

Polish Journals in the World Scientific Corpus: Bibliometric Analysis

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Abstract

The attempt was made to assess Polish scientific journals from different fields of science by Normalized Impact Factor K . The place of Polish scientific journals in the world ranking list is presented. Special attention is paid to the fields of knowledge with considerable Polish contribution.

1 Introduction and Method

The aim of this paper is to assess Polish scientific journals by a special measure—Normalized Impact Factor (K). The idea of normalized impact factor (K) for evaluation of journals was to compare the traditional impact factor (I_p) of a journal, as indicated in *Journal Citation Reports* (JCR), with the average impact factor of the corresponding field of knowledge (I_g). To evaluate a particular journal the traditional impact factor I_p should be compared to the standard impact factor of the corresponding field I_g .

The technique of calculation of the standard impact factor for a field (I_g) is an inherent part of a method, which allows a cross-field evaluation of scientific journals.

For each field five journals with the highest I_p values were selected. If the total number of papers in those journals (for the two preceding years) was less than 500, the list was extended until the threshold of 500 was reached. The ratio of the total number of current year citations (in ISI source journals) of articles in the list journals

(for two preceding years) to the total number of source items in the list journals (in the same two years) represents the group standard impact factor of the field:

$$I_g = \frac{\sum R}{\sum S} \quad (1)$$

The most obvious and simple indicator would be the ratio of the two measures to get the Normalized impact factor of journal:

$$K = (I_p / I_g) \cdot 100\%.$$

If a journal belongs to two or more fields the arithmetic mean of the two or more I_g 's may be used (Marshakova-Shaikevich, 1996 or 2007).

This procedure was applied to the database of *Journal Citation Reports: Science Edition* for 1998–2002.

2 Results

The database JCR: 2002 *Science Edition* contains 5876 journals, including 43 journals published in Poland. The number of Polish journals, indexed in *Science* database, is growing steadily: it reached 54 in 2007. (There are no Polish journals in *Social Sciences* database, only 3 Polish journals are indexed for *Arts and Humanities* database). All those journals are listed in Table 1 in alphabetical order, the value of K for each journal is followed by the value of I_g of the field, in which this journal is indexed. The same journals are ranked by values of K in Table 2, their rank in worldwide list is also given.

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Table 1: Polish journals in JCR: 2002 *Science Edition*.

