



Hodnocení výsledků VaV

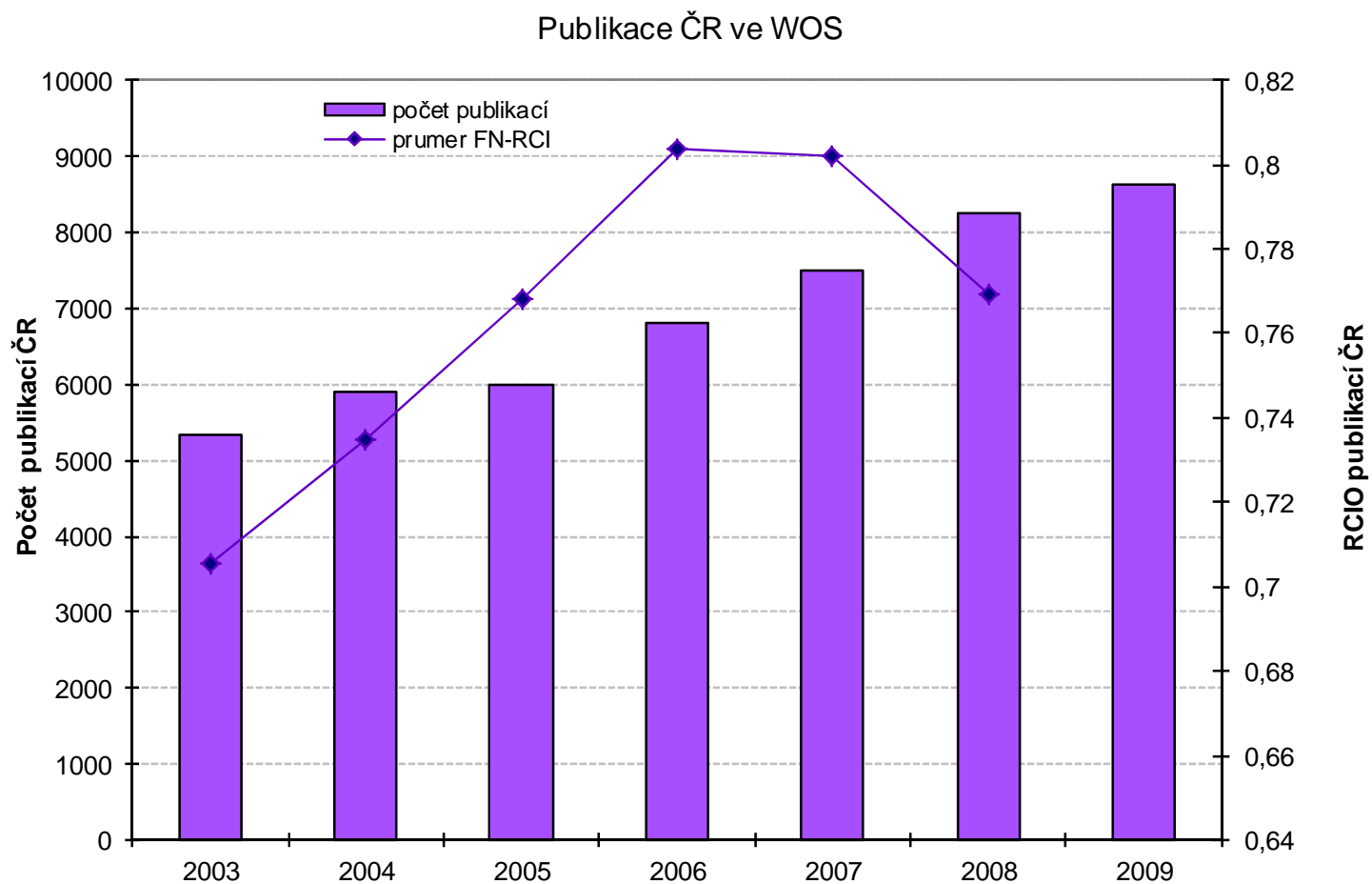
Podklady pro stanovení priorit VaV

J. Vaněček

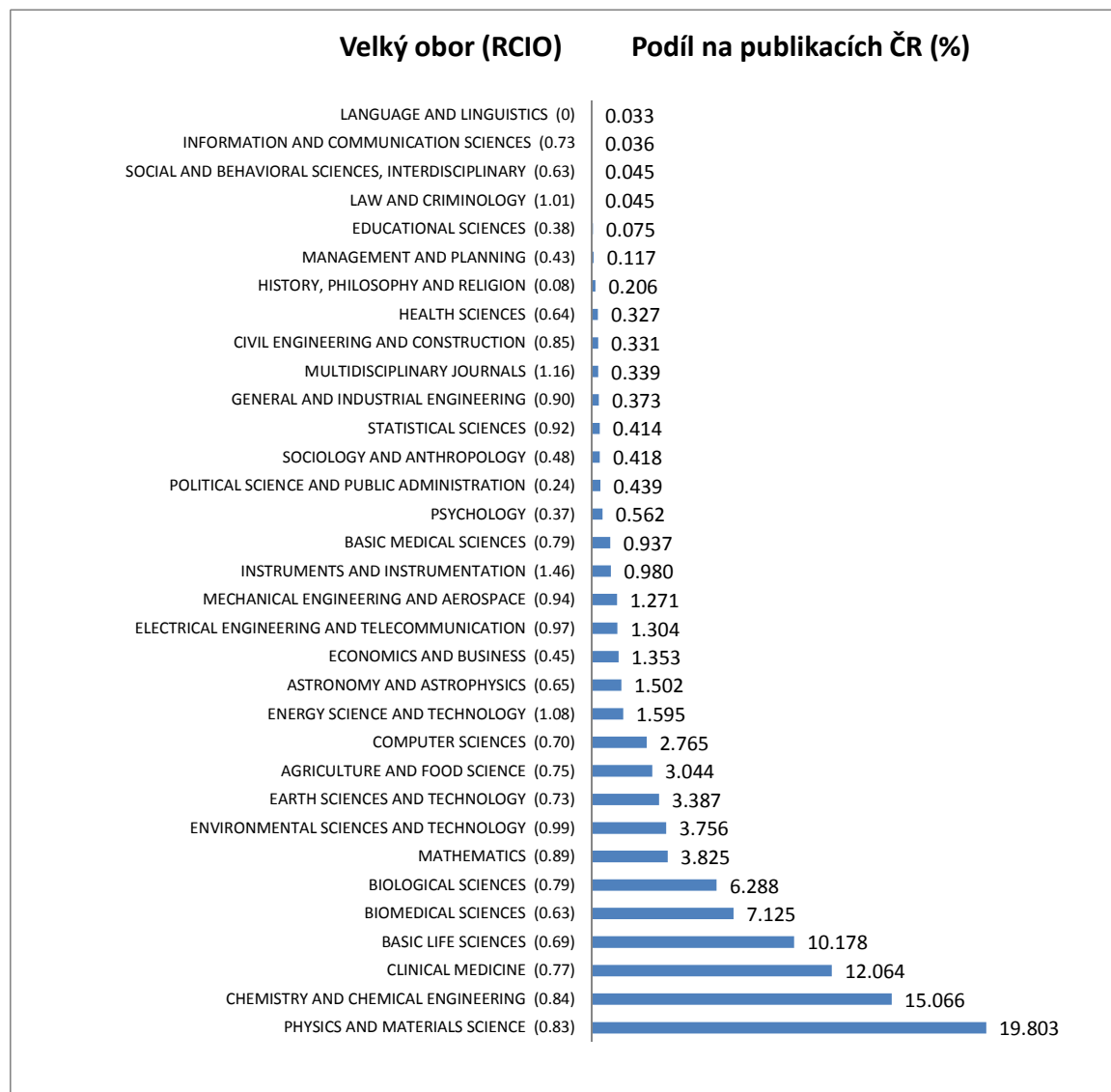
Mapování excellence ve VaV

- Vyhledávání excelentních oborů výzkumu a vývoje v ČR (síla a kvalita)
