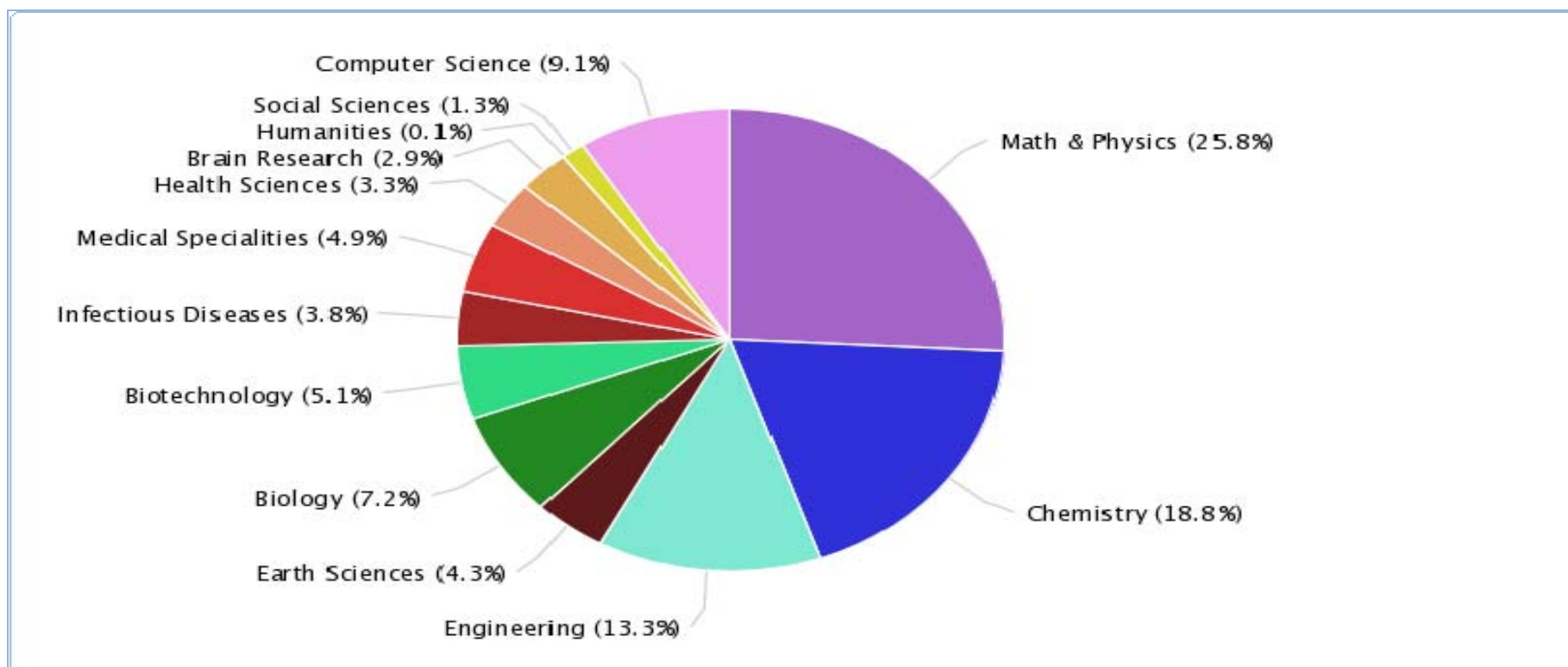


Публикационната активност на водещи научни институции в България за периода 2007-2013 г. според базата данни SCOPUS
Справки от SciVal Spotlight

Българска академия на науките

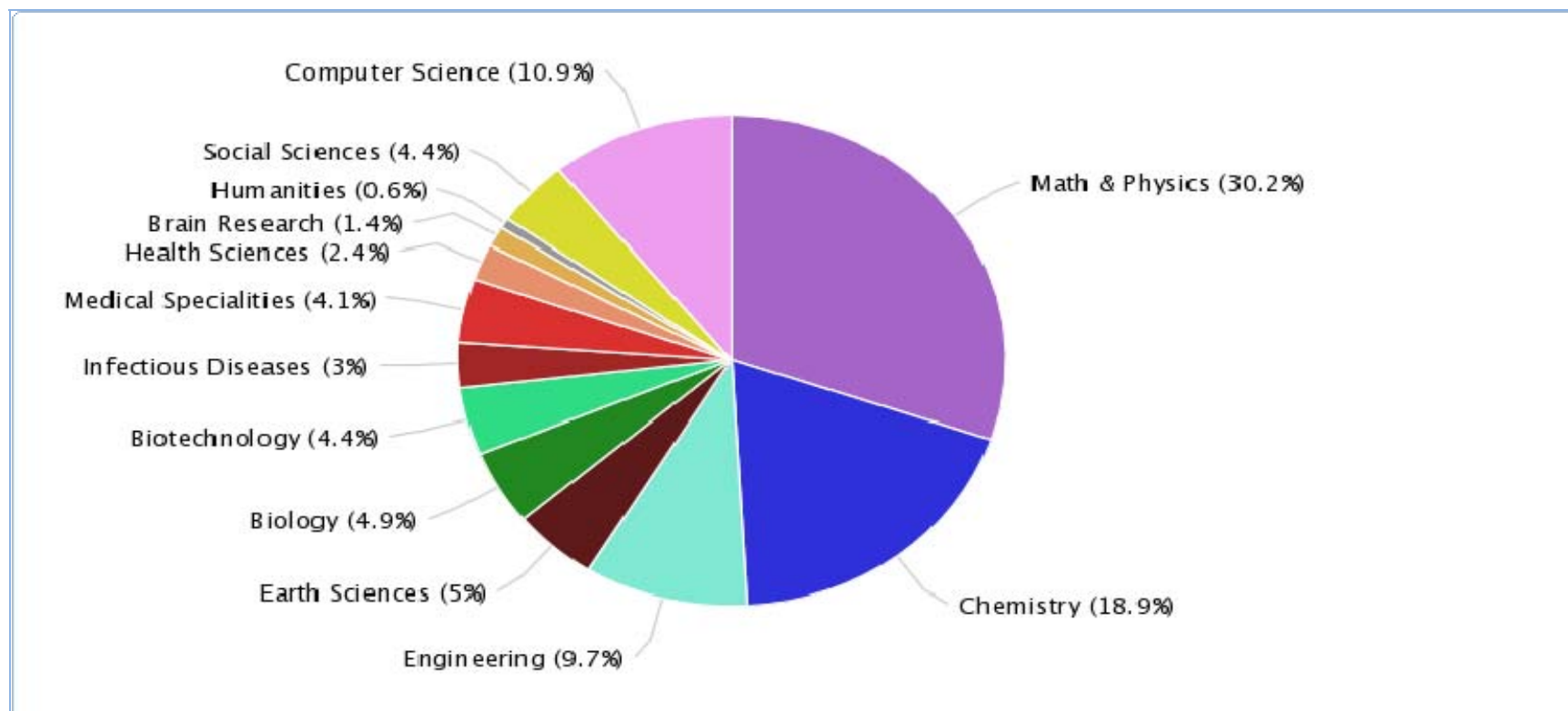
Карта на научните резултати



Учени от БАН са **публикували 8 204 статии** в SCOPUS в периода 2007-2011. От тях **7 318** са статиите в SciVal Spotlight (221 от статиите нямат базова организации и от скопус са присвоили първата организация в списъка на учените (БАН), други 86 са след май 2012 г. когато е извлечена информацията за Spotlight) **1 920 документа** са в списъка от 102 компетенции на БАН.

Софийски университет

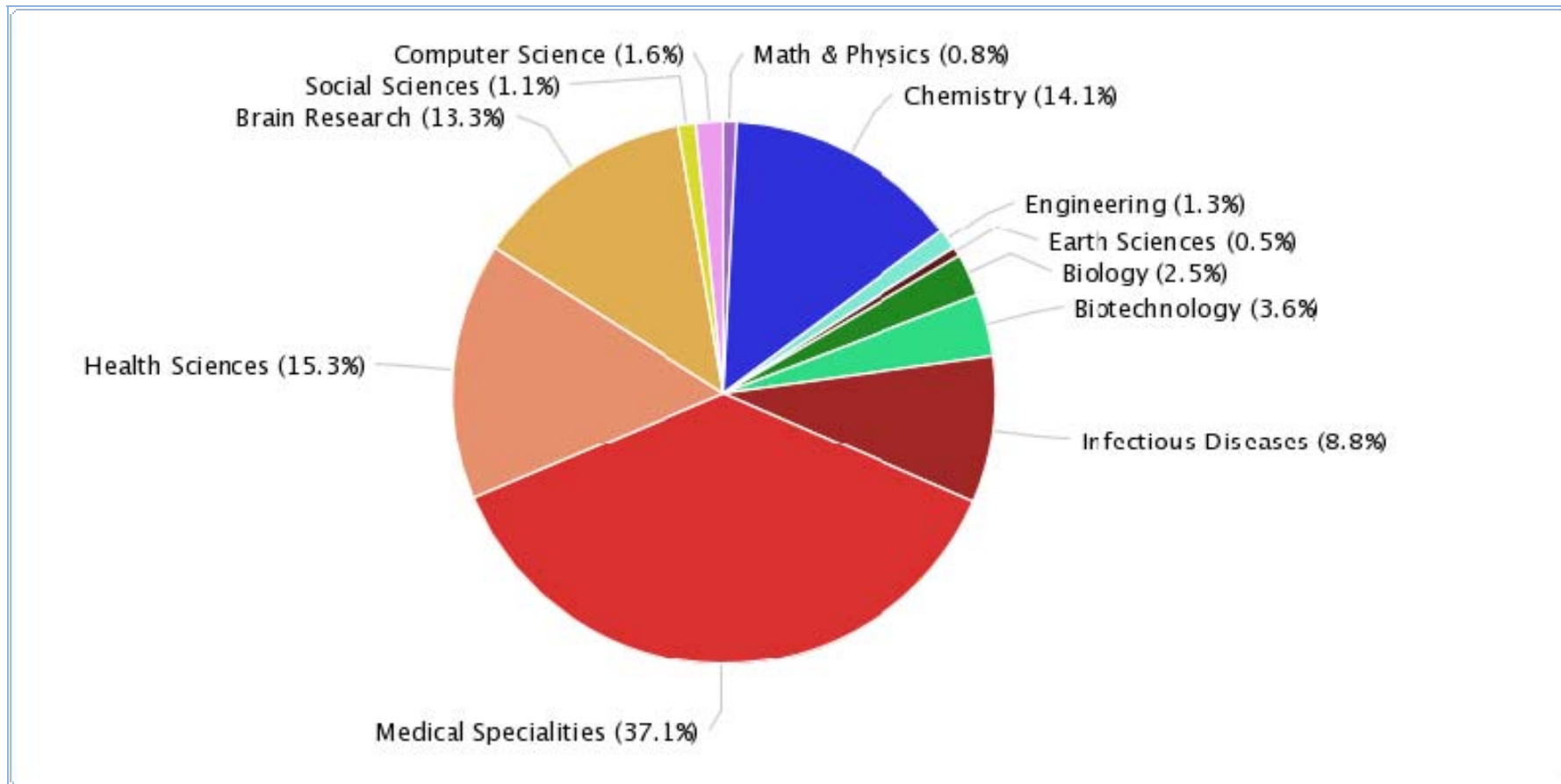
Карта на научните резултати



2 703 статии на учени от СУ се реферират в Scopus за периода 2007 – 2011 г., от тях 2 431 са в SciVal Spotlight **647** статии са в области на висока компетентност.

