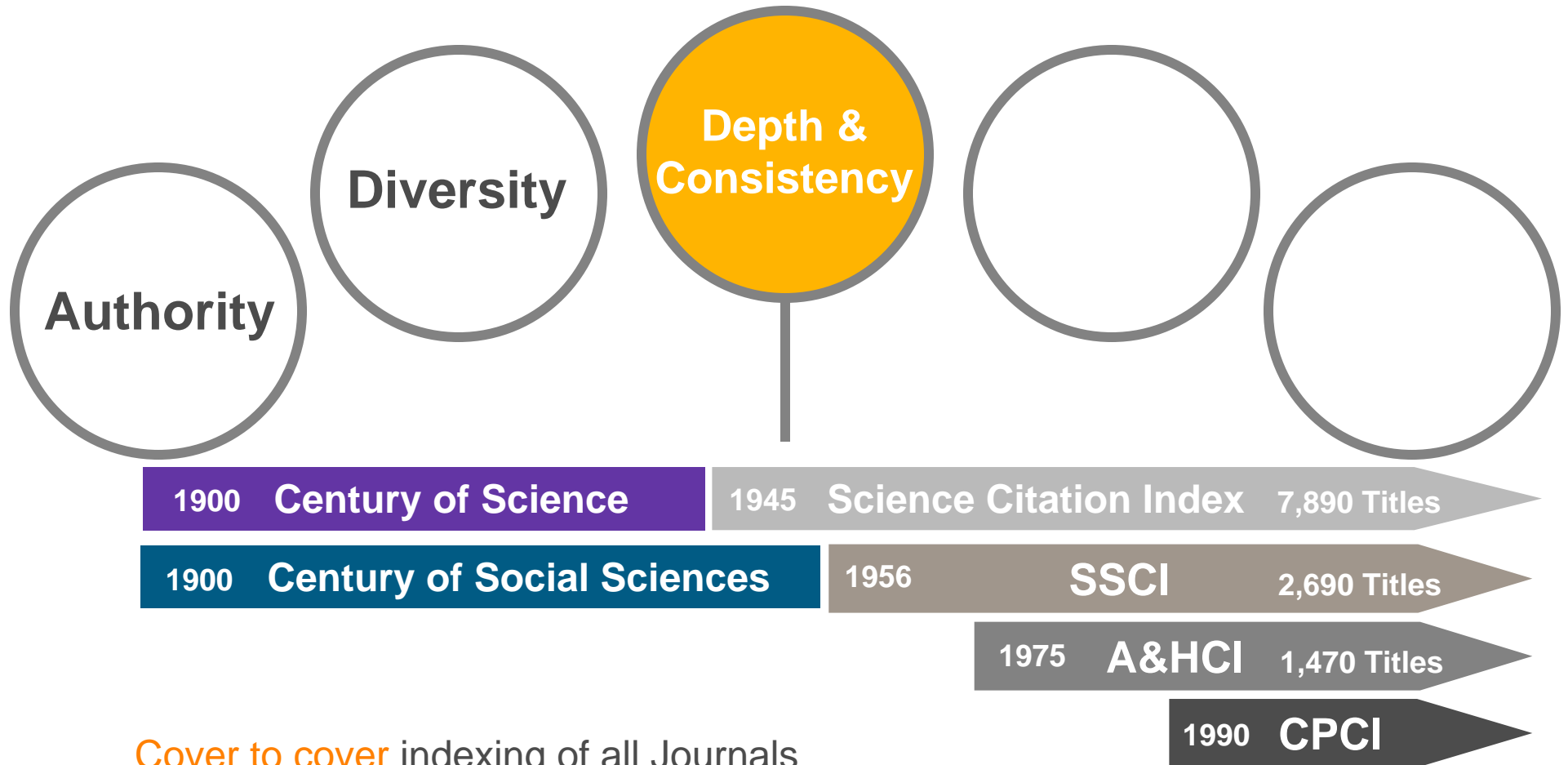**Authority** **Diversity**

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The quality and reliability of metrics is only as good as the data used to generate them

Authority

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1900	**Century of Science**	1945	**Science Citation Index**	7,890 Titles
1900	**Century of Social Sciences**	1956	**SSCI**	2,690 Titles
		1975	**A&HCI**	1,470 Titles
		1990	**CPCI**	

Cover to cover indexing of all Journals

All cited references, back to 1900 (> 700 million searchable cited references)

Indexing of 100% of available cited references (enables to perform analyses on literature that is not indexed)

The largest citation database available

78964 publications in *Web of Science*, dating back to **1907**
(Serbia/Yugoslavia/Serbia Montenegro)

ELECTROCATALYSIS BY FOREIGN METAL MONOLAYERS - OXIDATION OF FORMIC-ACID ON PLATINUM

Author(s): ADZIC, RR (ADZIC, RR); SIMIC, DN (SIMIC, DN); DESPIC, AR (DESPIC, AR); DRAZIC,

Volume: 65 Issue: 2 Pages: 587-75

Aromatic dithio carbamate

Author(s): Losanitsch, SM (Losanitsch, SM)

Source: BERICHTE DER DEUTSCHEN CHEMISCHEN GESELLSCHAFT Volume: 40 Pages: 2970-2977 DOI: 10.1002/cber.19070400340 Part: Part 3 Published: 1907

Times Cited: 3

Cited References: 7 [view related records] Citation Map

Document Type: Article

Language: German

Addresses:
1. Univ Belgrade, Chem Lab, Belgrade, Yugoslavia

All cited references indexed
Unique **data**
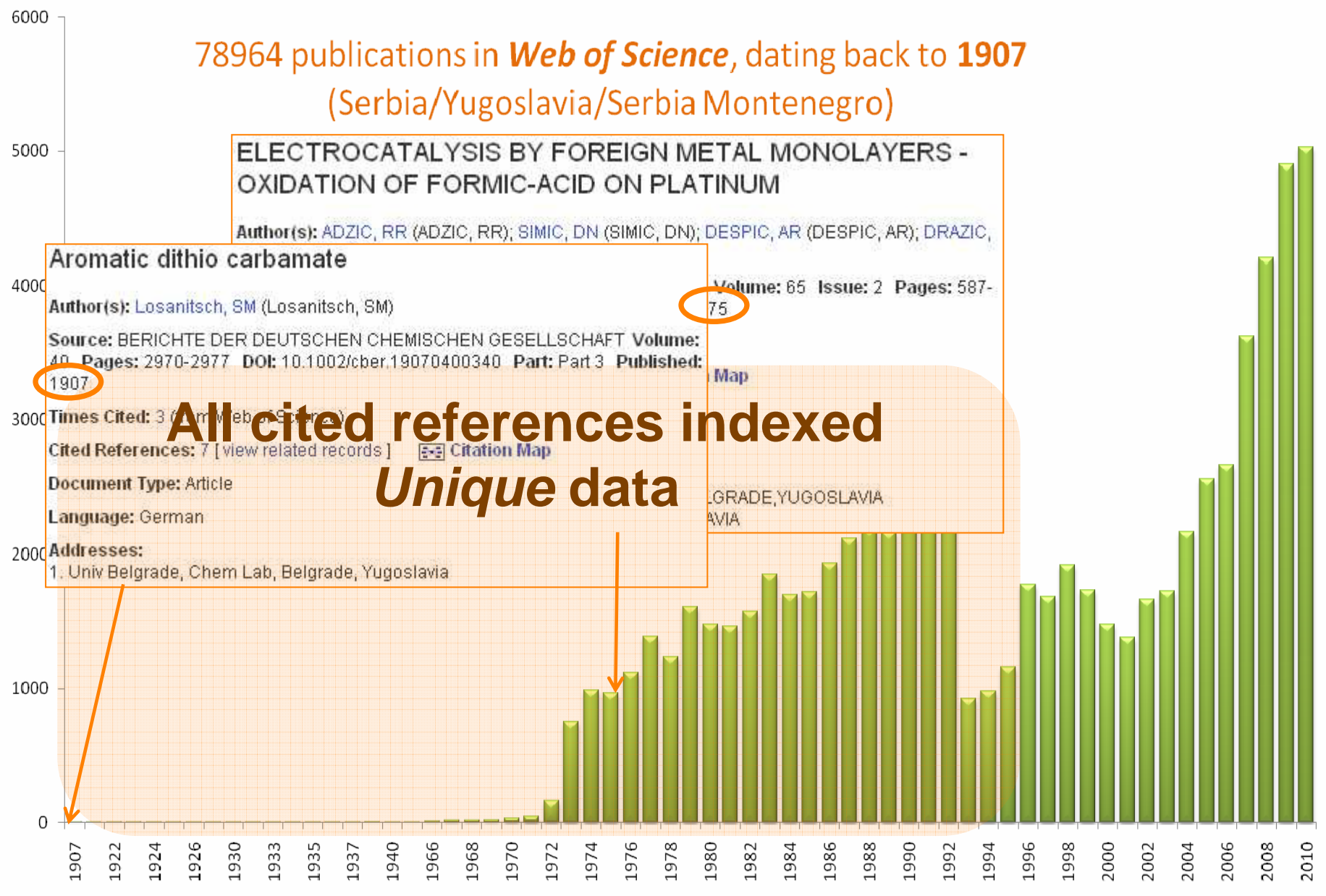
Web of Science