 - Analýza publikací WOS
 - Analýza patentů
- Identifikace pracovišť, která nejvýznamněji přispívají k excelenci daného oboru

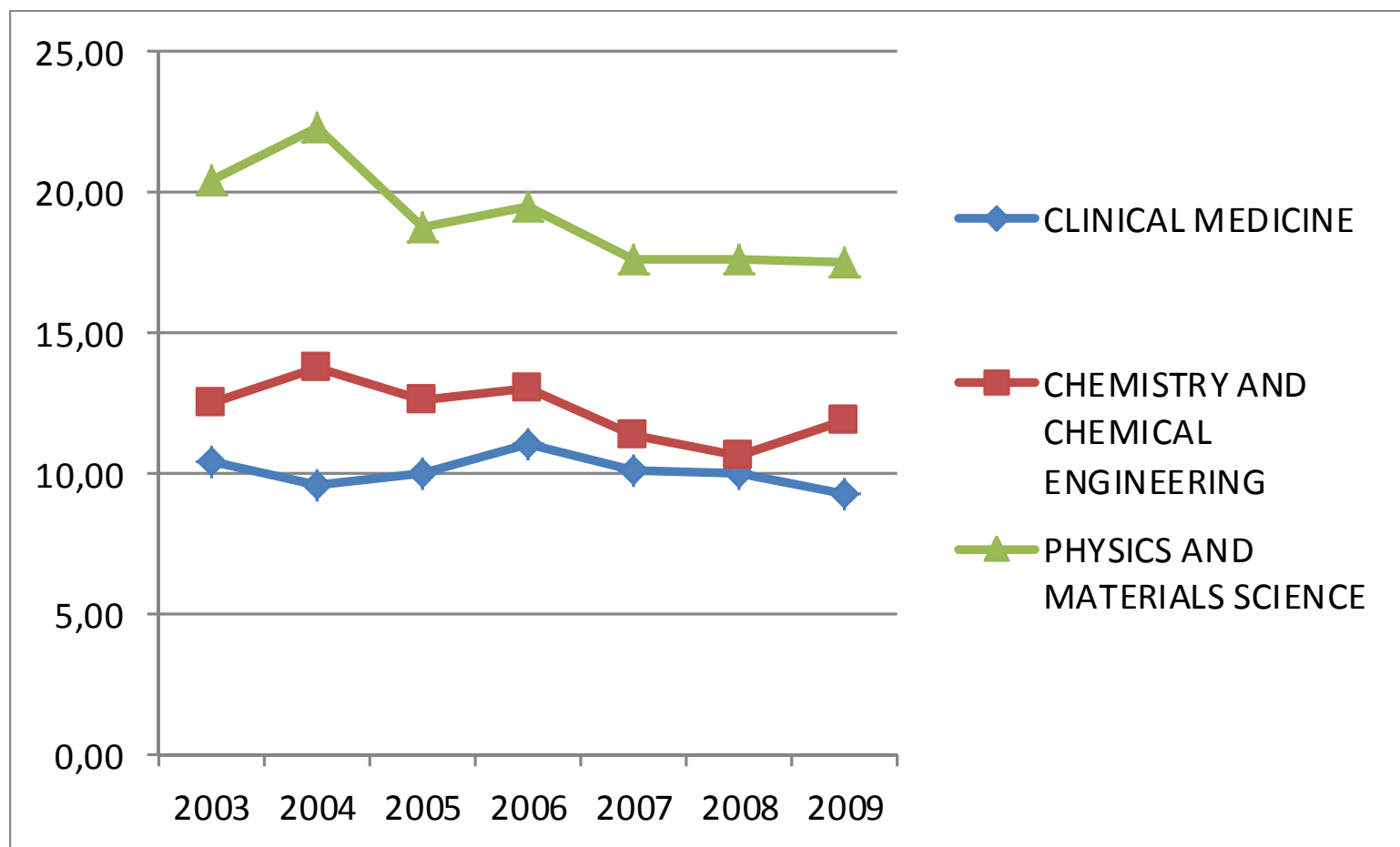
Počet českých publikací uvedených v databázi WOS v letech 2003-9