Медицински университет, София

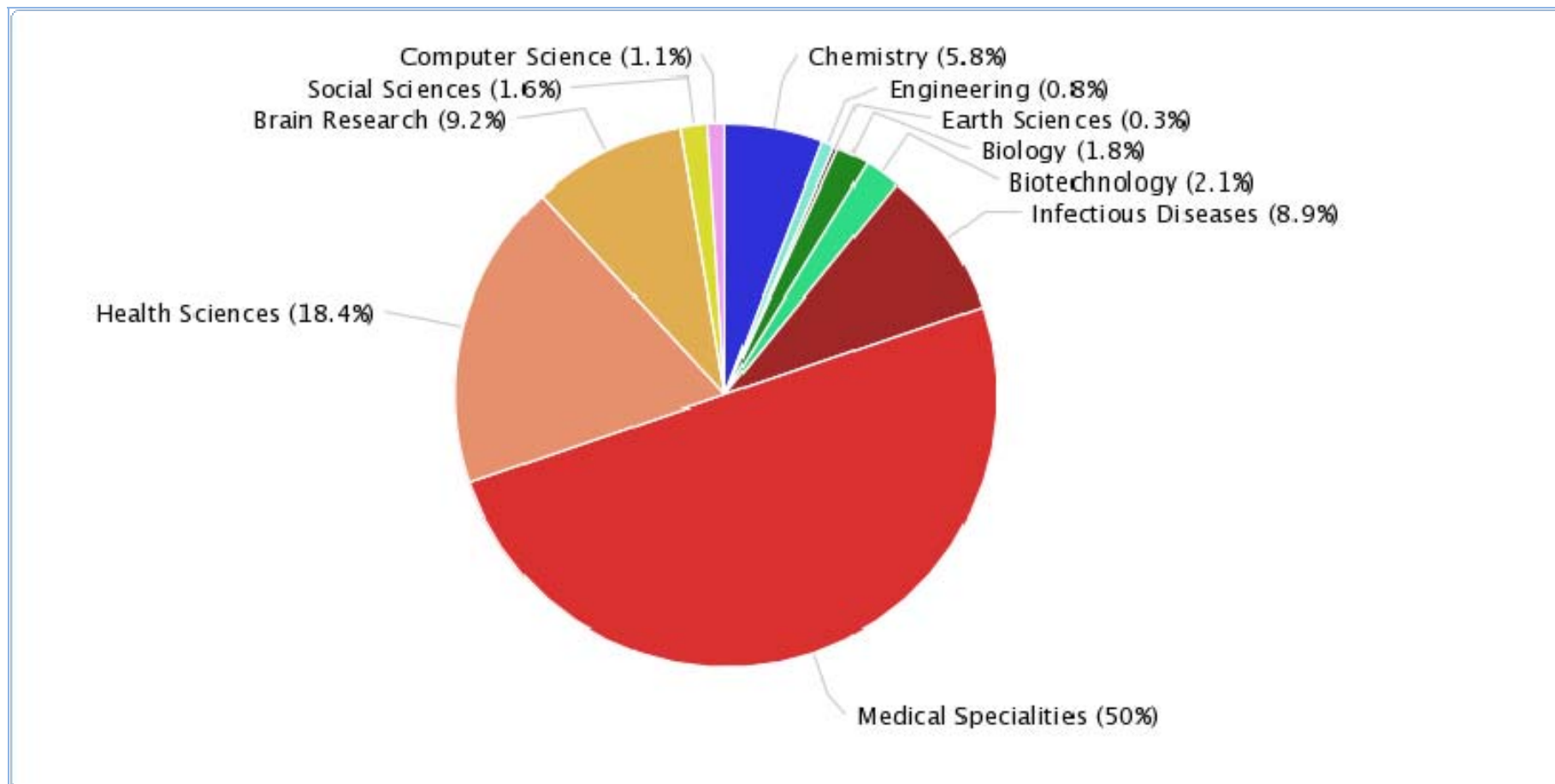
Карта на научните резултати



1 279 статии в Scopus с периода 2007-2011 г. 175 от тях са в 21 области на компетенции идентифицирани от SciVal Spotlight.

Медицински университет, Пловдив

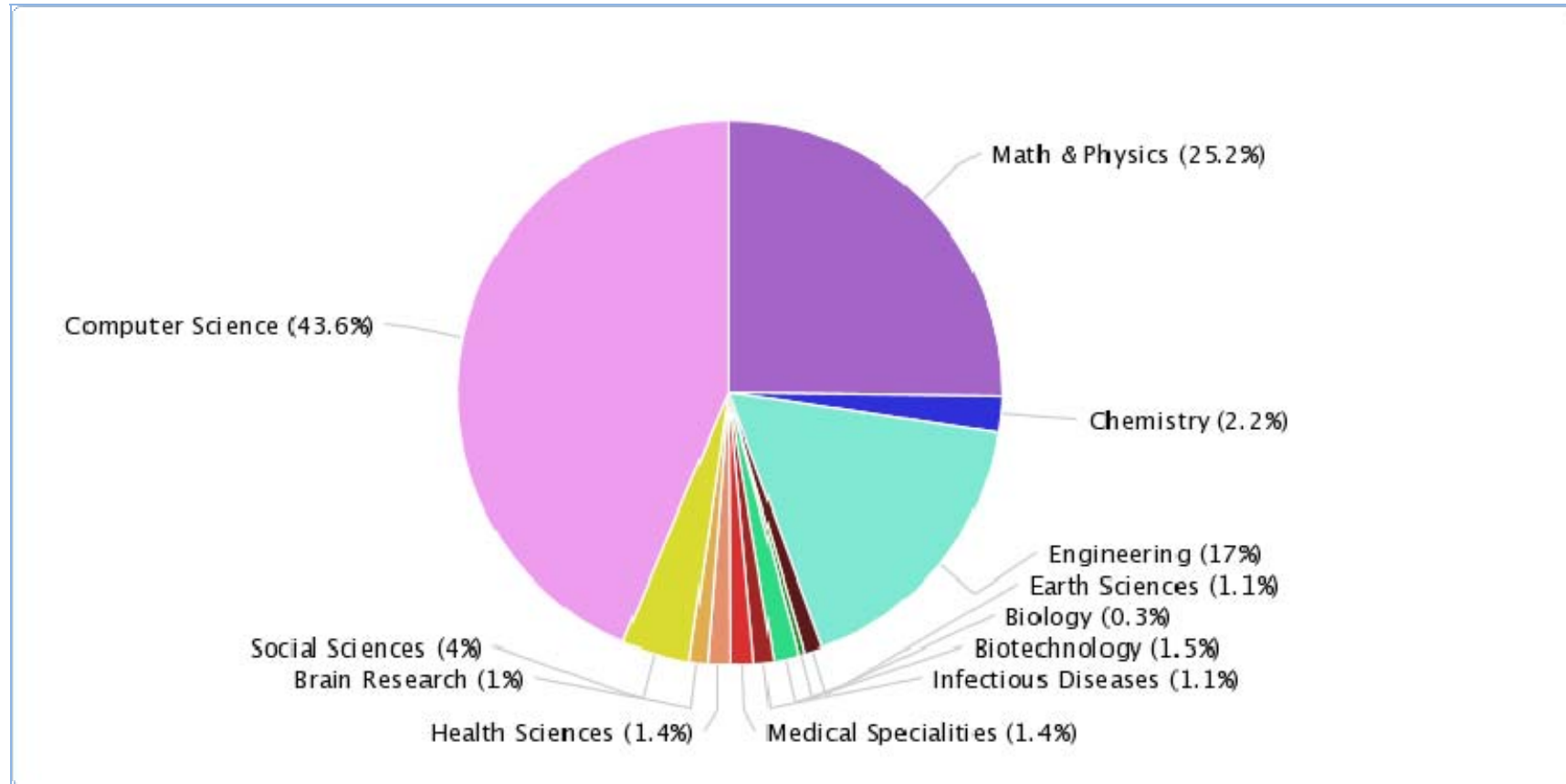
Карта на научните резултати по направления



314 статии в Scopus с периода 2007-2011 г. 6 от тях са в области на компетенции идентифицирани от SciVal Spotlight

Технически университет, София

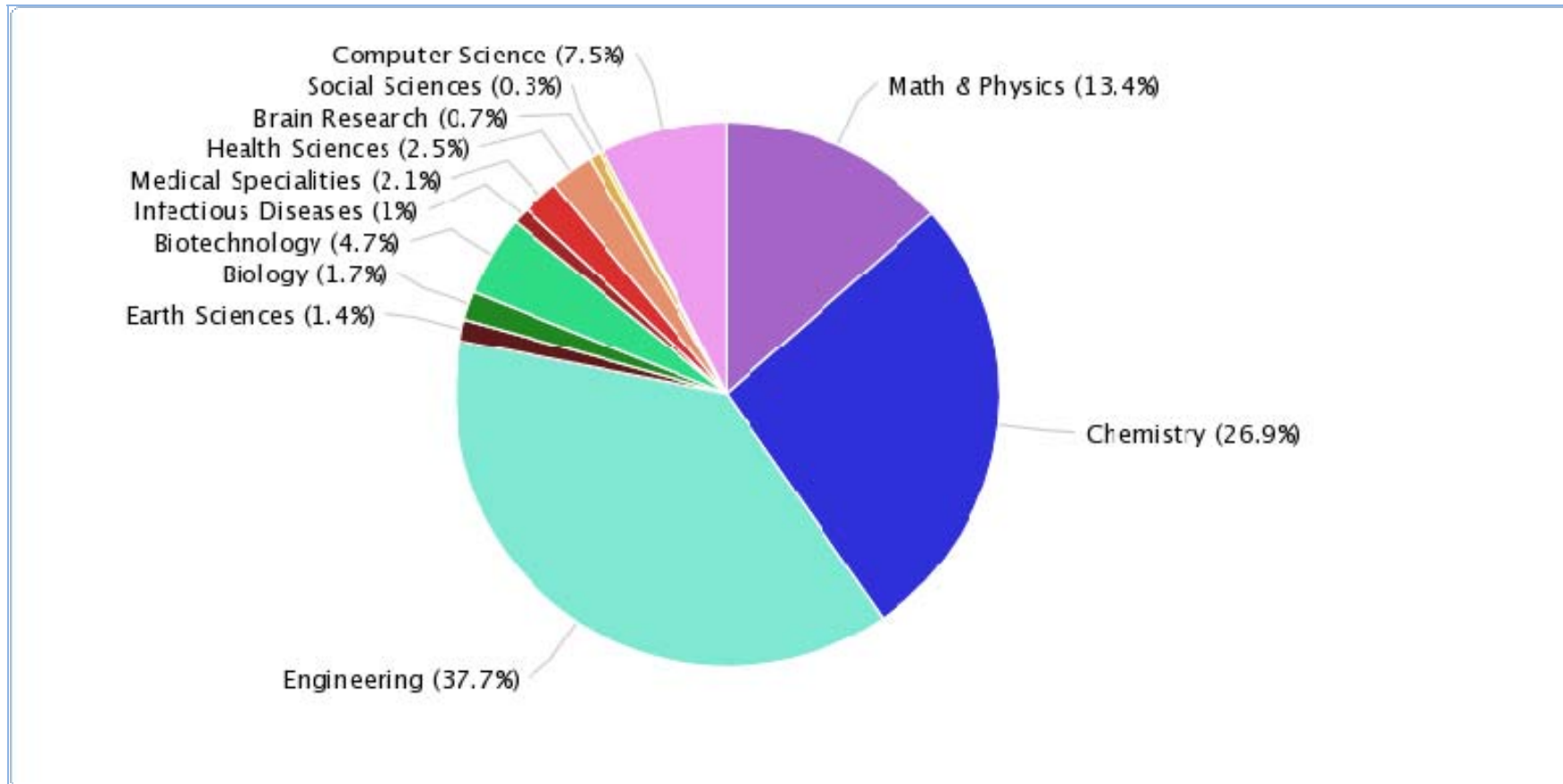
Карта на научните резултати по направления



1 185 статии на ТУ София са публикувани в периода 2007 -2011 г. в SCOPUS, 189 от тях са в групата на компетенциите на университета.

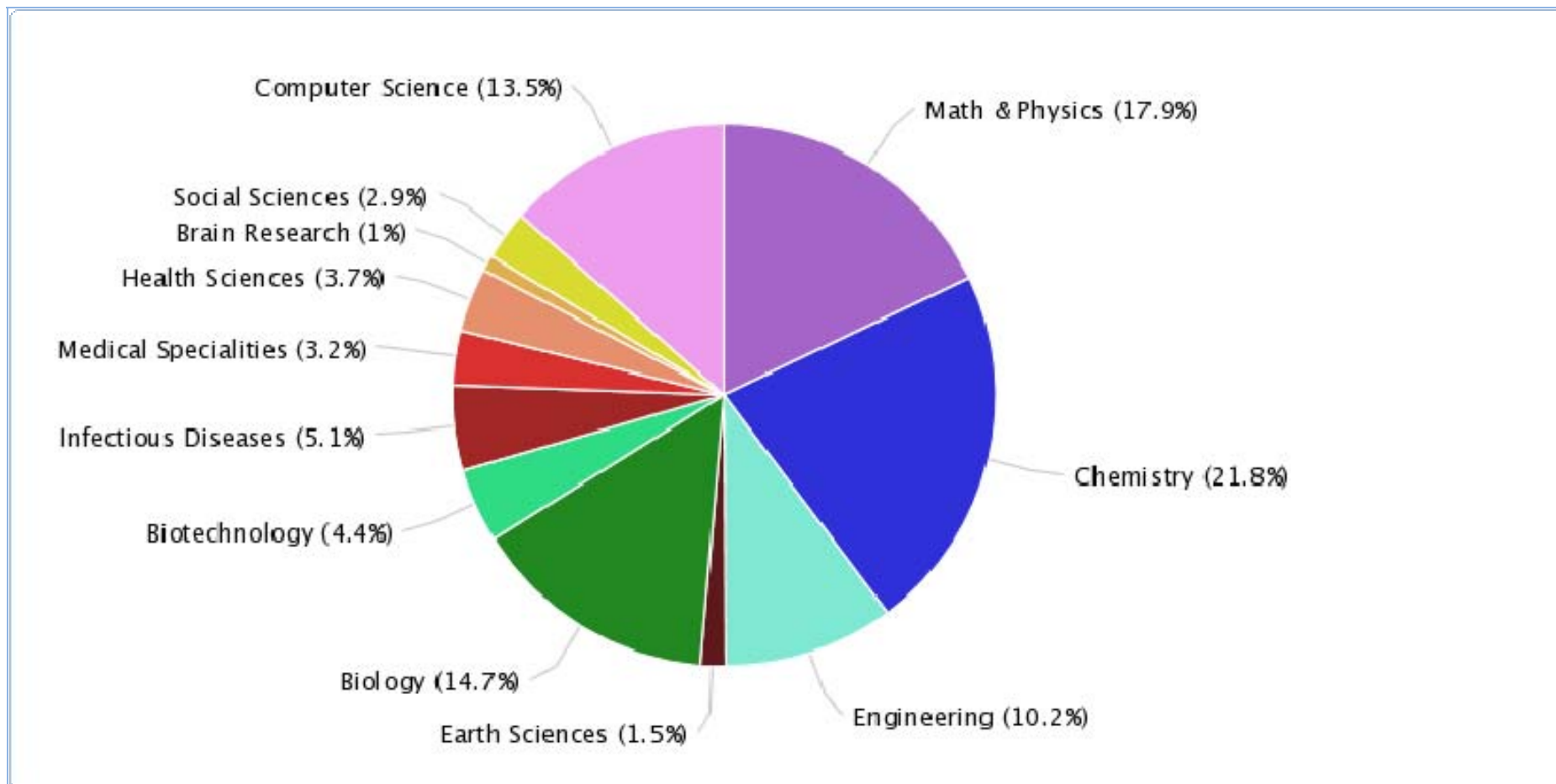
Химикотехнологичен и металургичен университет

Карта на научните резултати по направления



768 статии на ХТМУ са публикувани в периода 2007 -2011 г. в SCOPUS, 146 от тях са в групата на компетенциите на университета.