The quality and reliability of metrics is only as good as the data used to generate them

Authority

Diversity

Depth & Consistency

Quality Data
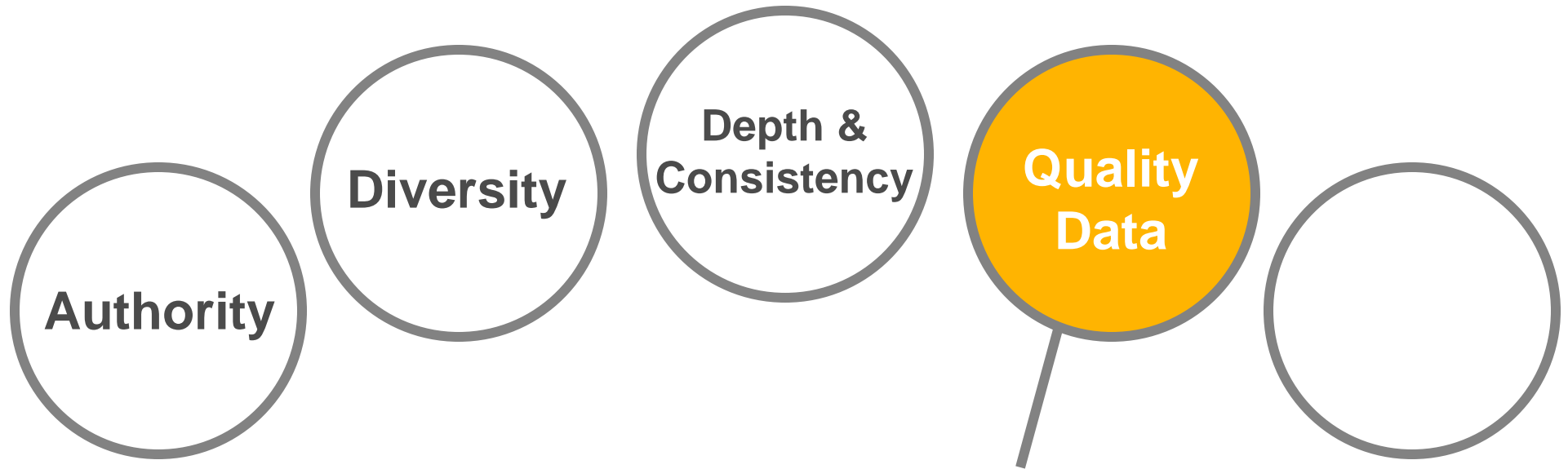
- Thomson Reuters captures **all** formal Cited References for **all records**
- **All author names** captured, including the **full name** when available
- Authors are **linked to addresses** making the affiliation clear
- **All addresses** are captured
- **Funding Acknowledgements** are captured for easy identification of grant based research and commercial interests

Funding Acknowledgements are not available on the full archive.

CMS physics technical design report, volume II: Physics performance

Author(s) Bayatian, GL (Bayatian, G. L.); Chatrchyan, S (Chatrchyan, S.); Hmayakya... W.); Bergauer, T (Bergauer, T.); Dragicevic, M (Dragicevic, M.); Ero, J (Eroe, J.); Fried... Glaser, P (Glaser, P.); Hrubec, J (Hrubec, J.); Jeitler, M (Jeitler, M.); Krammer, M (Kra... (Mitaroff, W.); Noebauer, T (Noebauer, T.); Pernicka, M (Pernicka, M.); Porth, P (Porth... (Taurok, A.); Waltenberger, W (Waltenberger, W.); Walzel, G (Walzel, G.); Widl, E (Widl, E.); Wulz, CE (Wulz, C-E); Fedorov, A (Fedorov, A.); Korzhik, M (Korzhik, M.); Missevitch, O (Missevitch, O.); Zuyeuski, R (Zuyeuski, R.); Chekhovsky, V (Chekhovsky, V.); Dvornikov, O (Dvornikov, O.); Emeliantchik, I (Emeliantchik, I.); Litomin, A (Litomin, A.); Mossolov, V (Mossolov, V.); Shumeiko, N (Shumeiko, N.); Solin, A (Solin, A.); Stefanovitch, R (Stefanovitch, R.); Gonzalez, JS (Gonzalez, J. Suarez); Tikhonov, A (Tikhonov, A.); Petrov, V (Petrov, V.); D'Hondt, J (D'Hondt, J.); De Weirdt, S (De Weirdt, S.); Goorens, R (Goorens, R.); Heyninck, J (Heyninck, J.); Lowette, S (Lowette, S.); Tavernier, S (Tavernier, S.); Van Doninck, W (Van Doninck, W.); Van Lancker, L (Van
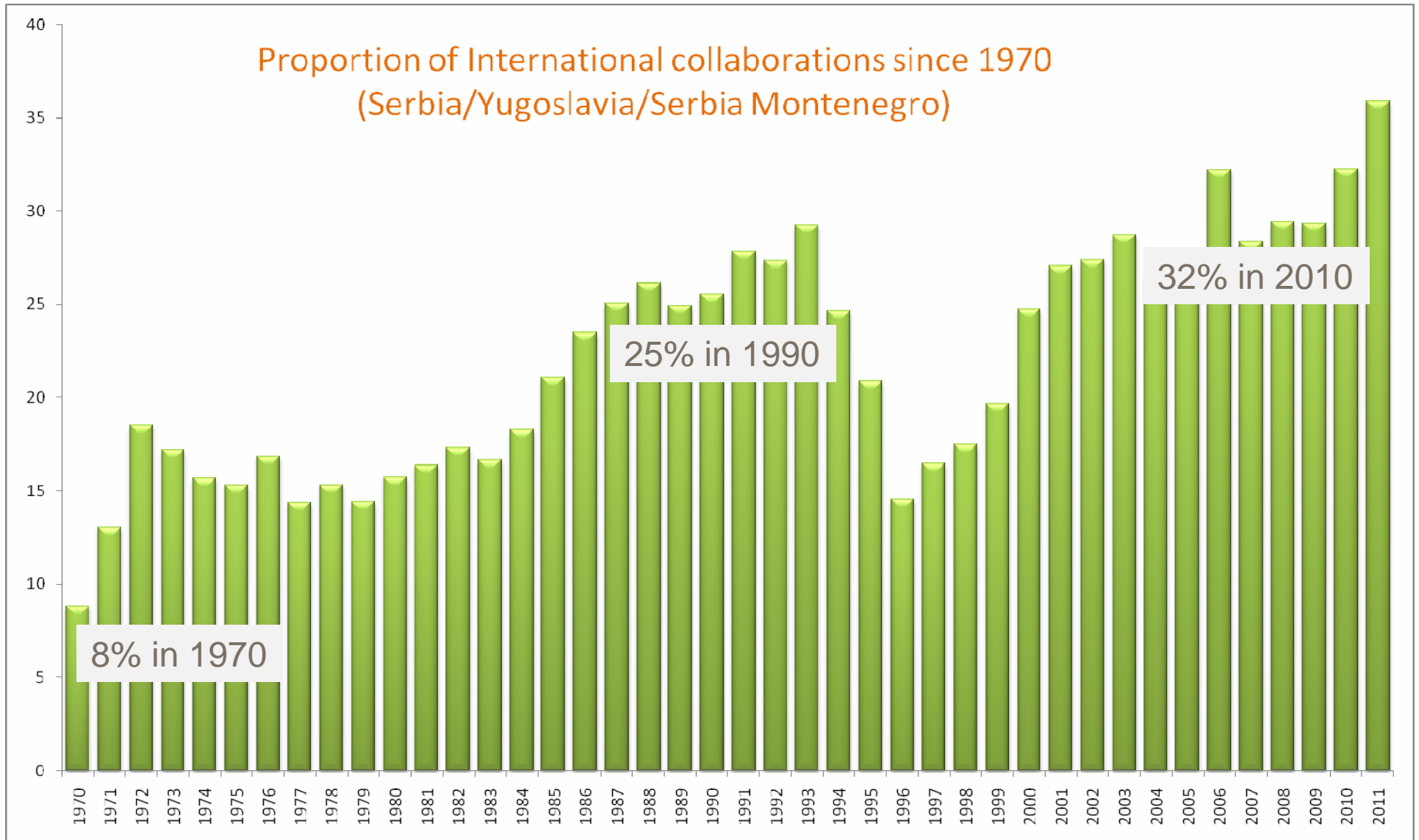
107. Joint Inst Nucl Res, Dubna, Russia
108. Petersburg Nucl Phys Inst, Gatchina, St Petersburg, Russia
109. Inst Nucl Res, Moscow, Russia
110. Swietokrzyska Acad, Inst Phys, Kielce, Poland
111. Warsaw Univ Technol, Inst Elect Syst, Warsaw, Poland
112. Inst Theoret & Expt Phys, Moscow 117259, Russia
113. PN Lebedev Phys Inst, Moscow 117924, Russia
114. State Res Ctr Russian Federat, Inst High Energy Phys, Protvino, Russia
115. Vinca Inst Nucl Sci, Belgrade, Serbia
116. Ctr Invest Energet Medioambientales & Tecnol, Madrid, Spain
117. Univ Autonoma Madrid, Madrid, Spain
118. Univ Oviedo, Oviedo, Spain
119. Univ Cantabria, CSIC, Inst Fis Cantabria, E-39005 Santander, Spain
120. CERN, European Org Nucl Res, CH-1211 Geneva, Switzerland
121. ETH, Inst Particle Phys, Zurich, Switzerland
122. Univ Belgrade, Fac Phys, Belgrade, Serbia
123. Ist Nazl Fis Nucl, ONAF, I-48126 Bologna, Italy
124. Paul Scherrer Inst, Villigen, Switzerland
125. Univ Zurich, Zurich, Switzerland
126. Natl Cent Univ, Chungli 32054, Taiwan
127. Natl Taiwan Univ, Taipei 10764, Taiwan
128. Cukurova Univ, Adana, Turkey
129. Middle E Tech Univ, Dept Phys, TR-06531 Ankara, Turkey
130. Bogazici Univ, Dept Phys, Istanbul, Turkey
131. Natl Acad Sci Ukraine, Inst Single Crystals, Kharkov, Ukraine