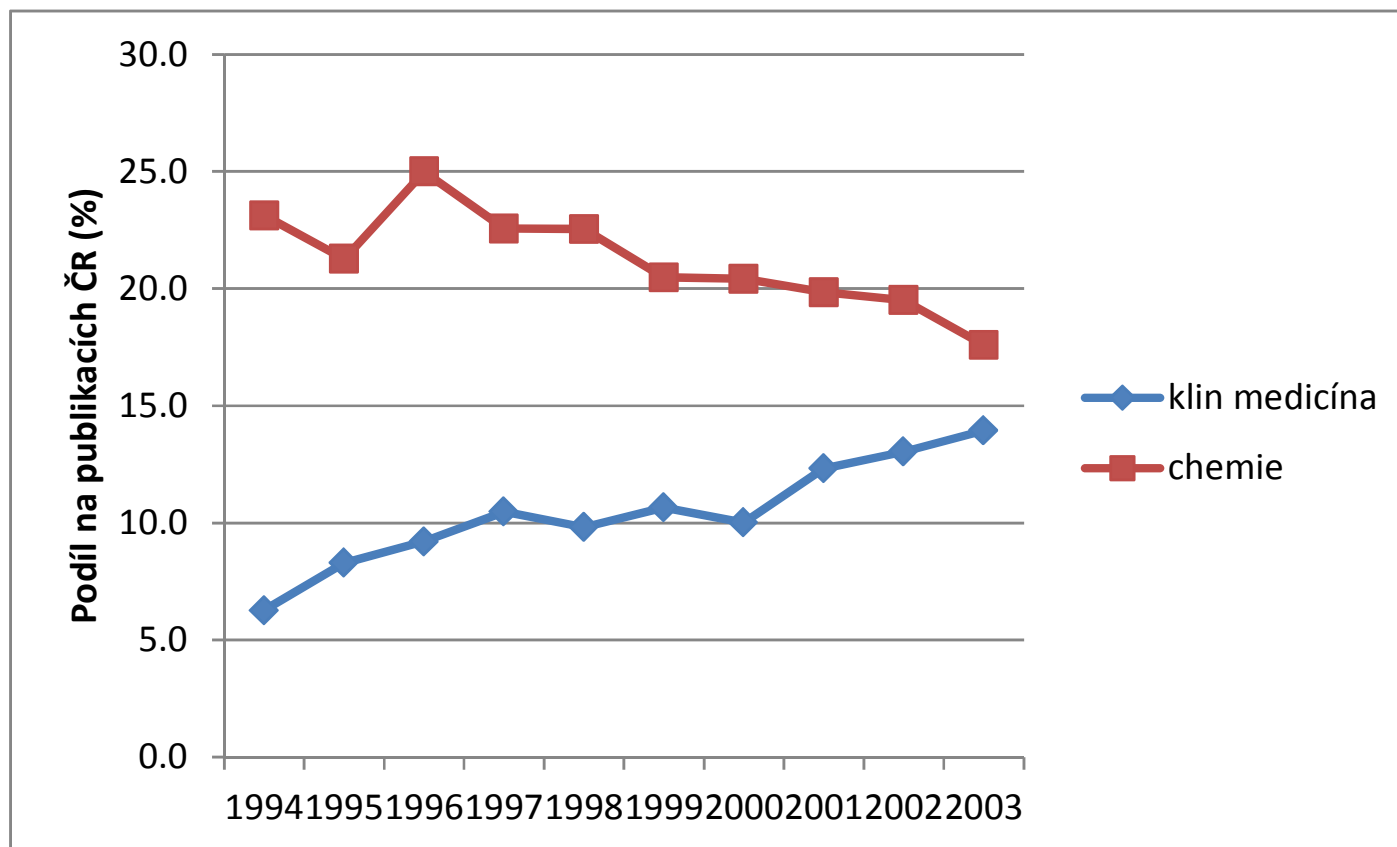
Podíl oborů na publikacích ČR



Změny podílu publikací ve třech nejvýznamnějších oborech v letech 2003-9



Změny podílu publikací v oborech chemie a medicína v letech 1994-2003



Hlavní obory podle relativní citovanosti publikací (RCIO)

Zastřešující obor	Publikací ČR	Podíl na světě publikací oboru (%)	Podíl na všech publikacích ČR (%)	Počet citací/publikaci	RCIO
INSTRUMENTS AND INSTRUMENTATION	744	0.98	0.98	6.35	1.47
MULTIDISCIPLINARY JOURNALS	257	0.34	0.34	32.55	1.17
ENERGY SCIENCE AND TECHNOLOGY	1211	0.86	1.60	4.07	1.09
LAW AND CRIMINOLOGY	34	0.09	0.04	3.99	1.01
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	2851	0.67	3.76	6.57	0.99
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	990	0.29	1.30	4.14	0.97
MECHANICAL ENGINEERING AND AEROSPACE	965	0.42	1.27	3.54	0.95
STATISTICAL SCIENCES	314	0.35	0.41	3.99	0.93
GENERAL AND INDUSTRIAL ENGINEERING	283	0.28	0.37	3.23	0.91
MATHEMATICS	2904	1.12	3.83	2.54	0.90
CIVIL ENGINEERING AND CONSTRUCTION	251	0.34	0.33	2.55	0.86
CHEMISTRY AND CHEMICAL ENGINEERING	11437	0.97	15.07	6.45	0.85
PHYSICS AND MATERIALS SCIENCE	15033	0.94	19.80	5.10	0.83
BIOLOGICAL SCIENCES	4773	1.06	6.29	5.29	0.79
BASIC MEDICAL SCIENCES	711	0.54	0.94	6.05	0.79
CLINICAL MEDICINE	9158	0.48	12.06	7.34	0.77
AGRICULTURE AND FOOD SCIENCE	2311	0.85	3.04	4.11	0.75
INFORMATION AND COMMUNICATION SCIENCES	27	0.10	0.04	2.80	0.73
EARTH SCIENCES AND TECHNOLOGY	2571	0.78	3.39	4.51	0.73
COMPUTER SCIENCES	2099	0.76	2.77	3.00	0.71
BASIC LIFE SCIENCES	7726	0.74	10.18	8.53	0.70
ASTRONOMY AND ASTROPHYSICS	1140	1.18	1.50	8.01	0.65
HEALTH SCIENCES	248	0.14	0.33	3.99	0.64
SOCIAL AND BEHAVIORAL SCIENCES, INTERDISCIPLINARY	34	0.08	0.04	2.67	0.64
BIOMEDICAL SCIENCES	5409	0.60	7.13	6.49	0.63
SOCIOLOGY AND ANTHROPOLOGY	317	0.56	0.42	1.72	0.49
ECONOMICS AND BUSINESS	1027	0.89	1.35	1.93	0.45
MANAGEMENT AND PLANNING	89	0.19	0.12	2.14	0.44
EDUCATIONAL SCIENCES	57	0.10	0.08	1.34	0.38
PSYCHOLOGY	427	0.23	0.56	2.72	0.38
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	333	0.71	0.44	0.67	0.24
HISTORY, PHILOSOPHY AND RELIGION	156	0.59	0.21	0.23	0.09
LANGUAGE AND LINGUISTICS	25	0.20	0.03	0.00	0.00

