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Украинские исследования в WEB OF KNOWLEGDE

Малгожата Красовска, Менеджер по развитию бизнеса, Thomson Reuters
Кшиштоф Шимански, Региональный менеджер, Thomson Reuters

Киев, Украина, 05/2011



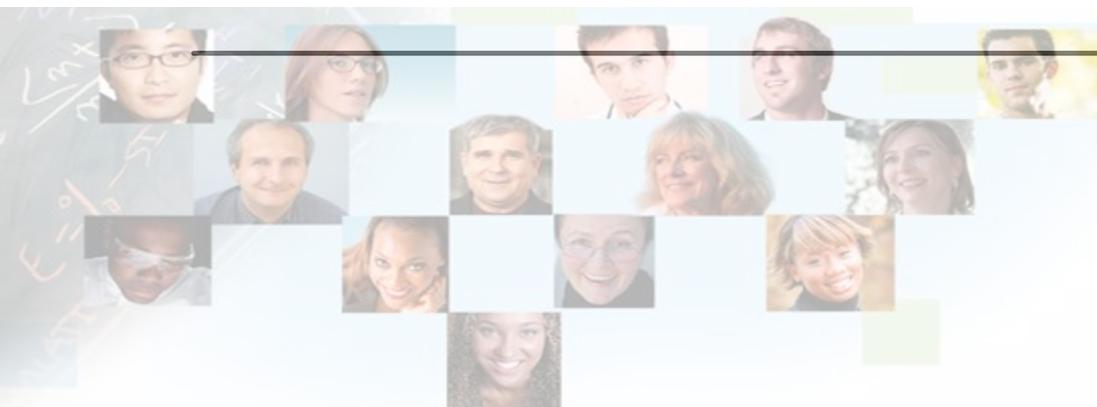
ISI Web of
KNOWLEDGE
Transforming Research

Как проводится оценка результатов научной деятельности?

- Примеры методов:
 - Количество и объём грантов
 - Количество наград (например, Нобелевских премий)
 - Количество патентов
 - Peer evaluation
 - **Подсчёт публикационной активности**
 - **Подсчёт количества цитирования**
 - **Библиометрические показатели, нормализованные по предметным областям**
- Peer Evaluation
 - Дорого, не лишено субъективности, существенные временные затраты



ISI WEB OF KNOWLEDGE И ISI WEB OF SCIENCE



ISI Web of Knowledge

- 20 миллионов индивидуальных пользователей
- 150,000 пользователей каждый день
- > 3,500 институций
- > 23,000 журналов
- > 90 миллионов записей

ISI Web of Knowledge: основная платформа для научных исследований

Платформа включает в себя:

- **Web of Science**
(с трудами конференций)
- **Journal Citation Reports**
- И другие базы данных

Встроенные ресурсы Web:

- **EndNote Web**
- **ResearcherID**

Более 350 000 Публикаций Украинских Ученых В Web Of Knowledge

статьи, обзорные статьи, письма, записки, краткие отчеты, патенты...

Food Science and Technology
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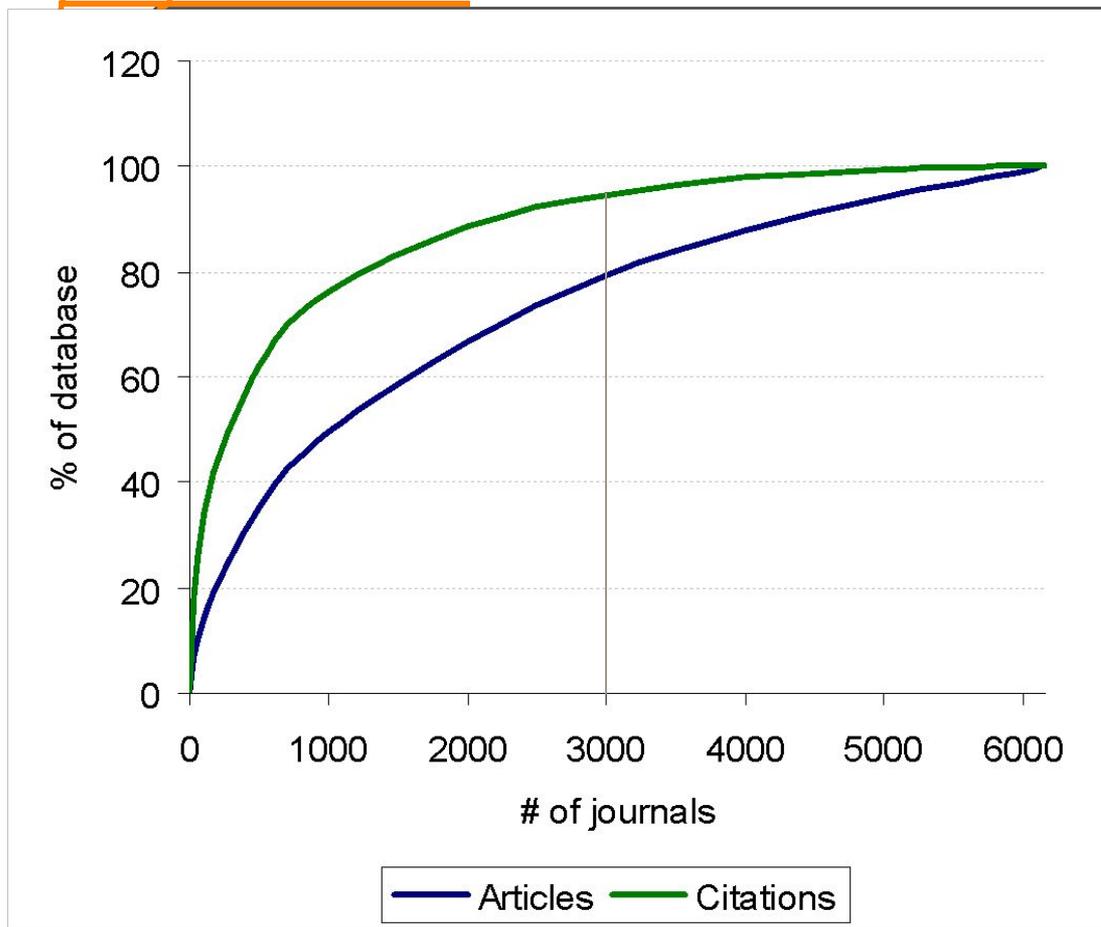
BIOSIS Previews®

5000+ Украинских Публикаций
ежегодно в Web of Science

Политика отбора журналов в Web of Science

- Для чего мы отбираем журналы?

Относительно небольшая группа журналов публикует абсолютное большинство значимых научных результатов



Всего 3000 журналов покрывает 80% статей...

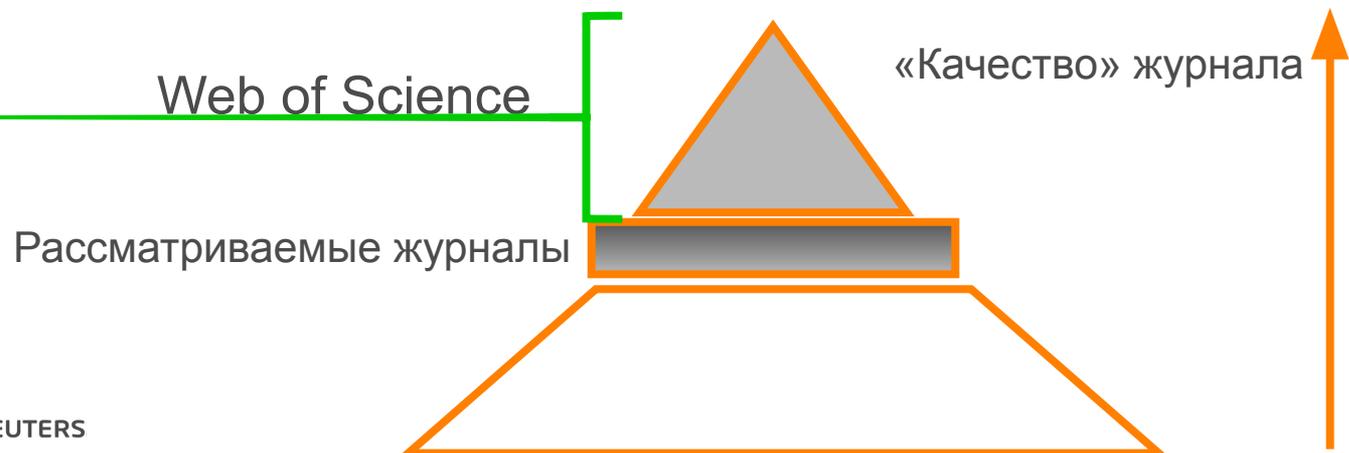
...но, что ещё более важно – 92% того, что цитируется

В 7,621 журнале опубликовано 814,967 статей, получивших 20,834,641 ссылок
4% журналов (300) публикуют 30% статей (239,206)
4% журналов (300) получают 51% ссылок (10,681,596)



Политика отбора журналов в Web of Science

- Ежегодно рассматривается ~2000 журналов
 - 10-12% принимается
- Эксперты Thomson Reuters
 - Профессионалы информационного бизнеса
 - Библиотекари
 - Эксперты в конкретной предметной области



ПРОЦЕСС ОТБОРА ЖУРНАЛОВ В THOMSON REUTERS

- ОДНАКО ПОНЯТИЕ «ОБШИРНЫЙ» НЕ ЗНАЧИТ «ВСЕОБЪЕМЛЮЩИЙ».
- ЗАЧЕМ НУЖЕН ОТБОР?
- Процесс оценки:
 - Базовые стандарты для журналов: своевременность издания журнала, соблюдение журналом международной издательской конвенции
 - международный состав авторов
 - Анализ цитирования
 - Содержание журнала



ИЗДАТЕЛЬСКИЕ СТАНДАРТЫ—ЧЕТЫРЕ ОСНОВНЫХ ЭЛЕМЕНТА

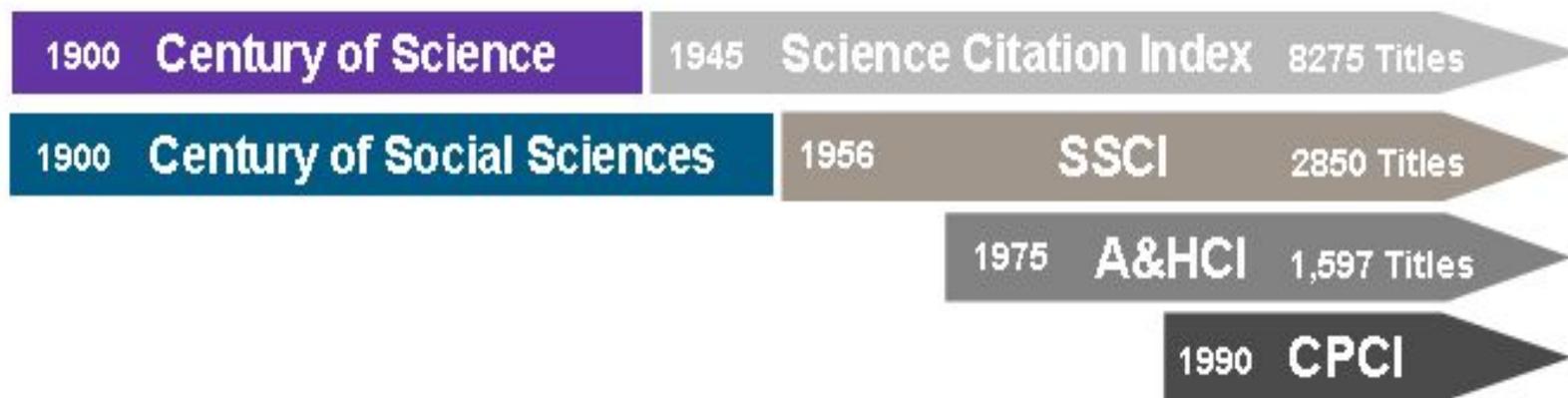
- Своевременность публикации *
- Международные издательские законы
- Полный текст или библиографическая информация на английском языке
- Экспертная оценка (peer review)

Для чего нужен Web of Science?

