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Analysis Study of Chemical Periodicals – Some Factors, Standards & Indicators

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ABSTRACT

In this study /1058/ chemical periodicals, 710 refereed and 348 unrefereed were collected, and studied with some information and self-description factors, needed to compare its refereed or unrefereed markers (indicators& factors). This information includes: Name of the periodical, International Standard Serial Number (ISSN), Language, Country of the "Sponsoring Body", refereed or not, URL and coverage & refereed status in Current Contents (CC), Chemical Abstracts (CA), and International Nuclear Information System Database (INIS).

Our study shows that only 31 % of the world issue the chemical periodicals /1058/. Out of the 1058, 92 % are issued by the third of these countries (20 countries which is equal to 10 % of the world), in which the number of refereed periodicals is higher than the unrefereed ones. The ratio was the same when the periodicals were categorized by the spoken language.

The standards for referred periodicals should not be ignored, regardless of its markers(indicators& factors) that should not include some of self-description factors: the size, level, language, location or country of the "Sponsoring Body", the ISSN or the publisher. The standard's markers (indicators& factors) should not be monopolized by any of these factors. Chemical Periodicals, produced in many languages, were mostly refereed. English language is not the main used language for the worldwide chemical research, however it was the most common used language in the chemical refereed and unrefereed periodicals.

Most of the chemicals periodicals are indexed by CA (779), CC (603) and INIS (513). In these indices, refereed periodicals' percentages decreased from 94% in the CC to 81% in the INIS and 77% in the CA while unrefereed periodicals' percentages increased to 6%, 19% and 23 % respectively. Refereed periodicals' indices /571/ were stated as 567 (80%), 417 (59%) and 599 (84%) in the CC, INIS and CA respectively; whereas the unrefereed periodicals were stated in different order 143 (20%), 293 (41%) and 111 (16%) respectively. Third of the periodicals are simultaneously indexed in the three indices where most of the refereed ones (266: 74%) are written in English. Refereed periodicals are more indexed than the un-refereed ones (either were indexed in two or three indices). No primary relation was found between the primary periodicals in the CC and its stating in the CA or the INIS; however studying the indexing status is beneficial in relating refereed periodicals' markers and indices to general and specialist markers of the periodical and its bibliographic citations in order to get the most string and significant figures(meaningful) markers (indicators& factors).

The study enlarge the spread of the bibliographic knowledge, its development and its role in building the specialist profound baseline scientific (chemical) bibliographical infrastructure of the scientists scientific (chemical) community, young researchers, postgraduate students, reviewers and referees or scientific administrators. It is a step and an example for relating the chemical periodicals description-self & its characteristics specialties and both apparent and actual referring standards, markers and factors with scientific evaluation standards and the Quality Assurance, Quality Control and Performance of Scientific Research and High Education Structure System.

Key Words: Chemical Periodicals, Chemists, Standards, Infrastructure. Quality Control. Performance. Scientific Research. High Education.

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(Sponsoring Body)

1058 [1] 2004
(Indexing Periodicals)

[7,6.5,4,3,2]

(Universal Resource Locator) URL

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(International Standard Serial Number) ISSN

[5] (Current Contents)CC

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[6] (Chemical Abstracts) CA

[4] (International Nuclear Information System) INIS

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710 1058 :2002

348

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(URL & Title) :[1] (1)
 .(ISSN) .(Ulrich)2002
 (CC)
 Country:) .(CA) (INIS)
 : (Language) LA .(2) CO
 . (Ja) (Cz) (En) (F) (De)
 . (N) . (Y) . (NA)

TITLE and URL	ISSN	CC	INIS	CA	CO	LA
Angewandte Makromolekulare Chemie http://www.wiley-vch.de/home/amc/	1438-7492	Y	N	Y	DE	En, Fr, De
Annales de Chimie: Science des Matériaux http://www.elsevier.com/locate/anncsn	0151-9107	Y	Y	Y	FR	En, Fr
Asian Journal of Chemistry http://www.geocities.com/ajchem1988/	0970-7077	N	Y	Y	IN	En
Chemical Health and Safety http://www.elsevier.com/locate/chs	1074-9098	N	N	Y	US	En
Hungarian Journal of Industrial Chemistry http://www.vein.hu/HJIC	0133-0276	Y	Y	Y	HU	En
Inorganica Chimica Acta http://www.elsevier.nl/locate/inca/504086	0020-1693	Y	Y	Y	CH	En
Journal of Chemical Research http://www.scilet.com/chemistry/jcr1.htm	0308-2342	Y	Y	Y	GB	En, Fr, De
Journal of Radioanalytical and Nuclear Chemistry http://www.wkap.nl/journalhome.htm/0236-5731	0236-5731	Y	Y	Y	HU	En
Journal of Synthetic Organic Chemistry, Japan http://wwwsoc.nii.ac.jp/ssoci/journal/journal.html	0037-9980	Y	Y	Y	JP	Jp
Kinetics and Catalysis http://www.wkap.nl/journalhome.htm/0023-1584	0023-1584	Y	Y	Y	RU	En
Polish Journal of Applied Chemistry http://www.cchp-pan.zabrze.pl/index_pliki/pjapchem.html	0867-8928	N	Y	Y	PL	En
Bulgarian Journal of Chemical Education http://www.khimiya.org	0861-9255	N	N	Y	BG	En
Bulletin of the Czech Chemical Society http://www.uochb.cas.cz/bulletin.html	NA	N	N	N	CZ	Cz
Chemistry International	0193-6484	N	Y	Y	GB	En