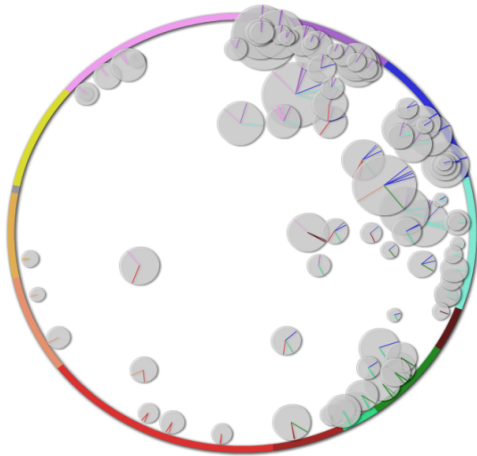
Пловдивски университет
Карта на научните публикации



519 статии на ПУ са публикувани в периода 2007 -2011 г. в SCOPUS, 55 от тях са в групата на компетенциите на университета.

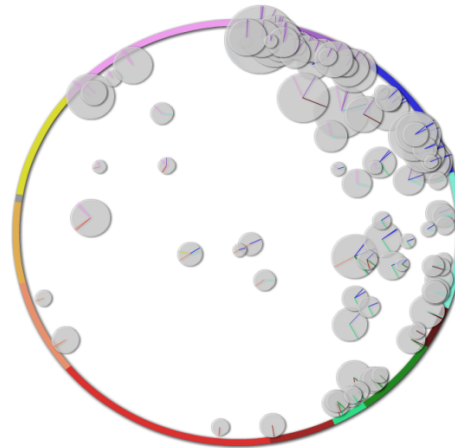
Компетенции на Българската академия на науките 2009-2011 г.

Institution Bulgarian Academy of Sciences
year 2009



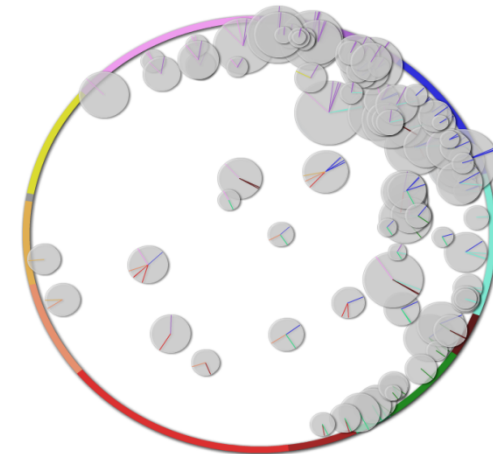
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Institution Bulgarian Academy of Sciences
year 2010



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Generated: Tue Apr 16 10:53:31 EDT 2013

Institution Bulgarian Academy of Sciences
year 2011



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През 2009 – 2010 г. най-висок брой компетентности, БАН бележи в областите физика и химия. Наблюдава се намаление на активността в „Биология, биомедицина и здраве“ и известно увеличение в ИКТ изследванията.

Subject areas

- | | |
|--|---|
| ■ Math & Physics | ■ Medical Specialities |
| ■ Chemistry | ■ Health Sciences |
| ■ Engineering | ■ Brain Research |
| ■ Earth Sciences | ■ Humanities |
| ■ Biology | ■ Social Sciences |
| ■ Biotechnology | ■ Computer Science |
| ■ Infectious Diseases | |

Компетенции 2009 г.

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
DC #1	Kashchiev D.; Milchev A.I.; Boshkov N.S.	Electrodeposition; Nucleation; Deposition	Electrochemistry; Electrochemical Development; Molecular Physics	2,129	52
DC #2	Sainov S.C.; Petkov K.; Pamukchieva V.D.	glass; Refractive index; refractivity	Semiconducting Materials; Applied Optics; Solar & Wind Power	2,128	101
DC #3	Vitanov N.V.; Cartaleva S.S.; Slavov D.G.	lasers; resonance; transition	Optics & Lasers; Surface Science; Applied Optics	1,704	77
DC #4	Bankova V.S.; Tsvetkova I.V.; Popova M.P.	Propolis; Flavonoids; Antioxidants	Ethnopharmacology; Food Chemistry; Clinical Cancer Research	1,901	41
EC #5	Georgieva K.M.; Fedina I.S.; Velitchkova M.Y.	plants; leaves; chlorophyll	Ecological Modeling; Plant Physiology; Horticulture	2,018	23
DC #6	Milchev A.I.; Pesheva N.C.; Iliev S.D.	polymers; Contact angle; Surfaces	Fluid Mechanics; Macromolecules & Polymers; Surface Science	2,018	41
DC #7	Ivanova T.M.; Gesheva K.A.; Zhecheva E.N.	Lithium; Cathodes; Materials	Electrochemistry; Surface Coating Technology; Semiconducting Materials	1,523	63
DC #8	Kolev T.M.; Shivachev B.L.; Yancheva D.Y.	chemical compounds; hydrogen bonds; Hydrogen	Crystallography; Thermal Analysis; Inorganic Chemistry	1,276	72
EC #9	Troev K.D.; Vasileva-Tonkova E.S.; Gousterova A.	Feathers; Keratins; Peptide Hydrolases	Organic Chemistry; Microbiology Biotechnology	1,164	20
DC #10	Exerowa D.R.; Kolarov T.; Cohen R.D.	Surface active agents; Surface Tension; Surface-Active Agents	Microbiology Biotechnology; Enzyme Microbiological Techniques; Colloid	1,043	38
DC #11	Andreeva D.H.; Ilieva L.I.; Tabakova T.	Gold; Catalysts; Oxidation	Catalysis	1,078	51
EC #12	Petkov P.; Balabanski D.L.; Venkova T.	nuclei; bands; models	Nuclear Physics	750	60
EC #13	Grigorov I.V.; Kolev N.I.; Stoyanov D.V.	Optical radar; Aerosols; ozone	Remote Sensing; Applied Optics; Atmospheric Geophysics	775	33
DC #14	Velinov P.I.Y.; Mishev A.L.; Mateev L.N.	cosmic ray; cosmic rays; solar activity	Space Research; Astronomy & Astrophysics; Nuclear Instrumentation	850	38

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
DC #15	Atanassova E.D.; Paskaleva A.; Spassov D.	Leakage currents; Films; Oxides	Semiconducting Materials	998	49

През 2009 г. областите на компетентност на БАН са 90. На първо място са изследванията в областите: Електрохимия; Молекулярна физика; Приложна оптика; Слънчева и Вятърна енергия; Материалознание; Екологично моделиране; Микробиология; Полимери; Кристалография; Химия; Ядрена физика и др.

Компетентност 1 – електрохимия, молекулярна физика, водещи изследователи са:

Author		Articles published in this field	Fractionalized article count
1. Kashchiev D.	Bulgarian Academy of Sciences	8	6.7
2. Milchev A.I.	Bulgarian Academy of Sciences	6	5.8
3. Boshkov N.S.	Bulgarian Academy of Sciences	7	4.7

Компетентност 2 – Материалознание, стъкло, рефракция

Author		Articles published in this field	Fractionalized article count
1. Sainov S.C.	Bulgarian Academy of Sciences	12	9.1
2. Petkov K.	Bulgarian Academy of Sciences	11	9.0
3. Pamukchieva V.D.	Bulgarian Academy of Sciences	10	8.3

Компетентност 2 – Лазери, оптика

Author		Articles published in this field	Fractionalized article count
1. Vitanov N.V.	Bulgarian Academy of Sciences	36	26.8
2. Cartaleva S.S.	Bulgarian Academy of Sciences	23	21.3

3.	Slavov D.G.	Bulgarian Academy of Sciences	21	18.8
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Компетенции 2010

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
DC #1	Petkova T.; Petkov K.; Tasseva J.	Glass; Chalcogenides; Amorphous materials	Solar & Wind Power; Surface Science; Signal Processing	1,656	67
DC #2	Balabanski D.L.; Petkov P.; Stoitsov M.V.	nuclei; neutrons; models	Nuclear Physics; Nuclear Instrumentation; Chaos Fractals & Complexity	1,506	114
DC #3	Milchev A.I.; Pesheva N.C.; Iliev S.D.	polymers; Chains; Brushes	Macromolecules & Polymers; Surfactants; Molecular Physics	1,627	46
EC #4	Galabova D.N.; Vasileva-Tonkova E.S.; Cohen R.D.	Nocardia; Nocardia Infections; Surface Tension	Enzyme Microbiological Techniques; Clinical Microbiology; Microbiology Biotechnology	1,065	16
EC #5	Panajotov K.P.; Panajotov K.P.; Tonchev S.H.	Surface emitting lasers; cavities; modes	Applied Optics	848	48
DC #6	Yordanov N.D.; Pavlov A.I.; Georgiev M.I.	Plants; roots; radicals	Food Chemistry; Ecological Modeling; Plant Physiology	1,210	48
EC #7	Busheva M.C.; Velitchkova M.Y.; Zeinalov Y.	Photosystem II Protein Complex; light; Chlorophyll	Peptides; Plant Physiology; Horticulture	1,354	29
EC #8	Bankova V.S.; Tsvetkova I.V.; Popova M.P.	Propolis; Flavonoids; Bees	Ethnopharmacology; Phytochemistry; Food Protection	964	22
DC #9	Tabakova T.; Hadjiivanov K.I.; Idakiev V.	Catalysts; Gold; Oxidation	Catalysis	1,238	48
DC #10	Tsoncheva T.; Popova M.D.; Mitov I.G.	Catalysts; Catalyst activity; Oxidation	Catalysis; Carbon	1,144	39
EC #11	Drensky V.; Genov G.K.	Field; Algebra; Characteristics	Algebra	682	18

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
DC #12	Doukovska L.A.; Garvanov I.; Kabakchiev C.A.	Radar; Targets; Detectors	Aerospace; Signal Processing	790	19
DC #13	Gesheva K.A.; Ivanova T.M.; Kalitzova M.G.	Tungsten; Thin films; Films	Semiconducting Materials; Russian Chemistry Research; Catalysis	915	30
EC #14	Vitanov N.V.; Boradjiev I.I.	pulses; populations; level	Optics & Lasers	884	34
DC #15	Nedeltchev S.; Vlaev S.D.; Kolev N.I.	Bubble columns; Liquids; Velocity	Chemical Engineering	671	16

Под номер 1 са изследванията в областта „Слънчева и вятърна енергия“

Author		Articles published in this field	Fractionalized article count
1. Petkova T.	Bulgarian Academy of Sciences	14	10.1
2. Petkov K.	Bulgarian Academy of Sciences	12	9.8
3. Tasseva J.	Bulgarian Academy of Sciences	9	7.1
4. Ivanova Z.G.	Bulgarian Academy of Sciences	11	7.0

На второ място се нареждат ядрените изследвания с водещи автори:

Author		Articles published in this field	Fractionalized article count
1. Balabanski D.L.	Bulgarian Academy of Sciences	18	15.3
2. Petkov P.	Bulgarian Academy of Sciences	16	13.0
3. Stoitsov M.V.	Bulgarian Academy of Sciences	17	8.7

На 3 място – Полимери с водещи автори:

Author		Articles published in this field	Fractionalized article count
1.	Milchev A.I. Bulgarian Academy of Sciences	34	22.0
2.	Pesheva N.C. Bulgarian Academy of Sciences	4	3.6
3.	Iliev S.D. Bulgarian Academy of Sciences	4	3.6

Компетенции 2011 г.