- Тематическое информирование
- Справочно-библиографическое обслуживание
- Формирование собственных баз данных
- Поисковый интерфейс для пользователей любого уровня (ученые, аспиранты, студенты)
- Аналитические инструменты - библиометрические исследования



Журналы В Web Of Science



- 11, 927 журналов по всем научным областям в 250 отдельных категориях (04.2011)
- Более 12 000 конференций ежегодно (120 000 уже в индексе)
- 46 миллионов уникальных записей (самая большая база цитат)
- данные высокого качества и надёжности

Некоторые организации, использующие наши данные для оценки

- США: National Institutes of Health
- США: National Science Foundation (с 1974)
- Великобритания: Office of Science & Technology; Higher Education Funding Council
- Евросоюз: DGXII (Research Directorate)
- Австралия: Академия Наук, правительственная лаборатория CSIRO
- Канада: NSERC, FRSQ (Quebec), Alberta Research Council
- Франция: Министерство Науки, OST - Париж, CNRS
- Германия: Общество Макса Планка, правительственные лаборатории, DKFZ, MDC
- Япония: Национальный институт Информатики, Министерство Образования, Министерство Экономики, Торговли и Промышленности
- Китай: Академия Наук
- Россия: РАН, СПбГУ, МИСиС
- Times Higher Education

Журналы из нашего региона в *Web of Science* в Апреле 2011 (+ число журналов с Impact Factor)

- Украина 18 (SE: 6)
- Россия 161 (SE:123, SSE: 6)
- Польша 143 (SE:103, SSE: 4)
- Турция 74 (SE:32, SSE: 7)
- Хорватия 60 (SE:24, SSE:12)
- Румыния 58 (SE:33, SSE: 3)
- Чешская Республика 57 (SE:31, SSE:5)
- Венгрия 40 (SE:21, SSE:3)
- Словакия 25 (SE:16, SSE: 3);Словения 25 (SE:7, SSE: 6)
- Сербия 19 (SE:9, SSE: 1)
- Болгария 10 (SE: 8)



Украинские Журналы в *Web of Science* (Апрель 2011)...

- Actual Problems of Economics
- Condensed Matter Physics (*)
- Journal of Mathematical Physics Analysis Geometry
- Journal of Superhard Materials
- Journal of Water Chemistry and Technology
- Kinematics and Physics of Celestial Bodies
- Low temperature physics
- Materials science (*)
- Metallofizika i noveishie tekhnologii (*)
- Neurophysiology

- (*) with Impact Factor



Украинские Журналы в *Web of Science* (Апрель 2011)

- Nonlinear Oscillations
- Powder metallurgy and metal ceramics (*)
- Problems of atomic science and technology (*)
- Strength of materials
- Symmetry integrability and geometry-methods and applications (*)
- Theoretical and experimental chemistry
- Ukrainian journal of physical optics
- Ukrainian mathematical journal

- (*) with Impact Factor



Страны Сотрудники Украины--Совместное Исследования в *Web of Science*

- 2000-2011: 63,000+ Публикации

GERMANY	5176
USA	4620
RUSSIA	4324
POLAND	3452
FRANCE	2349
ENGLAND	1690
ITALY	1387
JAPAN	1091
SPAIN	1025

SWEDEN	755
NETHERLANDS	702
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CANADA	647
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Author(s): Hudes G, Carducci M, Tomczak P, et al.
Source: [NEW ENGLAND JOURNAL OF MEDICINE](#) Volume: 356 Issue: 22 Pages: 2271-2281 Published: MAY 31 2007
Times Cited: 827

Full Text

2. Title: [The Belle detector](#)
Author(s): Abashian A, Abe K, Abe R, et al.
Source: [NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTRO EQUIPMENT](#) Volume: 479 Issue: 1 Pages: 117-232 Published: FEB 21 2002
Times Cited: 642

Full Text

3. Title: [G\(Ep\)/G\(Mp\) ratio by polarization transfer in \$\(e, e'p\)\$](#)
Author(s): Jones MK, Aniol KA, Baker FT, et al.
Source: [PHYSICAL REVIEW LETTERS](#) Volume: 84 Issue: 7 Pages: 1398-1402 Published: FEB 14 2000
Times Cited: 526

Full Text

4. Title: [Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes](#)
Author(s): Klionsky DJ, Abeliovich H, Agostinis P, et al.
Source: [AUTOPHAGY](#) Volume: 4 Issue: 2 Pages: 151-175 Published: FEB 16 2008
Times Cited: 456

Order Full Text

5. Title: [Unconventional integer quantum Hall effect in graphene](#)
Author(s): Gusynin VP, Sharapov SG
Source: [PHYSICAL REVIEW LETTERS](#) Volume: 95 Issue: 14 Article Number: 146801 Published: SEP 30 2005
Times Cited: 120

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Transport of Dirac quasiparticles in graphene: Hall and optical conductivities

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more options

Author(s): Gusynin VP (Gusynin, V. P.), Sharapov SG (Sharapov, S. G.)

Source: PHYSICAL REVIEW B **Volume:** 73 **Issue:** 24 **Article Number:** 245411 **Published:** JUN 2006

Times Cited: 119 **References:** 67 Citation Map

Abstract: The analytical expressions for both diagonal and off-diagonal ac and dc conductivities of graphene placed in an external magnetic field are derived. These conductivities exhibit rather unusual behavior as functions of frequency, chemical potential, and applied field which is caused by the fact that the quasiparticle excitations in graphene are Dirac-like. One of the most striking effects observed in graphene is the odd integer quantum Hall effect. We argue that it is caused by the anomalous properties of the Dirac quasiparticles from the lowest Landau level. Other quantities such as Hall angle and Nernst signal also exhibit rather unusual behavior, in particular when there is an excitonic gap in the spectrum of the Dirac quasiparticle excitations.

Document Type: Article

Language: English

KeyWords Plus: 2-DIMENSIONAL GRAPHITE SYSTEM; QUANTIZING MAGNETIC-FIELD; FLAVOR SYMMETRY-BREAKING; ELECTRON-GAS; LANDAU-LEVELS; BERRYS PHASE; OSCILLATIONS; COEFFICIENTS; SPECTRUM; STATES

Reprint Address: Gusynin, VP (reprint author), Bogolyubov Inst Theoret Phys, Metrologicheskaya St 14-B, UA-03143 Kiev, Ukraine

Addresses:

1. Bogolyubov Inst Theoret Phys, UA-03143 Kiev, Ukraine
2. McMaster Univ, Dept Phys & Astron, Hamilton, ON L8S 4M1 Canada

E-mail Addresses: vgusynin@bitp.kiev.ua, sharapov@bitp.kiev.ua

Publisher: AMERICAN PHYSICAL SOC, ONE PHYSICS ELLIPSE, COLLEGE PK, MD 20740-3844 USA

Subject Category: Physics, Condensed Matter

IDS Number: 058XC

ISSN: 1098-0121

проиндексированы все авторы и адреса авторов, информация о финансировании, грантах, и т. д

Citing Articles

Title: [Transport of Dirac quasiparticles in graphene: Hall and optical conductivities](#)

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[nonreciprocity and gyrotropy of graphene](#)

Caloz C

SICS LETTERS Volume: 98 Issue: 2 Article Number: 021911 Published: JAN 10 2011

[ization of graphene in a magnetic field](#)

PK, Gusynin VP

VIEW B Volume: 83 Issue: 7 Article Number: 075422 Published: FEB 22 2011

[heory of graphene](#)

ICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES

Published: DEC 13 2010

[effect in relativistic and nonrelativistic two-dimensional electron gases: A comparative study](#)

Sharapov SG, Loktev VM

Source: **PHYSICAL REVIEW B** Volume: 82 Issue: 7 Article Number: 075316 Published: AUG 16 2010



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Citing Articles

Title: [Transport of Dirac quasiparticles in graphene: Hall and optical conductivities](#)

Author(s): Gusynin, VP

Source: **PHYSICAL REVIEW B** Volume: 73 Issue: 24 Article Number: 245411 Published: JUN 2006

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[relativistic two-dimensional electron gases: A comparative study](#)

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Институты и университеты где работают эти авторы (основные 21)

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Количество статей

Процент от общего



Где публикуются статьи украинских ученых?

- METALLOFIZIKA I NOVEISHIE TEKHNologii
- INTERNATIONAL APPLIED MECHANICS
- LOW TEMPERATURE PHYSICS
- PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE)
- MATERIALS SCIENCE
- PHYSICAL REVIEW B
- POWDER METALLURGY AND METAL CERAMICS
- PROBLEMS OF ATOMIC SCIENCE AND TECHNOLOGY
- JOURNAL OF ALLOYS AND COMPOUNDS
- PHYSICS OF THE SOLID STATE
- RUSSIAN JOURNAL OF GENERAL CHEMISTRY
- ACTUAL PROBLEMS OF ECONOMICS
- JOURNAL OF HYPERTENSION

2000-2011, 18% Публикации



Украинское сотрудничество с Германией

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PHYSICS, MATHEMATICAL (192)

NUCLEAR SCIENCE & TECHNOLOGY (189)

PHYSICS, FLUIDS & PLASMAS (180)

OPTICS (184)

CHEMISTRY, MULTIDISCIPLINARY (157)

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CRYSTALLOGRAPHY (126)

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PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS (43)

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(42)

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS (38)

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JOURNAL OF SOLID STATE CHEMISTRY (32)



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- ARTICLE (3,980)
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- 22ND INTERNATIONAL CONFERENCE ON LOW TEMPERATURE PHYSICS (10)
- 8TH INTERNATIONAL CONFERENCE ON MATERIALS AND MECHANISMS OF SUPERCONDUCTIVITY AND HIGH TEMPERATURE SUPERCONDUCTORS (10)
- INTERNATIONAL SCIENTIFIC WORKSHOP ON OXIDE MATERIALS FOR ELECTRONIC ENGINEERING FABRICATION, PROPERTIES AND APPLICATIONS (9)
- 5TH EUROPEAN CONFERENCE ON APPLIED SUPERCONDUCTIVITY (EUCAS 2001) (7)
- 13TH CZECH AND SLOVAK CONFERENCE ON MAGNETISM (CSMAG'07) (6)
- GERMAN-UKRANIAN SYMPOSIUM ON NANOSCIENCE AND NANOTECHNOLOGY (6)
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- 5TH INTERNATIONAL CONFERENCE ON DIFFUSION IN MATERIALS (5)
- 8TH EUROPHYSICAL CONFERENCE ON DEFECTS IN INSULATING MATERIALS (EURODIM98) (5)
- JOINT EUROPEAN MAGNETIC SYMPOSIA (JEMS 01) (5)
- SYMPOSIUM ON ADVANCED MULTIFUNCTIONAL NANOCARBON MATERIALS AND NANOSYSTEMS HELD AT THE E-MRS SPRING MEETING (5)