...entdecker, G (De Lentdecker, G.); Dewulf, JP (Dewulf, J. P.); Mahmoud, T ...ans, L.); Sundararajan, V (Sundararajan, V.); Vander Velde, C (Vander Velde, C.); ...k, S.); Bonnet, JL (Bonnet, J. L.); Bruno, G (Bruno, G.); Caudron, J (Caudron, J.); De ...au); De Visscher, S (De Visscher, S.); Delaere, C (Delaere, C.); Demin, P (Demin, ...regoire, G (Gregoire, G.); Kalinin, S (Kalinin, S.); Kcira, D (Kcira, D.); Keutgen, T ...); Liu, Y (Liu, Y.); Michotte, D (Michotte, D.); Militaru, O (Militaru, O.); Ninane, A ...ski, K (Piotrzkowski, K.); Roberfroid, V (Roberfroid, V.); Rouby, X (Rouby, X.); ...ckt, M (Vander Donckt, M.); Daubie, E (Daubie, E.); Herquet, P (Herquet, P.); Mollet, ...; Cardaci, M (Cardaci, M.); De Langhe, E (De Langhe, E.); De Wolf, EA (De Wolf, E. ...V.); Santoro, A (Santoro, A.); Sznajder, A (Sznajder, A.); Vaz, M (Vaz, M.); Gregores, ...ov, T.); Antchev, G (Antchev, G.); Atanasov, I (Atanasov, I.); Damgov, J (Damgov, J.); ...enchev, V.); Iaydjiev, P (Iaydjiev, P.); Panev, B (Panev, B.); Piperov, S (Piperov, S.); ...l.); Dimitrov, A (Dimitrov, A.); Kozhuharov, V (Kozhuharov, V.); Litov, L (Litov, L.); ...va, E.); Markov, S (Markov, S.); Mateev, M (Mateev, M.); Pavlov, B (Pavlov, B.); Petkov, ...(Toteva, Z.); Verguilov, V (Verguilov, V.); Chen, GM (Chen, G. M.); Chen, HS (Chen, ...u, HM (Liu, H. M.); Meng, X (Meng, X.); Shen, XY (Shen, X. Y.); Sun, HS (Sun, H. S.); ...); Ban, Y (Ban, Y.); Cai, J (Cai, J.); Liu, S (Liu, S.); Qian, SJ (Qian, S. J.); Yang, ZC ...ZP (Zhang, Z. P.); Godinovic, N (Godinovic, N.); Puljak, I (Puljak, I.); Soric, I (Soric, ...(Marasovic, K.); Brigljevic, V (Brigljevic, V.); Ferencek, D (Ferencek, D.); Kadija, K

An important paper, cited 332 times
Hundreds of authors (all indexed)
184 Addresses (all indexed)

...Chipaux, R (Chipaux, R.); Dejardin, M (Dejardin, M.); Denegri, D ...L.); Ganjour, S (Ganjour, S.); Gentit, FX (Gentit, F. X.); Givernaud, ...Jarry, P (Jarry, P.); Kircher, F (Kircher, F.); Lemaire, MC (Lemaire, M. C.); Levesy, B (Levesy, B.); Locci, E (Locci, E.); Lottin, JP (Lottin, J. P.); Mandjavidze, I (Mandjavidze, I.); Mur, M (Mur, M.); Pasquetto, E (Pasquetto, E.); Payn, A (Payn, A.); Rander, J (Rander, J.); Reymond, JM (Reymond, J. M.); Rondeaux, F (Rondeaux, F.); Rosowsky, A (Rosowsky, A.); Sun, ZH (Sun, Z. H.); Verrecchia, P (Verrecchia, P.); Baffioni, S (Baffioni, S.); Beaudette, F (Beaudette, F.); Bercher, M (Bercher, M.); Berthon, U (Berthon, U.); Bimbot, S (Bimbot, S.); Bourotte, J (Bourotte, J.); Busson, P (Busson, P.); Cerutti, M (Cerutti, M.);

International collaborations

Proportion of International collaborations since 1970
(Serbia/Yugoslavia/Serbia Montenegro)

8% in 1970

25% in 1990

32% in 2010

Srecko Nedeljkovic (1923-2011)