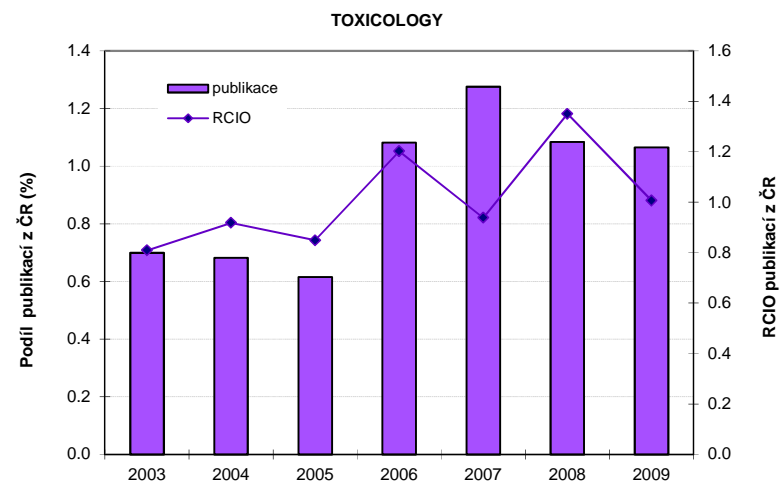
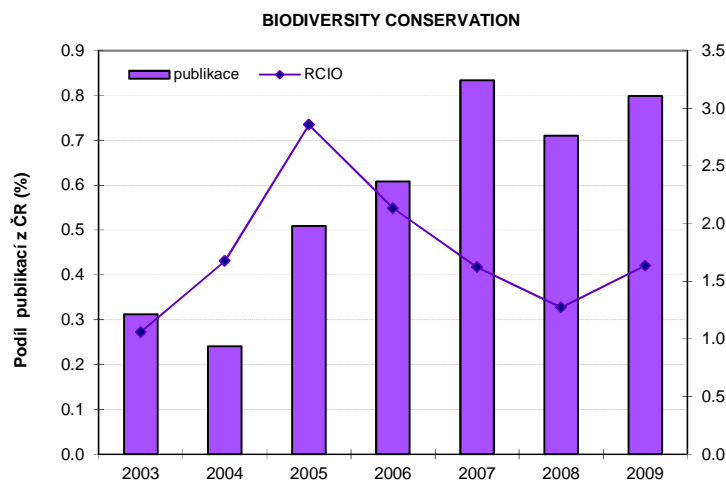
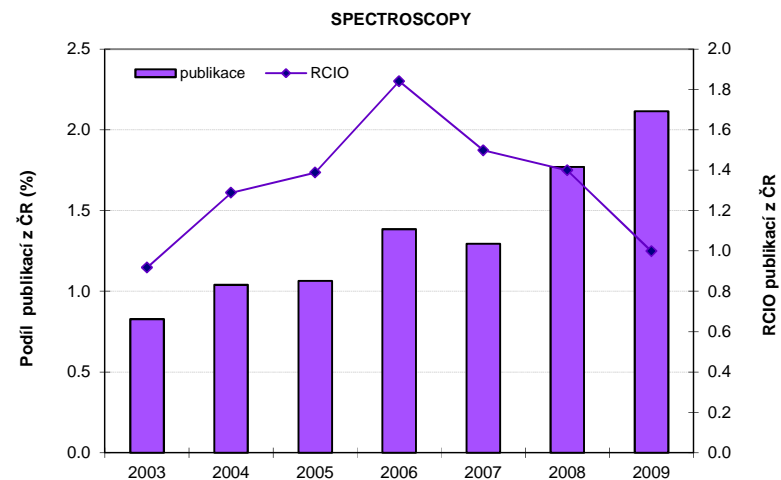
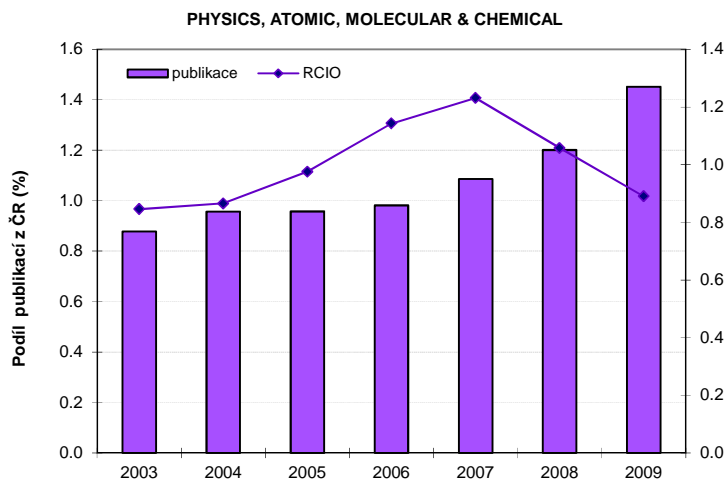
Nadprůměrně citované podobory v ČR

Zastřešující obor	podobor	RCIO oboru v ČR	Počet publikací v ČR	Podíl na svět. publikacích v oboru (%)	Podíl na počtu publikací ČR (%)
AGRICULTURE AND FOOD SCIENCE	SOIL SCIENCE	1.208	157	0.696	0.207
BASIC MEDICAL SCIENCES	CHEMISTRY, MEDICINAL	1.008	355	0.595	0.468
BIOLOGICAL SCIENCES	ORNITHOLOGY	1.193	76	1.071	0.100
BIOLOGICAL SCIENCES	MARINE & FRESHWATER BIOLOGY	1.088	367	0.638	0.483
BIOLOGICAL SCIENCES	FISHERIES	1.065	222	0.809	0.292
BIOMEDICAL SCIENCES	MEDICAL LABORATORY TECHNOLOGY	1.353	132	0.729	0.174
BIOMEDICAL SCIENCES	ANATOMY & MORPHOLOGY	1.168	91	0.902	0.120
BIOMEDICAL SCIENCES	TOXICOLOGY	1.049	513	0.946	0.676
CLINICAL MEDICINE	MEDICINE, GENERAL & INTERNAL	2.522	240	0.235	0.316
CLINICAL MEDICINE	RHEUMATOLOGY	1.959	110	0.462	0.145
CLINICAL MEDICINE	ALLERGY	1.054	36	0.252	0.047
CLINICAL MEDICINE	CRITICAL CARE MEDICINE	1.033	74	0.314	0.097
CLINICAL MEDICINE	OBSTETRICS & GYNECOLOGY	1.029	192	0.326	0.253
COMPUTER SCIENCES	COMPUTER SCIENCE, SOFTWARE ENGINEERING	1.155	217	0.583	0.286
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	TELECOMMUNICATIONS	1.116	44	0.088	0.058
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	AUTOMATION & CONTROL SYSTEMS	1.089	132	0.405	0.174
ENERGY SCIENCE AND TECHNOLOGY	NUCLEAR SCIENCE & TECHNOLOGY	1.270	822	1.437	1.083
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	BIODIVERSITY CONSERVATION	1.757	99	0.595	0.130
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	FORESTRY	1.400	175	0.805	0.231
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	ECOLOGY	1.030	772	0.896	1.017
GENERAL AND INDUSTRIAL ENGINEERING	ENGINEERING, MULTIDISCIPLINARY	1.068	149	0.334	0.196
CHEMISTRY AND CHEMICAL ENGINEERING	SPECTROSCOPY	1.338	638	1.347	0.840
CHEMISTRY AND CHEMICAL ENGINEERING	ELECTROCHEMISTRY	1.217	473	1.013	0.623
CHEMISTRY AND CHEMICAL ENGINEERING	MATERIALS SCIENCE, TEXTILES	1.152	82	0.916	0.108
CHEMISTRY AND CHEMICAL ENGINEERING	CHEMISTRY, APPLIED	1.050	448	0.651	0.590
INSTRUMENTS AND INSTRUMENTATION	INSTRUMENTS & INSTRUMENTATION	1.518	663	0.950	0.873
INSTRUMENTS AND INSTRUMENTATION	MICROSCOPY	1.035	81	1.294	0.107
MATHEMATICS	MATHEMATICS, INTERDISCIPLINARY APPLICATIONS	1.061	169	0.426	0.223
MECHANICAL ENGINEERING AND AEROSPACE	ENGINEERING, AEROSPACE	1.285	102	0.587	0.134
MECHANICAL ENGINEERING AND AEROSPACE	ENGINEERING, MECHANICAL	1.104	212	0.288	0.279
MULTIDISCIPLINARY JOURNALS	MULTIDISCIPLINARY SCIENCES	1.170	257	0.343	0.339
PHYSICS AND MATERIALS SCIENCE	PHYSICS, NUCLEAR	1.679	536	1.269	0.706
PHYSICS AND MATERIALS SCIENCE	PHYSICS, ATOMIC, MOLECULAR & CHEMICAL	1.003	1084	1.080	1.428

