

Анализ публикационной активности ученых НИУ «БелГУ» в журналах, входящих базы данных Scopus за 2012 г.

На начало апреля в базе данных Scopus насчитывалось 116 публикаций ученых НИУ «БелГУ». Все они приведены в Приложении 1. Так как значительная часть скопусовских публикаций входит в базу данных Web of Science (WoS), то на основе Journal Citation Report (JCR), мы привели для этих публикаций данные по импакт –факторам соответствующих им журналам (выделены красным цветом). Для чисто скопусовских публикаций с платформы SCIMAGO были взяты значения SJR (SCIMAGO Journal Rank – импакт фактор, ограничивающий самоцитирование 30 % и учитывающий весомость журналов с которых идет цитирование) и $IF = Docs / 2\ years$ (стандартный гарфильдский импакт-фактор, соответствующий таковому в JCR). Известно, что для больших статистических выборок значения скопусовского импакт-фактора на 10 – 15 % превышают таковые для тех же журналов, входящих одновременно и в базу данных WoS. Это связано с тем, что база данных Scopus в два раза больше, чем база данных WoS. В то же время для нашей небольшой выборки эта закономерность не проявляется.

Все 116 публикаций мы распределили по 51 журналу, в которых публиковались ученые НИУ «БелГУ» в 2012 г. (табл.1), а так же построили распределения количества журналов в зависимости от интервала изменения значений скопусовского импакт-фактора журналов (табл.2). Из последней таблицы видим, что львиная доля журналов соответствует низкоимпактной области, а всплеск количества журналов в интервале $2,0 < IF < 3,0$ связан с публикацией восьми статей в одном и том же голландском материаловедческом журнале (табл.1). То есть здесь на кривой распределения мы имеем случайный статистический выброс. В табл.3 приведено распределение публикаций по профилям журналов, из которого видим, что 81 % статей опубликовано в материаловедческих и физических

журналах, а доля последних журналов в их общем количестве составила 65%.

Распределение публикаций по количеству авторов приведено в табл.4. Из не видим, что около 22 % публикаций приходилось на статьи без соавторства и с одним соавтором (25 статей). В целом, большие коллективы авторов публикаций соответствуют тому, что большинство публикаций ученых НИУ “БелГУ” связано с проведением экспериментальных исследований в физических областях. Доля статей с международным соавторством (с учеными из стран Дальнего Зарубежья) составила всего 13 % (около 15 статей).

В Приложении 2 мы привели таблицы и соответствующие им диаграммы структурных характеристик, которые мы сгенерировали на платформе Scopus для общего количества публикаций ученых НИУ “БелГУ”. Их целесообразно сопоставлять с публикационными структурами 2012 года. Например, в общем количестве скопусовских публикаций ученых НИУ “БелГУ” за все годы 71 % (910 публикаций) приходится на предметные области: физика, астрономия, материаловедение, технические науки, а в первую пятерку журналов входят исключительно журналы по физике и материаловедению. Это говорит о том, что на протяжении десяти лет, в течение которых вуз работает в статусе классического университета не произошло каких-либо структурных сдвигов. Без таких сдвигов перспективы дальнейшего развития университета, в контексте наращивания его публикационной активности практически, отсутствуют. В идеале необходимо иметь по несколько лидеров в двух остальных приоритетных областях исследований – науки о жизни и биотехнологии, компьютерные науки и информационно-коммуникационные технологии, как это удалось достигнуть по первому приоритетному направлению – нанонауки и нанотехнологии.