Основные Области Украинской Науки

Field	Field	Citations per paper	Citations Per Paper
PHYSICS	PHYSICS	8.44	4.30
CHEMISTRY	CHEMISTRY	10.66	4.18
MATERIALS SCIENCE	MATERIALS SCIENCE	6.76	2.03
ENGINEERING	ENGINEERING	4.56	3.09
SPACE SCIENCE	SPACE SCIENCE	13.92	8.31
BIOLOGY & BIOCHEMISTRY	BIOLOGY & BIOCHEMISTRY	16.10	9.44
CLINICAL MEDICINE	CLINICAL MEDICINE	12.22	9.05
MATHEMATICS	MATHEMATICS	3.26	1.85
GEOSCIENCES	GEOSCIENCES	9.12	4.21
PLANT & ANIMAL SCIENCE	PLANT & ANIMAL SCIENCE	7.25	4.24
MOLECULAR BIOLOGY & GENETICS	MOLECULAR BIOLOGY & GENETICS	23.79	5.20
ENVIRONMENT/ECOLOGY		278	1,801
NEUROSCIENCE & BEHAVIOR		377	1,715
MICROBIOLOGY		195	1,161

Наиболее цитируемые статьи

1. Title: Temsirolimus, interferon alfa, or both for advanced renal-cell carcinoma
Author(s): Hudes G, Carducci M, Tomczak P, et al.
Source: NEW ENGLAND JOURNAL OF MEDICINE Volume: 356 Issue: 22 Pages: 2271-2281 Published: MAY 31 2007
Times Cited: 827
 Full Text
2. Title: The Belle detector
Author(s): Abashian A, Abe K, Abe R, et al.
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 479 Issue: 1 Pages: 117-232 Published: FEB 21 2002
Times Cited: 642
 Full Text
3. Title: G(Ep)/G(Mp) ratio by polarization transfer in $(e, e'p)$
Author(s): Jones MK, Aniol KA, Baker FT, et al.
Source: PHYSICAL REVIEW LETTERS Volume: 84 Issue: 7 Pages: 1398-1402 Published: FEB 14 2000
Times Cited: 526
 Full Text
4. Title: Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes
Author(s): Klionsky DJ, Abeliovich H, Agostinis P, et al.
Source: AUTOPHAGY Volume: 4 Issue: 2 Pages: 151-175 Published: FEB 16 2008
Times Cited: 456
 Order Full Text
5. Title: Unconventional integer quantum Hall effect in graphene
Author(s): Gusynin VP, Sharapov SG
Source: PHYSICAL REVIEW LETTERS Volume: 95 Issue: 14 Article Number: 146801 Published: SEP 30 2005
Times Cited: 438
 Full Text
6. Title: Measurement of G(Ep)/G(Mp) in $(e, e'p)$ to Q(2)=5.6 GeV2
Author(s): Gayou O, Aniol KA, Averett T, et al.
Source: PHYSICAL REVIEW LETTERS Volume: 88 Issue: 9 Article Number: 092301 Published: MAR 4 2002
Times Cited: 415
 Full Text

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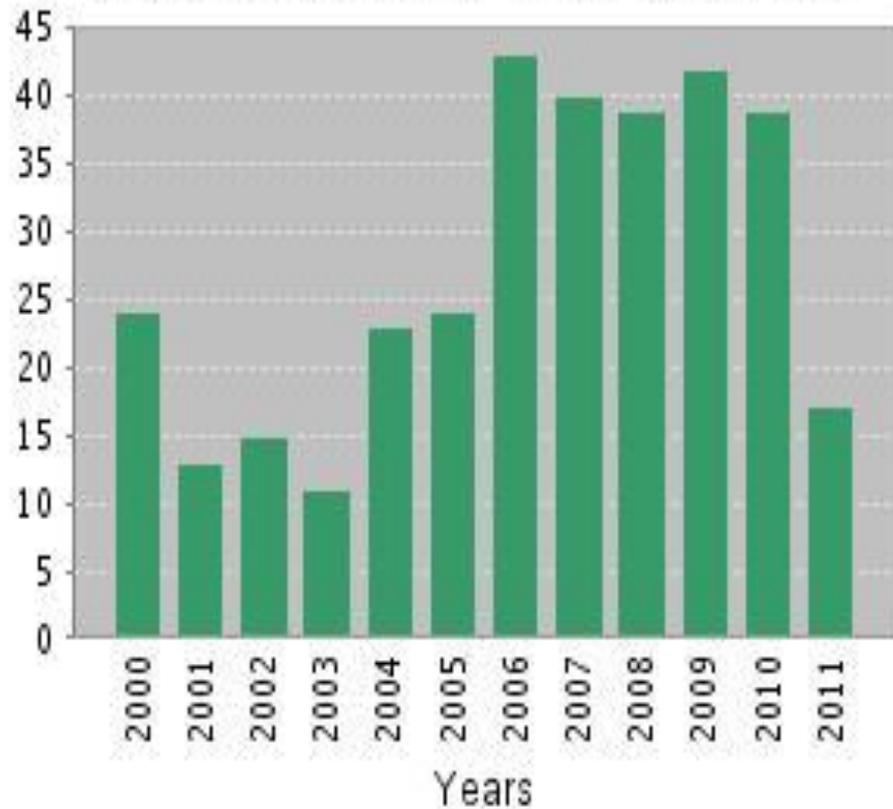
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Доклад о Публикациях и цитированиях

Published Items in Each Year



Citations in Each Year



Доклад О Цитированиях: Анализ Результатов

- UKRAINE (303)
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- RUSSIA (79)
- GERMANY (68)
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- SPAIN (51)
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- AUSTRIA (25)
- AUSTRALIA (24)
- CANADA (24)
- JAPAN (24)
- ITALY (23)
- ENGLAND (22)
- CZECH REPUBLIC (20)
- EGYPT (20)
- BRAZIL (17)
- MEXICO (17)
- SOUTH KOREA (15)

- ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE (47)
- JOURNAL OF PHYSICAL CHEMISTRY A (45)
- JOURNAL OF PHYSICAL CHEMISTRY B (42)
- TETRAHEDRON (35)
- KHIMIYA GETEROTSIKLICHESKIKH SOEDINENII (31)
- RUSSIAN JOURNAL OF ORGANIC CHEMISTRY (30)
- PHYSICAL CHEMISTRY CHEMICAL PHYSICS (24)
- JOURNAL OF ORGANIC CHEMISTRY (23)
- SYNTHESIS-STUTTGART (22)
- CHEMICAL PHYSICS LETTERS (20)
- JOURNAL OF HETEROCYCLIC CHEMISTRY (20)
- TETRAHEDRON LETTERS (20)
- JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM (18)
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- JOURNAL OF THE AMERICAN CHEMICAL SOCIETY (16)