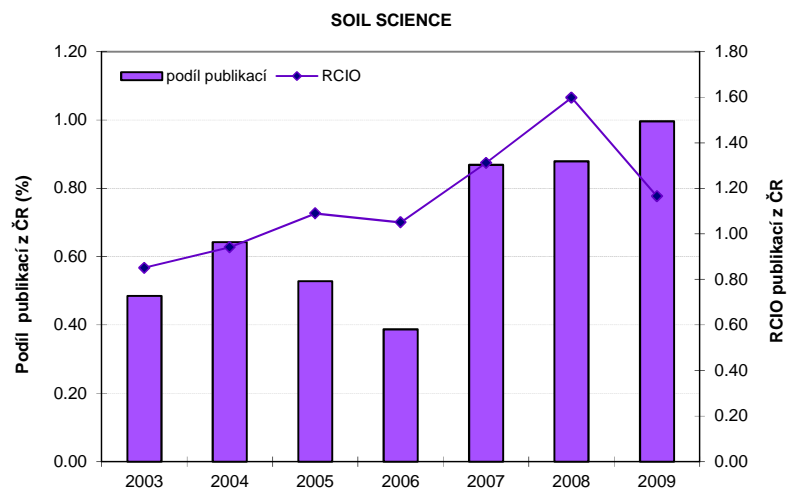
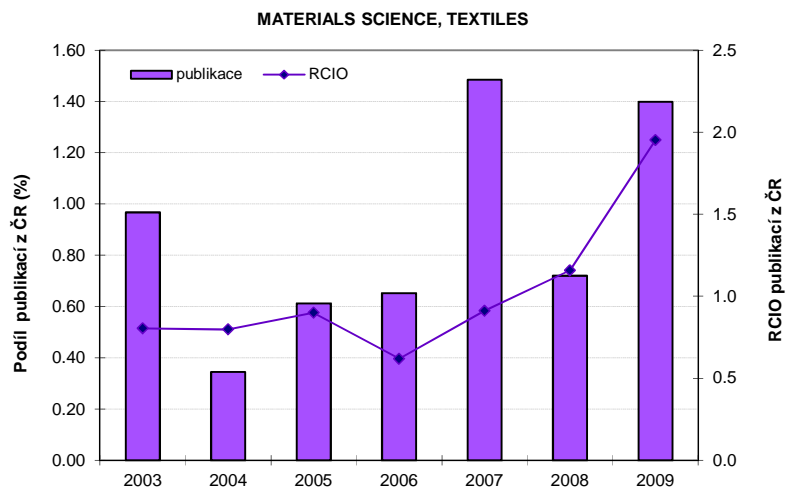
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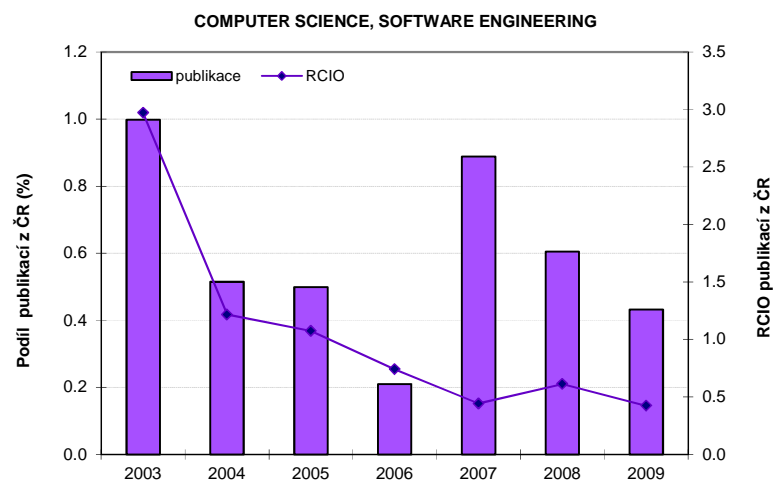
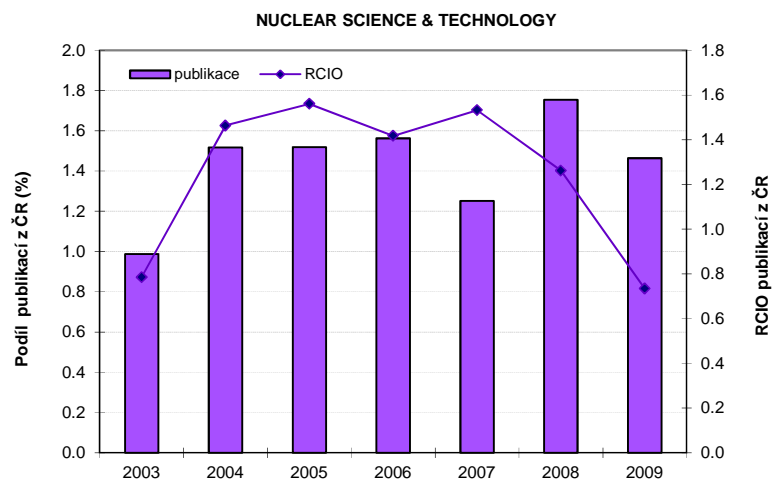
Změny RCIO a podílu publikací ČR ve WOS