**One of the greatest contributor for
Serbian Medical research**

Title: **FLAVONOID INTAKE AND LONG-TERM RISK OF CORONARY-HEART-DISEASE AND CANCER IN THE 7 COUNTRIES STUDY**
Author(s): HERTOG MGL; KROMHOUT D; ARAVANIS C; et al.
Source: ARCHIVES OF INTERNAL MEDICINE Volume: 155   Issue: 4   Pages: 381-386   DOI: **10.1001/archinte.155.4.381**   Published: FEB 27 1995
Times Cited: **1,042** (from Web of Science)
S·F·X Full Text [View abstract]

The most cited Serbian paper

Title: **THE DIET AND 15-YEAR DEATH RATE IN THE 7 COUNTRIES STUDY**
Author(s): KEYS A; MENOTTI A; KARVONEN MJ; et al.
Source: AMERICAN JOURNAL OF EPIDEMIOLOGY Volume: 124   Issue: 6   Pages: 903-915   Published: DEC 1986
Times Cited: **656** (from Web of Science)
S·F·X Order Full Text

Title: **SERUM TOTAL CHOLESTEROL AND LONG-TERM CORONARY HEART-DISEASE MORTALITY IN DIFFERENT CULTURES - 25-YEAR FOLLOW-UP OF THE 7-COUNTRIES STUDY**
Author(s): VERSCHUREN WMM; JACOBS DR; BLOEMBERG BPM; et al.
Source: JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION Volume: 274   Issue: 2   Pages: 131-136   DOI: **10.1001/jama.274.2.131**
 Published: JUL 12 1995
Times Cited: **375** (from Web of Science)
S·F·X Full Text [View abstract]

Title: **DIETARY SATURATED AND TRANS-FATTY-ACIDS AND CHOLESTEROL AND 25-YEAR MORTALITY FROM CORONARY-HEART-DISEASE - THE 7 COUNTRIES STUDY**
Author(s): KROMHOUT D; MENOTTI A; BLOEMBERG B; et al.
Source: PREVENTIVE MEDICINE Volume: 24   Issue: 3   Pages: 308-315   DOI: **10.1006/pmed.1995.1049**   Published: MAY 1995
Times Cited: **223** (from Web of Science)
S·F·X Full Text [View abstract]

Title: **THE 7 COUNTRIES STUDY - 2,289 DEATHS IN 15 YEARS**
Author(s): KEYS A; MENOTTI A; ARAVANIS C; et al.
Source: PREVENTIVE MEDICINE Volume: 13   Issue: 2   Pages: 141-154   DOI: **10.1016/0091-7435(84)90047-1**   Published: 1984
Times Cited: **216** (from Web of Science)
S·F·X Full Text

Srecko Nedeljkovic (1923-2011)

A tremendous impact on the international research community

> **51 papers indexed in the Web of Science since 1981**
>
> **They have been cited 3400 times since 1985**

In high impact Journals	In 88 Countries	By recognized institutions
Lancet	Usa 30%	Harvard University
Jama	Italy 10%	Columbia University
Am J of clinical Nutrition	Spain 7.5%	INRA
Circulation	Japan 7%	London Imperial College
European Heart Journal	England 6%	Milan University
Int Journal of Epidemiology	Netherlands 6%	Tech University Munich
Journal of Nutrition	Greece 5%	UCLA
British Journal of Nutrition	France 5%	Cambridge University
Food Chemistry	Germany 4.8%	Kyoto University
Preventive Medicine	Finland 4.6%	Toronto University
	...	...

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Web of Science

The quality and reliability of metrics is only as good as the data used to generate them

Authority   **Diversity**   **Depth & Consistency**   **Quality Data**   **Discovery Tools**
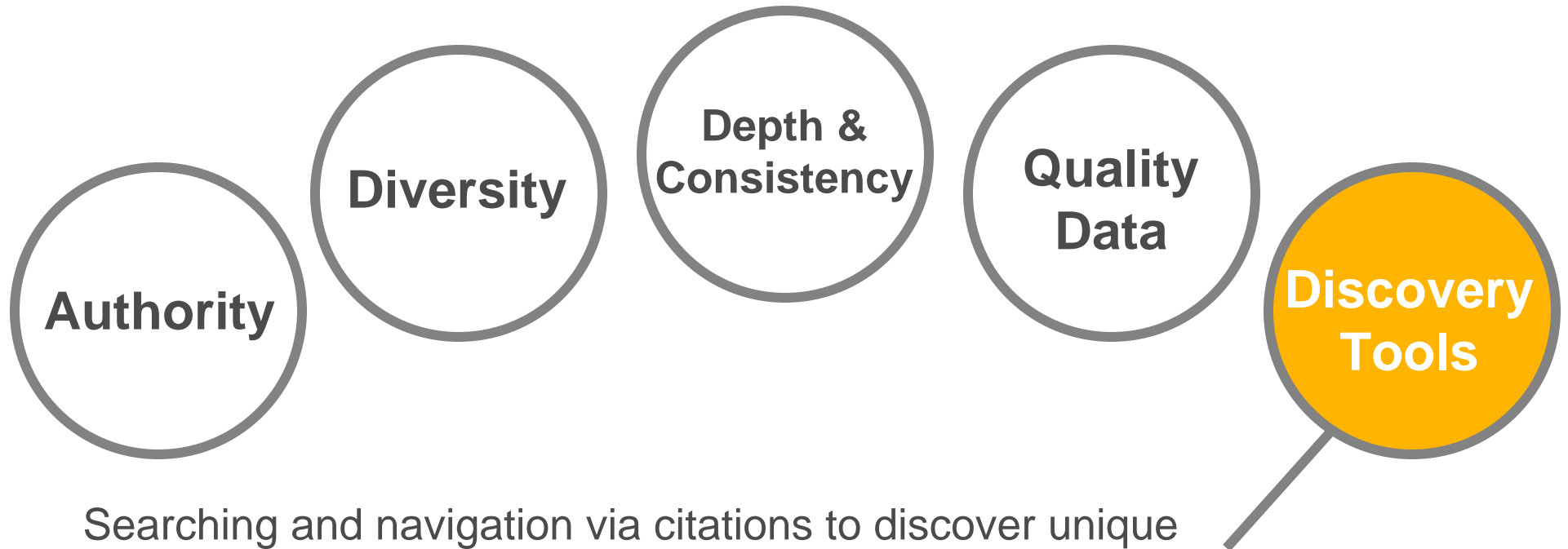
Searching and navigation via citations to discover unique research and evaluate the impact of research

Visualization & reporting tools help identify trends and generate reports
- Analyze & Refine tools, Citation Report, Citation Map

Integration with *ISI Web of Knowledge* resources to aid the entire research cycle
- EndNote Web, ResearcherID
- Single article level classification scheme across all resources

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Bibliometrics

> "If you can measure that of which you speak, and can express it by a number, you know something of your subject; but if you cannot measure it, your knowledge is meager and unsatisfactory"
>
> - Lord Kelvin (William Thomson)

Citation metrics are:

Transparent

Repeatable

Easily understood

Research Analytics
The Thomson Reuters Data Foundation

Thomson Reuters' publication and citation metrics are an important piece of many published research assessments throughout the world.

➢ US National Science Foundation
  Science & Engineering Indicators

➢ European Commission:
  European Union
    Science & Technology Indicators
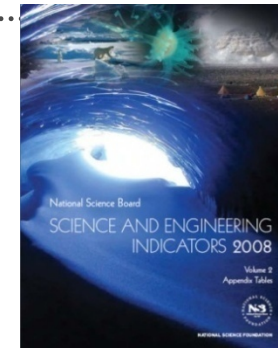
➢ Times Higher Education World University Rankings
"powered by Thomson Reuters"

➢ Also used by government entities in France, Australia, Italy, Japan, UK, Portugal, Norway, Spain, Belgium, South Korea, Canada, and more, to shape higher education policy.

➢ Agence d'évaluation de la recherche et de l'enseignement

THOMSON REUTERS

We successfully predicted 9 Nobel prize 2011 winners

2011

CITATION LAUREATES

REUTERS/Pawel Kopczynski

NOBEL PREDICTIONS HOME

2011 PREDICTIONS

ESSAYS & INTERVIEWS

Process Essay

Looking Back Essay

Interviews

Podcasts

WHO WILL WIN THE NEXT NOBEL PRIZE?