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
DC #1	Tsoncheva T.; Savova B.; Popova M.D.	Catalysts; Dehydrogenation; Oxidation	Catalysis; Carbon; Chemistry & Material Science	2,037	40
EC #2	Bankova V.S.; Tsvetkova I.V.; Popova M.P.	Propolis; Flavonoids; Bees	Ethnopharmacology; Food Chemistry; Flavors & Fragrance	1,717	38
DC #3	Hadjiivanov K.I.; Mihaylov M.Y.; Andreeva D.H.	Catalysts; Catalyst activity; Gold	Catalysis; Computational Chemistry	1,669	83
DC #4	Avramov I.; Petkova T.; Petkov K.	glass; refractivity; Optical properties	Solar & Wind Power; Surface Science; Applied Optics	1,515	64
DC #5	Iordanova R.S.; Ivanova T.M.; Gesheva K.A.	Thin films; Films; Electrochromism	Semiconducting Materials; Inorganic Chemistry; Solar & Wind Power	1,370	43
EC #6	Velikova V.B.; Apostolova E.L.; Dankov K.G.	Photosystem II Protein Complex; leaves; photosystem II	Plant Physiology; Ecological Modeling; Electro Analytical Chemistry	1,638	37
EC #7	Georgieva K.M.; Demirevska K.N.; Vaseva I.I.	plants; Desiccation; drought	Plant Physiology; Surfactants	1,519	34
EC #8	Gospodinov M.M.; Milenov T.I.; Rafailov P.M.	Ferroelectric materials; Perovskite; Manganese	Surface Science; Semiconducting Materials	1,089	16
DC #9	Georgiev M.I.; Pavlov A.I.; Georgiev V.G.	Alkaloids; Plants; Acetylcholinesterase	Ecological Modeling; Ethnopharmacology; Phytochemistry	1,295	33
EC #10	Cartaleva S.S.; Slavov D.G.; Petrov L.A.	vapors; Rubidium; cells	Instrumentation; Semiconducting Materials; Applied Optics	789	36
EC #11	Nacheva L.R.; Aleksieva P.P.; Vasileva-Tonkova E.S.	Feathers; Silica; Enzymes	Microbiology Biotechnology; Chemistry & Material Science; Enzyme Microbiological Techniques	1,037	15
DC #12	Troev K.D.; Kirkova M.D.; Todorov S.B.	Receptors, Opioid; Receptors, Peptide; Rats	Organic Chemistry; Pharmaceutical Design; Phytochemistry	1,349	29

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
DC #13	Rangelov T.V.; Dineva P.S.; Stoynov Y.D.	Piezoelectric materials; Cracks; Solutions	Mechanics of Solids & Structures; Russian Mathematics	895	17
DC #14	Karamanov A.; Exerowa D.R.; Alexandrova L.B.	Glass ceramics; Films; Glass	Ceramics; Physics; Current Developments; Surfactants	1,132	58
DC #15	Cohen R.D.; Galabova D.N.; Vasileva-Tonkova E.S.	Surface Tension; Surface-Active Agents; Economics	Enzyme Microbiological Techniques; Microbiology Biotechnology; Weed Management	1,087	20

През 2011 г. по отношение на предходните се наблюдава увеличение на компетентностите на 102 като в химията и физико-химията то е най-значимо. Продължава нарастването в областта на ИКТ докато в медицинските специалности компетенциите намаляват.

Компетенция 1, през 2011 г. е в областта на катализата с водещи изследователи:

Author		Articles published in this field	Fractionalized article count
1. Tsoncheva T.	Bulgarian Academy of Sciences	7	4.5
2. Savova B.	Bulgarian Academy of Sciences	4	4.0
3. Popova M.D.	Bulgarian Academy of Sciences	7	3.4

















Компетенция 2 - в областта на здравето и природните продукти














Author		Articles published in this field	Fractionalized article count
1. Bankova V.S.	Bulgarian Academy of Sciences	18	14.4
2. Tsvetkova I.V.	Bulgarian Academy of Sciences	12	8.2
3. Popova M.P.	Bulgarian Academy of Sciences	7	6.2

Компетенция 3 – катализа

Author		Articles published in this field	Fractionalized article count
1. Hadjiivanov K.I.	Bulgarian Academy of Sciences	38	23.6
2. Mihaylov M.Y.	Bulgarian Academy of Sciences	18	11.2
3. Andreeva D.H.	Bulgarian Academy of Sciences	14	8.8

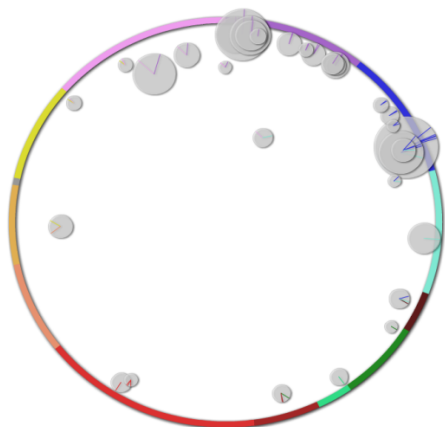
Сътрудничество

			Co-authored articles	Co-authored articles in competencies
1.		University of Sofia	768	186
2.		Joint Institute for Nuclear Research	261	55
3.		University of Chemical Technology and Metallurgy Sofia	242	84
4.		CSIC	234	84
5.		Hungarian Academy of Sciences	217	30
6.		ETH Zurich	198	83
7.		Medical University Sofia	194	21
8.		INFN	194	61
9.		Deutsches Elektronensynchrotron DESY	191	75
10.		CEA Saclay	186	62
11.		University of Padova	185	70
12.		University of Hamburg	180	43
13.		CERN	179	33
14.		Czech Academy of Sciences	171	65
15.		RAS - Pn Lebedev Physics Institute	160	46
16.		University of Warsaw	159	25

17.		Vrije Universiteit Brussel	158	40
18.		Armenian Academy of Sciences - Yerevan Physics Institute	158	64
19.		RWTH Aachen University	154	47
20.		Polish Academy of Sciences	152	43
21.		Alikhanov Institute for Theoretical and Experimental Physics	152	41
22.		Rutherford Appleton Laboratory	150	42
23.		Universite Paris-Sud	149	80
24.		University of Pisa	148	50
25.		University of Zurich	145	42
26.		Ghent University	142	21
27.		Paul Scherrer Institut	141	42
28.		Universitat Dortmund	141	100
29.		University of Antwerp	140	47

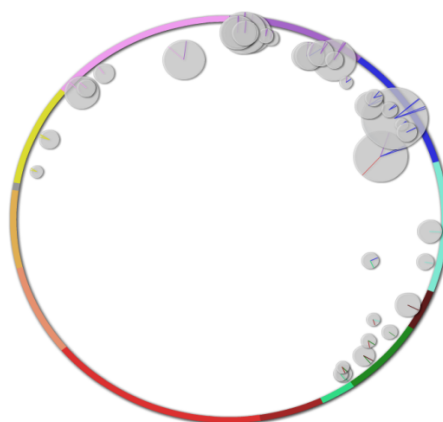
През последните години се наблюдава нарастване на компетенциите на СУ от 32 на 38 до 42 през 2011 г.

Institution
year
University of Sofia
2009



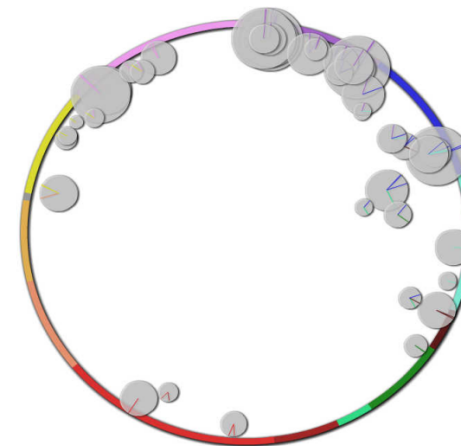
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Institution
year
University of Sofia
2010



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Institution
year
University of Sofia
2011



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Subject areas

- | | |
|--|---|
| ■ Math & Physics | ■ Medical Specialities |
| ■ Chemistry | ■ Health Sciences |
| ■ Engineering | ■ Brain Research |
| ■ Earth Sciences | ■ Humanities |
| ■ Biology | ■ Social Sciences |
| ■ Biotechnology | ■ Computer Science |
| ■ Infectious Diseases | |

От графиките се вижда ясно, че през 2011 г. има увеличение на изследванията в областта на ИКТ, социалните науки и медицинските специалности, както и натрупване на нови компетенции в областта на физиката, математиката, химията

Компетенции 2009, СУ

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
EC #1	Spassov T.; Solsona P.; Delchev P.	Hydrogen storage; Hydrogen; Desorption	Alloys	1,000	23
DC #2	Koleva B.B.; Ivanova B.B.; Zareva S.Y.	Infrared spectroscopy; computation; Calculations	Computational Chemistry; Thermal Analysis; Inorganic Chemistry	1,071	86
EC #3	Shivarova A.P.; Kolev S.K.; Tsankov T.	plasmas (physics); discharge; negative ions	Plasma Physics; Semiconducting Materials; Physics; Current Developments	847	35
DC #4	Denkov N.D.; Manev E.D.; Tcholakova S.	foams; Surface active agents; Films	Surfactants; Colloid; Food Chemistry	1,061	51
EC #5	Lalkovski S.; Rainovski G.I.; Lozeva R.L.	nuclei; neutrons; isotopes	Nuclear Physics	702	61
EC #6	Simeonov V.V.; Tsakovski S.L.	water quality; cluster analysis; principal component analysis	Water Resource; Thermal Analysis; Environmental Pollution	798	11
DC #7	Vitanov N.V.; Ivanov P.A.; Rangelov A.A.	pulses; level; populations	Optics & Lasers	773	40
DC #8	Saltiel S.M.; Dreischuh A.A.; Saltier S.	crystals; harmonic generations; phase matching	Applied Optics; Semiconducting Materials	576	36
DC #9	Dushkin C.D.; Yordanov G.G.; Gicheva G.D.	Nanocrystals; Semiconductor quantum dots; Cadmium compounds	Computational Chemistry; Nanotechnology; Ceramics	897	13
EC #10	Ivanov S.I.; Zamkovoy S.; Ivanov P.A.	Manifold; Structure; Compact	Topology; High Energy Physics	530	12
EC #11	Pashov A.	molecules; potential energy; ground state	Optics & Lasers	708	20
EC #12	Pressyanov D.S.; Mitev K.K.; Dimitrova I.	Isotopes; activity; Radioisotopes	Radiation Protection	407	7
EC #13	Yazadjiev S.S.; Nedkova P.G.	black holes (astronomy); rings; solutions	High Energy Physics	549	14
EC #14	Valcheva R.; Ivanova I.V.; Kabadjova P.	sourdough; Lactobacillus; Lactic Acid	Food Protection	478	9
EC #15	Popov V.N.	carbon nanotubes; breathing; nanotubes	Surface Science	612	13

Компетенция 1 – Водород, съхранение, разпадане, сплави

Author	Articles published in this field	Fractionalized article count
1. Spassov T. University of Sofia	22	16.7
2. Solsona P. University of Sofia	4	3.5
3. Delchev P. University of Sofia	4	3.5

Компетенция 2 – Неорганична химия, спектрални анализи, изчислителна химия

Author	Articles published in this field	Fractionalized article count
1. Koleva B.B. University of Sofia	33	29.0
2. Ivanova B.B. University of Sofia	25	21.6
3. Zareva S.Y. University of Sofia	17	15.6
4. Nikolova R.D. University of Sofia	14	11.9

Компетенция 3 – плазма, физика, електрохимия

Author	Articles published in this field	Fractionalized article count
1. Shivarova A.P. University of Sofia	19	14.8
2. Kolev S.K. University of Sofia	10	6.8
3. Tsankov T. University of Sofia	8	5.2

Компетенции 2010 г., СУ

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
DC #1	Danov K.D.; Kralchevsky P.A.; Manev E.D.	Surface active agents; surfactants; Interfaces (materials)	Colloid; Surfactants; Surface Science	1,959	70
DC #2	Yazadjiev S.S.; Fiziev P.P.; Nedkova P.G.	black holes (astronomy); solutions; horizon	High Energy Physics; Chaos Fractals & Complexity	1,088	38
DC #3	Koleva B.B.; Zareva S.Y.; Ivanova B.B.	Infrared spectroscopy; Spectrum Analysis; Gold	Inorganic Chemistry; Thermal Analysis; Computational Chemistry	1,083	89
DC #4	Vitanov N.V.; Rangelov A.A.; Ivanov P.A.	pulses; populations; level	Optics & Lasers	884	39
EC #5	Simeonov V.V.; Tsakovski S.L.; Topalova I.	water quality; principal component analysis; cluster analysis	Ecological Modeling; Atmospheric Geophysics	920	12
EC #6	Lalkovski S.; Atanasova L.A.; Lozeva R.L.	nuclei; neutrons; bands	Nuclear Physics; Nuclear Instrumentation	624	42
EC #7	Wesselinowa J.M.; Dimitrov D.T.; Mitkova E.	Magnetic properties; Nanoparticles; Saturation magnetization	Surface Science; Superconductor Science	999	9
DC #8	Tadger A.V.; Ivanova A.N.; Tzvetanov S.A.	Polyaniline; dielectrics; lipids	Computational Chemistry; Semiconducting Materials; Macromolecules & Polymers	1,170	17
EC #9	Pashov A.; Yordanov V.; Blagoev A.B.	molecules; potential; potential energy	Optics & Lasers; Molecular Physics	705	19
EC #10	Spasov T.; Todorova S.; Himitliiska T.	Hydrogen storage; Hydrogen; Desorption	Alloys	568	14
EC #11	Tcholakova S.; Denkov N.D.; Vankova N.	Drops; Size distribution; Coalescence	Chemical Engineering	515	8
EC #12	Vayssilov G.N.; Petrova G.P.; Ilieva S.V.	Ribosomes; RNA, Transfer; Peptidyl Transferases	Computational Chemistry; Protein Science	705	8