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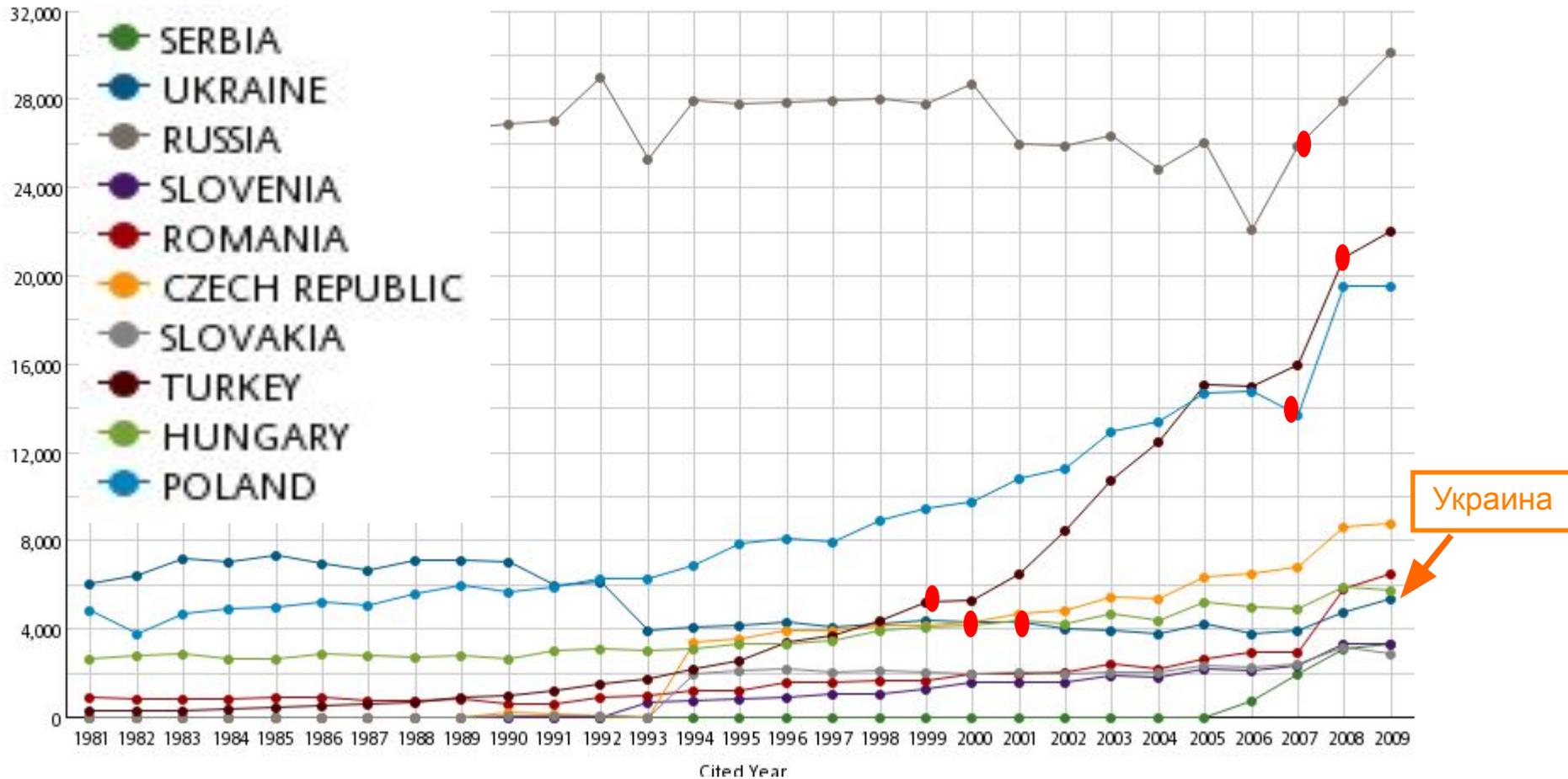
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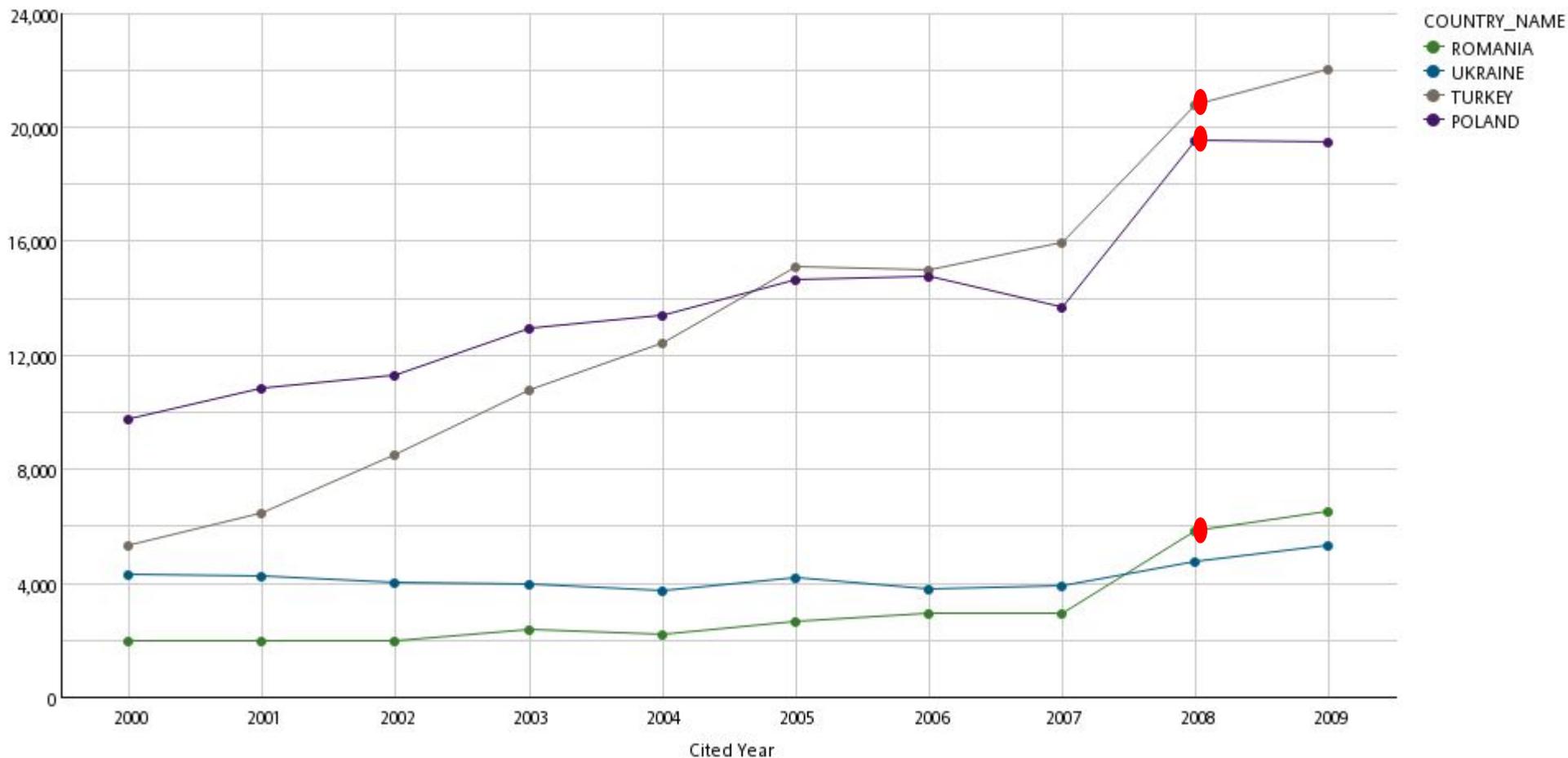
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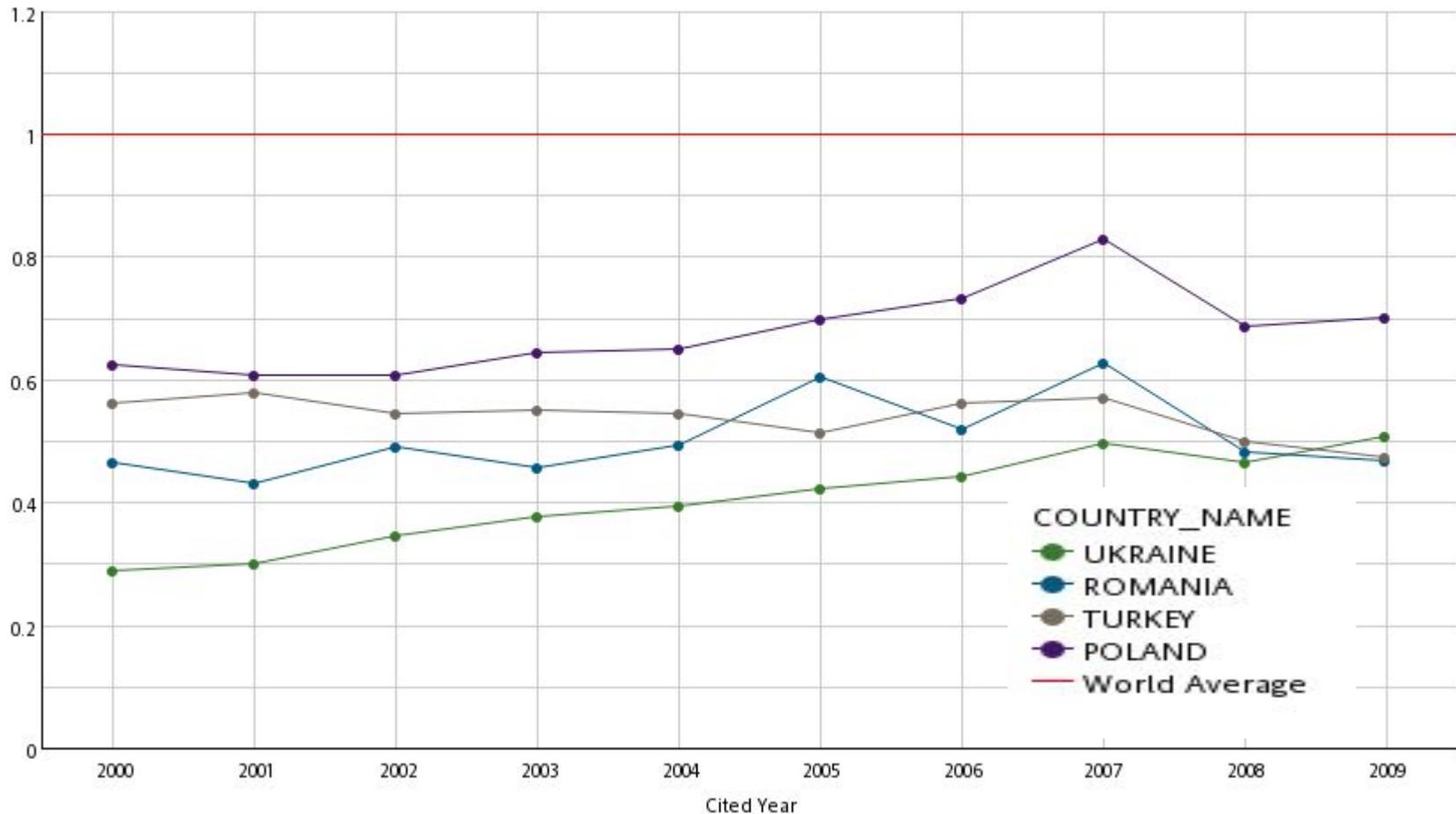
Научная производительность в нашем регионе: Польша, Украина, Турция, Румыния (2000-2009)

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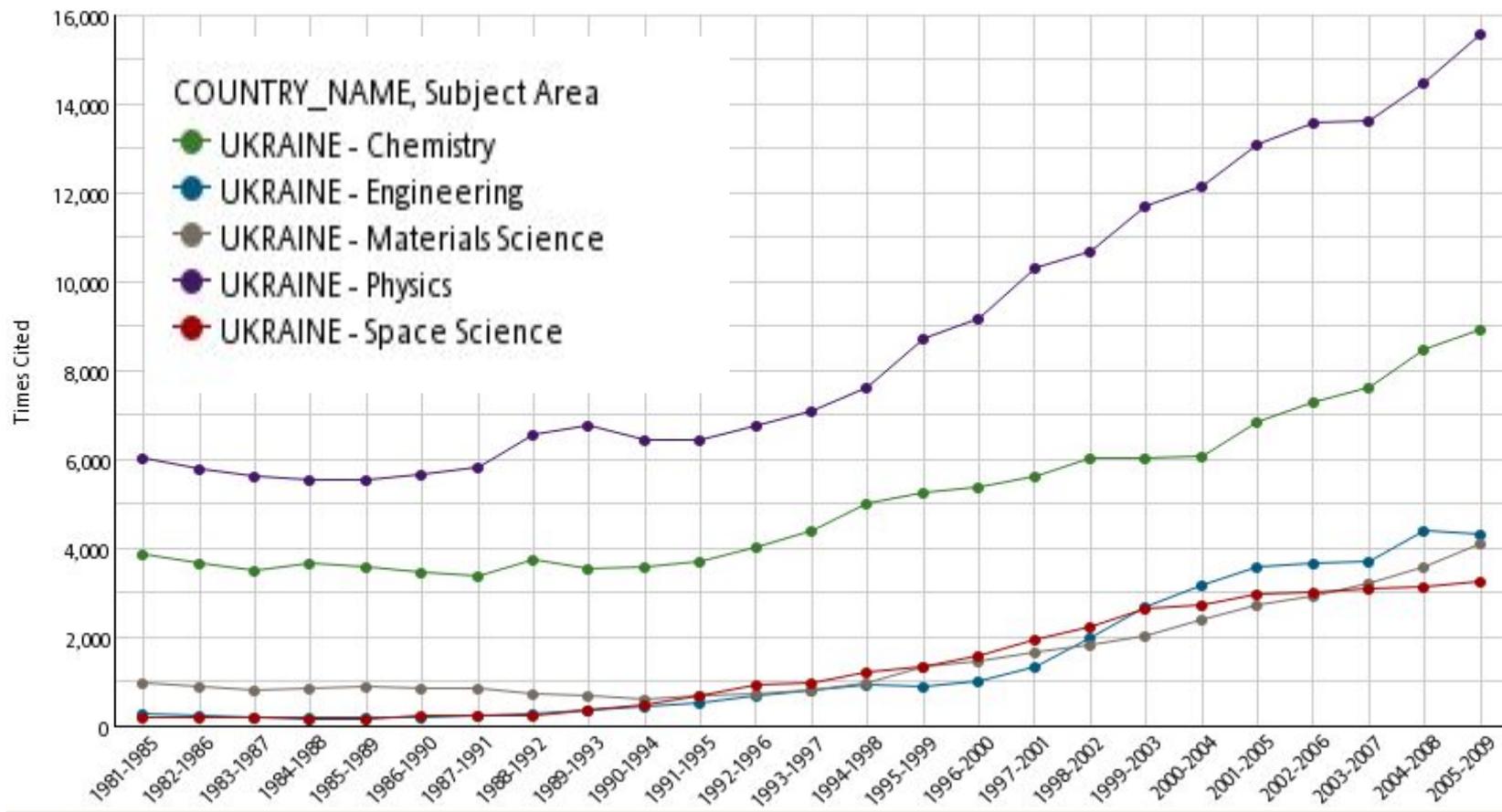
Сравнение влияния Польши, Украины, Турции, Румынии (2000-2009)

