

Polish Science Community and Elsevier: Partners in facing challenges, broadening perspectives and breaking new grounds



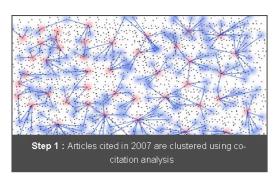


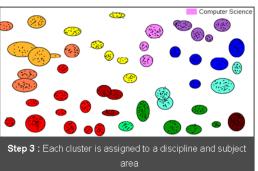
Methodology: building on the shoulders of giants

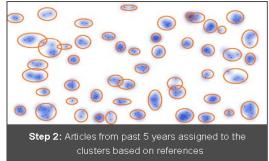
- 5 year slice of data (2005 2009)
- Article level classification (Co-Citation clustering by Small, 1973)
- Competency clustering (by Klavans & Boyack, 2008)
- Subject aggregation
- Identifying interdisciplinary

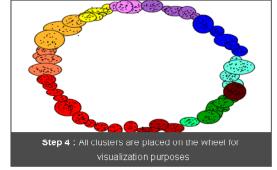
3 leadership criteria:

- Relative Article Share (RAS)
- Reference Leadership (RL)
- State of the Art (SotA)





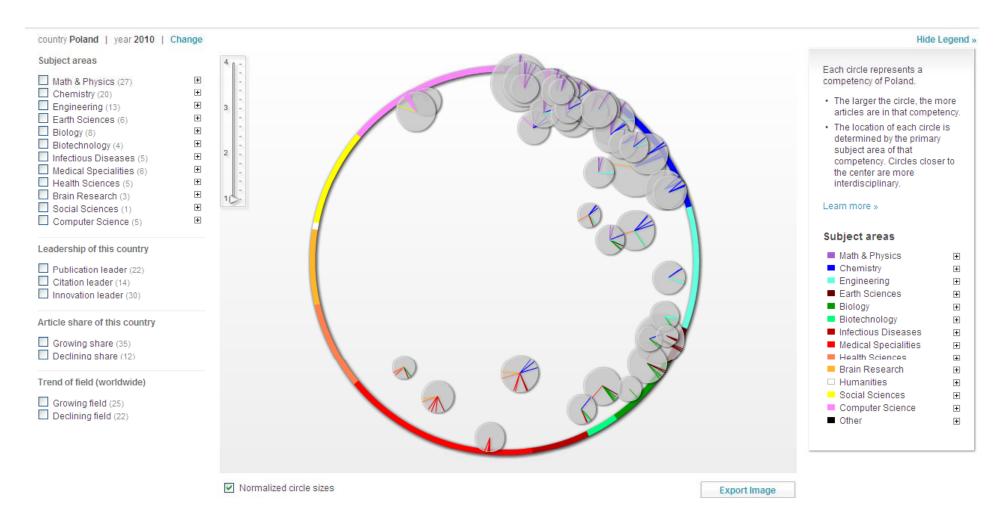








47 Polish Competencies







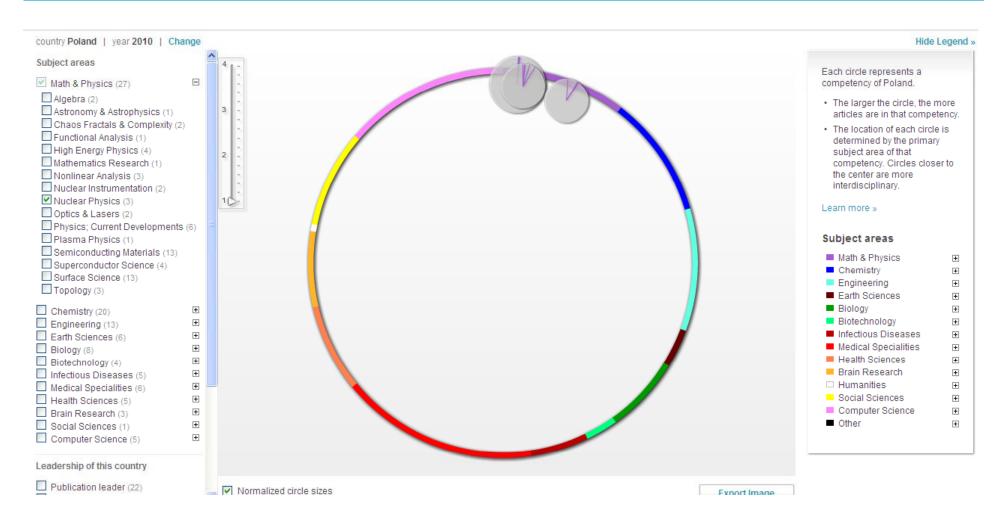
27 Polish Competencies in Maths and Physics