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
EC #13	Vakarelov D.; Iliev P.; Tinchev T.	Modal logic; Hybrid logic; Logic	Logic; Data Mining	590	10
EC #14	Lalov I.J.; Zhelyazkov I.I.; Ivanov V.G.	thin films; films; excitons	Surface Science; Macromolecules & Polymers; Semiconducting Materials	741	19
EC #15	Ivanov S.I.; Mihova V.; Tsankov Y.T.S.	Manifold; manifolds; Structure	Topology; High Energy Physics	504	13

Компетенция 1- Повърхностно активни вещества

Author	Articles published in this field	Fractionalized article count
1. Danov K.D. University of Sofia	21	16.0
2. Kralchevsky P.A. University of Sofia	17	13.9
3. Manev E.D. University of Sofia	13	10.9
4. Denkov N.D. University of Sofia	14	7.6

Компетенция 2 – физика на високите енергии, астрономия

Author	Articles published in this field	Fractionalized article count
1. Yazadjiev S.S. University of Sofia	32	27.8
2. Fiziev P.P. University of Sofia	5	4.2
3. Nedkova P.G. University of Sofia	4	4.0

Компетенция 3 – Неорганична химия, термални анализи

Author	Articles published in this field	Fractionalized article count
1. Koleva B.B. University of Sofia	34	29.7
2. Zareva S.Y. University of Sofia	19	18.1
3. Ivanova B.B. University of Sofia	17	14.5

Компетенции 2011 г., СУ

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
DC #1	Vitanov N.V.; Torosov B.T.; Ivanov P.A.	pulses; populations; level	Optics & Lasers	1,283	48
DC #2	Yazadjiev S.S.; Gylchev G.N.; Stefanov I.Z.	black holes (astronomy); horizon; gravitation	High Energy Physics	1,094	42
EC #3	Minkovski N.I.; Kourtev S.; Saltiel S.M.	pulses; lasers; contrast	Applied Optics	720	22
DC #4	Shivarova A.P.; Kolev S.K.; Lishev S.S.	plasmas (physics); negative ions; discharge	Plasma Physics; Semiconducting Materials	712	34
EC #5	Ivanov S.I.	Manifold; Compact; Kähler	Topology; High Energy Physics	910	7
EC #6	Saltiel S.M.; Dreischuh A.A.; Saltier S.	crystals; harmonic generations; photonics	Applied Optics	541	32
DC #7	Manev E.D.; Karakashev S.I.; Tsekov R.	foams; Films; Surface active agents	Surfactants; Colloid	763	49
DC #8	Spasov T.; Drenchev B.; Todorova S.	Hydrogen storage; Hydrogen; Desorption	Alloys	557	18
EC #9	Lalkovski S.; Atanasova L.A.; Detistov P.	nuclei; decay; neutrons	Nuclear Physics	500	47
EC #10	Kozhuharov V.; Mateev M.D.; Pavlov B.N.	detectors; neutrinos; muons	High Energy Physics; Nuclear Instrumentation	640	29
EC #11	Rashkov R.C.; Arnaudov D.; Dimov H.	strings; operators; magnons	High Energy Physics	674	17
EC #12	Dimov A.; Georgieva O.G.; Gutzov S.	Software reliability; Reliability; Software architecture	Data Mining	427	7
EC #13	Dimitrova I.; Mitev K.K.; Georgiev	Radon; Isotopes; Radioisotopes	Radiation Protection	347	11

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
	S.				
EC #14	Kremenska A.	learning; Students; Teaching	Engineering Education; Language Learning	644	4
DC #15	Koleva B.B.; Zareva S.Y.; Ivanova B.B.	Acetaminophen; Polymorphism; Molecules	Pharmaceutical Research; Protein Science; Thermal Analysis	619	26

Компетенция 1 – Лазери, оптика

Author		Articles published in this field	Fractionalized article count
1. Vitanov N.V.	University of Sofia	45	32.7
2. Torosov B.T.	University of Sofia	8	7.4
3. Ivanov P.A.	University of Sofia	9	4.9

Компетенция 2 – астрономия



Author		Articles published in this field	Fractionalized article count
1. Yazadjiev S.S.	University of Sofia	38	33.2
2. Gyulchev G.N.	University of Sofia	7	6.9
3. Stefanov I.Z.	University of Sofia	5	4.3

Компетенция 3 – приложна оптика

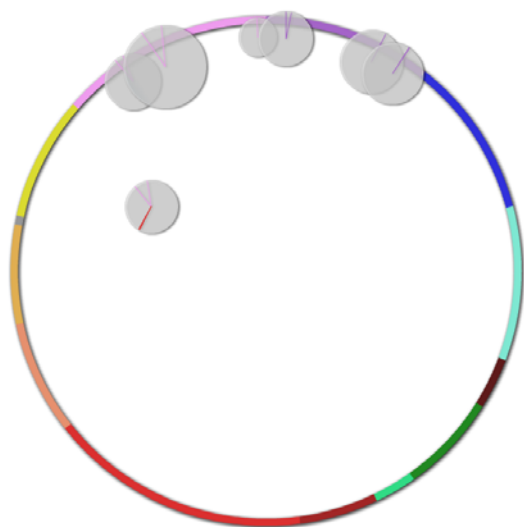
Author		Articles published in this field	Fractionalized article count
1. Minkovski N.I.	University of Sofia	21	20.6
2. Kourtev S.	University of Sofia	21	20.6
3. Saltiel S.M.	University of Sofia	20	20.0

Сътрудничество на СУ – общо и в областите на компетенции

			Co-authored articles	Co-authored articles in competencies
1.		Bulgarian Academy of Sciences	768	196
2.		Joint Institute for Nuclear Research	167	63
3.		CERN	144	52
4.		Hungarian Academy of Sciences	142	65
5.		University of Warsaw	142	73
6.		INFN	133	64
7.		CEA Saclay	118	58
8.		Universidad Autonoma de Madrid	114	70
9.		University of Rome La Sapienza	113	51
10.		University of Athens	112	42
11.		University of Padova	111	58
12.		Ruder Boskovic Institute	110	42
13.		University of Naples Federico II	106	52
14.		Moscow State University	105	49
15.		Laboratori Nazionali di Legnaro	104	58
16.		RAS - Institute for Nuclear Research	104	51
17.		RAS - Pn Lebedev Physics Institute	104	51
18.		Massachusetts Institute of Technology	104	42
19.		Imperial College London	103	53
20.		Universite Catholique de Louvain	102	51
21.		Rutherford Appleton Laboratory	102	50
22.		Ecole Polytechnique	101	54
23.		Alikhanov Institute for Theoretical and Experimental Physics	101	49

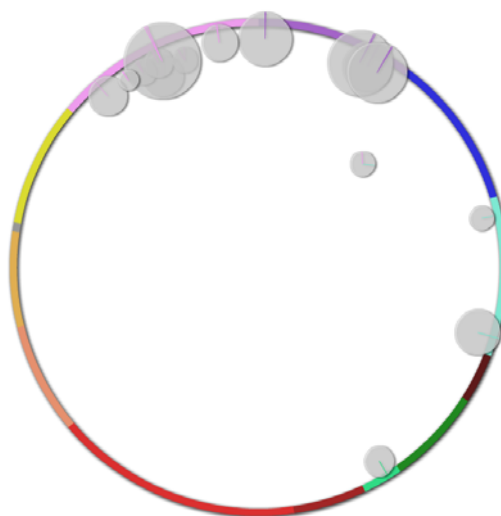
24.		Forschungszentrum Karlsruhe	100	50
25.		IN2P3 Institut National de Physique Nucleaire et de Physique des Particules	99	50

Institution
year
Technical University of Sofia
2009



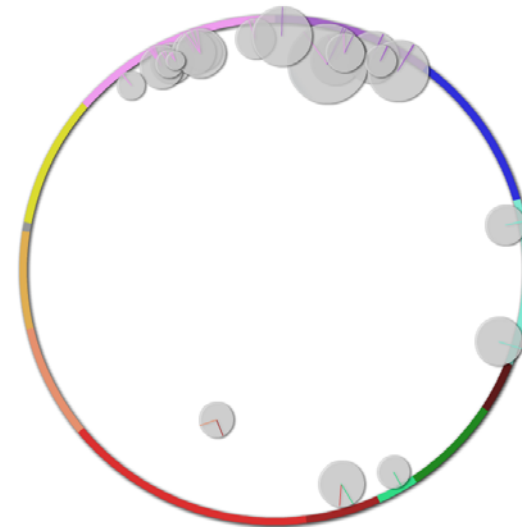
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Subject areas

- | | |
|---------------------|----------------------|
| Math & Physics | Medical Specialities |
| Chemistry | Health Sciences |
| Engineering | Brain Research |
| Earth Sciences | Humanities |
| Biology | Social Sciences |
| Biotechnology | Computer Science |
| Infectious Diseases | |

Компетенциите на ТУ нарастват от 7 през 2009 г. през 16 в 2010 г. на 21 компетенции през 2011 г. като се наблюдават компетенции в нови области.

Компетенции 2009 г.

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
EC #1	Dimitrova M.B.; Markova N.T.; Donev V.I.	Oscillation; Sufficient conditions; Nonlinear	Nonlinear Analysis	532	9
EC #2	Petkov P.H.R.; Yonchev A.S.; Gilev B.	Linear matrix inequalities; Controllers; Control	Automatic Control	522	4
EC #3	Mihov G.S.; Georgieva T.; Stoyanov G.K.	Electrocardiography; Algorithms; Database systems	Image Processing; Signal Processing; Drug Safety	418	7
EC #4	Tarnev K.H.; Tarnev K.T.; Christova M.	plasmas (physics); discharge; electrons	Semiconducting Materials; Plasma Physics; Physics; Current Developments	395	7
EC #5	Peeva K.G.; Zahariev Z.; Atanasov I.I.	Fuzzy relation equations; Solutions; Fuzzy relational equations	Fuzzy Sets; Data Mining	248	7
EC #6	Todorov M.D.; Stefanov I.Z.; Georgieva D.A.	black holes (astronomy); solutions; gravitation	High Energy Physics	259	10
EC #7	Mastorakis N.E.; Perescu-Popescu L.	Insulation; Losses; Temperature	Data Mining; Power Transmission	201	15

Компетенция 1 – нелинейни анализи

Author		Articles published in this field	Fractionalized article count
1. Dimitrova M.B.	Technical University of Sofia	4	4.0
2. Markova N.T.	Technical University of Sofia	5	3.9
3. Donev V.I.	Technical University of Sofia	3	3.0

Компетенция 2 – автоматизация

Author		Articles published in this field	Fractionalized article count
1. Petkov P.H.R.	Technical University of Sofia	4	2.9

2.	Yonchev A.S. Technical University of Sofia	3	1.9
3.	Gilev B. Technical University of Sofia	1	1.0

Компетенция 3- електрокардиография,

Author	Articles published in this field	Fractionalized article count
1. Mihov G.S. Technical University of Sofia	4	3.1
2. Georgieva T. Technical University of Sofia	1	1.0
3. Stoyanov G.K. Technical University of Sofia	1	1.0

Компетенции 2010 г.