**Таблица 1. Распределение публикаций ученых НИУ “БелГУ”
по журналам (116 публикаций). Scopus, апрель 2012 г.**

№ п/п	Название журнала (страна издатель/редакция)	IF	Кол-во статей	Примечания
1	Materials Science Forum (Germany)	0,33	20	Conference Paper
2	Materials Science & Engineering A (Netherlands)	2,32	8	
3	Journal of Surface Investigation (Russia)	0,15	8	
4	Problems of Atomic Science and Technology (Ukraine)	0,05	8	
5	Advanced Material Reseach (Germany)	0,17	5	Conference Paper
6	Journal of Physics: Conference Series (UK)	0,41	4	Conference Paper
7	Metal Science and Heat Treatment (USA)	0,09	4	
8	Russian Physics Journal (USA/Russia)	0,25	3	
9	Russian Metallurgy (Metally) (Russia)	0,08	3	
10	Proceedings of the Steklov Institute of Mathematics (Russia)	0,14	3	
11	Technical Physics Letters (Russia)	0,26	3	
12	AIP Conference Proceedings (USA)	0,13	2	Conference Paper
13	Reviews on Advanced Materials Science (Russia)	0,9	2	
14	Inorganic Materials: Applied Research (Russia)	0,42	2	
15	Journal of Friction and Wear (USA)	0,29	2	
16	Journal of Evolutionary Biochemistry and Physiology (Russia)	0,05	2	
17	Arkhiv Patologii (Russia)	0,06	1	
18	Social Sciences (Russia)	0,14	1	
19	Crystallography Reports (Russia)	0,24	1	
20	Biophysics (Russia)	0,17	1	
21	Computational Materials Science (Netherlands)	0,18	1	
22	Cybermetrics (Spain)	0,8	1	
23	Siberian Mathematical Journal (USA/Russia)	0,9	1	
24	Technical Physics (Russia)	0,21	1	
25	Neural, Parallel and Scientific Computations (USA)	0,03	1	
26	Physics of the Solid State (Russia)	0,44	1	
27	Steel in Translation (USA)	0,01	1	
28	Jinshu Xuebao/Acta Metallurgica Sinica (China)	0,68	1	
29	High Temperature (Russia)	0,58	1	
30	Mathematical Notes (Russia)	0,19	1	

31	Journal of Alloys and Compounds (Netherlands)	2,56	1	
32	Electronic Journal of Differential Equations (USA)	0,45	1	
33	Differential Equations (Russia)	0,15	1	
34	Journal of Experimental and Theoretical Physics (Russia)	0,61	1	
35	Hypertension Research (UK)	2,92	1	
36	Acoustical Physics (Russia)	0,44	1	
37	Applied Physics A: Materials Science and Processing (Germany)	1,69	1	
38	Advances in Gerontology (Russia)	0,16	1	
39	Protection of Metals and Physical of Surfaces (Russia)	0,32	1	
40	Eurasian Soil Science (Russia)	0,17	1	
41	Physics Letters, Section A: General, Atomic and Solid State Physics (Netherlands)	1,78	1	
42	Russian Journal of Physical Chemistry A (Russia)	0,29	1	
43	Glass Physics and Chemistry (Russia)	0,34	1	
44	Metallurgia Italiana v(Italy)	0,498	1	
45	Material Letters (Russia)	2,47	1	
46	Journal of Mining Science (USA)	0,22	1	
47	Acta Materialia (UK)	4,07	1	
48	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science (Germany)	3,95	1	
49	Russian Journal of Genetics: Applied Research (Russia)	0,427	1	
50	Materials Characterization (USA)	1,89	1	
51	International Journal of Material Forming (France)	0,37	1	

Примечание. Из 51 журнала 26 российских (издатель или редакция).

**Таблица 2. Распределение публикаций ученых НИУ «БелГУ»
по интервалам изменения импакт-фактора
SCOPUS-журналов, 2012 г.**

Интервал изменения импакт-фактора	Количество статей
$0 \leq IF \leq 0,5$	94
$0,5 < IF \leq 1$	6
$1 < IF \leq 2$	3
$2 < IF \leq 3$	11
$3 < IF \leq 4$	1
$4 < F \leq 5$	1
Всего журналов	116

**Таблица 3. Распределение публикаций ученых НИУ «БелГУ»
по журналам в разных предметных областях
SCOPUS, апрель 2012 г.**

Профили журналов	Количество журналов	Количество статей
Материаловедение, нанонауки	20	67
Физика	13	28
Математика	6	8
Медицина, генетика	4	5
Химия, физическая химия, кристаллография	2	2
Биология, биохимия, биофизика	2	3
Компьютерные науки, информатика	1	1
Социальные науки	1	1
Почвоведение	1	1
Геология, горное дело	1	1
Итого	51	116

**Таблица 4. Распределение публикаций ученых НИУ «БелГУ»
по количеству соавторов
SCOPUS, апрель 2012 г.**

Количество авторов												
	1	2	3	4	5	6	7	8	9	10	11	12
Количество публикаций	9	16	42	12	13	8	5	4	4	1	1	1

Примечание. Количество статей в соавторстве с учёными из стран Дальнего Зарубежья – около 15.