3 Polish Competencies in Nuclear Physics







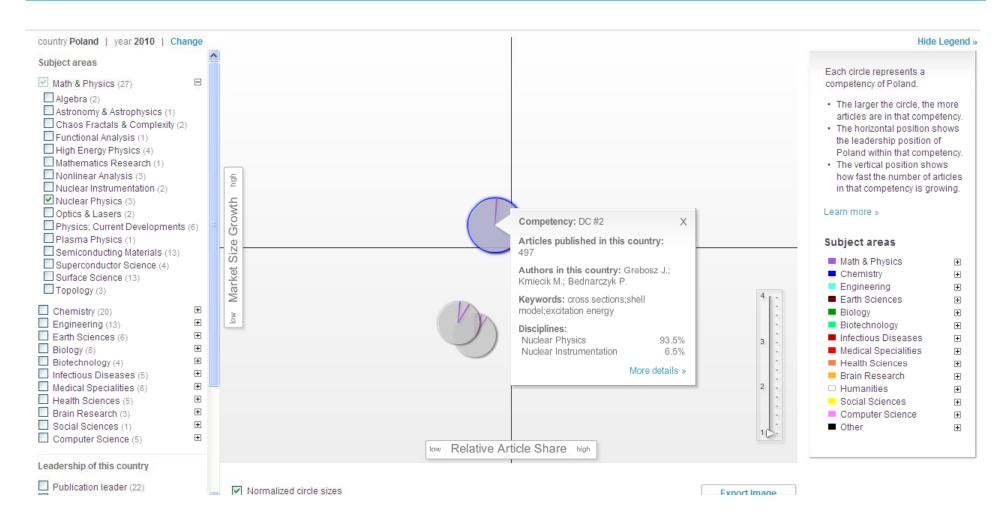
3 Polish Competencies in Nuclear Physics – Boston Matrix view