Can the winners of the Nobel Prize be correctly predicted? Since 1989, Thomson Reuters has developed a list of likely winners in medicine, chemistry, physics, and economics. Those chosen are named Thomson Reuters Citation Laureates — researchers likely to be in contention for Nobel honors based on the citation impact of their published research.

SEE HOW THE CITATION LAUREATES ARE CHOSEN!

WHO WILL WIN THE NEXT NOBEL PRIZE?

JOIN THE CONVERSATION

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Serbia's **Highly Cited Papers**

	View		Field	Papers	Citations	Citations Per Paper
1	📄	📊	AGRICULTURAL SCIENCES	403	798	1.98
2		📊	BIOLOGY & BIOCHEMISTRY	1,066	1,913	1.79
3	📄	📊	CHE...			.56
4	📄	📊	CLI...			.09
5	📄	📊	CO...			.51
6	📄	📊	ENG...			.66
7		📊	ENV...			.48
8	📄	📊	MA...			.18
9	📄	📊	MATHEMATICS	810	2,754	3.40
10		📊	NEUROSCIENCE & BEHAVIOR	174	900	5.17
11		📊	PHARMACOLOGY & TOXICOLOGY	296	960	3.24
12	📄	📊	PHYSICS	1,095	3,075	2.81
13	📄	📊	PLANT & ANIMAL SCIENCE	791	1,136	1.44
14		📊	PSYCHIATRY/PSYCHOLOGY	170	189	1.11
15		📊	SOCIAL SCIENCES, GENERAL	231	263	1.14
16	📄	📊	SPACE SCIENCE	127	353	2.78

In the past 10 years, Serbia
has published many *Highly Cited Papers*
in various disciplines:
114 Serbian publications are within the 1%
of the most influential papers of the past decade

Serbia's **Hot Papers**

HOT PAPERS FOR (SERBIA)

Sorted by: [Citations ▾] [SORT AGAIN]

1 - 14 (of 14) |◀ ◀◀ ◀[1]▶ ▶▶ ▶| Page 1 of 1

1 Citations: 75   [HOT PAPER] [COMMENTARY] [WEB OF SCIENCE]

Title: BANDGAP OPENING IN GRAPHENE INDUCED BY PATTERNED HYDROGEN ADSORPTION

Authors: BALOG R; JORGENSEN B; NILSSON L; ANDERSEN M; RIENKS E; BIANCHI M; FANETTI M; LAEGSGAARD E; BARALDI A; LIZZIT S; SLJIVANCANIN Z; BESENBACHER F; HAMMER B; PEDERSEN TG; HOFMANN P; HORNEKAER L

Source: NAT MATER 9 (4): 315-319 APR 2010

In the past 2 years, Serbia has published 14 articles that are within the **0.1%** of the world's most cited articles in the last two months.

THOMSON REUTERS

A famous indicator:
The Journal Impact Factor

- The journal impact factor is a measure of the frequency with which the "average article" in a journal has been cited in a particular year.

- One common misuse of the IF is to evaluate papers, or *people*

- An IF value has to be placed into a *disciplinary* context

- Is an Impact Factor of 1.294 a good IF?

Rank in Category: Journal of Mining and Metallurgy Section B-Metallu...

Journal Ranking ⓘ

For 2010, the journal **Journal of Mining and Metallurgy Section B-Metallu...** has an Impact Factor of **1.294**.

This table shows the ranking of this journal in its subject categories based on Impact Factor.

Category Name	Total Journals in Category	Journal Rank in Category	Quartile in Category
METALLURGY & METALLURGICAL ENGINEERING	76	12	Q1

A famous indicator:
The H index

Rank	Author A	Author B
1	24	1,020
2	20	220
3	18	110
4	12	11
		------- h-index: 4
5	6	4
	------- h-index: 5	
6	3	2
7	2	1
8	1	0
9	1	0
10	0	0

The h-index, while being a very informative metric, does not take into account this uneven distribution.

Many articles are not included in the calculation

**A single indicator is not enough.
A combination of metrics is necessary for a meaningful analysis of a given situation**

From Web of Science to **Incites**

Data		Thomson Reuters Expertise & Processing		Incites
• *Web of Science*	→	• Address unification • Data cleansing & standardization • Normalization & baselines	→	
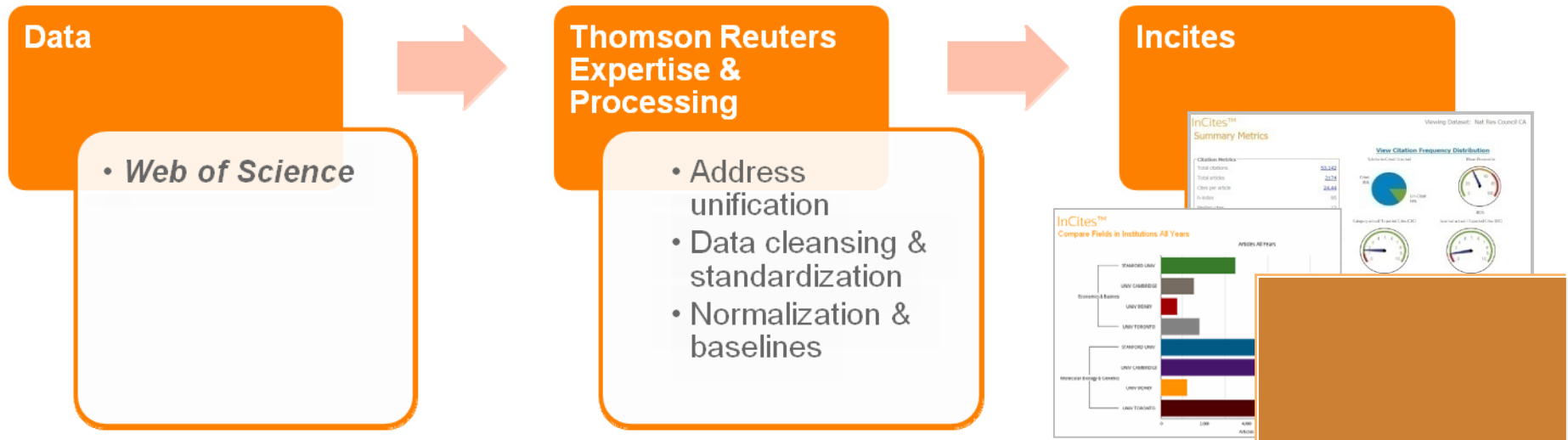
- For more than four decades Thomson Reuters has provided a wide range of tools and services supporting accurate and effective research evaluation.

- Our specialist work with Web of Science data and ensure maximum standardization and unification before delivery to customers.

- Thomson Reuters offers not just simple counts and averages, but real "metrics" founded on baselines for comparison and normalized statistics.

THOMSON REUTERS

Thomson Reuters Research Analytics: Creation of "Real Metrics"

Web of Science full record:

Thomson Reuters Research Analytics: Creation of "Real Metrics"

Putting a citation number into a meaningful context:

-Same type of document (Review)

-Same Publication year (2008)

-Same field (Neurosciences)

The Expected citation rate for this publication is X

We calculate the ratio

$$\frac{87}{X}$$

If this ratio is above 1 then we find a performance above average in terms of citation of publications within a category.

If this ratio is below 1 then we find a performance below average in terms of citation of publications within a category.

Who are our most productive and influential researchers?