**Приложение 1.Список публикаций ученых НИУ «БелГУ» за 2012 г.,
проиндексированные Scopus (116 публикаций)**

EXPORT DATE: 4 April 2013

Tagirov, D., Lashina, E., Kaibyshev, R.

Effect of Liquid Hot Isostatic Pressing on Structure and Mechanical Properties of a Sand-Cast A356.02 Alloy

(2012) Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, pp. 1-13. (IF 1.545; SJR 1,362; IF 3,95)

<http://www.scopus.com/inward/record.url?eid=2-s2.0->

84871142457&partnerID=40&md5=f818d12aa7d5a7c2c2b6f4afed657ddb

DOCUMENT TYPE: Article in Press

SOURCE: Scopus

Baklanov, D.A., Vnukov, I.E., Laktionova, S.A., Shatokhin, R.A.

Estimation of microblock sizes in mosaic crystals according to fast electron radiation characteristics

(2012) Journal of Surface Investigation, 6 (6), pp. 938-946. (IF 0,343; SJR 0,17; IF 0,15)

<http://www.scopus.com/inward/record.url?eid=2-s2.0->

84870823293&partnerID=40&md5=0770c7dec9994d681e26d4587773dfd1

DOCUMENT TYPE: Article

SOURCE: Scopus

Pavlova, T.V., Petrukhin, V.A., Semykin, A.M., Malyutina, E.S., Nesterov, A.V.

Functional morphology of maternal placental circulation in severe gestosis

(2012) Arkhiv Patologii, 74 (6), pp. 19-22. (SJR 0,111 ; IF 0,06)

<http://www.scopus.com/inward/record.url?eid=2-s2.0->

84873648744&partnerID=40&md5=5a8a7762fafbefe79559828f6e4f5d7b

DOCUMENT TYPE: Article

SOURCE: Scopus

Krotkov, Y.

Multiplicity of worldviews: A territory of conflicts?

(2012) Social Sciences (Russian Federation), 43 (4), pp. 67-76. (SJR 0,318 ; IF 0,14)

<http://www.scopus.com/inward/record.url?eid=2-s2.0->

84872068849&partnerID=40&md5=79ca4db435ee81a3bde73aa8e233af19

DOCUMENT TYPE: Article

SOURCE: Scopus

Dudarev, E.F., Pochivalova, G.P., Kolobov, Y.R., Bakach, G.P., Skosyrskii, A.B., Zhorovkov, M.F.

Microplastic deformation of submicrocrystalline and coarse-grained titanium at room and elevated temperatures

(2012) Russian Physics Journal, 55 (7), pp. 825-834. (IF 0,409; SJR 0,24; IF 0,25)

<http://www.scopus.com/inward/record.url?eid=2-s2.0->

84871120926&partnerID=40&md5=5f5f89141ed022093dc16a1c71665bb8

DOCUMENT TYPE: Article

SOURCE: Scopus

Kozhemyakin, G.N., Erofeev, R.S., Parashchenko, A.N., Ivanov, O.N., Kolesnikov, D.A., Maradudina, O.N.

Thermoelectric properties of nanocrystalline solid solutions of bismuth and antimony chalcogenides

(2012) Crystallography Reports, 57 (7), pp. 939-942. (IF 0,469; SJR 0,206; IF 0,24)

<http://www.scopus.com/inward/record.url?eid=2-s2.0->

84870504030&partnerID=40&md5=f0007251688631226bfcddb577c5d443

DOCUMENT TYPE: Article

SOURCE: Scopus

Ionin, A.A., Golosov, E.V., Kolobov, Yu.R., Kudryashov, S.I., Ligachev, A.E., Makarov, S.V., Seleznev, L.V., Sinitsyn, D.V.