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
EC #1	Mastorakis N.E.	Software engineering; Models; Estimation	Systems Software; Automatic Control	853	7
EC #2	Petkov P.H.R.; Yonchev A.S.; Venkov G.I.	Nonlinear matrix equation; Matrix algebra; Positive definite solution	Applied Math & Computation; Optimization Theory	607	12
EC #3	Stamov G.T.R.; Bijev G.; Karandjulov L.I.	Impulsive; Impulse; Differential equations	Nonlinear Analysis; Applied Math & Computation	606	19
EC #4	Petrova D.; Stoichev S.D.	Proteins; Alignment; Structure (composition)	Bioinformatics	682	3
EC #5	Lazarova M.; Borovska P.; Bahudejla S.	Algorithms; Parallel processing systems; Parallel algorithms	Data Mining	519	5
EC #6	Lazarov V.D.; Stoyanov L.	Solar radiation; Solar energy; Models	Solar & Wind Power	329	3
EC #7	Tarnev K.H.; Tarnev K.T.; Christova M.	plasmas (physics); negative ions; ion sources	Plasma Physics	281	14
EC #8	Betova I.G.	Corrosion; Oxides; Stainless steel	Corrosion	289	8
EC #9	Dakovski L.G.; Shevked Z.; Borovska P.	Data mining; Algorithms; Learning systems	Data Mining	333	3

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
EC #10	Atanasov I.I.; Pencheva E.N.	Network protocols; Architecture; Multimedia services	Signal Processing	239	5
EC #11	Peeva K.G.; Zahariev Z.; Petrov D.	Solutions; Chemical analysis; Optimization	Fuzzy Sets	220	5
EC #12	Todorov M.D.; Stefanov I.Z.; Georgieva D.A.	black holes (astronomy); gravitation; electrodynamics	High Energy Physics	381	14
EC #13	Yordanova S.T.; Yordanova S.; Dimitrov L.D.	Fuzzy logic; Controllers; Fuzzy rules	Power Transmission; Data Mining	299	5
EC #14	Mastorakis N.E.; Spasov G.V.; Spasova V.	Neural networks; MATLAB; Calculations	Data Mining	237	25
EC #15	Kountchev R.K.	Algorithms; Color; Image compression	Data Mining	218	3

Компетенция 1 – автоматичен контрол, софтуер

Author	Articles published in this field	Fractionalized article count
1. Mastorakis N.E. Technical University of Sofia	7	5.5

Компетенция 2 – приложна математика

Author	Articles published in this field	Fractionalized article count
1. Petkov P.H.R. Technical University of Sofia	8	6.0
2. Yonchev A.S. Technical University of Sofia	4	2.1
3. Venkov G.I. Technical University of Sofia	3	1.5

Компетенция 3 – приложна математика, изчислителна техника

Author	Articles published in this field	Fractionalized article count
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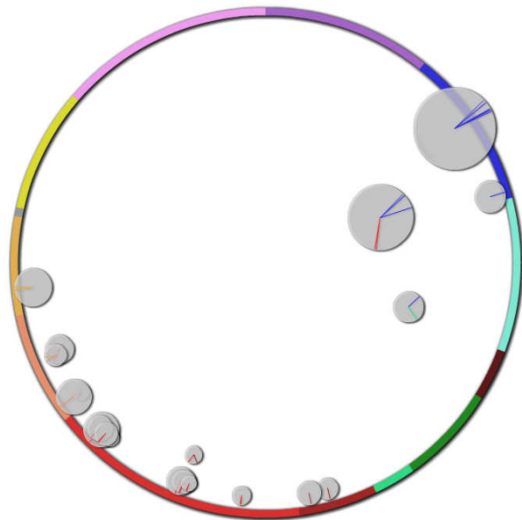
1.	Stamov G.T.R.	Technical University of Sofia	14	10.0
2.	Bijev G.	Technical University of Sofia	3	3.0
3.	Karandjulov L.I.	Technical University of Sofia	2	1.2

Сътрудничество на ТУ София с други институции

			Co-authored articles	Co-authored articles in competencies
1.		Bulgarian Academy of Sciences	99	2
2.		University of Sofia	54	27
3.		University of Craiova	42	0
4.		University of Chemical Technology and Metallurgy Sofia	34	8
5.		Mansoura University	32	24
6.		University of Plovdiv	16	0
7.		University of Arkansas Little Rock	13	2
8.		University Politehnica of Bucharest	12	0
9.		VTT	10	8
10.		National Technical University of Athens	10	0

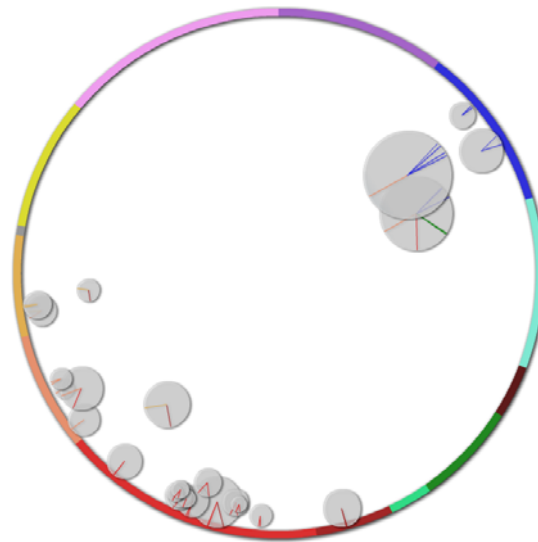
Медицински университет, София

Institution
year
Medical University Sofia
2009



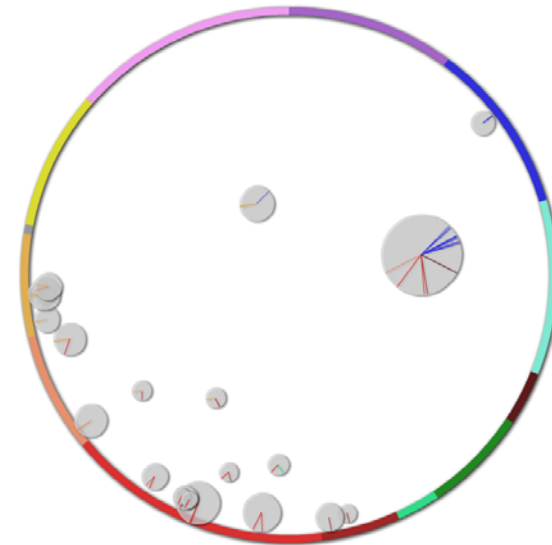
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Institution
year
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2011



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Subject areas

- | | |
|--|---|
| ■ Math & Physics | ■ Medical Specialities |
| ■ Chemistry | ■ Health Sciences |
| ■ Engineering | ■ Brain Research |
| ■ Earth Sciences | ■ Humanities |
| ■ Biology | ■ Social Sciences |

■ Biotechnology
■ Infectious Diseases

■ Computer Science

Компетенциите на МУ София са 20 през 2009 г. , 25 в 2010 г. и 21 през 2011 г.

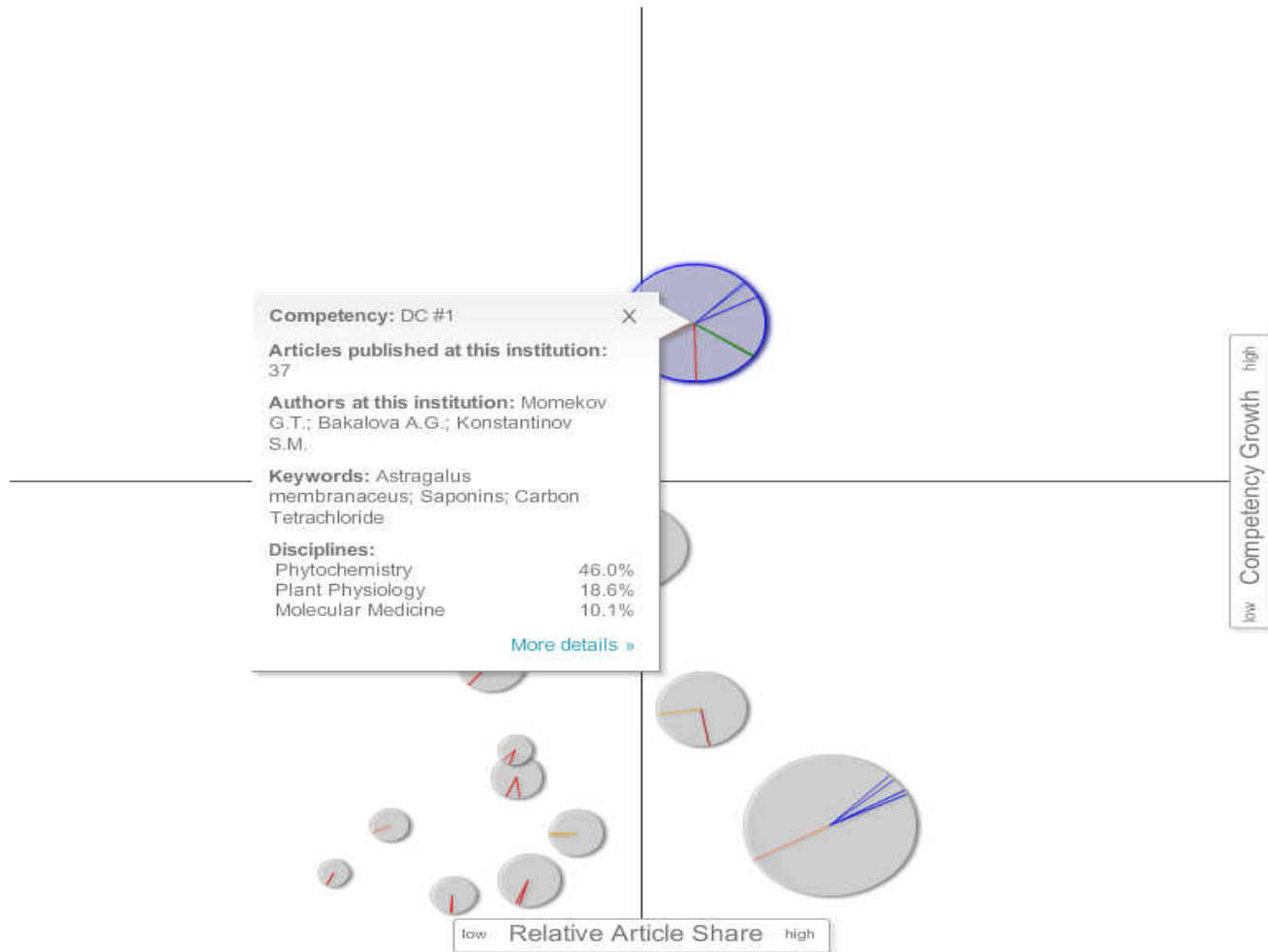
Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
DC #1	Konstantinov S.M.; Momekov G.T.; Bakalova A.G.	Receptors, Androgen; Platinum; Dimethyl Sulfoxide	Pharmaceutical Design; Transfusion; Phytochemistry	1,063	42
DC #2	Kostova I.P.; Momekov G.T.; Manolov I.I.	Coumarins; 4-Hydroxycoumarins; Synthesis (chemical)	Pharmaceutical Design; Organic Chemistry; Crystallography	853	49
EC #3	Monov S.; Rashkov R.K.; Monova. D.V.	Lupus Erythematosus, Systemic; Lupus Vasculitis, Central Nervous System; Patients	Rheumatology	604	10
EC #4	Boyanova L.; Mitov I.G.; Jeleв C.	Helicobacter pylori; Pylorus; Breath Tests	Digestion	603	6
EC #5	Kamenova P.; Zachariéva S.Z.; Ganchev G.	Syndrome; Risk Factors; Prevalence	Diabetes Care; Circulation	783	6
EC #6	Kirilov G.G.; Zachariéva S.Z.; Matrozova J.A.	Hyperaldosteronism; Aldosterone; Renin	Hypertension; Clinical Chemistry	473	6
EC #7	Hinova-Palova D.V.; Paloff A.M.; Ovtcharoff W.A.	Neurons; NADPH Dehydrogenase; Nitric Oxide	Neuroscience; Molecular & Cellular; Clinical Neurophysiology	686	12
EC #8	Markovska R.D.; Mitov I.G.	Klebsiella pneumoniae; Escherichia coli; Ceftazidime	Antimicrobial Agents	402	4
EC #9	Hadjidekov V.G.; Ziya D.; Kishkilova D.	Micronucleus Tests; Cytokinesis; Lymphocytes	Molecular Medicine; Clinical Endocrinology	477	3
EC #10	Jeleв L.; Georgiev G.P.; Surchev L.	Muscles; Tendons; Cadaver	Trauma	246	9
EC #11	Antova T.; Nikiforov B.; Manolova A.	Smoke; Tobacco; Smoking	Chest & Respiratory	414	3
EC #12	Naydenov C.L.; Lozanov V.S.;	Electrophoresis, Capillary; Buffers; Ampholyte	Chromatography; Electrophoresis	336	6

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
	Mitev V.I.	Mixtures			
EC #13	Kolarov Z.I.; Boykinov I.N.	Osteoarthritis; Chondrocytes; Hyaluronic Acid	Rheumatology	455	6
EC #14	Doytchinova I.A.; Flower D.R.	Peptides; Epitopes, T-Lymphocyte; Epitopes	Bioinformatics; Pharmaceutical Design	326	12
EC #15	Kolarov Z.I.; Sheytanov I.; Sheitanov Y.I.	Sjogren's Syndrome; Lung Diseases, Interstitial; Arthritis, Rheumatoid	Chest & Respiratory; Rheumatology	260	4

Компетенция 1 - фитохимия

institution
year

Medical University Sofia
2010



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Със следните водещи автори:

	Articles published in this field	Fractionalized article count		
1.	Momekov G.T. Medical University Sofia		17	9.5
2.	Bakalova A.G. Medical University Sofia		10	6.4
3.	Konstantinov S.M. Medical University Sofia		12	6.1
4.	Krasteva I.N. Medical University Sofia		6	5.5