Author Ranking (source articles)

Rank determined by total citations

Sort By: **Total Citations**

Rank	Author	Total Citations	Total Articles	Avg Cites per Article	h-index	Journal actual / Expected Cites (JXC)	Category actual / Expected Cites (CXC)	Mean Percentile
1	THOMAS, DY	8,938	159	56.21	53	1.08	2.10	28.02
2	CYGLER, M	5,818	148	39.31	34	1.31	2.07	41.48
3	MASSIE, B	4,292	113	37.98	34	1.47	2.27	30.99
4	LUONG, JHT	3,470	188	18.46	32	1.03	1.31	36.64
5	WHITEWAY, M	3,398	91	37.34	30	1.04	2.03	33.78
6	DIGNARD, D	3,116	40	77.90	27	1.39	3.08	19.89
7	BANVILLE, D	3,088	62	49.81	29	1.20	1.92	33.66
8	SHEN, SH	2,925	90	32.50	29	0.85	1.46	41.53
9	SCHRAG, JD	2,707	44	61.52	21	1.48	2.76	28.06
10	BERGERON, JJM	2,702	43	62.84	24	1.25	2.91	20.89
11	MOSSER, DD	2,555	23	111.09	18	2.63	4.09	19.42
12	BROUSSEAU, R	2,421	101	23.97	29	1.06	1.	34.51
13	STORER, AC	2,404	68	35.35	29	1.1		
14	LEBERER, E	2,328	38	61.26	23	0.9		
15	VERNET, T	2,206	38	58.05	25	1.2		
16	MENARD, R	2,052	74	27.73	27	1.1		
17	HAWARI, J	2,036	127	16.03	24	1.32	1.77	35.41
18	MASSON, L	1,953	78	25.04	25	1.29	1.75	31.93
19	GROCHULSKI, P	1,664	15	110.93	12	2.66	4.74	14.07
20	TESSIER, DC	1,554	34	45.71	23	1.22	1.88	24.34

A *baseline of 1.0 represents average influence for a body of published work.*

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23

Which collaboration is leading to research with the greatest impact?

Print Excel Pdf

Viewing Dataset: University of Houston: Address Search Dataset

COLLABORATING INSTITUTIONS

Sort By: | Times Cited |

Rank	Institution	Times Cited	Web of Science Documents	Average Cites per Document	h-index	Journal Actual/Expected Citations	Category Actual/Expected Citations	Average Percentile
1	UNIV HOUSTON	402,374	31,036	12.96	180	1.02	1.43	43.41
2	RICE UNIV	59,284	6,275	9.45	93	1.37	2.34	42.33
3	UNIV CALIF BERKELEY	22,437	681	32.95	70	1.63	3.47	26.08
4	INDIANA UNIV	19,441	654	29.73	67	1.58	3.40	29.44
5	BROOKHAVEN NATL LAB	19,366	570	33.98	67	1.57	3.46	25.90
6	UNIV CALIF LOS ANGELES	19,026	490	38.83	69	2.13	4.44	25.41
7	TEXAS A&M UNIV	18,475	647	28.55	65	1.47	2.71	33.00
8	UNIV TEXAS HLTH SCI CTR HOUSTON	17,289	1,148	15.06	61	1.07	1.41	40.91
9	BAYLOR COLL MED	17,164	1,061	16.18	60	1.06	1.54	42.01
10	UNIV WASHINGTON	16,258	506	32.13	62	1.92	4.08	29.21
11	MICHIGAN STATE UNIV	15,858	491	32.30	60	1.62	3.67	27.32
12	PURDUE UNIV	14,757	514	28.71	58	1.80	3.93	31.71
13	UNIV ILLINOIS	14,456	617	23.43	57	1.20	2.41	33.10
14	INST HIGH ENERGY PHYS	14,198	438	32.42	56	1.74	4.00	26.06
15	UNIV CALIF DAVIS	14,053	330	42.58	59	1.74	3.94	22.30
16	UNIV TEXAS	13,300	550	24.18	55	1.21	1.54	34.55
17	UNIV TEXAS AUSTIN	13,011	457	28.47	56	2.21	3.92	33.69
18	YALE UNIV	12,505	244	51.25	61	3.34	5.07	22.92

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How can we identify our strengths and weaknesses in different disciplines?

In which field are we publishing the most?
In which field do we have the strongest average impact?
In which field(s) are we better than our peers?

Rank	Subject Area	Times Cited	Web of Science Documents	Average Cites per Document	h-index	Journal Actual/Expected Citations	Category Actual/Expected Citations	Average Percentile
1	PSYCHIATRY	4,532	264	17.17	37	1.32	1.54	47.04
2	PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH	4,468	216	20.69	31	1.35	1.71	46.80
3	BIOCHEMISTRY & MOLECULAR BIOLOGY	3,135	155	20.23	31	1.19	1.22	52.40
4	ENVIRONMENTAL SCIENCES	1,875	150	12.50	25	1.23	2.14	48.77
5	WATER RESOURCES	570	145	3.93	14	1.36	1.12	63.85
6	ENGINEERING, CIVIL	646	140	4.61	15	1.70	1.50	54.64
7	MEDICINE, GENERAL & INTERNAL	1,299	136	9.55	19	1.46	0.81	49.58
8	PHARMACOLOGY & PHARMACY	1,891	111	17.04	22	1.32	1.88	55.86
9	OPTICS	2,044	103	19.84	18	2.04	3.26	49.85
10	PHYSICS, APPLIED	1,636	88	18.59	23	2.27	5.75	49.69
11	MATERIALS SCIENCE, MULTIDISCIPLINARY	758	87	8.71	12	2.19	3.72	67.62
11	SUBSTANCE ABUSE	2,269	87	26.08	29	1.35	1.80	25.55
13	NEUROSCIENCES	1,196	86	13.91	18	0.86	1.24	59.39
14	ENGINE							56.51
15	ENGINE							63.92

« Peers » = Institutions publishing the same type of documents, at the same time, and in the same field

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Where is our research funding coming from?
Are these funding generating good impact?

Rank	Funding Agency	Web of Science Documents	Times Cited	Average Cites per Document	Subject Areas Count	Grant Numbers Count
1	Polish Ministry of Science and Higher Education	772	1,204	1.56	119	652
2	Polish State Committee for Scientific Research	248	346	1.40	94	234
3	European Union	176	466	2.65	77	108
4	Foundation for Polish Science	88	180	2.05	52	5
5	[no funding agency provided]	77	223	2.90	57	88
6	National Science Foundation	69	408	5.91	42	65
7	European Commission	63	239	3.79	51	47
8	German Research Foundation	60	463	7.72	34	37
9	Russian Foundation for Basic Research	59	135	2.29	26	57
10	Polish Academy of Sciences	56	43	0.77	49	8
11	Polish Ministry of Education and Science	49	60	1.22	39	48
12	U.S. Department of Energy	38	313	8.24	21	29
13	European Community	31	95	3.06	30	22
14	National Institutes of Health	30	125	4.17	23	41
14	Natural Sciences and Engineering Research Council of Canada	30	81	2.70	28	3
15	National Center for Scientific Research	28	81	2.89	22	2
15	Polish Ministry of Scientific Research and Information Technology	28	12	0.43	29	27

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How can we identify our strengths and weaknesses in different disciplines?