nn	journal title abbr	journal title	JCR:SE categories	I _g	Impact Factor I _p	K
1	ACTA ARITH	ACTA ARITHMETICA	PQ	1.75	0.48	27.63
2	ACTA ASTRONOM	ACTA ASTRONOMICA	BU	5.68	3.15	55.51
3	ACTA BIOCHIM POL	ACTA BIOCHIMICA POLONICA	CQ	24.26	0.6	2.47
4	ACTA BIOL CRACOV BOT	ACTA BIOLOGICA CRACOVIENSIS SERIES BOTANICA	DE	8.84	0.27	3.04
5	ACTA CHIROPTEROL	ACTA CHIROPTEROLOGICA	ZM	3.23	0.62	19.28
6	ACTA NEUROBIOL EXP	ACTA NEUROBIOLOGIAE EXPERIMENTALIS	RU	15.43	0.91	5.9
7	ACTA PALAEONTOL POL	ACTA PALAEONTOLOGICA POLONICA	TE	2.07	0.66	31.66
8	ACTA PARASITOL	ACTA PARASITOLOGICA	TI	3.51	0.73	20.88
9	ACTA PHYS POL A	ACTA PHYSICA POLONICA A	UI	7.59	0.35	4.55
10	ACTA PHYS POL B	ACTA PHYSICA POLONICA B	UI	7.59	0.6	7.92
11	ACTA PHYSIOL PLANT	ACTA PHYSIOLOGIAE PLANTARUM	DE	8.84	0.31	3.51
12	ACTA PROTOZOOL	ACTA PROTOZOOLOGICA	QU	8.84	0.45	5.05
13	ACTA SOC BOT POL	ACTA SOCIETATIS BOTANICORUM POLONIAE	DE	8.84	0.22	2.51
14	ACTA THERIOL	ACTA THERIOLOGICA	ZM	3.23	0.95	29.29
15	ANN AGR ENV MED	ANNALS OF AGRICULTURAL AND ENVIRONMENTAL MEDICINE	JA NE	3.88	0.85	21.92
16	ANN ZOO	ANNALES ZOOLOGICI	ZM	3.23	0.41	12.74
17	ARCH IMMUNOL THER EX	ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS	NI	19.59	0.79	4.05
18	ARCH METALL	ARCHIVES OF METALLURGY	PZ	2.32	0.24	10.18
19	B POL ACAD SCI-CHEM	BULLETIN OF THE POLISH ACADEMY OF SCIENCES-CHEMISTRY	DY	7.48	0.16	2.12
20	B VET I PULAWY	BULLETIN OF THE VETERINARY INSTITUTE IN PULAWY	ZC	2.56	0.24	9.53
21	BIOL SPORT	BIOLOGY OF SPORT	XW	2.57	0.16	6.1
22	CELL MOL BIOL LETT	CELLULAR & MOLECULAR BIOLOGY LETTERS	CQ DR	25.42	0.65	2.56
23	CHEM ANAL-WARSAW	CHEMIA ANALITYCZNA	EA	4.71	0.54	11.45
24	CONTROL CYBERN	CONTROL AND CYBERNETICS	ER AC	1.44	0.33	22.67
25	FIBRES TEXT EAST EUR	FIBRES & TEXTILES IN EASTERN EUROPE	QJ	0.78	0.15	18.88
26	FOLIA BIOL-KRAKOW	FOLIA BIOLOGICA-KRAKOW	CU	6.36	0.44	6.93
27	FOLIA HISTOCHEM CYTO	FOLIA HISTOCHEMICA ET CYTOBIOLOGICA	CQ DR	25.42	0.53	2.07
28	FOLIA NEUROPATHOL	FOLIA NEUROPATHOLOGICA	TM RU	10.63	0.39	3.71
29	FUND MATH	FUNDAMENTA MATHEMATICAE	PQ	1.75	0.31	17.52
30	INZ CHEM PROCESOWA	INZYNIERIA CHEMICZNA I PROCESOWA	II	2.67	0.05	1.91
31	J ANIM FEED SCI	JOURNAL OF ANIMAL AND FEED SCIENCES	AD	1.73	0.36	20.83
32	J PHYSIOL PHARMACOL	JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY	UM	8.02	1.41	17.52
33	MED WETER	MEDYCYN WETERYNARYJNA	ZC	2.56	0.26	10.32
34	NUKLEONIKA	NUKLEONIKA	UN EC	4.61	0.5	10.85
35	OPT APPL	OPTICA APPLICATA	SY	3.14	0.29	9.26
36	OPTO-ELECTRON REV	OPTO-ELECTRONICS REVIEW	IQ SY	3.12	0.47	14.92
37	POL J CHEM	POLISH JOURNAL OF CHEMISTRY	DY	7.48	0.53	7.06
38	POL J ENVIRON STUD	POLISH JOURNAL OF ENVIRONMENTAL STUDIES	JA	3.28	0.64	19.5
39	POL J PHARMACOL	POLISH JOURNAL OF PHARMACOLOGY	TU	11.54	0.68	5.93
40	POLIMERY-W	POLIMERY	UY	3.61	0.7	19.47
41	PRZEM CHEM	PRZEMYSŁ CHEMICZNY	II DY	5.08	0.18	3.55
42	REP MATH PHYS	REPORTS ON MATHEMATICAL PHYSICS	UR	2.21	0.57	25.67
43	STUD MATH	STUDIA MATHEMATICA	PQ	1.75	0.4	22.77