3 Polish Competencies in Nuclear Physics - details

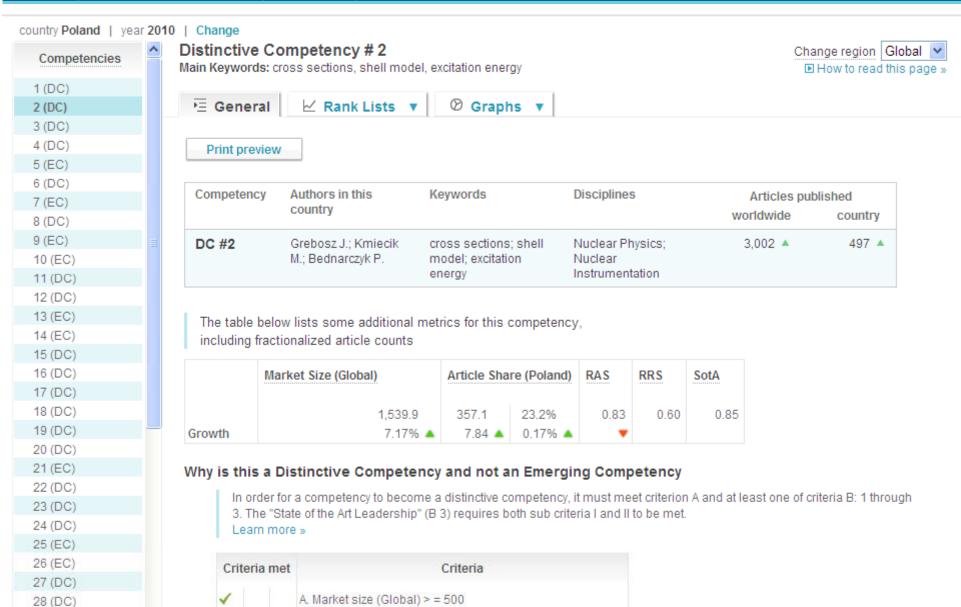






Explore the competency

29 (DC)



B. Leadership, must meet one of these three

Why is this distinctive competency?

Why is this a Distinctive Competency and not an Emerging Competency

In order for a competency to become a distinctive competency, it must meet criterion A and at least one of criteria B: 1 through 3. The "State of the Art Leadership" (B 3) requires both sub criteria I and II to be met.

Learn more »

Criteria met		met	Criteria				
✓			A. Market size (Global) > = 500				
✓			B. Leadership, must meet one of these three				
	X		1. Publication leadership (relative article share > 1.0)				
	X		2. Reference leadership (relative reference share > 1.0)				
	✓		3. State of the Art leadership, must meet both				
		✓	I. Relative article share > 0.8 and				
		✓	II. State-of-the-art value >= value of publication leader				

Poland articles

tal artiales	407	View list of orticles
actionalized articles	357.1	(0.3% of 122323 articles found for this country in the past 5 years)

Total articles 497 View list of articles

 Rank past 5 years
 2

 Rank past 2 years
 2

 Citation count
 879.4

Top authors from Poland

Name	Fractionalized articles					
Grebosz J.	35					
Kmiecik M.	27.1					
Bednarczyk P.	23.3					
Nazarewicz W.	20.3					
Pomorski K.	20.3					
Go to authors						

How to describe the competency?