Impact Relative To Country/Territory Most Recent 5 Years Cumulative

Serbia's average Impact
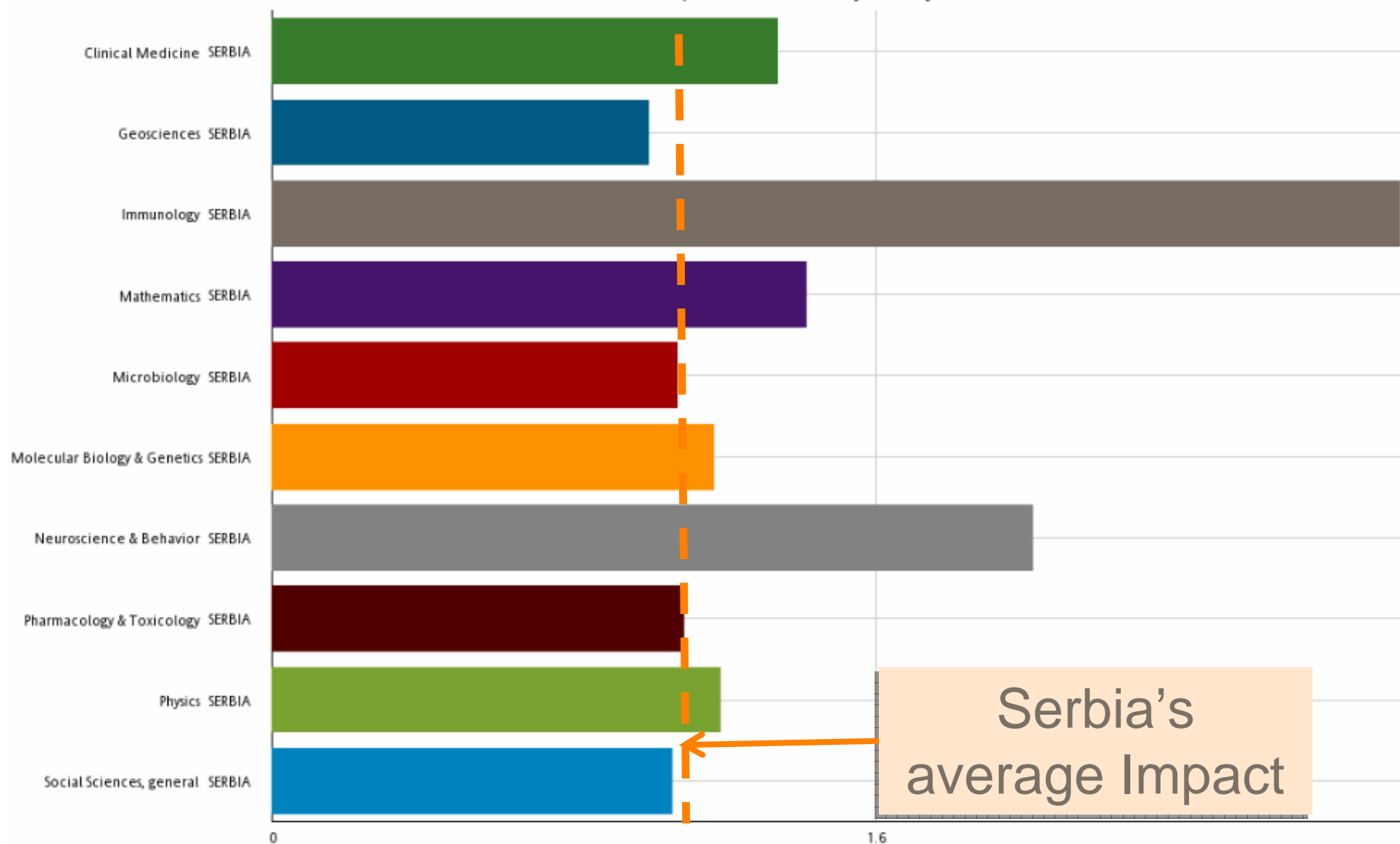
What is our production in one field, compared to other countries?

Web of Science Documents 5 Year Trends

COUNTRY_NAME, Subject Area
- —WORLD - Mathematics
- SERBIA - Mathematics
- FRANCE - Mathematics
- GERMANY - Mathematics

Is this a fair comparison?

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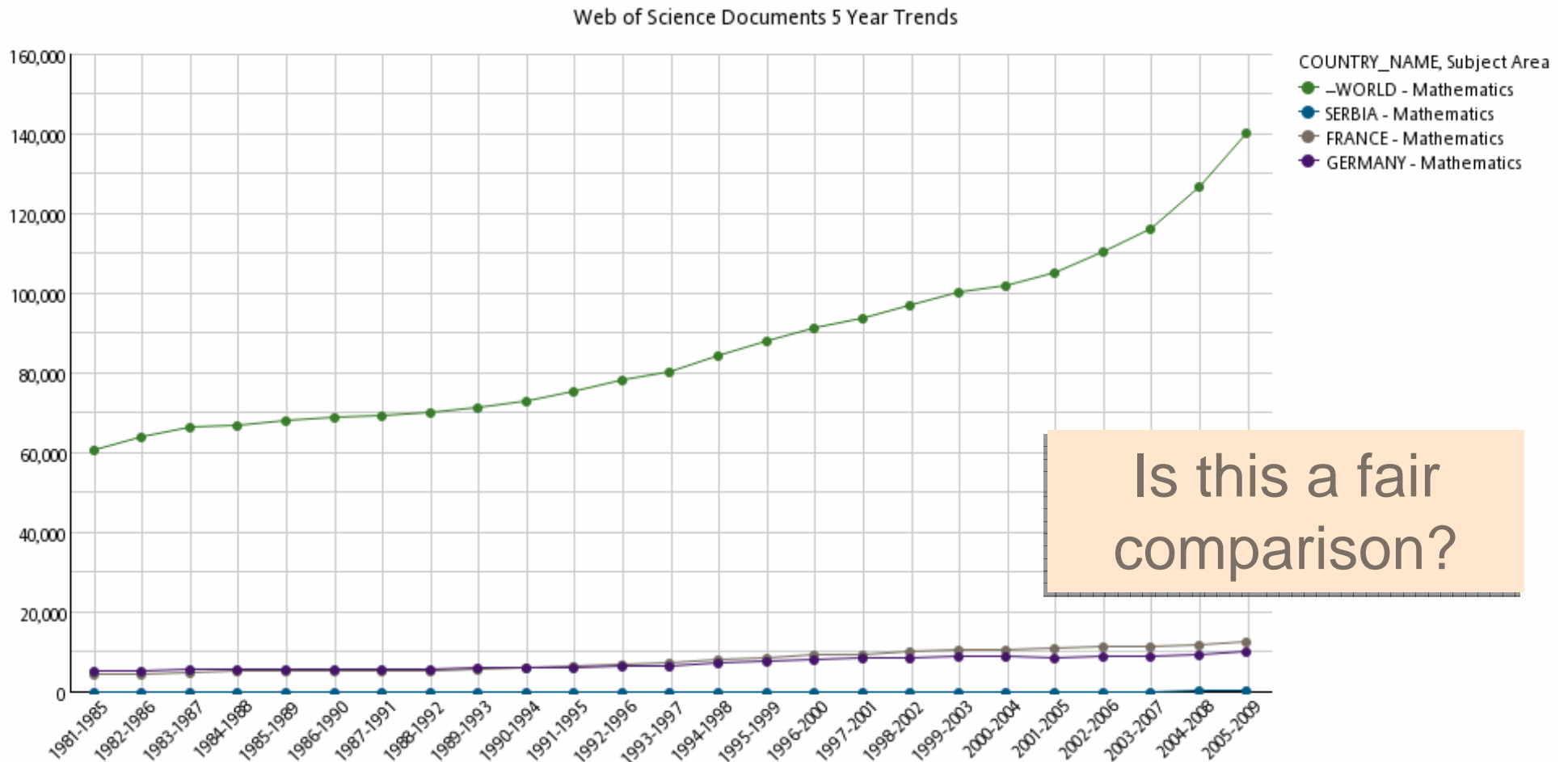
What is our impact in one field, compared to other countries?