Table 2: Polish journals in JCR: 2002 *Science Edition* ranked by *K*

nn	journal title abbr	journal title	impact factor <i>I_p</i>	<i>K</i>	Rank in world list
1	ACTA ASTRONOM	ACTA ASTRONOMICA	3.15	55.1	850
2	ACTA PALAEONTOL POL	ACTA PALAEONTOLOGICA POLONICA	0.66	31.66	1985
3	ACTA THERIOL	ACTA THERIOLOGICA	0.95	29.29	2161
4	ACTA ARITH	ACTA ARITHMETICA	0.48	27.63	2315
5	REP MATH PHYS	REPORTS ON MATHEMATICAL PHYSICS	0.57	25.67	2501
6	STUD MATH	STUDIA MATHEMATICA	0.4	22.77	2780
7	CONTROL CYBERN	CONTROL AND CYBERNETICS	0.33	22.67	2790
8	ANN AGR ENV MED.	ANNALS OF AGRICULTURAL AND ENVIRONMENTAL MEDICINE	0.85	21.92	2887
9	ACTA PARASITOL	ACTA PARASITOLOGICA	0.73	20.88	3005
10	J ANIM FEED SCI	JOURNAL OF ANIMAL AND FEED SCIENCES	0.36	20.83	3010
11	POL J ENVIRON STUD	POLISH JOURNAL OF ENVIRONMENTAL STUDIES	0.64	19.5	3171
12	POLIMERY-W	POLIMERY	0.7	19.47	3172
13	ACTA CHIROPTEROL	ACTA CHIROPTEROLOGICA	0.62	19.28	3196
14	FIBRES TEXT EAST EUR	FIBRES & TEXTILES IN EASTERN EUROPE	0.15	18.88	3251
15	J PHYSIOL PHARMACOL	JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY	1.41	17.52	3432
16	FUND MATH	FUNDAMENTA MATHEMATICAE	0.31	17.52	3431
17	OPTO-ELECTRON REV	OPTO-ELECTRONICS REVIEW	0.47	14.92	3788
18	ANN ZOOL	ANNALES ZOOLOGICI	0.41	12.74	4119
19	CHEM ANAL-WARSAW	CHEMIA ANALITYCZNA	0.54	11.45	4309
20	NUKLEONIKA	NUKLEONIKA	0.5	10.85	4396
21	MED WETER	MEDYCINA WETERYNARYJNA	0.26	10.32	4467
22	ARCH METALL	ARCHIVES OF METALLURGY	0.24	10.18	4486
23	B VET I PULAWY	BULLETIN OF THE VETERINARY INSTITUTE IN PULAWY	0.24	9.53	4574
24	OPT APPL	OPTICA APPLICATA	0.29	9.26	4619
25	ACTA PHYS POL B	ACTA PHYSICA POLONICA B	0.6	7.92	4817
26	POL J CHEM	POLISH JOURNAL OF CHEMISTRY	0.53	7.06	4922
27	FOLIA BIOL-KRAKOW	FOLIA BIOLOGICA-KRAKOW	0.44	6.93	4933
28	BIOL SPORT	BIOLOGY OF SPORT	0.16	6.1	5070
29	POL J PHARMACOL	POLISH JOURNAL OF PHARMACOLOGY	0.68	5.93	5096
30	ACTA NEUROBIOL EXP	ACTA NEUROBIOLOGIAE EXPERIMENTALIS	0.91	5.9	5100
31	ACTA PROTOZOO	ACTA PROTOZOOLOGICA	0.45	5.05	5216
32	ACTA PHYS POL A	ACTA PHYSICA POLONICA A	0.35	4.55	5276
33	ARCH IMMUNOL THER EX	ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS	0.79	4.05	5339
34	FOLIA NEUROPATHOL	FOLIA NEUROPATHOLOGICA	0.39	3.71	5388
35	PRZEM CHEM	PRZEMYSŁ CHEMICZNY	0.18	3.55	5405
36	ACTA PHYSIOL PLANT	ACTA PHYSIOLOGIAE PLANTARUM	0.31	3.51	5410
37	ACTA BIOL CRACOV BOT	ACTA BIOLOGICA CRACOVENSIS SERIES BOTANICA	0.27	3.04	5470
38	CELL MOL BIOL LETT	CELLULAR & MOLECULAR BIOLOGY LETTERS	0.65	2.56	5547
39	ACTA SOC BOT POL	ACTA SOCIETATIS BOTANICORUM POLONIAE	0.22	2.51	5552
40	ACTA BIOCHIM POL	ACTA BIOCHIMICA POLONICA	0.6	2.47	5557
41	B POL ACAD SCI-CHEM	BULLETIN OF THE POLISH ACADEMY OF SCIENCES-CHEMISTRY	0.16	2.12	5603
42	FOLIA HISTOCHEM CYTO	FOLIA HISTOCHEMICA ET CYTOBIOLOGICA	0.53	2.07	5610
43	INZ CHEM PROCESOWA	INZYNIERIA CHEMICZNA I PROCESOWA	0.05	1.91	5229

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Table 3: Normalized impact factor (K) for Polish journals in 1998–2002