Impact Relative To World 2000-2009



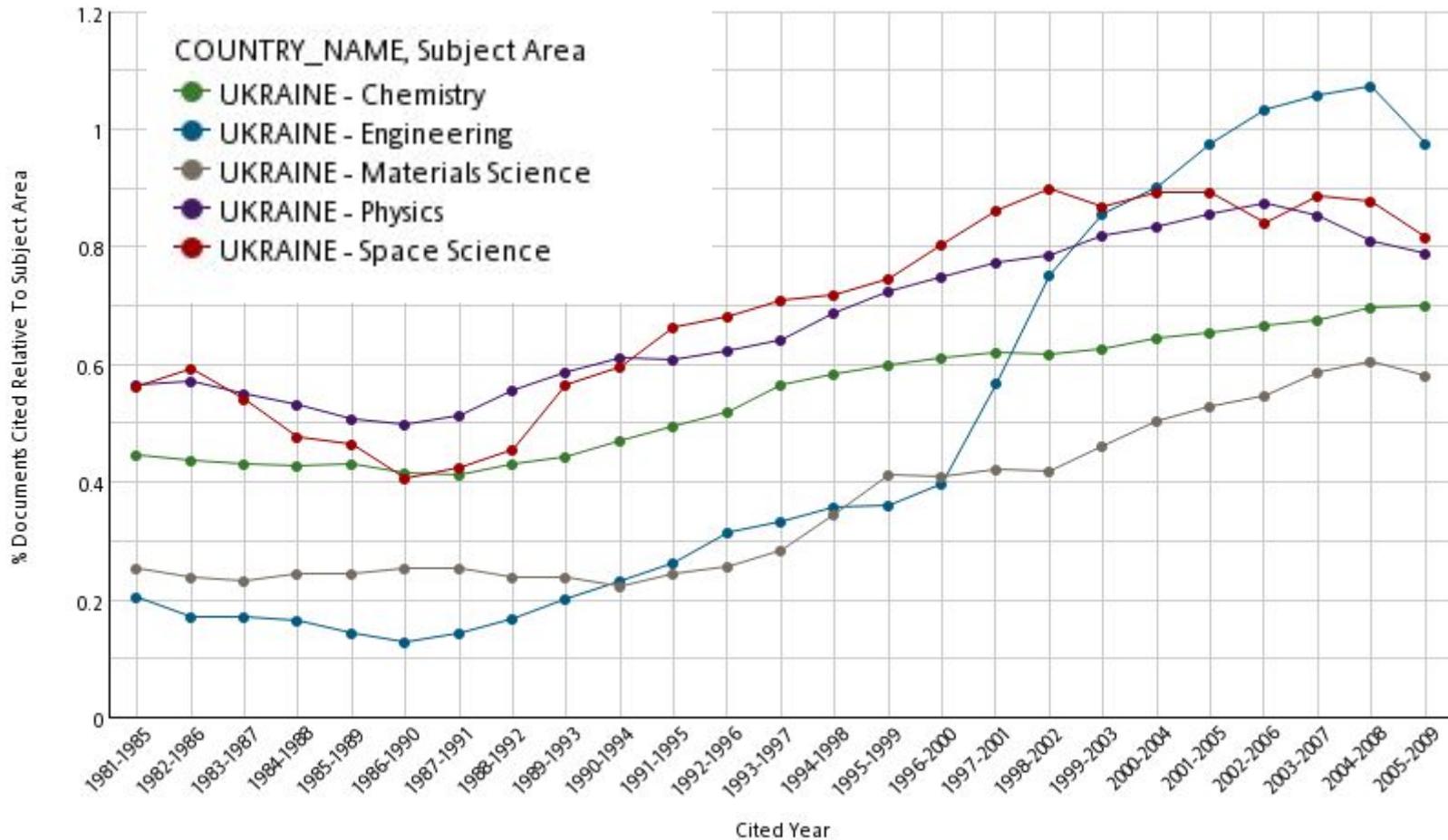
Цитирования к Основным Областям Украинской Науки

Times Cited 5 Year Trends



Сравнение с мировыми средними

% Documents Cited Relative To Subject Area 5 Year Trends



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Абсолютные и относительные показатели

- Если генетики получили в сумме 5000 ссылок – как обстоят дела с генетикой в институте?

Или

- Если статья была процитирована 20 раз – это хорошая статья?

Fields	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	All Years
All Fields	18.50	17.38	16.08	14.29	12.62	10.32	7.73	5.44	2.78	0.73	0.11	9.99
Agricultural Sciences	12.98	11.90	11.06	10.23	8.96	7.11	5.46	3.59	1.61	0.38	0.05	6.42
Biology & Biochemistry	29.72	27.41	24.95	22.28	19.21	15.31	11.30	7.89	4.15	1.09	0.06	16.09
Chemistry	17.60	16.22	15.96	14.31	12.94	10.98	8.38	6.02	3.37	0.93	0.03	10.26
Clinical Medicine	21.59	20.54	19.35	17.63	15.62	13.01	9.70	6.71	3.28	0.81	0.08	12.02
Computer Science	6.61	6.98	7.13	4.70	3.44	2.87	1.89	2.18	1.11	0.28	0.03	3.32
Economics & Business	10.97	9.89	9.91	8.57	7.36	5.65	3.91	2.52	1.11	0.30	0.09	5.44

Нормализованные показатели цитирования

- Суммарный объём цитирования по отношению к среднему цитированию в предметной области (**Category actual/Expected Cites, CXC**) – позволяет сравнивать статьи, учёных и организации, работающие в разных предметных областях



Category actual / Expected Cites (CXC) 5.44

Нормализованные показатели цитирования

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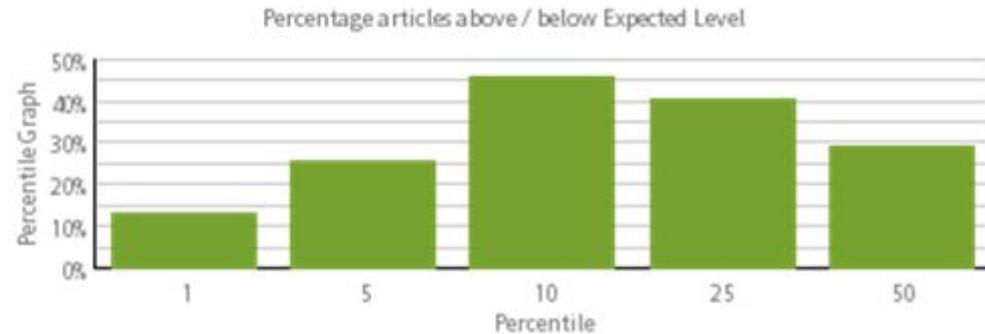


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Percentile	1	5	10	25	50
Number of articles	6	13	24	28	34
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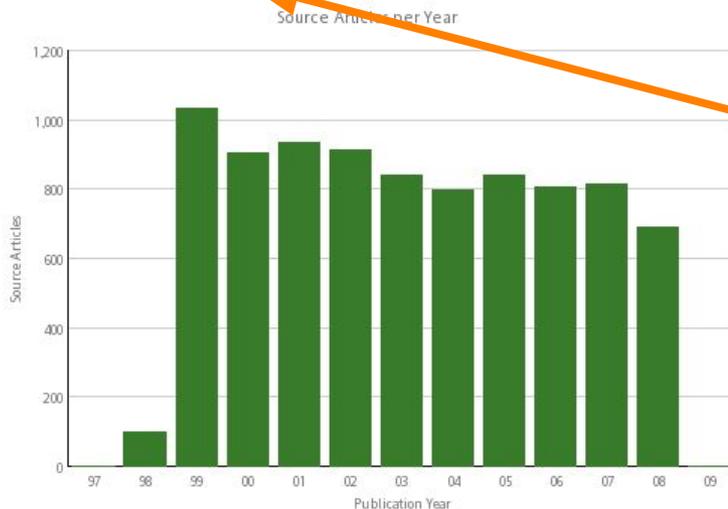
Каков наш вклад в науку?

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Total Citations	2nd Generation Citations	2nd Generation Citations per Citing article	Journal Expected Citations (JXC)	Category Expected Citations (CXC)	Percentile in Field	Journal Impact Factor	Publication Year	Field View Ranking	Article Type View Ranking	Author View Ranking	Journal View Ranking	Article Title	Vol	Pgs
800	11,024	13.78	100.06	42.32	0.01	9.57	2002	PHYSICS, CONDENSED MATTER	REVIEW	DOROGOVTSSEV, SN	ADVANCES IN PHYSICS	Evolution of networks	51	1079-1187
594	8,465	14.25	149.37	9.12	0.04	28.75	2001	MATERIALS SCIENCE, MULTIDISCIPLINARY	ARTICLE	VLASOV, YA	NATURE	On-chip natural assembly of silicon photonic bandgap crystals	414	289-293
437	5,936	13.58	39.45	3.02		1.07	2002	PHYSICS, CONDENSED MATTER	EDITORIAL	DAVYDOV, VY	PHYSICA STATUS SOLIDI B-BASIC RESEARCH	Absorption and emission of hexagonal InN. Evidence of narrow	229	



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DOROGOVTSSEV, SN., 2002., Evolution Networks., ADV PHYS., 51., 1079-1187

Total Citations 800

Total Citations	SREF	Publication Year	Article Title	Primary_Author	Journal	Article Title	Volume	Page
1	3	2007	ARTICLE	BLASZCZYK, M.	ACTA PHYS POL B	Spontaneous order in spin glasses	25	
1	2	2003	ARTICLE	BLASZCZYK, M.	ACTA PHYS POL B	Ensemble of causal trees	34	4699-4710
5	6	2005	ARTICLE	GEAROWSKI, A.	ACTA PHYS POL B	The six model of epidemic spreading in a hierarchical social network	36	1579-1593
0	4	2008	ARTICLE	KRAVYVICH, A.	ACTA PHYS POL B	Stochastic microresponse in the Ising model on scale-free networks	39	1103-1114
1	2	2003	ARTICLE	KRAVYVICH, A.	ACTA PHYS POL B	On the geometry of random networks	34	4965-4973
2	1	2005	ARTICLE	MAKOWIEC, D.	ACTA PHYS POL B	Bootstrap percolation in cellular automata on small-world directed networks	36	1705-1714
4	9	2005	ARTICLE	MALARZ, K.	ACTA PHYS POL B	Matrix representation of evolving networks	36	2523-2536
0	7	2006	ARTICLE	MALARZ, K.	ACTA PHYS POL B	Numbers of n-th neighbors and node-to-node distances in growing networks	37	3093-3108
1	5	2006	ARTICLE	MALARZ, K.	ACTA PHYS POL B	Scaling in random networks	37	3040-3058
1	3	2005	ARTICLE	MAJNIA, E.	ACTA PHYS POL B	Radice networks and their spectral properties	36	2797-2804
14	1	2004	ARTICLE	OLK, G.	ACTA PHYS POL B	Nonextensive information entropy for stochastic networks	35	871-879

On-chip natural assembly of silicon photonic bandgap crystals

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Author(s): Vlasov YA, Bo XZ, Sturm JC, Norris DJ

Source: NATURE Volume: 414 Issue: 6861 Pages: 289-293 Published: NOV 15 2001

Times Cited: 748 References: 30 Citation Map

Abstract: Photonic bandgap crystals can reflect light for any direction of propagation in specific wavelength ranges(1-3). This property, which can be used to confine, manipulate and guide photons, should allow the creation of all-optical integrated circuits. To achieve this goal, conventional semiconductor nanofabrication techniques have been adapted to make photonic crystals(4-9). A potentially simpler and cheaper approach for creating three-dimensional periodic structures is the natural assembly of colloidal microspheres(10-15). However, this approach yields irregular, polycrystalline photonic crystals that are difficult to incorporate into a device. More importantly, it leads to many structural defects that can destroy the photonic bandgap(16,17). Here we show that by assembling a thin layer of colloidal spheres on a silicon substrate, we can obtain planar, single-crystalline silicon photonic crystals that have defect densities sufficiently low that the bandgap survives. As expected from theory, we observe unity reflectance in two crystalline directions of our photonic crystals around a wavelength of 1.3 micrometres. We also show that additional fabrication steps, intentional doping and patterning, can be performed, so demonstrating the potential for specific device applications.