Impact 5 Year Trends

COUNTRY_NAME, Subject Area
- —WORLD - Mathematics
- SERBIA - Mathematics
- FRANCE - Mathematics
- GERMANY - Mathematics
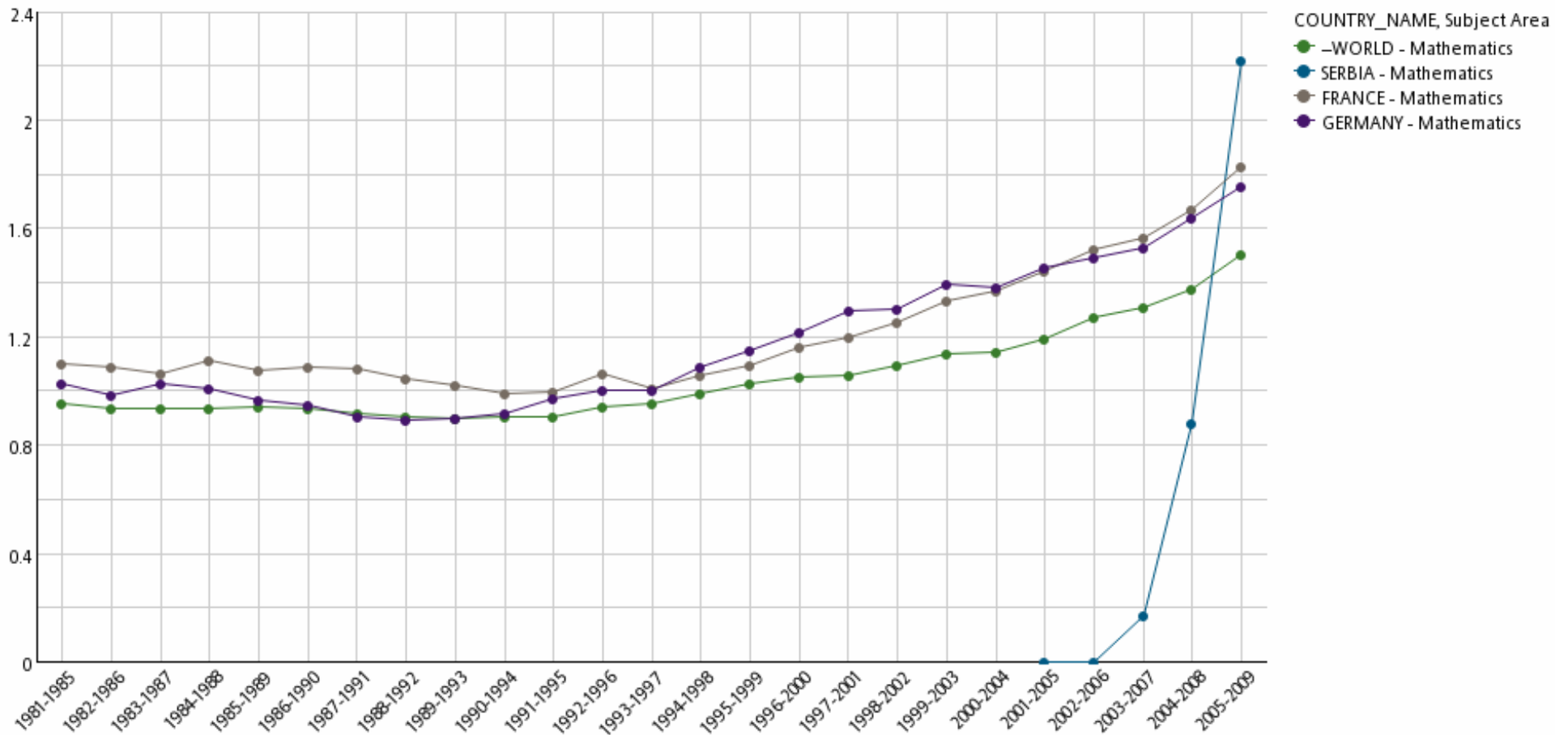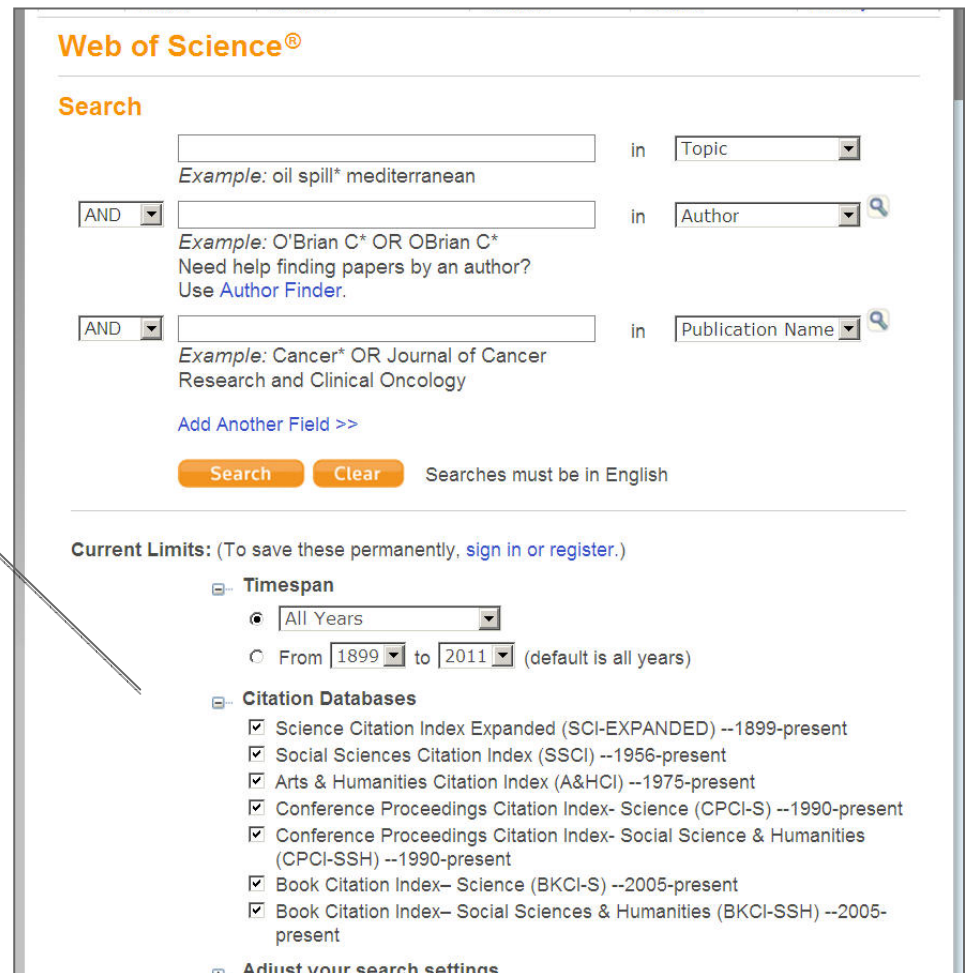
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JAMES TESTA
VP, EDITORIAL DEVELOPMENT & PUBLISHER RELATIONS
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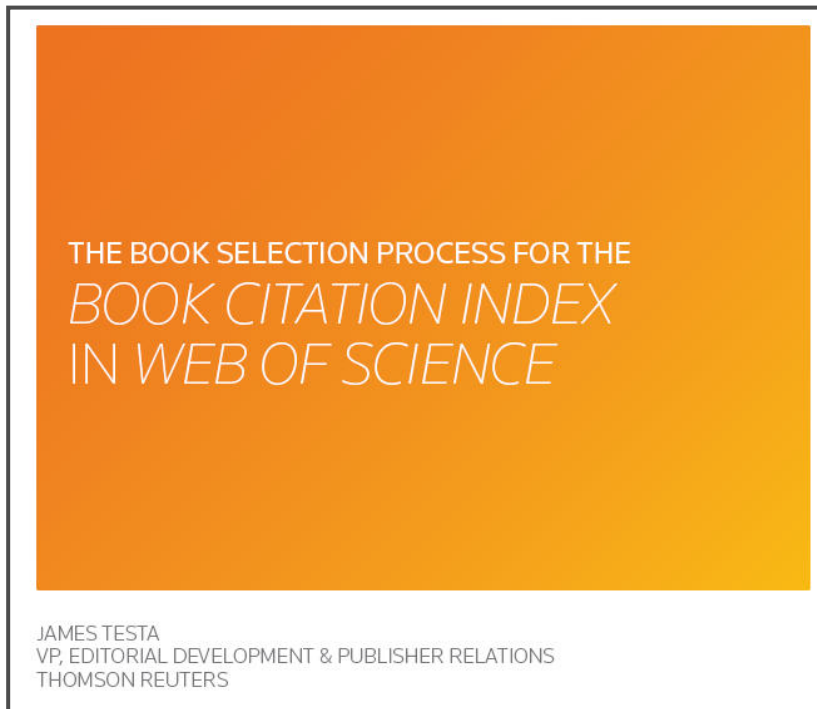
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