Journal title	JCR: SE Categories	K 1998	K 1999	K 2000	K 2001	K 2002	K average
ACTA ARITHMETICA	PQ	33.68	36.5	26.54	29.08	27.63	30.6
ACTA ASTRONOMICA	BU	42.61	53.86	72.89	42.68	55.51	53.5
ACTA BIOCHIMICA POLONICA	CQ	1.37	1.71	2.65	2.90	2.47	2.2
ACTA BIOLOGICA CRACOVIENSIA SERIES BOTANICA	DE	1.89	2.44	3.90	2.77	3.04	2.8
ACTA CHIROPTEROLOGICA	ZM	-	-	-	-	19.28	19.3
ACTA NEUROBIOLOGIAE EXPERIMENTALIS	RU	5.67	3.17	4.18	4.56	5.90	4.7
ACTA PALAEONTOLOGICA POLONICA	TE	14.26	41.65	33.84	49.92	31.66	34.3
ACTA PARASITOLOGICA	TI	16.55	16.15	14.96	23.64	20.88	18.4
ACTA PHYSICA POLONICA A	UI	5.64	5.61	6.15	6.95	4.55	5.8
ACTA PHYSICA POLONICA B	UI	9.41	9.31	7.20	8.4	7.92	8.4
ACTA PHYSIOLOGIAE PLANTARUM	DE	4.95	5.46	3.67	2.71	3.51	4.1
ACTA PROTOZOOLOGICA	QU	11.00	9.75	10.58	13.24	5.05	9.9
ACTA SOCIETATIS BOTANICORUM POLONIAE	DE	2.59	2.27	2.92	2.74	2.51	2.5
ACTA THERIOLOGICA	ZM	17.03	15.47	11.82	19.47	29.29	19.4
ANNALS OF AGRICULTURAL AND ENVIRONMENTAL MEDICINE	JA NE	-	-	-	-	21.92	21.9
ANNALES ZOOLOGICI	ZM	-	-	-	-	12.74	12.7
ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS	NI	-	-	-	-	4.05	4.0
ARCHIVES OF METALLURGY	PZ	-	-	7.85	6.10	10.18	8.0
BULLETIN OF THE POLISH ACADEMY OF SCIENCES-CHEMISTRY	DY	1.63	3.36	3.77	4.57	2.12	3.1
BULLETIN OF THE VETERINARY INSTITUTE IN PULAWY	ZC	25.35	12.21	11.50	13.32	9.53	15.1
BIOLOGY OF SPORT	XW	9.95	7.43	6.92	10.42	6.10	8.2
CELLULAR & MOLECULAR BIOLOGY LETTERS	CQ DR	3.55	3.67	5.10	3.04	2.56	3.6
CHEMIA ANALITYCZNA	EA	12.24	12.45	15.19	7.99	11.45	11.9
CONTROL AND CYBERNETICS	ER AC	-	12.33	12.92	11.92	22.67	15.8
FIBRES & TEXTILES IN EASTERN EUROPE	QJ	-	-	-	29.98	18.88	24.4
FOLIA BIOLOGICA-KRAKOW	CU	8.64	5.42	8.14	6.66	6.93	7.2
FOLIA HISTOCHEMICA ET CYTOBIOLOGICA	CQ DR	0.89	2.23	1.37	2.11	2.07	1.7
FOLIA NEUROPATHOLOGICA	TM RU	2.26	3.20	2.48	4.13	3.71	3.2
FUNDAMENTA MATHEMATICAE	PQ	21.36	25.57	19.09	19.05	17.52	19.2
INZYNIERIA CHEMICZNA I PROCESOWA	II	13.29	11.68	8.80	16.80	1.91	10.5
JOURNAL OF ANIMAL AND FEED SCIENCES	AD	-	-	27.85	29.07	20.83	25.9

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JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY	UM	18.72	20.10	16.48	19.44	17.52	18.4
MEDYCYNA WETERYNARYJNA	ZC	11.61	8.03	6.95	9.7	10.32	9.3
NUKLEONIKA	UN EC	-	-	-	6.77	10.85	8.8
OPTICA APPLICATA	SY	7.56	4.33	8.28	10.16	9.26	7.9
OPTO-ELECTRONICS REVIEW	IQ SY	-	-	-	-	14.92	14.9
POLISH JOURNAL OF CHEMISTRY	DY	5.22	6.16	5.62	7.13	7.06	6.2
POLISH JOURNAL OF ENVIRONMENTAL STUDIES	JA	-	-	-	-	19.5	19.5
POLISH JOURNAL OF PHARMACOLOGY	TU	4.58	6.76	5.66	7.3	5.93	6.0
POLIMERY	UY	6.83	9.22	9.43	11.78	19.47	11.3
PRZEMYSŁ CHEMICZNY	II DY	2.07	2.87	3.84	3.19	3.55	3.1
REPORTS ON MATHEMATICAL PHYSICS	UR	-	-	31.06	22.35	25.67	24.0
STUDIA MATHEMATICA	PQ	24.22	22.25	30.66	25.33	22.77	25.0