Document Type: Article
Language: English

Keywords Plus: NEAR-INFRARED WAVELENGTHS; TRANSMISSION COEFFICIENTS; CRYSTALLIZATION; SPECTROSCOPY; LIGHT

Reprint Address: Norris, DJ (reprint author), NEC Res Inst, 4 Independence Way, Princeton, NJ 08544 USA

Addresses:
1. NEC Res Inst, Princeton, NJ 08544 USA
2. AF Ioffe Phys Tech Inst, St Petersburg 194021, Russia
3. Princeton Univ, Dept Elect Eng, Princeton, NJ 08544 USA
4. Princeton Univ, Ctr Photon & Optoelect Mat, Princeton, NJ 08544 USA

Publisher: NATURE PUBLISHING GROUP, MACMILLAN BUILDING, 4 CRINAN ST, LONDON N1 9XW, ENGLAND

Subject Category: Multidisciplinary Sciences

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800	11,024	13.78	100.06	42.32	0.01	9.57	2002	PHYSICS, CONDENSED MATTER	REVIEW	DOROGOVTSSEV, SN	ADVANCES IN PHYSICS	Evolution of networks	51	1079-1187
594	8,465	14.25	149.37	9.12	0.04	28.75	2001	MATERIALS SCIENCE, MULTIDISCIPLINARY	ARTICLE	VLASOV, YA	NATURE	On-chip natural assembly of silicon photonic bandgap crystals	414	289-293
437	5,936	13.58	39.45	3.02		1.07	2002	PHYSICS, CONDENSED MATTER	EDITORIAL	DAVYDOV, VY	PHYSICA STATUS SOLIDI B-BASIC RESEARCH	Absorption and emission of hexagonal InN. Evidence of narrow	229	

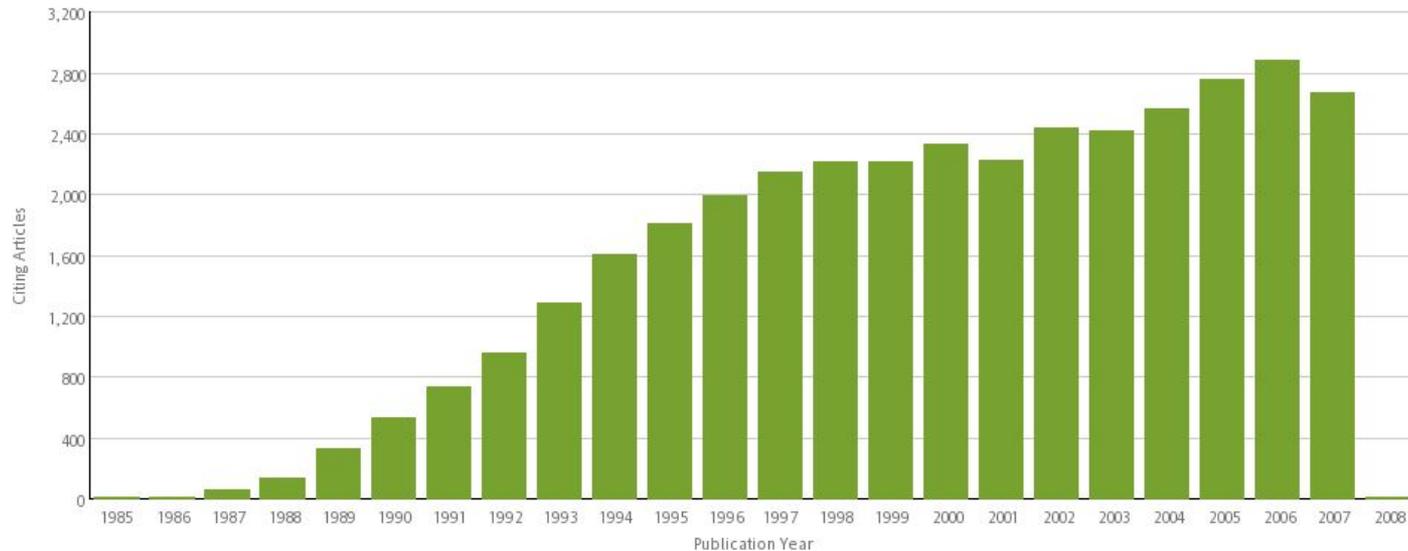


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Total Citations	References to Source Articles (sRefs)	Publication Year	Article Type	Author	Journal	Article Title	Volume	Page
			View Ranking	View Ranking	View Ranking			
3,078	2	1998	ARTICLE	HALL, A	SCIENCE	Rho GTPases and the actin cytoskeleton	279	509-514
2,927	1	1995	REVIEW	MARSHALL, CJ	CELL	SPECIFICITY OF RECEPTOR TYROSINE KINASE SIGNALING - TRANSIENT VERSUS SUSTAINED EXTRACELLULAR SIGNAL-REGULATED KINASE ACTIVATION	80	179-185
2,704	1	1993	REVIEW	GOTTESMAN, MM	ANNUAL REVIEW OF BIOCHEMISTRY	BIOCHEMISTRY OF MULTIDRUG-RESISTANCE MEDIATED BY THE MULTIDRUG TRANSPORTER	62	385-427
2,504	1	1993	REVIEW	VARKI, A	GLYCOBIOLOGY	BIOLOGICAL ROLES OF OLIGOSACCHARIDES - ALL OF THE THEORIES ARE CORRECT	3	97-130
2,264	1	1993	ARTICLE	HOLM, L	JOURNAL OF MOLECULAR BIOLOGY	PROTEIN-STRUCTURE COMPARISON BY ALIGNMENT OF DISTANCE MATRICES	233	123-1

Кто является самым «продуктивным» автором?

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1	U	3,078	337	9.12	28	1.63	1.13	52.64
2	L	2,758	241	11.43	28	1.77	1.37	46.30
9	I	1,768	193	9.17	15	1.37	1.26	61.46
4	Z	2,268	185	12.23	25	1.89	1.47	48.58
3	B	2,468	159	15.51	28	1.96	1.83	39.12
10	K	1,528	157	9.73	21	1.37	1.11	55.24
117	T	308	150	2.05	6	0.70	0.29	75.75
7	K	2,118	143	14.77	24	2.33	1.85	39.90
5	A	2,238	134	16.66	25	1.55	1.60	40.82
58	L	498	123	4.02	10	1.30	0.52	67.50
68	T	468	109	4.29	10	0.59	0.59	61.95
138	Y	278	104	2.62	6	0.65	0.31	67.58
47	Y	558	103	5.36	13	0.69	0.61	63.15
15	T	1,098	100	10.99	18	1.71	1.27	48.67
173	R	228	99	2.26	6	0.90	0.29	79.78
178	R	218	96	2.25	7	0.85	0.30	79.54
73	C	458	95	4.74	12	1.20	0.76	60.45
11	M	1,408	89	15.81	22	2.34	2.27	40.06
29	Y	718	88	8.10	13	0.79	1.12	49.80
151	V	258	87	2.97	9	0.80	0.30	74.16

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1		3,074	337	9.12	28	1.63	1.13	52.64
2		2,754	241	11.43	28	1.77	1.37	46.30
3		2,466	159	15.51	28	1.96	1.83	39.12
4		2,263	185	12.23	25	1.89	1.47	48.58
5		2,232	134	16.66	25	1.55	1.60	40.82
6	SN	2,152	44	48.91	20	3.39	5.44	23.24
7		2,112	143	14.77	24	2.33	1.85	39.90
8		2,079	37	56.19	19	3.78	6.12	21.16
9		1,769	193	9.17	15	1.37	1.26	61.46
10		1,527	157	9.73	21	1.37	1.11	55.24
11		1,407	89	15.81	22	2.34	2.27	40.06
12		1,311	68	19.28	15	2.90	2.49	48.88
13		1,111	60	18.52	15	2.31	1.80	48.06
14		1,107	82	13.50	18	2.53	1.94	40.17
15	MF	1,099	100	10.99	18	1.71	1.27	48.67
16		1,076	75	14.35	15	3.35	1.96	50.19
17		1,055	78	13.53	10	3.06	1.88	63.50
18		981	77	12.74	16	1.27	1.82	44.68
19		943	63	14.97	15	3.32	2.20	36.16
20		925	76	12.17	14	2.11	1.51	46.75

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Rank	Author	Total Citations	Total Articles	Avg Cites per Article	h-index	Journal actual / Expected Cites (JXC)	Category actual / Expected Cites (CXC)	Mean Percentile
25		735	10	73.50	6	6.10	9.22	30.03
24		757	11	68.82	8	5.67	8.51	26.63
8		2,079	37	56.19	19	3.78	6.12	21.16
32		652	12	54.33	10	2.65	6.68	10.96
50		516	10	51.60	6	4.57	5.75	39.06
6		2,152	44	48.91	20	3.39	5.44	23.24
41		576	13	44.31	8	4.92	4.96	36.03
54		499	14	35.64	6	1.53	3.72	42.00
57		484	14	34.57	7	1.58	3.35	47.90
23		827	25	33.08	8	4.82	4.62	51.00
85		360	11	32.73	7	1.00	2.08	41.42
40		581	18	32.28	12	0.96	1.92	31.22
49		528	17	31.06	9	2.43	3.55	37.74
93		339	11	30.82	7	0.99	2.16	44.66
39		594	20	29.70	13	0.93	1.69	36.68
71		430	15	28.67	8	2.07	4.35	27.12
52		507	18	28.17	11	1.89	4.18	24.27
26		730	27	27.04	11	2.16	3.17	42.22
70		449	17	26.41	11	2.02	3.83	17.67
53		500	19	26.32	9	3.15		

Как можно сравнить «физиков» с «лириками»?