Main Keywords

cross sections

shell model

excitation energy

angular momentum

projectile fragmentation

symmetry energy

fission barrier

nuclear matter

phase transition

heavy ion

molecular dynamics

deformation space

level scheme

neutron-rich nuclei

fission barriers

elastic scattering

physical Society

fragment separator

cross section

American physical

heaviest nuclei

pulse shape

exotic nuclei

superheavy nuclei

energy density

angular distributions

optical model

configuration mixing

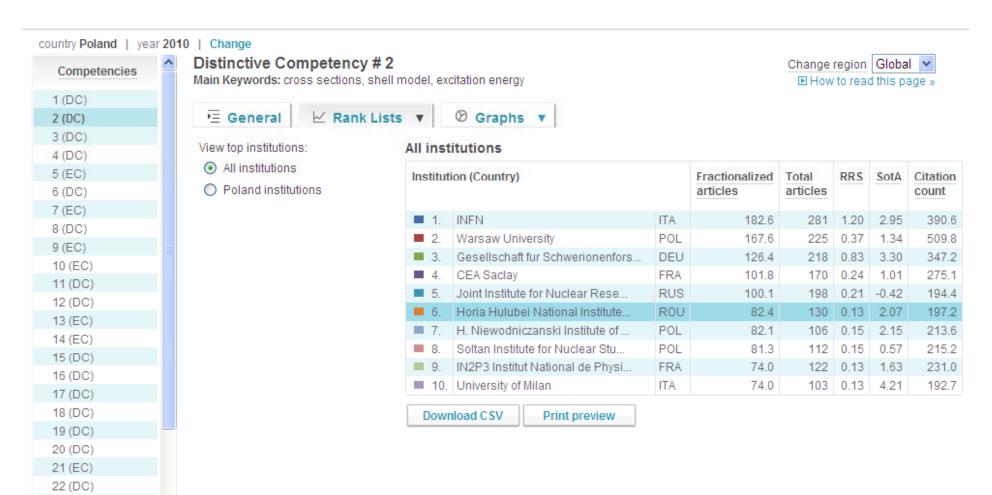
internal decay

shell-model calculations

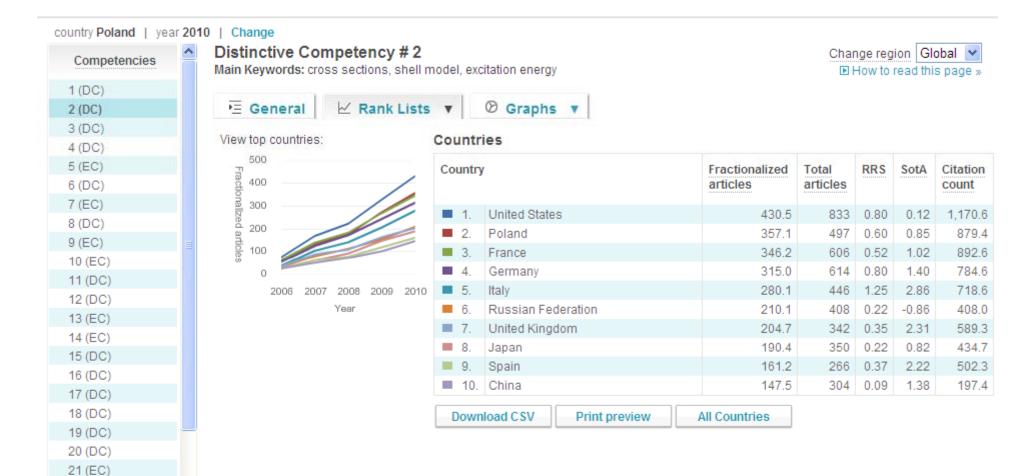
Only by keywords

Which institutions are leading in this area?

23 (DC) 24 (DC) 25 (EC) 26 (EC) 27 (DC) 28 (DC)



Which countries are leading in this area?



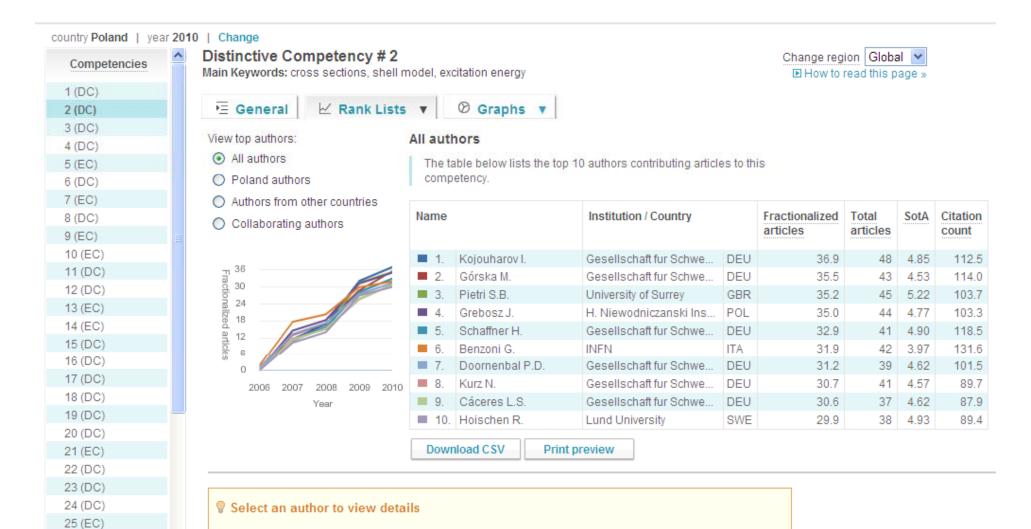
OIIIY DY NEYWOIUS



22 (DC) 23 (DC)



Who are the authors?