Table 4: Polish journals ranked by average normalized K

Journal title	categories W JCR	K 1998	K 1999	K 2000	K 2001	K 2002	K' av 98-02
ACTA ASTRONOMICA	BU	42.61	53.86	72.89	42.68	55.51	53.5
ACTA PALAEOLOGICA POLONICA	TE	14.26	41.65	33.84	49.92	31.66	34.3
ACTA ARITHMETICA	PQ	33.68	36.50	26.54	29.08	27.63	30.6
JOURNAL OF ANIMAL AND FEED SCIENCES	AD	-	-	27.85	29.07	20.83	25.9
STUDIA MATHEMATICA	PQ	24.22	22.25	30.66	25.33	22.77	25.0
FIBRES & TEXTILES IN EASTERN EUROPE	QJ	-	-	-	29.98	18.88	24.4
REPORTS ON MATHEMATICAL PHYSICS	UR	-	-	31.06	22.35	25.67	24.0
ANNALS OF AGRICULTURAL AND ENVIRONMENTAL MEDICINE	JA NE	-	-	-	-	21.92	21.9
POLISH JOURNAL OF ENVIRONMENTAL STUDIES	JA	-	-	-	-	19.5	19.5
ACTA THERIOLOGICA	ZM	17.03	15.47	11.82	19.47	29.29	19.4
ACTA CHIROPTEROLOGICA	ZM	-	-	-	-	19.28	19.3
FUNDAMENTA MATHEMATICAE	PQ	21.36	25.57	19.09	19.05	17.52	19.2
JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY	UM	18.72	20.10	16.48	19.44	17.52	18.4
ACTA PARASITOLOGICA	TI	16.55	16.15	14.96	23.64	20.88	18.4
CONTROL AND CYBERNETICS	ER AC	-	12.33	12.92	11.92	22.67	15.8
BULLETIN OF THE VETERINARY INSTITUTE IN PULAWY	ZC	25.35	12.21	11.50	13.32	9.53	15.1
OPTO-ELECTRONICS REVIEW	IQ SY	-	-	-	-	14.92	14.9
ANNALES ZOOLOGICI	ZM	-	-	-	-	12.74	12.7

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CHEMIA ANALITYCZNA	EA	12.24	12.45	15.19	7.99	11.45	11.9
POLIMERY	UY	6.83	9.22	9.43	11.78	19.47	11.3
INZYNIERIA CHEMICZNA I PROCESOWA	II	13.29	11.68	8.80	16.80	1.91	10.5
ACTA PROTOZOOLOGICA	QU	11.00	9.75	10.58	13.24	5.05	9.9
MEDYCYNĄ WETERYNARYJNĄ	ZC	11.61	8.03	6.95	9.70	10.32	9.3
NUKLEONIKA	UN EC	-	-	-	6.77	10.85	8.8
ACTA PHYSICA POLONICA B	UI	9.41	9.31	7.20	8.40	7.92	8.4
BIOLOGY OF SPORT	XW	9.95	7.43	6.92	10.42	6.10	8.2
ARCHIVES OF METALLURGY	PZ	-	-	7.85	6.10	10.18	8.0
OPTICA APPLICATA	SY	7.56	4.33	8.28	10.16	9.26	7.9
FOLIA BIOLOGICA-KRAKOW	CU	8.64	5.42	8.14	6.66	6.93	7.2
POLISH JOURNAL OF CHEMISTRY	DY	5.22	6.16	5.62	7.13	7.06	6.2
POLISH JOURNAL OF PHARMACOLOGY	TU	4.58	6.76	5.66	7.30	5.93	6.0
ACTA PHYSICA POLONICA A	UI	5.64	5.61	6.15	6.95	4.55	5.8
ACTA NEUROBIOLOGIAE EXPERIMENTALIS	RU	5.67	3.17	4.18	4.56	5.90	4.7
ACTA PHYSIOLOGIAE PLANTARUM	DE	4.95	5.46	3.67	2.71	3.51	4.1
ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS	NI	-	-	-	-	4.05	4.0
CELLULAR & MOLECULAR BIOLOGY LETTERS	CQ DR	3.55	3.67	5.10	3.04	2.56	3.6
FOLIA NEUROPATHOLOGICA	TM RU	2.26	3.20	2.48	4.13	3.71	3.2
PRZEMYSŁ CHEMICZNY	II DY	2.07	2.87	3.84	3.19	3.55	3.1
BULLETIN OF THE POLISH ACADEMY OF SCIENCES-CHEMISTRY	DY	1.63	3.36	3.77	4.57	2.12	3.1
ACTA BIOLOGICA CRACOVIENSIA SERIES BOTANICA	DE	1.89	2.44	3.90	2.77	3.04	2.8
ACTA SOCIETATIS BOTANICORUM POLONIAE	DE	2.59	2.27	2.92	2.74	2.51	2.5
ACTA BIOCHIMICA POLONICA	CQ	1.37	1.71	2.65	2.90	2.47	2.2
FOLIA HISTOCHEMICA ET CYTOBIOLOGICA	CQ DR	0.89	2.23	1.37	2.11	2.07	1.7