Změny RCIO a podílu publikací ČR ve WOS



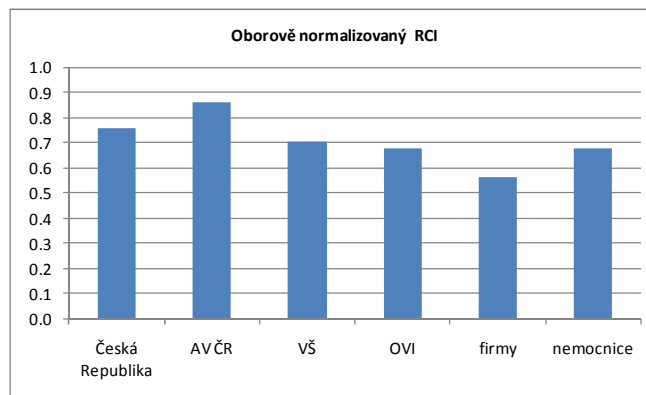
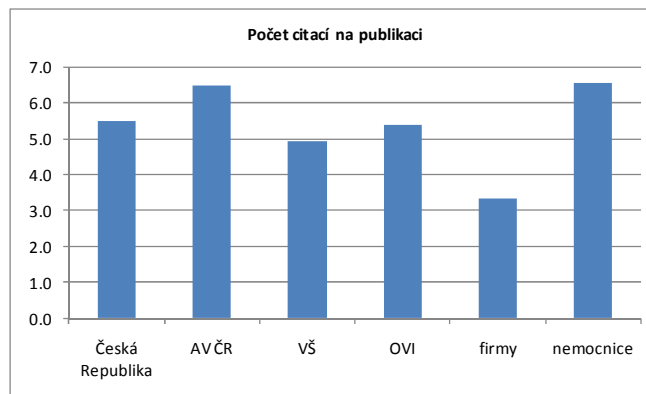
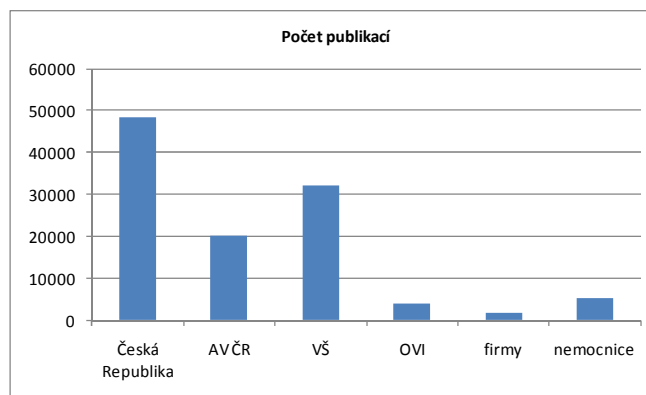
Změny RCIO a podílu publikací ČR ve WOS



Nadprůměrně citované podobory – korespondující autor z ČR

Obory-SC	suma publikací	průměrná citovanost	RCIO
MEDICINE, GENERAL & INTERNAL	239	34.80	2.26
COMPUTER SCIENCE, SOFTWARE ENGINEERING	217	7.07	1.72
RHEUMATOLOGY	110	21.09	1.68
PHYSICS, NUCLEAR	536	8.50	1.62
BIODIVERSITY CONSERVATION	99	10.40	1.37
MEDICAL LABORATORY TECHNOLOGY	132	6.18	1.34
INSTRUMENTS & INSTRUMENTATION	662	5.84	1.33
ELECTROCHEMISTRY	473	7.93	1.28
NUCLEAR SCIENCE & TECHNOLOGY	822	3.85	1.22
ORNITHOLOGY	76	3.88	1.19
MULTIDISCIPLINARY SCIENCES	257	24.98	1.18
SPECTROSCOPY	638	6.22	1.14
FORESTRY	175	5.78	1.13
ENGINEERING, AEROSPACE	102	2.21	1.11
CRITICAL CARE MEDICINE	74	10.15	1.08
SOIL SCIENCE	157	4.62	1.08
ANATOMY & MORPHOLOGY	91	6.40	1.05
PHYSICS, ATOMIC, MOLECULAR & CHEMICAL	1084	6.60	1.02
PHYSICS, MULTIDISCIPLINARY	1716	8.25	1.00

Počty publikací a jejich citovanost v hlavních typech výzkumných institucí



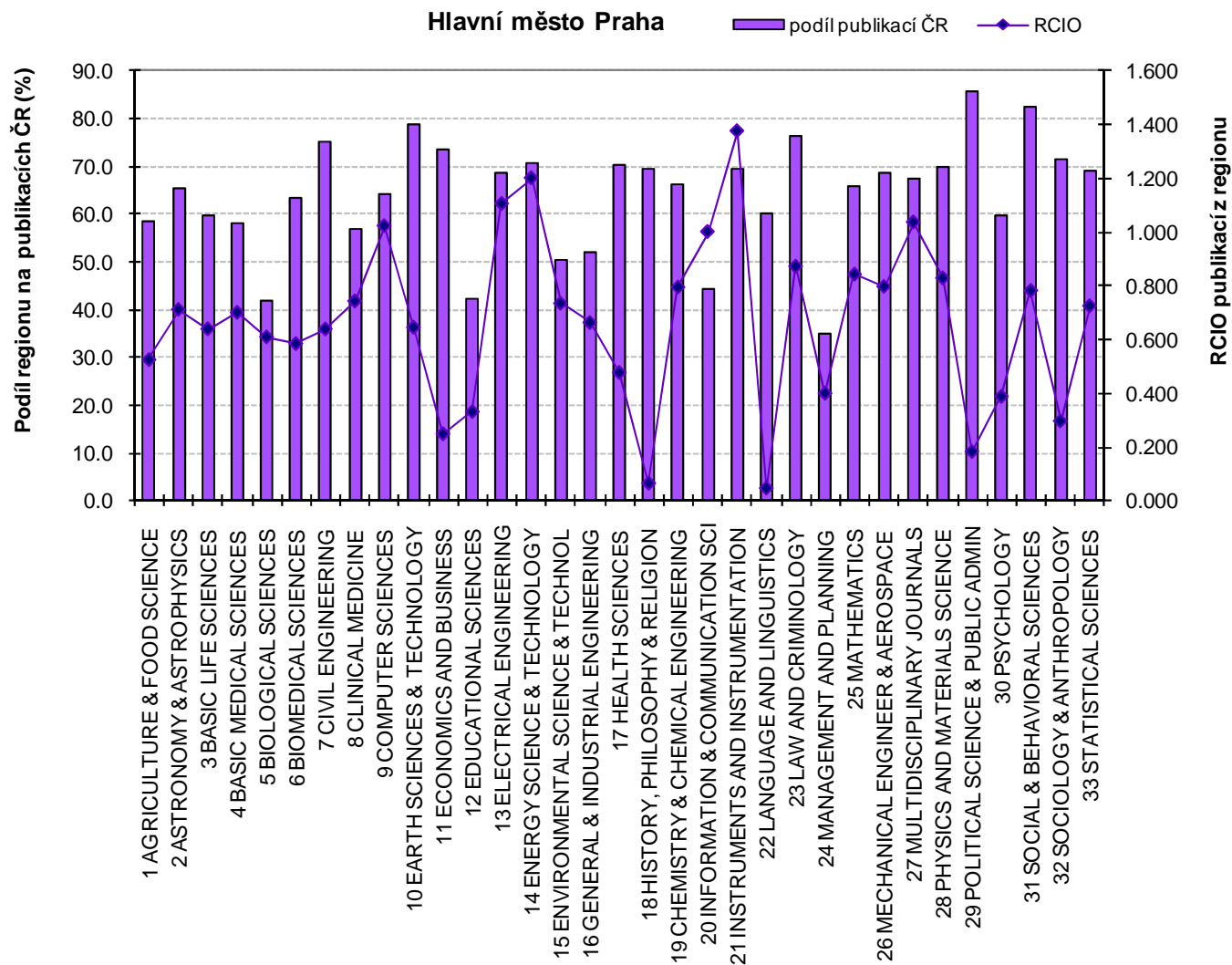
Excelentní instituce ve 4 nejcitovanějších podoborech