Sub- and near-threshold femtosecond laser nanostructuring of solid surfaces

(2012) AIP Conference Proceedings, 1464, pp. 386-396. (SJR 0,142 ; IF 0,13)

<http://www.scopus.com/inward/record.url?eid=2-s2.0->

84873263901&partnerID=40&md5=378454f6ff3f3ec913e44440cd49c562

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

Lazareva, M.V., Trapeznikova, K.O., Vikhlyantsev, I.M., Bobylev, A.G., Klimov, A.A., Podlubnaya, Z.A.

Seasonal changes in the isoform composition of the myosin heavy chains in skeletal muscles of hibernating ground squirrels *Spermophilus undulatus*

(2012) *Biophysics (Russian Federation)*, 57 (6), pp. 764-768. (SJR 0,127 ; IF 0,17)

<http://www.scopus.com/inward/record.url?eid=2-s2.0->

84874470114&partnerID=40&md5=22b817c5a742daab6a094d6922cdfc4b

DOCUMENT TYPE: Article

SOURCE: Scopus

Greenberg, B.A., Ivanov, M.A., Rybin, V.V., Elkina, O.A., Patselov, A.M., Antonova, O.V., Inozemtsev, A.V., Salishchev, G.A., Kozhevnikov, V.E.

Structure of the transition zone and its influence on the strength of copper-tantalum joint (Explosion welding)

(2012) *Russian Metallurgy (Metally)*, 2012 (10), pp. 898-905. (SJR 0,139 ; IF 0,08)

<http://www.scopus.com/inward/record.url?eid=2-s2.0->

84874550948&partnerID=40&md5=e9c7f25ef61f3b16e3cc858a11ccea1

DOCUMENT TYPE: Article

SOURCE: Scopus

Aksyonov, D.A., Lipnitskii, A.G., Kolobov, Y.R.

Ab initio study of Ti-C precipitates in hcp titanium: Formation energies, elastic moduli and theoretical diffraction patterns

(2012) *Computational Materials Science*, 65, pp. 434-441. (IF 1,574; SJR 0,126; IF 0,18)

<http://www.scopus.com/inward/record.url?eid=2-s2.0->

84866179957&partnerID=40&md5=d46e79c9ca8cd5af9ee72c725243049a

DOCUMENT TYPE: Article

SOURCE: Scopus

Soldatov, A.P.

Mixed problems for the Lavrent'ev - Bitsadze equation

(2012) *AIP Conference Proceedings*, 1497, pp. 199-204. (SJR 0,142 ; IF 0,13)

<http://www.scopus.com/inward/record.url?eid=2-s2.0->

84873136931&partnerID=40&md5=84ec7582ba33413440408ea26425452f

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

Pogrebnyak, A.D., Beresnev, V.M., Kolesnikov, D.A., Demianenko, A.S., Takeda, Y., Oyoshi, K., Shypylenko A.P., Kaverin, M.V., Abrasonis, A.O., Krause-Rehberg, R., Andreyev, A.O.

Multycomponent (Ti-Zr-Hf-V-Nb)N nanostructure coatings fabrication, their properties and structure

(2012) CriMiCo 2012 - 2012 22nd International Crimean Conference Microwave and Telecommunication Technology, Conference Proceedings, art. no. 6336150, pp. 691-692.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84869807479&partnerID=40&md5=03701bb406131158518c75279adfa69a)

[84869807479&partnerID=40&md5=03701bb406131158518c75279adfa69a](http://www.scopus.com/inward/record.url?eid=2-s2.0-84869807479&partnerID=40&md5=03701bb406131158518c75279adfa69a)

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

Moskovkin, V.M., Delux, T., Moskovkina, M.V.