3 Discussion

Only one journal (ACTA ASTRONOMICA) has K exceeding 50, the next fifteen journals have K , lying between 15 and 50 (two journals, CONTROL AND CYBERNETICS and ANNALS OF AGRICULTURAL AND ENVIRONMENTAL MEDICINE are being indexed in two fields of knowledge). The rest of the journals show gradually declining K s without any sharp breaks.

There are three traditional fields of knowledge, where Polish contribution to world sci-

ence is significant. Those are mathematics (code PQ) with three journals in JCR 2002: ACTA ARITHMETICA, FUNDAMENTA MATHEMATICAE, STUDIA MATHEMATICA; zoology (code ZM) with three journals: ACTA THERIOLOGICA, ACTA CHIROPTEROLOGICA, ANNALES ZOOLOGICI; and plant sciences (code DE) with three journals: ACTA BIOLOGICA CRACOVIENSIA SERIES BOTANICA, ACTA PHYSIOLOGIAE PLANTARUM, ACTA SOCIETATIS BOTANICORUM POLONIAE.

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General statistics of Polish journals in the list of journals ranked by normalized impact factor is shown below:

Ranking journals by normalized impact K				
List 500	List 1000	List 3000	List 4000	List 5000
0	1	8	17	27

Distributions of Polish journals in the world journal corpora is shown below:

Zone	Normalized impact K	Number of journals	Number of Polish journals
1	$K > 200$	24	0
2	$200 > K > 100$	173	0
3	$100 > K > 70$	315	0
4	$70 > K > 50$	533	1
5	$50 > K > 20$	2067	9
6	$20 > K > 10$	1407	12
7	$10 > K > 1$	1211	21
8	$1 > K > 0$	62	0
9	$K = 0$	84	0

It is interesting to analyze the dynamics of Polish journals, reflected in K values (see Table 3). Polish journals ranked by average normalized K is shown in Table 4.

The K values (shown in Table 3) seem rather stable. There are few peaks (e. g. ACTA ASTRONOMICA in 2000, ACTA PALAENTOLOGICA POLONICA in 2001), few cases of significant growth (e. g. POLIMERY, CONTROL AND CYBERNETICS) and only one case of a marked decline (BULLETIN OF THE VETER-

INARY INSTITUTE IN PULAWY).

As has been already mentioned the list of Polish journals, indexed for JCR, is gradually expanding. In 1999 CONTROL AND CYBERNETICS was added, in 2000 three more journals followed the suit: REPORTS ON MATHEMATICAL PHYSICS, JOURNAL OF ANIMAL AND FEED SCIENCES (both close to traditional 'Polish' fields of mathematics and zoology) and ARCHIVES OF METALLURGY. Two more journals were added in 2001: FIBRES & TEXTILES IN EASTERN EUROPE and NUKLEONIKA; 2002 witnessed six new journals, two of them belonging to zoology: ANNALES ZOOLOGICI and ACTA CHIROPTEROLOGICA. On the other hand the traditional field of botany, with its low values of K , saw no additions.

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