Author Ranking (source articles)

Rank determined by total citations

Sort By:

Rank	Author	Total Citations	Total Articles	Avg Cites per Article	h-index	Journal actual / Expected Cites (JXC)	Category actual / Expected Cites (CXC)	Mean Percentile
25		735	10	73.50	6	6.10	9.22	30.03
24		757	11	68.82	8	5.67	8.51	26.63
32		652	12	54.33	10	2.69	6.68	10.96
8		2,079	37	56.19	19	3.78	6.12	21.16
50		516	10	51.60	6	4.57	5.75	39.06
6	N	2,152	44	48.91	20	3.39	5.44	23.24
129		258	10	25.80	7	2.83	5.38	17.20
41		576	13	44.31	8	4.92	4.96	36.03
23		827	25	33.08	8	4.82	4.62	51.00
71		430	15	28.67	8	2.07	4.35	27.12
52		507	18	28.17	11	1.89	4.18	24.27
218		129	10	12.90	6	1.97	3.89	22.51
70		449	17	26.41	11	2.02	3.83	17.67
54		499	14	35.64	6	1.53	3.72	42.00
33		647	26	24.88	10	2.03	3.61	40.97
69		450	18	25.00	10	1.30	3.55	28.82
49		528	17	31.06	9	2.43	3.55	37.74
106		307	19	16.16	7	4.46	3.40	36.09
57		484	14	34.57	7	1.58	3.35	47.90
66		466	23	20.26	3	4.05	3.20	80.89

Анализ самоцитирования

AUTHOR RANKING WITH SELF CITATION ANALYSIS

Sort By:

Rank	Author	Total Articles	Total Citations	Self Cites	Total Without Self Citations	% Self Citations	Avg Cites per Article	Average Cites without Self Cites	h-index	h-index without Self Cites
1		337	3,074	654	2,420	21.28	9.12	7.18	28	12
2		241	2,754	624	2,130	22.66	11.43	8.84	28	9
3		159	2,466	608	1,858	24.66	15.51	11.69	28	7
4		185	2,263	357	1,906	15.78	12.23	10.30	25	9
5		134	2,232	250	1,982	11.20	16.66	14.79	25	12
6		44	2,152	110	2,042	5.11	48.91	46.41	20	6
7		143	2,112	321	1,791	15.20	14.77	12.52	24	10
8		37	2,079	110	1,969	5.29	56.19	53.22	19	4
9		193	1,769	315	1,454	17.81	9.17	7.53	15	8
10		157	1,527	127	1,400	8.32	9.73	8.92	21	12
11		89	1,407	162	1,245	11.51	15.81	13.99	22	7
12		68	1,311	82	1,229	6.25	19.28	18.07	15	8
13		60	1,111	62	1,049	5.58	18.52	17.48	15	10
14		82	1,107	137	970	12.38	13.50	11.83	18	6
15		100	1,099	107	992	9.74	10.99	9.92	18	8
16		75	1,076	140	936	13.01	14.35	12.48	15	7
17		78	1,055	54	1,001	5.12	13.53	12.83	10	6
18		77	981	141	840	14.37	12.74	10.91	16	4
19		63	943	109	834	11.56	14.97	13.24	15	5
20		56	925	217	708	23.46	16.52	12.64	18	3

Сравнение двух учёных

Summary Metrics

Citation Metrics

Total citations	<u>1,232</u>
Total articles	<u>60</u>
Cites per article	<u>20.53</u>
h-index	13
Median cites	4
2nd generation cites	18,593
2nd generation cites per citing article	21.87

Disciplinary Metrics

Disciplinary index	0.38
Interdisciplinarity index	0.28

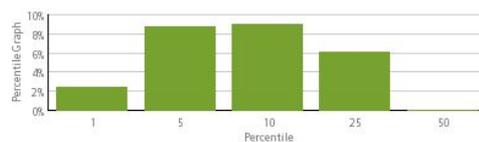
Collaboration Metrics

Unique Authors	197
Average Authors per article	8.45
Unique Organizations	62
Average Organizations per article	3.13
Average Countries per article	2.23

View Citation Frequency Distribution



Percentage articles above / below Expected Level



Percentile	1	5	10	25	50
Number of articles	2	8	11	18	29
Percent of articles	3.45%	13.79%	18.97%	31.03%	50.00%

Summary Metrics

Citation Metrics

Total citations	<u>136</u>
Total articles	<u>67</u>
Cites per article	<u>2.03</u>
h-index	6
Median cites	1
2nd generation cites	282
2nd generation cites per citing article	3.24

Disciplinary Metrics

Disciplinary index	0.40
Interdisciplinarity index	0.28

Collaboration Metrics

Unique Authors	108
Average Authors per article	4.15
Unique Organizations	39
Average Organizations per article	1.75
Average Countries per article	1.40

View Citation Frequency Distribution



Percentage articles above / below Expected Level



Percentile	1	5	10	25	50
Number of articles	0	0	1	2	13
Percent of articles	0.00%	0.00%	1.49%	2.99%	19.40%

Нормализованные показатели цитирования – разбивка по предметным областям

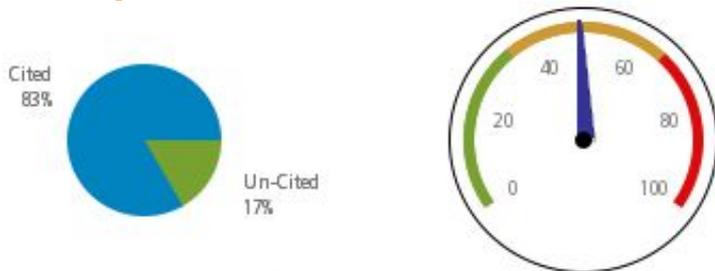
FIELD SPECIALIZATION ANALYSIS

Sort By: ▼

Rank	Field	Total Citations	Total Articles	Avg Cites per Article	h-index	Journal Actual/Expected Cites (JXC)	Category Actual/Expected Cites (CXC)	Mean Percentile
1	PHYSICS, MATHEMATICAL	1,348	103	13.09	19	1.79	1.85	47.00
2	CRYSTALLOGRAPHY	1,072	157	6.83	16	1.09	1.19	49.70
2	PHYSICS, FLUIDS & PLASMAS	2,138	248	8.62	22	1.27	1.19	48.94
3	ENGINEERING, ELECTRICAL & ELECTRONIC	3,068	420	7.30	25	1.45	1.15	47.92
4	PHYSICS, PARTICLES & FIELDS	1,143	152	7.52	18	1.45	1.11	49.68
5	ASTRONOMY & ASTROPHYSICS	4,218	388	10.87	30	0.96	0.93	50.78
6	INSTRUMENTS & INSTRUMENTATION	962	197	4.88	15	1.32	0.90	57.14
7	NUCLEAR SCIENCE & TECHNOLOGY	973	193	5.04	15	1.45	0.87	57.11
8	PHYSICS, ATOMIC, MOLECULAR & CHEMICAL	1,437	224	6.42	19	0.75	0.83	55.17
8	PHYSICS, NUCLEAR	890	159	5.60	14	0.86	0.83	44.56
9	OPTICS	2,447	439	5.57	19	0.95	0.81	58.66
10	SPECTROSCOPY	897	179	5.01	14	1.47	0.78	61.87
11	PHYSICS, MULTIDISCIPLINARY	5,080	671	7.57	33	0.83	0.72	60.58
12	PHYSICS, CONDENSED MATTER	19,346	3,922	4.93	45	1.10	0.67	64.50
13	PHYSICS, APPLIED	9,191	2,111	4.35	34	0.88	0.62	66.07
14	CHEMISTRY, PHYSICAL	1,422	273	5.21	19	0.65	0.59	62.15
15	MATERIALS SCIENCE, MULTIDISCIPLINARY	4,645	1,145	4.06	23	0.80	0.55	66.42
16	NANOSCIENCE & NANOTECHNOLOGY	648	239	2.71	9	0.50	0.43	67.47
17	POLYMER SCIENCE	526	152	3.46	11	0.68	0.42	72.32

Report Limited To
No. of Articles

Инструменты визуализации данных – физика плазмы



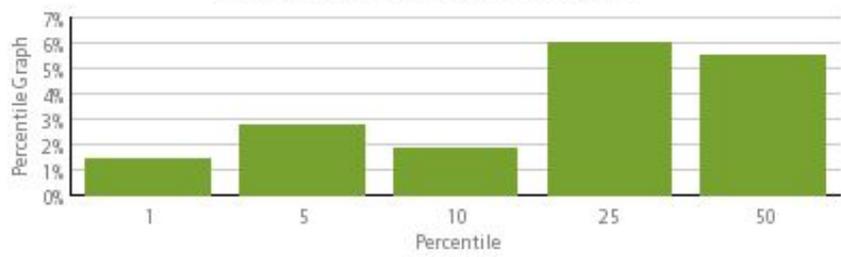
% Articles Cited/ Uncited

Mean Percentile 48.94



Category actual / Expected Cites (CXC) 1.19 Journal actual / Expected Cites (JXC) 1.27

Percentage articles above / below Expected Level



Percentile	1	5	10	25	50
Number of articles	6	19	29	76	136
Percent of articles	2.45%	7.76%	11.84%	31.02%	55.51%



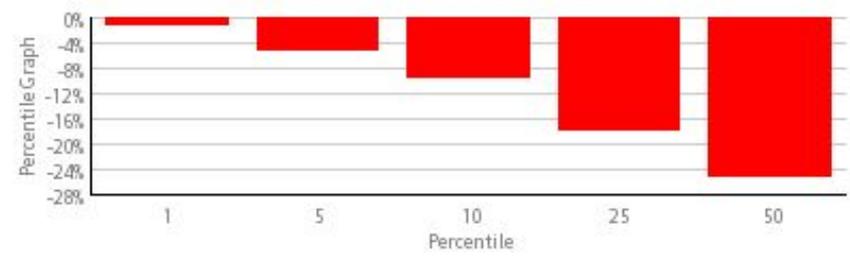
% Articles Cited/ Uncited

Mean Percentile 72.32



Category actual / Expected Cites (CXC) 0.42 Journal actual / Expected Cites (JXC) 0.68

Percentage articles above / below Expected Level



Percentile	1	5	10	25	50
Number of articles	0	0	1	11	22
Percent of articles	0.00%	0.00%	0.66%	7.24%	22.06%

С кем мы сотрудничаем?

InCites™ Institution Ranking (source articles)

Viewing Dataset: IOFFE Institute

Rank determined by total citations

Sort By: 

Rank	Institution	Total Citations	Total Articles	Avg Cites per Article	h-index	Journal actual / Expected Cites (JXC)	Category actual / Expected Cites (CXC)	Mean Percentile
1	RUSSIAN ACAD SCI	21,280	5,270	4.04	43	1.00	0.54	68.47
2	AF IOFFE PHYS TECH INST	20,844	2,637	7.90	49	1.01	1.03	54.48
3	TECH UNIV BERLIN	3,015	204	14.78	29	1.92	1.80	44.32
4	RAS	3,010	490	6.14	22	0.91	0.91	62.43
5	AF IOFFE PHYSICOTECH INST	2,785	218	12.78	28	1.11	1.17	49.11
6	UNIV PORTO	2,041	28	72.89	19	3.80	6.16	18.83
7	UNIV CALIF BERKELEY	1,260	57	22.11	19	1.33	2.06	40.61
8	UNIV DORTMUND	1,195	72	16.60	16	1.36	2.51	38.49
9	UNIV KARLSRUHE	1,101	88	12.51	17	1.49	1.52	44.20
10	NASA	1,040	51	20.39	20	1.04	1.61	32.43
11	USN	1,025	32	32.03	15	2.20	4.36	26.64
12	ST PETERSBURG STATE UNIV	1,003	240	4.18	14	0.97	0.60	65.42
13	UNIV REGENSBURG	910	66	13.79	16	1.16	1.66	47.37
14	NEC RES INST	876	7	125.14	6	3.30	13.63	15.35
15	ST PETERSBURG STATE TECH UNIV	869	245	3.55	14	0.88	0.36	71.39
16	UNIV WURZBURG	807	106	7.61	13	0.73	0.93	51.00
17	UNIV JENA	795	15	53.00	9	5.94	6.10	37.86
18	UNIV GLASGOW	768	51	15.06	16	1.72	1.96	39.74
19	UNIV HANNOVER	767	12	63.92	8	5.29	7.71	28.41
20	PRINCETON UNIV	765	16	47.81	8	2.11	4.07	24.10

Какие из этих совместных проектов были наиболее успешными?