You can view details of an author here, by selecting the author in the table.



26 (EC) 27 (DC)



Users' key strategic challenges

Evaluate research and establish strengths

"Decision making will always be subjective, but we are trying to move to a more evidence-based model."

Recruitment and retention

"We need to put together exceptional research teams in order to solve new problems and get at the funding."

Competition and collaboration

"Often we need to find out for specific areas: how strong we are, who on campus is involved, and what is the scope of our collaboration network?"

Allocate scarce resources

"We need anything that helps us make - and defend - smarter decisions about allocating internal funding."





Countries



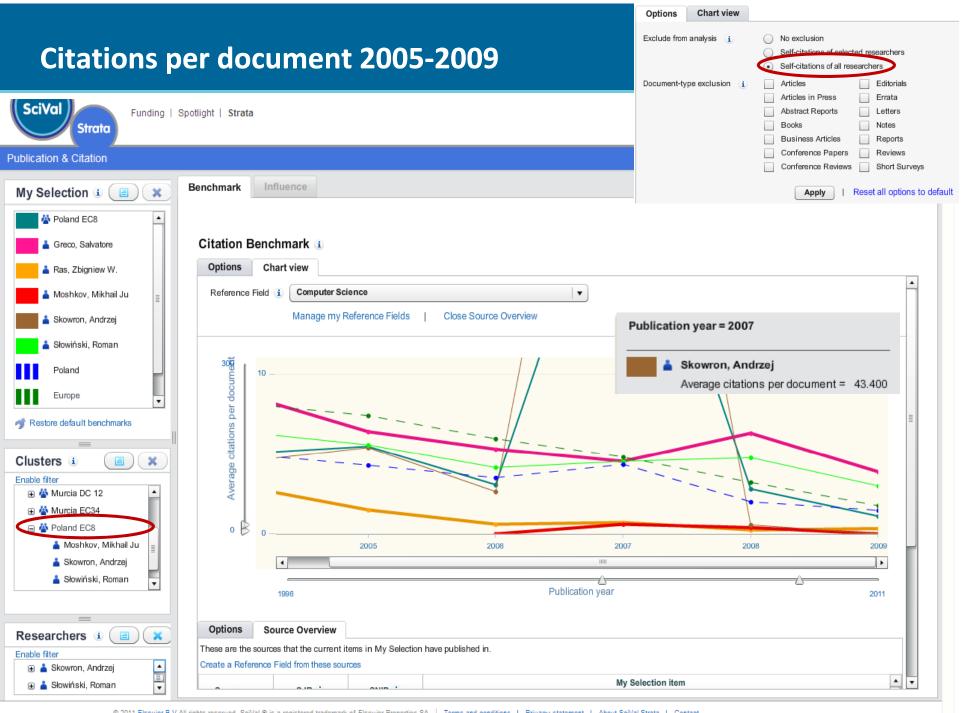




Institutions: sorted by Production, Growth and Innovation

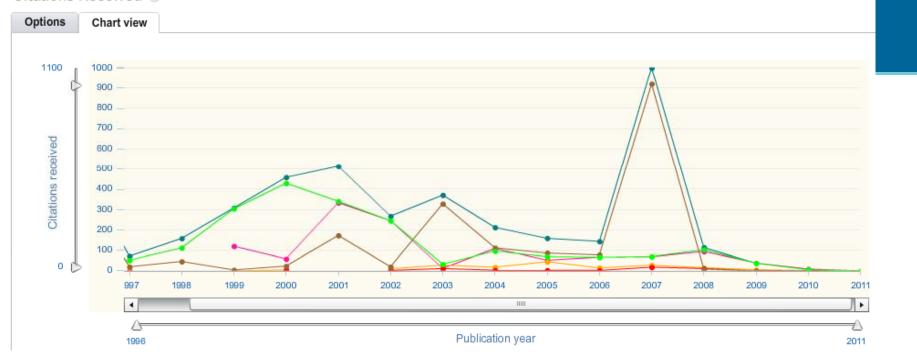
Institution	Articles ▼	Growth	Competency articles		Collabora	ation	Citation count	CPA	SotA	Top 5 rate
				Overall	National	International				
Polish Academy of Sciences	16,752	-1.12% ▼	12.01%	72.09%	40.03%	45.03%	57,232	3.42	-0.38	28
Jagiellonian University	7,908	2.69% 🔺	10.04%	56.96%	28.92%	39.00%	32,724	4.14	0.27	16
Warsaw University	5,966	-1.27% 🔻	21.50%	66.55%	36.68%	45.85%	25,853	4.33	-0.38	16
Warsaw University of Technology	5,238	0.57% 🔺	6.57%	47.56%	26.61%	28.45%	11,766	2.25	0.94	5
Wroclaw University of Technology	4,520	5.27% 🔺	8.90%	44.59%	20.93%	28.91%	8,960	1.98	0.83	6
Adam Mickiewicz University	3,975	5.70% 🔺	19.50%	52.17%	26.50%	34.03%	12,556	3.16	-1.44	10
Medical University of Lodz	3,642	3.46% 🔺	1.54%	42.09%	32.46%	14.99%	10,236	2.81	1.55	1
AGH University of Science and	3,625	9.52% 🔺	6.57%	47.15%	23.90%	30.87%	6,183	1.71	-0.04	5
University of Wrocaw	3,423	-0.77% 🔻	13.39%	59.19%	29.69%	36.66%	10,764	3.14	-2.13	4