Компетенция 2 – храносмилане, антимикробни агенти

Author		Articles published in this field	Fractionalized article count
1. Boyanova L. Medical University Sofia		14	10.6
2. Mitov I.G. Medical University Sofia		11	8.8
3. Gergova G. Medical University Sofia		9	7.4

Компетенция 3 – антимикробни агенти

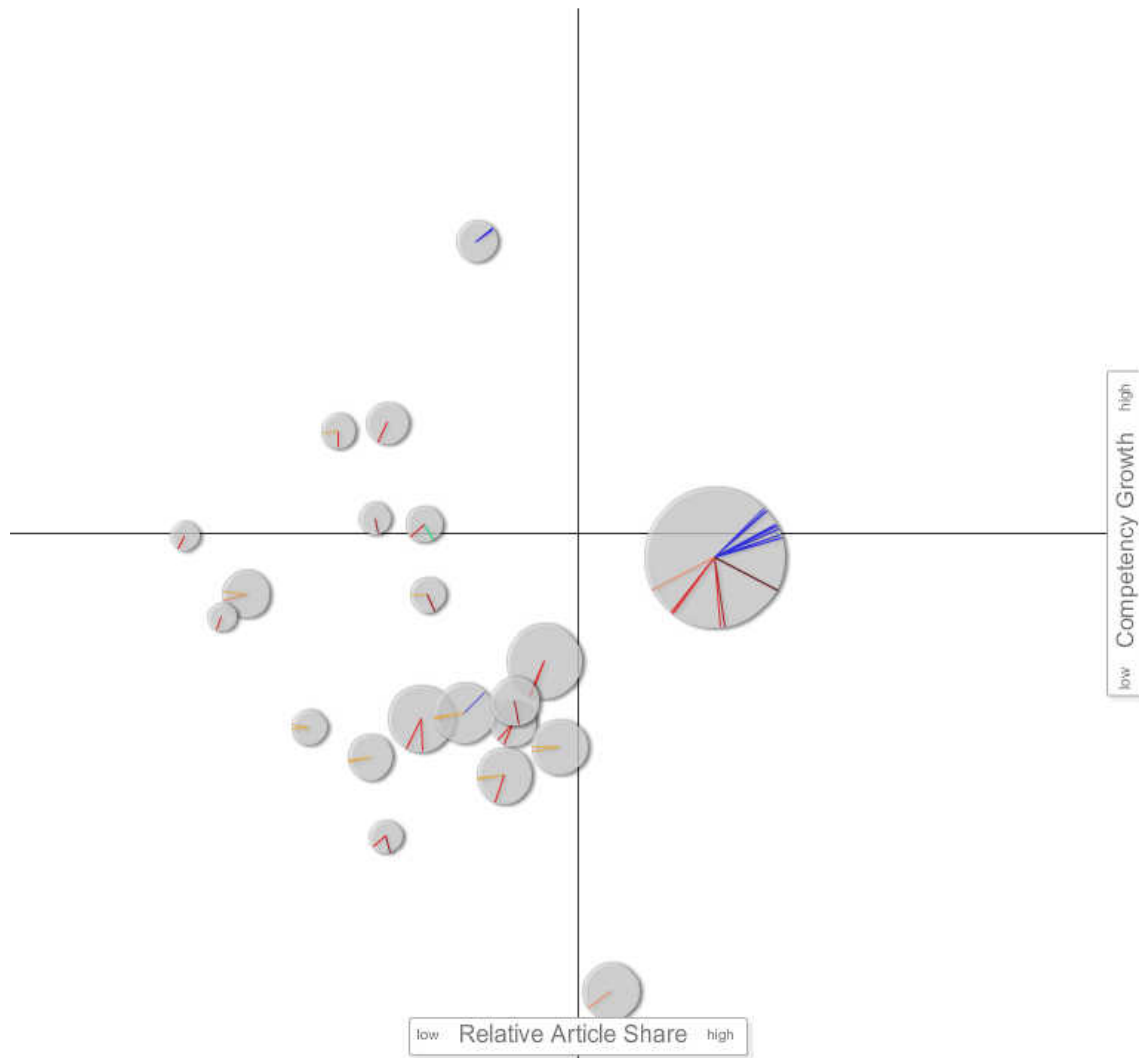
Author		Articles published in this field	Fractionalized article count
1. Mitov I.G. Medical University Sofia		7	5.0
2. Strateva T. Medical University Sofia		5	3.7
3. Ouzounova-Raykova V.V. Medical University Sofia		4	3.4

Компетенции 2011 г.

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
DC #1	Kostova I.P.; Momekov G.T.; Ionkova I.I.	Hypericum; Pregnancy, Ectopic; Podophyllotoxin	Phytochemistry; Organic Chemistry; Archeological Science	2,828	64
DC #2	Boyanova L.; Mitov I.G.; Gergova G.	Helicobacter pylori; Pylorus; Gastritis	Digestion	1,172	13
EC #3	Tournev I.; Kaneva R.P.; Cherninkova S.Z.	Y Chromosome; Haplotypes; Polymorphism, Single Nucleotide	Human Molecular Genetics; Eye	966	10
EC #4	Tzachev K.N.; Lozanov B.S.; Vukov M.I.	Thyroid Gland; Pregnancy; Hypothyroidism	Clinical Endocrinology	581	4
EC #5	Ovtscharoff W.A.; Bozhilova-Pastirova A.A.; Landzhov B.V.	NADPH Dehydrogenase; Nitric Oxide; Rats	Neuroscience; Molecular & Cellular; Psychopharmacology; Clinical Chemistry	745	9
EC #6	Bocheva A.I.; Girchev R.A.; Dzambazova E.B.	Receptors, Opioid; Rats; Pain	Pharmaceutical Design; Neuroscience; Molecular & Cellular	553	10
EC #7	Hadjiev D.I.; Mineva P.P.; Jordanova A.	Stroke; Hyperbaric Oxygenation; Oxygen	Neuroscience; Molecular & Cellular; Magnetic Resonance Imagery	562	4
EC #8	Boyanov M.A.; Zaharieva S.; Kovacheva R.	Bone Density; Bone and Bones; Osteoporosis	Bone & Osteoporosis; Rheumatology	431	5
EC #9	Vitanova L.A.; Kупенова P.	Retina; Retinal Ganglion Cells; Ganglia	Neuroscience; Molecular & Cellular	408	4
EC #10	Lazarov N.E.; Krastev D.; Usunoff K.G.	Neurons; Amygdala; Rats	Neuroscience; Molecular & Cellular; Neurophysiology & Neuroscience	393	7

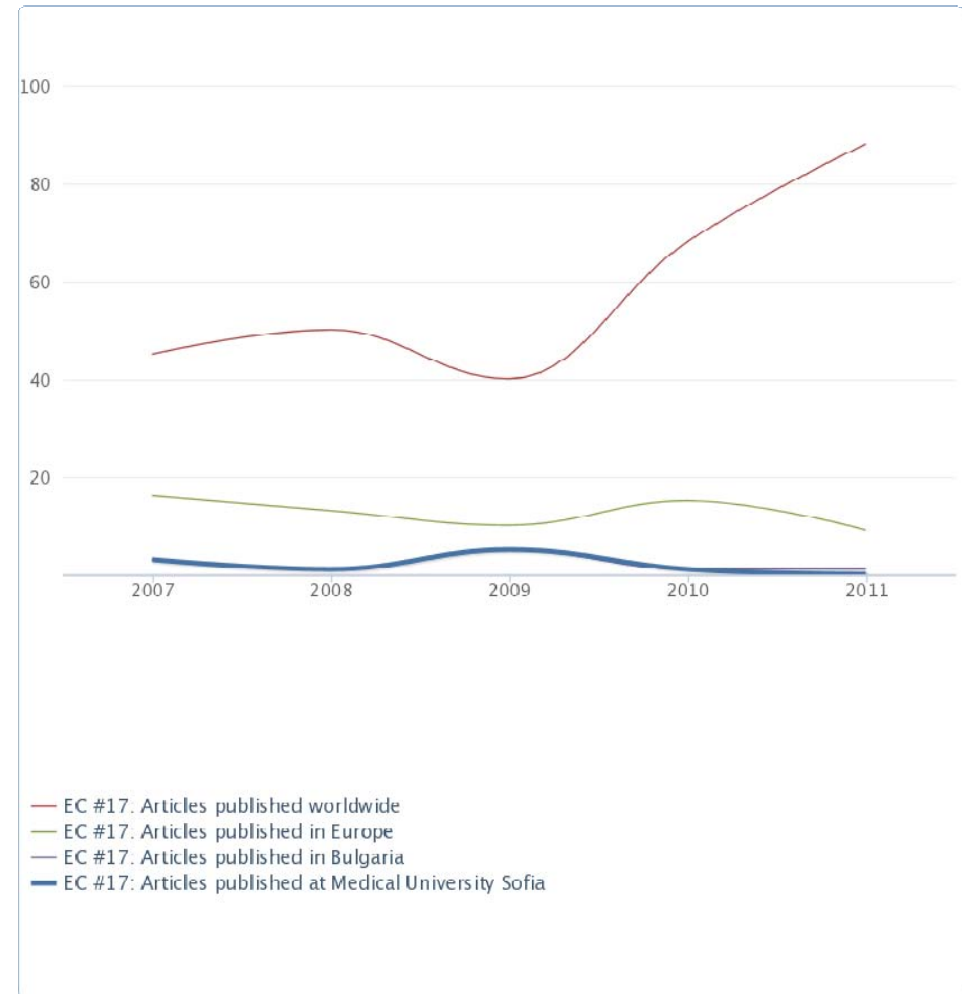
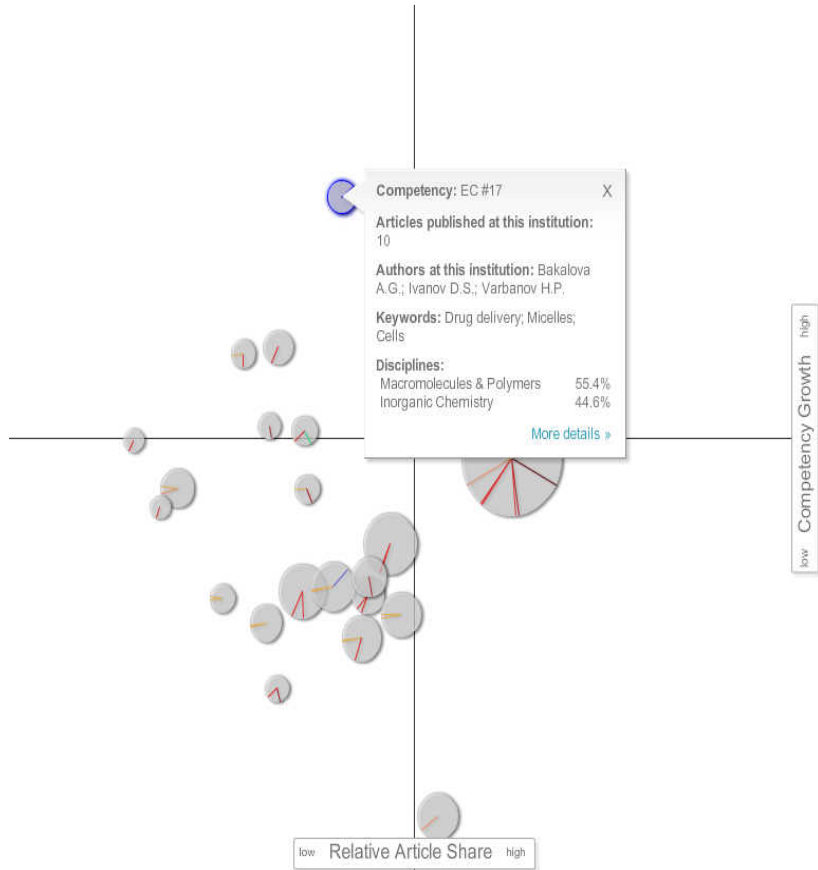
Компетенция 1 – Фитохимия

institution **Medical University Sofia**
year **2011**



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institution **Medical University Sofia**
 year **2011**



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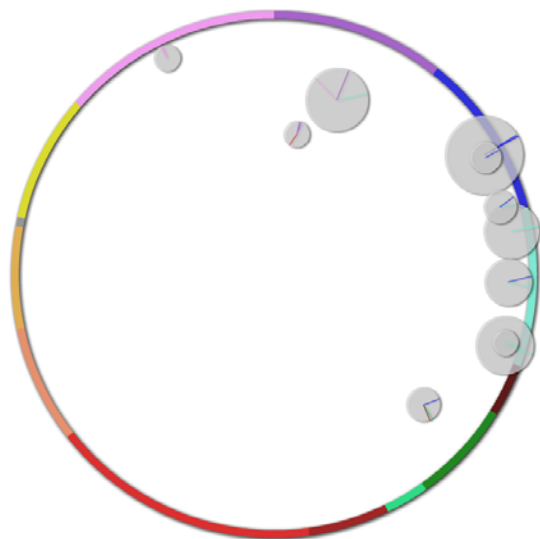
Интерес представляват нововъзникващи компетенции (компетенция 17 на изображението вляво), които са с малко на брой публикации, но висока стойност на качеството. От графиката на тенденциите се вижда, че този дял от науката в световен план бележи голямо развитие и подсказва необходимостта от подкрепа на национално ниво.