Zastřešující obor	Podobor/Název instituce	Počet publikací v ČR	RCIO publikací	Podíl na publikacích oboru v ČR
CLINICAL MEDICINE	MEDICINE GENERAL & INTERNAL	240	2.522	100
	Univerzita Karlova v Praze	112	3.001	46.7
	Fakultní nemocnice v Motole	20	1.653	8.3
CLINICAL MEDICINE	RHEUMATOLOGY	110	1.959	100
	Revmatologický ústav	65	2.513	59.1
	Univerzita Karlova v Praze	90	1.937	81.8
PHYSICS AND MATERIALS SCIENCE	PHYSICS NUCLEAR	536	1.679	100
	Institute of Physics of the ASCR	58	2.215	10.8
	Univerzita Karlova v Praze	114	1.916	21.3
	Nuclear Physics Institute of the ASCR	248	1.893	46.3
	České vysoké učení technické v Praze	54	1.530	10.1
	Institute of Plasma Physics of the ASCR	52	1.351	9.7
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	BIODIVERSITY CONSERVATION	99	1.757	100
	Institute of Systems Biology and Ecology of the ASCR	9	3.046	9.1
	Institute of Botany of the ASCR	29	2.518	29.3
	Masarykova univerzita	10	2.331	10.1
	Univerzita Karlova v Praze	27	2.020	27.3
	Jihočeská univerzita v Českých Budějovicích	32	1.145	32.3

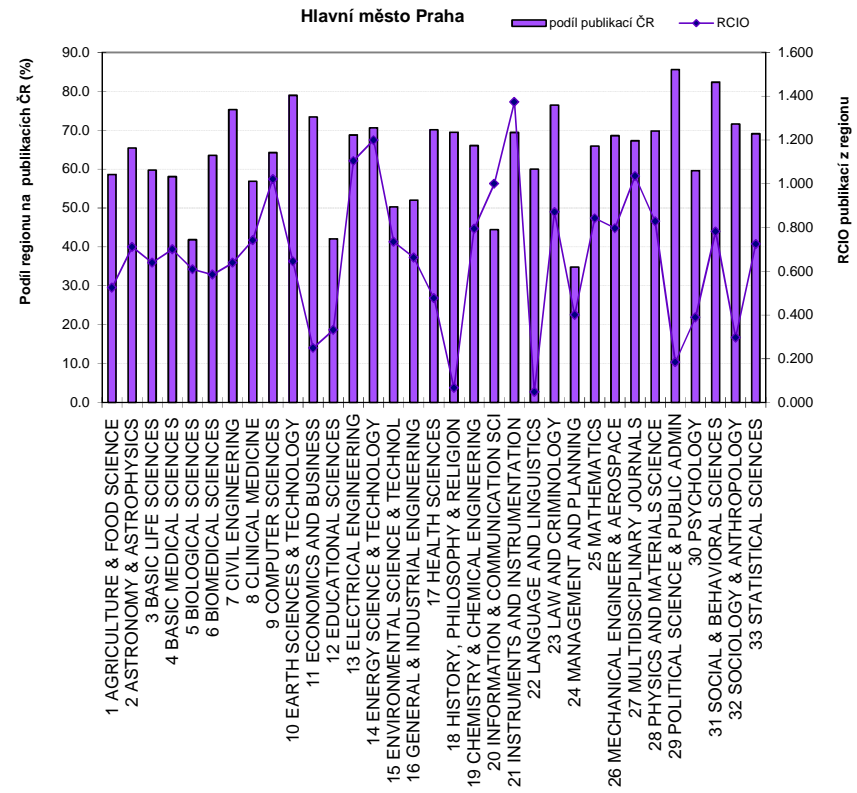
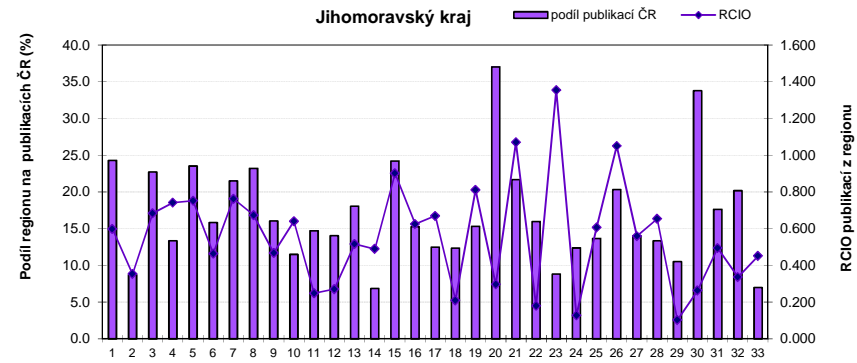
Regionální produkce impaktivých publikací a jejich citovanost v letech 2003-2009

Region	Počet publikací	Procento publikací ČR	Počet citací na publikaci	ON-RCI
Hlavní město Praha	30399	62.8	5.947	0.801
Jihočeský kraj	2991	6.2	4.897	0.745
Jihomoravský kraj	8728	18.0	4.928	0.708
Karlovarský kraj	12	0.02	4.583	0.570
Královéhradecký kraj	1739	3.6	5.405	0.718
Liberecký kraj	441	0.9	3.247	0.640
Moravskoslezský kraj	1430	3.0	3.399	0.542
Olomoucký kraj	2490	5.1	4.763	0.674
Pardubický kraj	1334	2.8	4.619	0.689
Plzeňský kraj	1281	2.6	3.657	0.536
Středočeský kraj	2562	5.3	6.126	0.773
Ústecký kraj	350	0.7	4.406	0.552
Vysočina	135	0.3	3.407	0.538
Zlínský kraj	522	1.1	3.234	0.551
ČR celkem	48402	100.0	5.507	0.759