Ludwik Rydygier Medical Univer	3,416	0.98% 🔺	6.08%	47.38%	24.88%	29.85%	8,739	2.56	0.26	2
University of Life Sciences in	591	22.00%	5.58%	36.33%	29.02%	11.15%	819	1.39	-0.36	0
Gdynia Maritime University	368	20.65% 🔺	0.81%	33.88%	30.49%	7.56%	287	0.78	1.10	0
University of Life Sciences in	554	19.78% 🔺	4.00%	47.72%	41.41%	9.71%	781	1.41	-1.28	0
Lublin University of Technology	553	18.42% 🔺	0.53%	47.48%	25.55%	26.68%	598	1.08	0.23	0
Cardinal Stefan Wyszynski Univ	301	11.07% 🔺	10.27%	83.96%	76.71%	30.67%	491	1.63	-1.71	1
Military University of Technol	1,102	10.30% 🔺	14.52%	53.84%	38.40%	27.30%	1,644	1.49	0.94	3
University of Podlasie	459	10.15% 🔺	7.62%	48.64%	37.22%	20.85%	824	1.80	-1.98	0
Agricultural University Krakow	753	9.86% 🔺	11.88%	48.00%	38.57%	18.24%	1,507	2.00	-0.66	3
National Institute of Cardiolo	478	9.66% 🔺	1.23%	58.32%	42.66%	25.62%	3,362	7.03	2.61	0
AGH University of Science and	3,625	9.52% 🔺	6.57%	47.15%	23.90%	30.87%	6,183	1.71	-0.04	5
International Institute of Mol	273	0.03% 🔺	0.00%	89.55%	57.60%	64.92%	1,883	5.90	3.14	0
Institute of Oncology, Warsaw	1,124	-1.73% 🔻	0.35%	60.81%	42.74%	32.53%	10,448	9.30	2.79	0
National Institute of Cardiolo	478	9.66% 🔺	1.23%	58.32%	42.66%	25.62%	3,362	7.03	2.61	0
Children's Memorial Health Ins	741	-5.79% 🔻	0.00%	55.43%	39.26%	25.04%	2,360	3.18	2.10	0
Centralny Szpital Kliniczny Wo	617	5.62% 🔺	1.03%	47.17%	43.56%	10.98%	2,499	4.05	2.09	0
Instytutu Centrum Zdrowia Matk	596	-9.01% 🔻	0.50%	56.85%	54.77%	7.72%	1,132	1.90	2.04	0
National Institute of Hygiene,	231	-13.42% ▼	0.00%	54.15%	39.22%	18.38%	823	3.56	1.83	0
Nofer Institute of Occupationa	445	1.02% 🔺	2.76%	56.20%	39.28%	36.93%	2,874	6.46	1.81	1
Pomeranian Medical University	1,466	-3.11% ▼	1.11%	37.61%	25.61%	18.28%	4,429	3.02	1.78	0
Medical University of Warsaw	3,123	2.02% 🔺	1.66%	51.68%	40.45%	18.28%	15,390	4.93	1.77	1