<http://www.iupac.org/publications/ci/>

[15,14,13,12,11,10,9,8]

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	[17] (technology) (technique .)	
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	. [12,11,8]	
	:(secondary periodicals)	3
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.(abstracting periodicals)	(indexing periodicals)	
	[6](Chemical Abstracts)	
	[7](Chemical Abstracts Plus)	
. [19, 12,11,5,4]	[18](Analytical Abstracts)	
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[22] [21,20] 1 .[24,23]
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 2 (Spectroscopy) (Analytical Chemistry)
 Chemical)
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2002 (2)
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(%9 97) (%17 177) (%23 241)
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7	2	5	AU	
1	1	-	EE	
90	34	56	DE	
2	1	1	UZ	
6	5	1	UA	
2	1	1	IR	
8	6	2	IT	
1	-	1	PK	
8	6	2	BR	
2	2	-	PT	
177	49	128	GB	
1	1	-	BY	
5	3	2	BG	
1	1	-	BA	
26	16	10	PL	
2	1	1	PE	
5	1	4	TW	
1	1	-	TM	
2	-	2	TR	
5	2	3	CZ	

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3	2	1	ZA	
9	3	6	DK	
75	36	39	RU	
6	3	3	RO	
3	1	2	SK	
5	2	3	SG	
2	2	-	SE	
69	10	59	CH	
1	1	-	-	
47	21	26	CN	
13	7	6	FR	
5	5	-	FI	
1	-	1	PH	
3	-	3	HR	
2	2	-	KZ	
7	3	4	CA	
2	2	-	CU	
10	6	4	KR	
2	2	-	CO	
3	2	1	LV	
1	1	-	MY	
1	1	-	EG	
1	1	-	MK	
3	1	2	MX	
1	1	-	MD	
1	1	-	NO	
7	3	4	AT	
1	1	-	NG	
23	9	14	IN	
10	4	6	HU	
97	11	86	NL	
1	-	1	HK	
241	49	192	US	
35	16	19	JP	
1	1	-	GR	

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131 . (%25.5 270)

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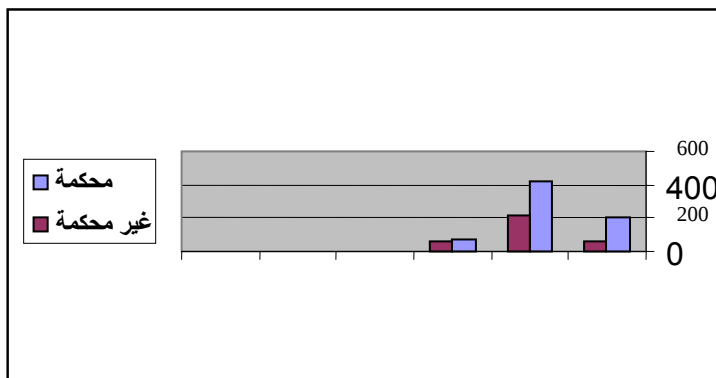
(% 2 10) .(%2 13) (%4 26) (%11

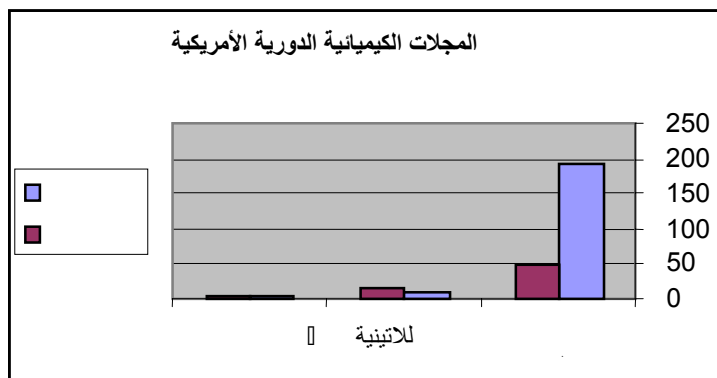
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38	18	20	
119	80	39	
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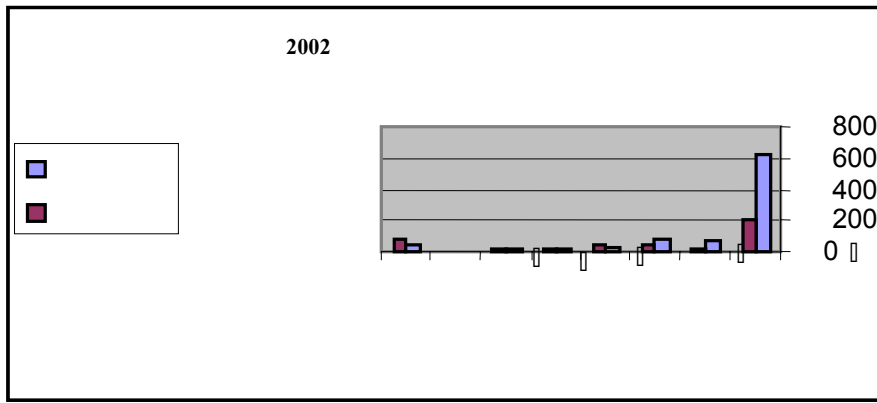
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 INIS (%84) 599 (%59) 417 (%80)
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