Comparative analysis of university publication activity by Google scholar (on example of leading Czech and Germany universities)

(2012) steel, 16 (1), art. no. 2, . (SJR 0,222 ; IF 0,8)

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84867707601&partnerID=40&md5=8faf0a32e0ab6c22d8c05aef52b622cb)

[84867707601&partnerID=40&md5=8faf0a32e0ab6c22d8c05aef52b622cb](http://www.scopus.com/inward/record.url?eid=2-s2.0-84867707601&partnerID=40&md5=8faf0a32e0ab6c22d8c05aef52b622cb)

DOCUMENT TYPE: Article

SOURCE: Scopus

Mogucheva, A.A., Dubyna, A.V., Kaibyshev, R.O.

The formation of ultrafine grained structure in an Al-Mg-Sc alloy by equal channel angular pressing at 150 °C

(2012) Reviews on Advanced Materials Science, 31 (1), pp. 54-61. (IF 0,915; SJR 0,399; IF 0,9)

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-84867639982&partnerID=40&md5=61e0929673582c6aaf3ebf851f408e93)

[84867639982&partnerID=40&md5=61e0929673582c6aaf3ebf851f408e93](http://www.scopus.com/inward/record.url?eid=2-s2.0-84867639982&partnerID=40&md5=61e0929673582c6aaf3ebf851f408e93)

DOCUMENT TYPE: Article

SOURCE: Scopus

Tikhonova, M., Kuzminova, Y., Belyakov, A., Kaibyshev, R.

Nanocrystalline S304H austenitic stainless steel processed by multiple forging

(2012) Reviews on Advanced Materials Science, 31 (1), pp. 68-73. (IF 0,915; SJR 0,399; IF 0,9)

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84867635766&partnerID=40&md5=82e0ef0936666fabd3d94952ddfeb5e1>

DOCUMENT TYPE: Article

SOURCE: Scopus

Soldatov, A.P.

On Dirichlet-type problems for the Lavrent'ev-Bitsadze equation

(2012) Proceedings of the Steklov Institute of Mathematics, 278 (1), pp. 233-240. (IF 0,171; SJR 0,227; IF 0,14)

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84867372762&partnerID=40&md5=216df8d9f702712251ed92d7965cf048>

DOCUMENT TYPE: Article

SOURCE: Scopus

Meirmanov, A.

Equations of liquid filtration in double porosity media as a reiterated homogenization of stokes equations

(2012) Proceedings of the Steklov Institute of Mathematics, 278 (1), pp. 152-160. (IF 0,171; SJR 0,227; IF 0,14)

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84867365717&partnerID=40&md5=becd67df6aa6b55250d0d95ca9e4d41e>

DOCUMENT TYPE: Article

SOURCE: Scopus

Zhura, N.A., Soldatov, A.P.

On asymptotics of a piecewise analytic function satisfying contact conditions

(2012) Siberian Mathematical Journal, 53 (5), pp. 800-804. (IF 0,365; SJR 0,505; IF 0,43)

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84868141053&partnerID=40&md5=80a511776a66c69c0faebf5149f7b615>

DOCUMENT TYPE: Article

SOURCE: Scopus

Malai, N.V., Limanskaya, A.V., Shchukin, E.R., Stukalov, A.A.

Photophoresis of heated large spherical aerosol particles

(2012) Technical Physics, 57 (10), pp. 1364-1371. (IF 0,499; SJR 0,157; IF 0,21)

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84867733104&partnerID=40&md5=81322082ea85e7e51300b4d658211a11>

DOCUMENT TYPE: Article

SOURCE: Scopus

Stepanov, N.D., Kuznetsov, A.V., Salishchev, G.A., Raab, G.I., Valiev, R.Z.

Effect of cold rolling on microstructure and mechanical properties of copper subjected to ECAP with various numbers of passes

(2012) Materials Science and Engineering A, 554, pp. 105-115. Cited 1 time. (IF 2,003; SJR 1,562; IF 2,32)

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84864085905&partnerID=40&md5=9ef885d239b283b1716f0e48312ea608>

DOCUMENT TYPE: Article

SOURCE: Scopus

Nikulin, I., Kipelova, A., Kaibyshev, R.