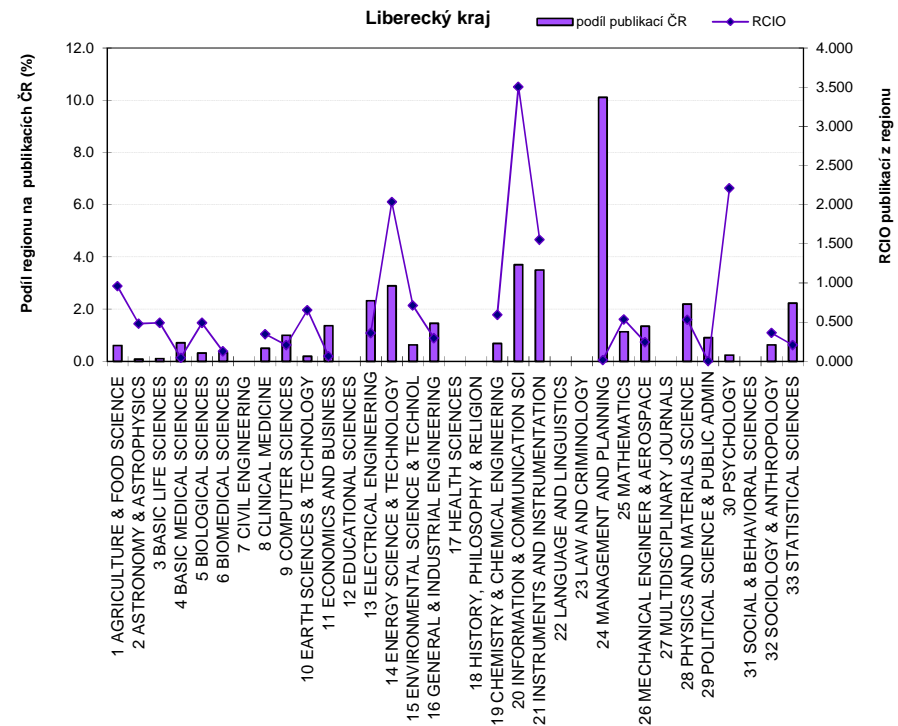
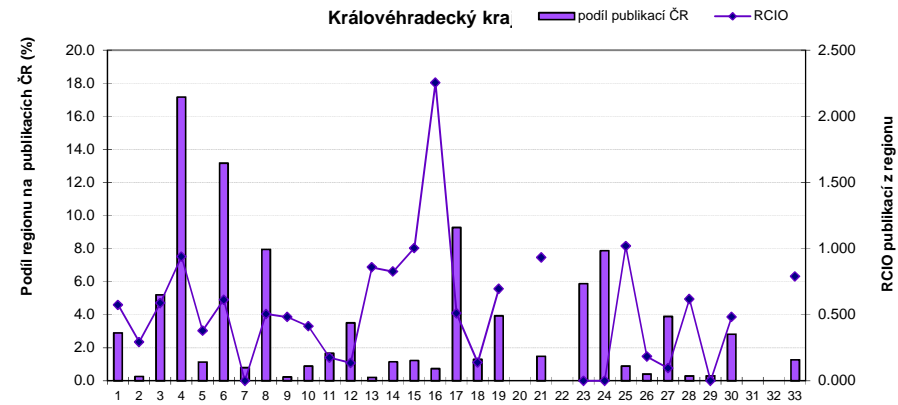
Oborové rozložení publikací a jejich RCIO



Oborové rozložení publikací a jejich RCIO



Oborové rozložení publikací a jejich RCIO



Nejvýznamnější podobory regionů ČR

Region	Podobor 1	Podobor 2	Podobor 3
Hlavní město Praha	Physics, atomic, molecular & chemical (831 publ. RCIO-1,1)	Nuclear science & technology (629 publ. RCIO-1,44)	Physics, particles & fields (556 publ. RCIO-1,01)
Jihočeský kraj	Ecology (290 publ. RCIO-1,01)	Entomology (217 publ. RCIO-1,16)	Marine & freshwater biology (211 publ. RCIO-1,04)
Jihomoravský kraj	Chemistry, analytical (544 publ. RCIO-1,24)	Environmental sciences (280 publ. RCIO-1,09)	Electrochemistry (165 publ. RCIO-1,49)
Karlovarský kraj	Polymer science (2 publ. RCIO-1,28)	Mineralogy (2 publ. RCIO-1,15)	Endocrinology & metabolism (1 publ. RCIO-1)
Královéhradecký kraj	Toxicology (136 publ. RCIO-1,37)	Chemistry, medicinal (107 publ. RCIO-1,18)	Veterinary sciences (49 publ. RCIO-1,3)
Liberecký kraj	Nuclear science & technology (35 publ. RCIO-2,41)	Instruments & instrumentation (26 publ. RCIO-1,95)	Physics, particles & fields (25 publ. RCIO-1,23)
Moravskoslezský kraj	Mathematics, applied (138 publ. RCIO-1,19)	Statistics & probability (39 publ. RCIO-1,54)	Environmental sciences (38 publ. RCIO-1,09)
Olomoucký kraj	Plant sciences (200 publ. RCIO-1,01)	Mathematics (136 publ. RCIO-1,38)	Mathematics, applied (106 publ. RCIO-1,12)
Pardubický kraj	Chemistry, analytical (242 publ. RCIO-1,14)	Materials science, ceramics (89 publ. RCIO-1,1)	Electrochemistry (26 publ. RCIO-2,68)
Plzeňský kraj	Physics, applied (80 publ. RCIO-1,1)	Materials science, coatings & films (49 publ. RCIO-1,71)	Physics, condensed matter (28 publ. RCIO-1,24)
Středočeský kraj	Physics, multidisciplinary (216 publ. RCIO-1,49)	Physics, nuclear (212 publ. RCIO-1,27)	Ecology (129 publ. RCIO-1,45)
Ústecký kraj	Environmental sciences (14 publ. RCIO-1,17)	Engineering, environmental (10 publ. RCIO-1,1)	Mathematics (9 publ. RCIO-1,64)
Vysočina	Zoology (21 publ. RCIO-1)	Food science & technology (7 publ. RCIO-1,13)	Orthopedics (4 publ. RCIO-1,33)
Zlínský kraj	Mechanics (19 publ. RCIO-1,04)	Engineering, electrical & electronic (13 publ. RCIO-1,03)	Physics, multidisciplinary (11 publ. RCIO-1,24)



Děkuji vám za pozornost