Institution Ranking (source articles)

Rank determined by total citations

Sort By: Mean Percentile

Rank	Institution	Total Citations	Total Articles	Avg Cites per Article	h-index	Journal actual / Expected Cites (JXC)	Category actual / Expected Cites (CXC)	Mean Percentile
6	UNIV PORTO	2,041	28	72.89	19	3.80	6.18	18.83
64	TEL AVIV UNIV	331	14	23.64	6	3.58	4.41	20.13
134	GEN ATOM CO	132	11	12.00	6	0.91	0.98	20.46
125	UNIV BRISTOL	146	10	14.60	6	0.74	1.98	22.48
161	UKAEA EURATOM FUS ASSOC	93	13	7.15	7	0.80	1.17	22.61
19	PRINCETON UNIV	265	16	47.81	8	2.11	4.07	24.10
28	UNIV HAMBURG	597	27	22.11	12	3.32	3.41	24.33
82	UNIV S CAROLINA	252	19	13.26	8	1.34	1.51	25.44
130	PRINCETON PLASMA PHYS LAB	137	14	9.79	8	0.94	1.32	25.44
112	RUHR UNIV BOCHUM	171	13	13.15	6	1.13	2.58	26.14
11	USN	1,025	32	32.03	15	2.20	4.38	26.64
18	UNIV HANNOVER	267	12	63.92	8	5.29	7.71	28.41
93	CALTECH	213	10	21.30	8	1.04	1.49	28.65
148	RADBOD UNIV NIJMEGEN	111	13	8.54	5	0.83	2.32	28.71
117	UNIV LEICESTER	160	11	14.55	7	1.32	1.78	28.83
102	SPACE TELESCOPE SCI INST	191	13	14.69	8	1.20	1.37	29.41
49	UNIV PADUA	402	16	25.12	7	3.73	3.98	29.55
101	PHYS TECH BUNDESANSTALT	195	17	11.47	8	1.65	2.78	30.06
70	ECOLE NORMALE SUPER LYON	306	18	17.00	11	1.48	1.79	30.15
58	UNIV LONDON IMPERIAL COLL SCI TECHNOL & MED	354	17	20.82	9	3.30	2.67	30.19

В каких журналах публикуются наши учёные?

Journal Ranking (source articles)

Rank determined by total citations

Rank	Journal	Total Citations	Total Articles	Avg Cites per Article	h-index	Journal actual / Expected Cites (JXC)
1	ASTRONOMY & ASTROPHYSICS	1,332	100	13.32	20	1.02
2	ASTROPHYSICAL JOURNAL	1,077	67	16.07	22	0.80
3	ASTRONOMY LETTERS-A JOURNAL OF ASTRONOMY AND SPACE ASTROPHYS	261	27	9.67	9	2.73
4	ASTRONOMY AND ASTROPHYSICS	256	13	19.69	8	1.01
5	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	224	32	7.00	8	0.56
6	SOLAR PHYSICS	190	20	9.50	8	1.19
7	NATURE	189	3	63.00	3	0.78
8	ANNUAL REVIEW OF ASTRONOMY AND ASTROPHYSICS	135	1	135.00	1	1.72
9	JOURNAL OF GEOPHYSICAL RESEARCH-SPACE PHYSICS	126	10	12.60	5	1.50
10	SPACE SCIENCE REVIEWS	64	13	4.92	4	2.35
11	ASTRONOMY REPORTS	54	23	2.35	5	0.89
12	PHYSICAL REVIEW D	35	11	3.18	4	0.29
13	ASTROPARTICLE PHYSICS	34	1	34.00	1	8.79
14	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	31	3	10.33	3	0.38
14	ASTROPHYSICS AND SPACE SCIENCE	31	6	5.17	2	3.56
15	HIGH-ENERGY STUDIES OF SUPERNOVA REMNANTS AND NEUTRON STARS	27	3	9.00	2	2.62
16	ASTRONOMISCHE NACHRICHTEN	22	2	11.00	1	4.09
17	GALACTIC AND ANOMALOUS COSMIC RAYS IN THE HELIOSPHERE	19	3	6.33	2	1.67
18	ANNALES GEOPHYSICAE	16	2	8.00	2	0.78
19	CLASSICAL AND QUANTUM GRAVITY	12	2	6.00	2	1.28

Где публикуются ссылки на наших учёных?

View Overall Reports		Limit Report Results			
Rank	Journal	Total Citations	Total Articles	Avg Cites per Article	
1	PHYSICAL REVIEW B	26,729	2,716	9.84	
2	APPLIED PHYSICS LETTERS	22,179	1,854	11.96	
5	JOURNAL OF APPLIED PHYSICS	12,029	1,296	9.28	
3	PHYSICAL REVIEW LETTERS	19,773	880	22.47	
22	SEMICONDUCTORS	1,947	835	2.33	
24	PHYSICS OF THE SOLID STATE	1,760	804	2.19	
4	ASTROPHYSICAL JOURNAL	14,257	657	21.70	
6	PHYSICAL REVIEW E	9,308	656	14.19	
54	TECHNICAL PHYSICS LETTERS	669	466	1.44	
12	JOURNAL OF PHYSICS-CONDENSED MATTER	3,281	461	7.12	
9	ASTRONOMY & ASTROPHYSICS	5,911	445	13.28	
15	PHYSICAL REVIEW A	2,700	361	7.48	
25	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	1,553	314	4.95	
45	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	877	310	2.83	
21	SEMICONDUCTOR SCIENCE AND TECHNOLOGY	2,006	261	7.69	
78	TECHNICAL PHYSICS	359	250	1.44	
14	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2,900	239	12.13	
20	PHYSICA STATUS SOLIDI B-BASIC RESEARCH	2,061	216	9.54	
28	JOURNAL OF PHYSICS D-APPLIED PHYSICS	1,324	210	6.30	
38	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	1,021	205	4.98	

Кто цитирует институт наш институт в области физики?

Physics of strongly magnetized neutron stars

Full Text Links Holdings Go Print E-mail Add to Marked List Save to EndNote Web Save to EndNote, RefMan, ProCite

Author(s): Harding AK (Harding, Alice K.), Lai D (Lai, Dong)

Source: REPORTS ON PROGRESS IN PHYSICS Volume: 69 Issue: 9 Pages: 2631-2708 Published: SEP 2006

Times Cited: 99 References: 428 Citation Map

Abstract: There has recently been growing evidence for the existence of neutron stars possessing magnetic fields with strengths that exceed the quantum field strength of 4.4×10^{13} G, at which the cyclotron energy equals the electron rest mass. Such evidence has been provided by new discoveries of radio pulsars having very high spin-down rates and by observations of bursting gamma-ray sources termed magnetars. This paper will discuss the exotic physics of this field regime, where a new array of processes becomes possible and even dominant, and where familiar processes acquire unusual properties. We review physical processes that are important in neutron star interiors and magnetospheres, including the behaviour of free particles, atoms, molecules, plasma condensed matter in strong magnetic fields, photon propagation in magnetized plasmas, free particle radiative processes, the physics of neutron star interior field evolution and decay mechanisms. Application of such processes in astrophysical source models, including rotation-powered pulsars, soft gamma repeaters, anomalous x-ray pulsars and accreting x-ray pulsars will also be discussed. Throughout this review, we will highlight the observational signals of high magnetic field processes, as well as the theoretical issues that remain to be understood.

Document Type: Review

Language: English

KeyWords Plus: X-RAY PULSAR; EQUATION-OF-STATE; SOFT GAMMA-REPEATERS; DENSITY-FUNCTIONAL CALCULATIONS; LOW-LUMINOSITY ACCRETION; CYCLOTRON RESONANT SCATTERING; PHASE-RESOLVED SPECTROSCOPY; RAPIDLY SPINNING PULSARS; BROAD ABSORPTION FEATURE; CRUSTAL PLATE-TECTONICS

Reprint Address: Harding, AK (reprint author), NASA, Goddard Space Flight Ctr, Code 663, Greenbelt, MD 20771 USA

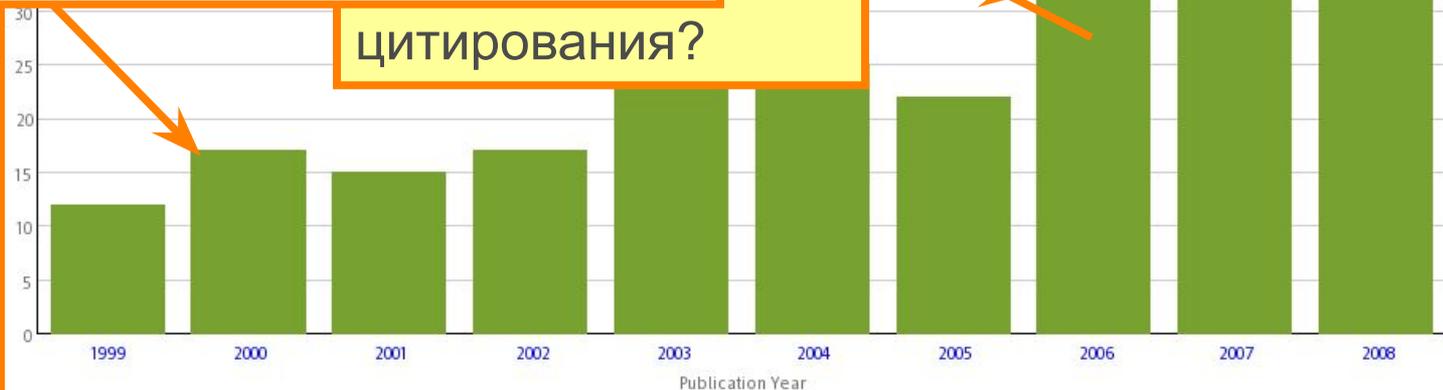
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E-mail Addresses: Alice.K.Harding@nasa.gov, dong@astro.cornell.edu

Citations	Total Articles	Avg Cites per Article
40,136	6,805	5.90
103,539	6,012	17.22
44,539	3,880	11.48
10,496	1,976	5.31
21,321	1,933	11.03
23,616	1,865	12.66
22,584	1,657	13.63
17,187	1,363	12.61
11,972	869	13.78
5,793	810	7.15

- 11 CALTECH
- 12 UNIV CAMBRIDGE
- 13 UNIV TOKYO
- 14 PRINCETON UNIV
- 15 LOS ALAMOS NATL LAB
- 16 MIT
- 17 USN
- 18 UNIV CHICAGO
- 19 STANFORD UNIV
- 20 UNIV CALIF SAN DIEGO



В заключение

- Анализ, основанный на данных из авторитетной базы Web of Science
- Возможность для руководства детально анализировать состояние науки внутри организации и отслеживать основные тренды в мировой науке
- Данные ещё раз выверяются – не нужно заниматься поиском
- Нормализованные показатели позволяют сравнивать учёных, работающих даже в различных предметных областях

2 направления применения показателей научного цитирования

- Практика проведения исследований
 - Что уже было написано по исследуемой мной проблеме?
 - Кто из исследователей этой проблемы наиболее авторитетен?
 - Где мне опубликовать мою статью?
 - и т.д.
- Управление научной деятельностью
 - Чего мы добились как исследовательская организация?
 - В каких предметных областях мы наиболее успешны?
 - Какие из наших учёных наиболее активны/ авторитетны/ эффективны?
 - Как мы показываем себя в сравнении с нашими партнёрами или конкурентами?
 - Какие из международных научных связей нам следует развивать в первую очередь?
 - И т.д.



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Спасибо!

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