Effect of high-temperature exposure on the mechanical properties of 18Cr-8Ni-W-Nb-V-N stainless steel

(2012) Materials Science and Engineering A, 554, pp. 61-66. (IF 2,003; SJR 1,562; IF 2,32)

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84864111443&partnerID=40&md5=3afa19cdc72c005e3dcf7f65ee3faa9e>

DOCUMENT TYPE: Article

SOURCE: Scopus

Pogrebnyak, A.D., Ponomarev, A.G., Kolesnikov, D.A., Beresnev, V.M., Komarov, F.F., Mel'nik, S.S., Kaverin, M.V.

Effect of mass transfer and segregation on the formation of superhard nanostructured Ti-Hf-N(Fe) catings

(2012) Technical Physics Letters, 38 (7), pp. 623-626. Cited 1 time. (IF 0,565; SJR 0,194; IF 0,26)

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84866292187&partnerID=40&md5=11b0a781fd7da7d8c1b1f54aa43737bd>

DOCUMENT TYPE: Article

SOURCE: Scopus

Vasilyev, A.V., Vasilyev, V.B.

Numerical analysis for some singular integral equations

(2012) Neural, Parallel and Scientific Computations, 20 (3-4), pp. 313-326. (SJR 0,15 ; IF 0,03)

<http://www.scopus.com/inward/record.url?eid=2-s2.0->

84872572183&partnerID=40&md5=1ef4ccfcfcc78ae8b52830cdbc1a4177

DOCUMENT TYPE: Article

SOURCE: Scopus

Pogrebnyak, A.D., Beresnev, V.M., Demianenko, A.A., Baidak, V.S., Komarov, F.F., Kaverin, M.V., Makhmudov, N.A., Kolesnikov, D.A.

Adhesive strength, superhardness, and the phase and elemental compositions of nanostructured coatings based on Ti-Hf-Si-N

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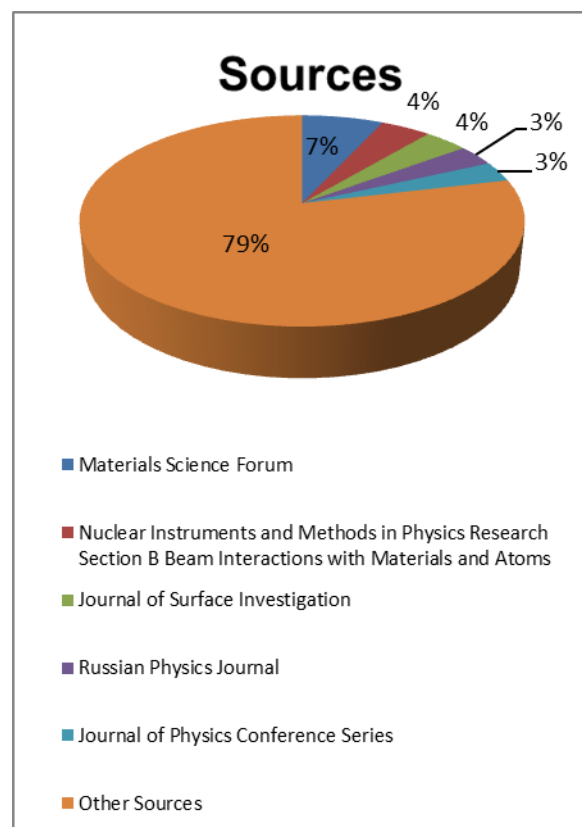
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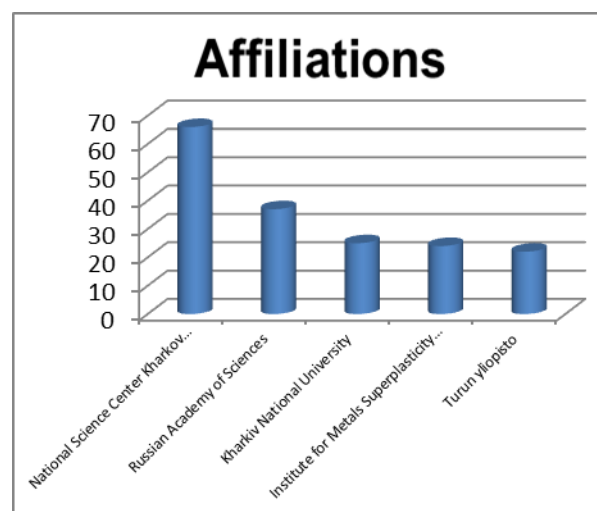
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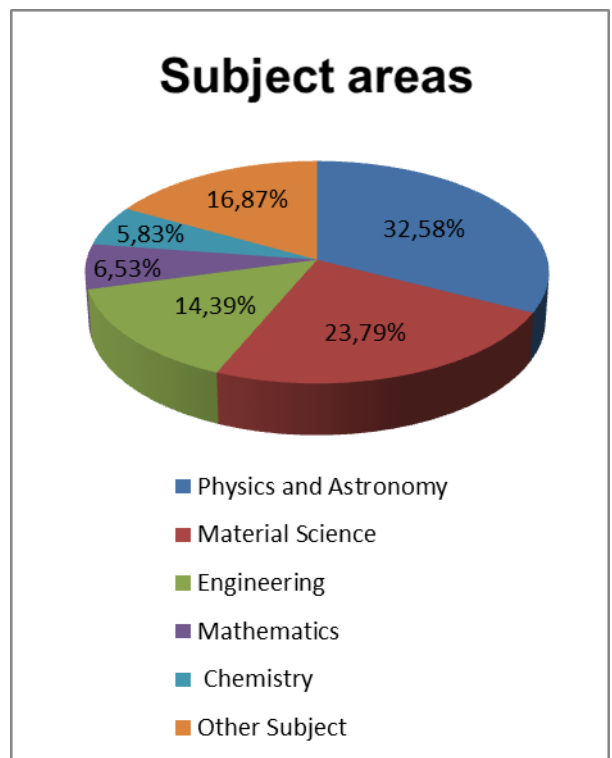
Sources	Documents
Materials Science Forum	54
Nuclear Instruments and Methods in Physics Research Section B Beam Interactions with Materials and Atoms	33
Journal of Surface Investigation	29
Russian Physics Journal	25
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Total	775