Сътрудничество на МУ София с други организации

			Co-authored articles	Co-authored articles in competencies
1.		Bulgarian Academy of Sciences	194	36
2.		University Hospital Alexandrovska	152	16
3.		University of Sofia	53	7
4.		Charles University	25	6
5.		Medical University of Plovdiv	20	1
6.		Czech Academy of Sciences	19	0
7.		P. J. Safarik University	18	0
8.		University of Antwerp	17	1
9.		University of Liege	17	0
10.		Technische Universitat Dresden	17	6
11.		University of Leicester	17	0
12.		Charite - Universitatsmedizin Berlin	16	0
13.		University of Pittsburgh	14	1
14.		University of Western Australia	13	6
15.		University of Rostock	13	4
16.		University of Tubingen	13	2
17.		University of Wurzburg	13	7
18.		University of Oxford	13	6

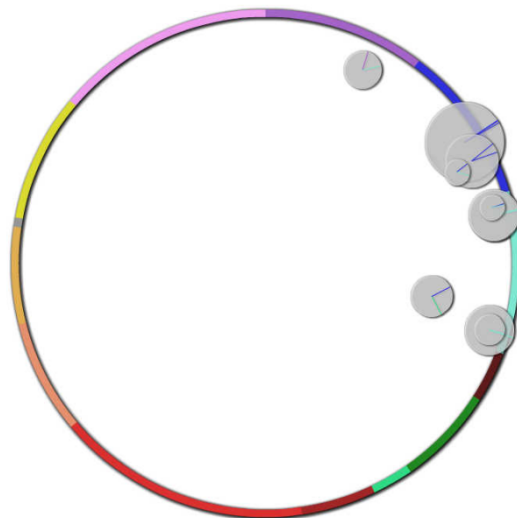
Химикотехнологичен и металургичен университет, София

Institution **University of Chemical Technology and Metallurgy Sofia**
year **2009**



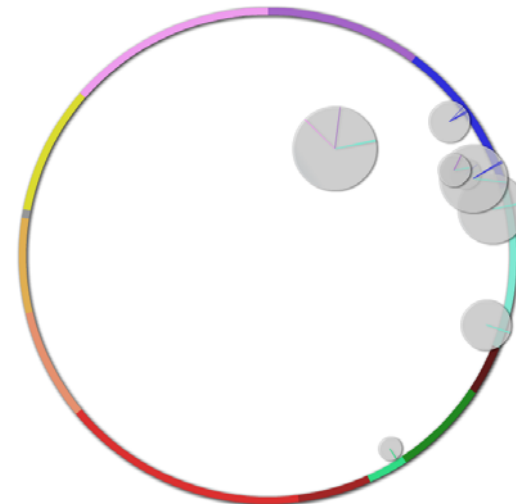
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Institution **University of Chemical Technology and Metallurgy Sofia**
year **2010**



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Subject areas

- | | |
|--|--|
| ■ Math & Physics | ■ Medical Specialities |
| ■ Chemistry | ■ Health Sciences |
| ■ Engineering | ■ Brain Research |
| ■ Earth Sciences | ■ Humanities |
| ■ Biology | ■ Social Sciences |
| ■ Biotechnology | ■ Computer Science |
| ■ Infectious Diseases | |

Динамиката на компетенциите на ХТМУ за периода 2009 – 2011 г. се движи между 8 и 10 като се наблюдава възникване на интердисциплинарна област на компетенции и намаляване на интереса и компетенциите в изследванията в областта на ИКТ.

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
EC #1	Petkov P.K.; Vassilev V.S.; Hineva T.	Glass; Thin films; Optical properties	Solar & Wind Power; Applied Optics; Semiconducting Materials	1,732	48
EC #2	Bojinov M.S.; Karastoyanov V.I.; Petrova M.L.	Corrosion; Oxides; Alloys	Corrosion; Electrochemistry	503	17
DC #3	Dimitriev Y.B.; Dimitrov V.V.; Krapchanska M.	Glass; Alkalinity; Refractive index	Solar & Wind Power	590	27
EC #4	Naydenova E.D.; Todorov P.T.; Pavlov N.D.	Receptors, Opioid; Receptors, Peptide; Rats	Organic Chemistry; Pharmaceutical Design	628	12
EC #5	Yotova L.K.; Georgieva N.V.; Valchev I.V.O.	Laccase; Fungi; Dyes	Enzyme Microbiological Techniques	374	4
EC #6	Peev G.A.; Peshev D.; Nikolova A.	Spin coating; Films; Disks (machine components)	Liquid Crystals; Chemical Engineering; Sensors & Actuators	296	5
EC #7	Bojinov V.B.; Georgiev N.I.; Panova I.P.	Fluorescence; Synthesis (chemical); Fluorophores	Organic Chemistry; Macromolecules & Polymers; Dyes & Pigments	356	27
EC #8	Hristov J.Y.	Solutions; Precision balances; Boundary conditions	Heat Transfer; Chaos Fractals & Complexity	242	6

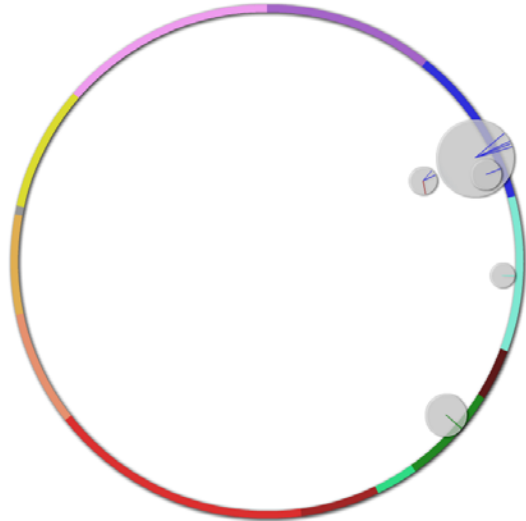
Най-значимо сътрудничество XТМУ осъществява с:

			Co-authored articles	Co-authored articles in competencies
1.		Bulgarian Academy of Sciences	242	68
2.		Technical University of Sofia	41	18
3.		University of Sofia	31	3
4.		VTT	18	15
5.		University of Aveiro	17	0
6.		University of Kassel	16	13
7.		Nagaoka University of Technology	14	14

8.		Joint Institute for Nuclear Research	12	0
9.		Medical University Sofia	11	5
10.		Friedrich-Schiller-Universitat Jena	11	1
11.		Bhabha Atomic Research Centre	10	2
12.		CEA Saclay	9	0
13.		Polish Academy of Sciences	9	0
14.		National Institute for Laser, Plasma and Radiation Physics	9	9

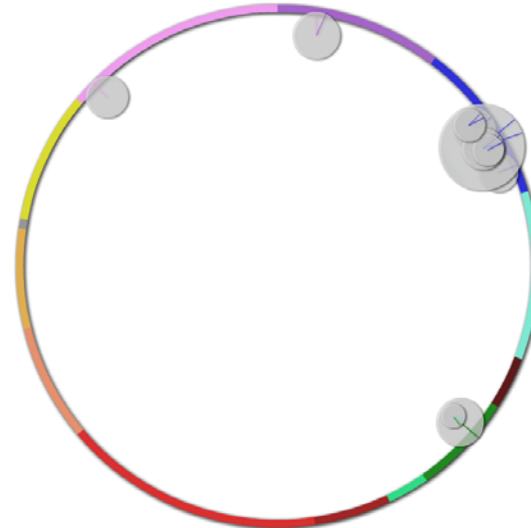
Пловдивски университет

Institution **University of Plovdiv**
year **2009**



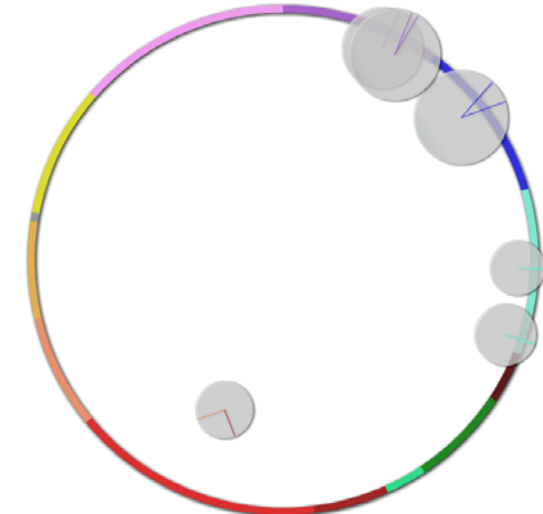
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Institution **University of Plovdiv**
year **2010**



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Institution **University of Plovdiv**
year **2011**



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Subject areas

- | | |
|--|---|
| ■ Math & Physics | ■ Medical Specialities |
| ■ Chemistry | ■ Health Sciences |
| ■ Engineering | ■ Brain Research |
| ■ Earth Sciences | ■ Humanities |
| ■ Biology | ■ Social Sciences |
| ■ Biotechnology | ■ Computer Science |
| ■ Infectious Diseases | |

В периода 2009-2011 г. ПУ има съответно 5, 10 и 6 области на компетенции. През 2009 и 2010 г. компетенциите са предимно в областта на химията, а през 2011 г. се появява нова силна научна област на изследване в математическите и физическите науки.

Компетенции 2010, ПУ









Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
EC #1	Eftimov T.A.	gratings; fibers; Refractive index	Applied Optics	760	9
EC #2	Yovcheva T.A.; Mekishev G.A.; Viraneva A.P.	Surface potential; Polymers; Depolarization	Macromolecules & Polymers	675	13
EC #3	Delchev V.B.; Nenkova M.V.	uracil; thymine; bases (chemical)	Computational Chemistry	622	9
EC #4	Kolev T.M.; Bakalska R.; Angelov P.A.	Infrared spectroscopy; Solids; chemical compounds	Inorganic Chemistry; Thermal Analysis	450	39
EC #5	Kolarov J.	Ichneumonidae; Hymenoptera; new species	Zoology; Insect Physiology	294	11
EC #6	Velcheva I.G.; Boyadzieva-Doichinova D.; Nikolov B.	Fishes; fish; hemoglobin	Environmental Contamination; Environmental Pollution	392	4
EC #7	Gavazov K.B.; Lekova V.D.; Patronov G.I.	Publishing; Vanadium; Spectrophotometry	Electro Analytical Chemistry; Thermal Analysis	227	8
EC #8	Angelov P.A.; Ivanov I.I.; Nikolova S.	Hydrogen; Anticonvulsants; Synthesis (chemical)	Organic Chemistry	220	5
EC #9	Hristova S.G.; Russinov I.; Gluhcheva S.T.	Stability; Difference equations; Lyapunov functions	Automatic Control; Nonlinear Analysis	194	10
EC #10	Marinova P.; Marinov M.N.	Hydantoins; Rhodanine; Cell Line	Organic Chemistry; Pharmaceutical Design	283	5

Компетенции 2011 г. , ПУ

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
EC #1	Hristova S.G.; Russinov I.; Gluhcheva S.T.	Differential equations; Asymptotic stability; Stability	Nonlinear Analysis	356	10
EC #2	Kolev T.M.; Angelov P.A.; Bakalska R.	Polymorphism; Raman scattering; Infrared spectroscopy	Pharmaceutical Research; Thermal Analysis; Molecular Physics	431	18
EC #3	Vassilev G.P.; Lilova K.I.	Intermetallics; Alloys; Ternary systems	Material Science; Alloys	270	6

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
	Gandova V.D.				
EC #4	Mekеров D.; Manev M.; Gribachev K.	Manifold; Torsion; Structure	High Energy Physics; Topology	242	10
EC #5	Gocheva-Ilieva S.G.	Lasers, Solid-State; Lasers; Bone and Bones	Reproduction Veterinary; Laser Surgery	257	6
EC #6	Hubenova Y.V.	Microbial fuel cells; Anodes; Fuel cells	Electrochemistry	179	5

Сътрудничество на ПУ с други научни организации

Institution	Co-authored articles	Co-authored articles in competencies
1.  Bulgarian Academy of Sciences	110	26
2.  University of Sofia	52	14
3.  Universitat Dortmund	17	11
4.  University of Limerick	16	0
5.  Technical University of Sofia	12	6
6.  Universite du Quebec en Outaouais	12	0
7.  University of Vienna	11	1
8.  Ruhr-Universitat Bochum	7	4

Компетенции на Медицински университет, Пловдив

Competency	Authors at this institution	Keywords	Disciplines	Articles published	
				worldwide	institution
EC #1	Gatseva P.D.; Vladeva S.V.; Argirova M.D.	Iodine; Salts; Thyroid Gland	Dietetics; Clinical Endocrinology	230	5
EC #2	Stefanov C.S.	Sepsis; Interleukin-12; Infection	Bone Joint Surgery; Intensive Care	230	1