SciVal Strata



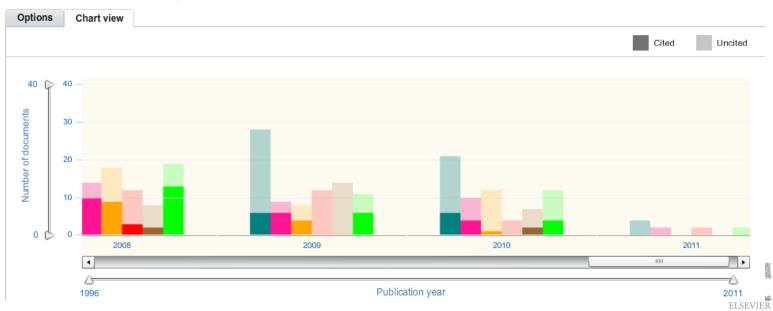


Citations Received i





Cited / Uncited Documents (1)





SciVal Strata – Addressing the following challenges

Establish excellence in track records

- to secure and allocate funding of various types from both internal and external sources
- showcasing your performance to secure a position

Establish high-performing teams

 through the objective assessment of researchers for recruitment, retention, promotion and collaboration

Regular evaluations

annual personal development targets; more standardized evaluations;
 peer review according to established standards

Scenario modeling

- optimize the value of structural reorganizations, establishing formal collaborations, and of recruiting
- be able to demonstrate why this decision is the right one





SciVal Experts

SciVal Experts - Specifics

- Expert Profiling: web solution that generates fingerprints of researcher's expertise (profiles) for each individual at your institution
- Based on unstructured text (documents),
 making use of natural language processing
- Researcher profiles are pre-populated with publication data from Scopus
- Additional data can be added for a complete picture (like institutional repository)
- QA services for continuous high quality data



How to identify an expert who has experience in a certain area?

University of Michigan
Medical School

Home > Find the Expert

Find the Expert

Find the Expert

By Concept By Last Name By Full Text

Alts page to adjust the source of the information and/or the search terms. Selecting Community vs. Internal allows you to choose results from just this immunity, and adjusting "Experts based on..." allows you to choose from publications or other data sources. The additional concepts allow you to narrow these results.

26 Experts found

Internal	Community						
	Pub	olications	Grants PubMed	d H-Index 🕐			
★ Koch, Alisa E Int Med-Rheumatology, Cancer Center	183	htatlut	6	50			
Ike, Robert W Int Med-Rheumatology	40	ılııı.lıll	0	13			
Myers, Jeffrey L Pathology Department	226	limbli.	2	37			
Schnitzer, Bertram Pathology Department, Cancer Center	139	Ilı	0	22			
Somers, Emily Catherine Int Med-Rheumatology	22	.dd.ldd	0	11			
Carlos, Ruth C Radiology, Cancer Center	81	dutı.	2	17			
Chang, Alfred E General Surgery Section, Cancer Center	245	analu.	8	48			
Clauw, Daniel J	158	antidh	8	29			

Experts based on...







What expertise do I have in my organization / country?







THANK YOU!

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