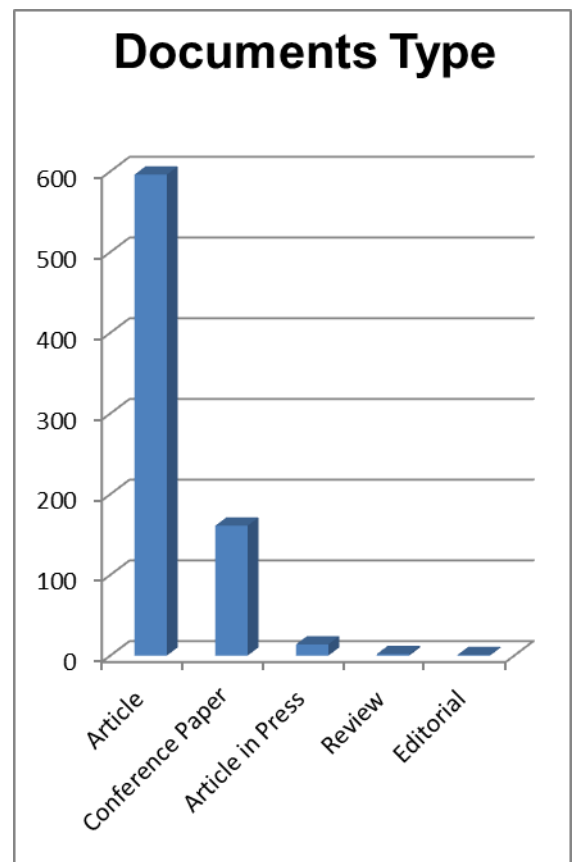
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National Science Center Kharkov Institute of Physics and Technology	66
Russian Academy of Sciences	37
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Institute for Metals Superplasticity Problems, Russian Academy of Sciences	24
Turun yliopisto	22
Total	668



Subject areas	Documents
Physics and Astronomy	419
Material Science	306
Engineering	185
Mathematics	84
Chemistry	75
Total	1286



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