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EUROPEAN ATOMIC ENERGY COMMUNITY - EURATOM

INVESTIGATION ON NUCLEAR
"CORE JOURNALS"

by

E. BÖHM

1968



Directorate Dissemination of Information

Center for Information and Documentation - CID

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European Atomic Energy Community - EURATOM
Directorate Dissemination of Information
Center for Information and Documentation - CID
Brussels, February 1968 - 21 Pages - FB 40

The Center for Information and Documentation (CID) has conducted an investigation regarding articles of nuclear interest abstracted by "Nuclear Science Abstracts" and by 17 other abstracting and indexing services.

A total of 21,467 abstracts published during the first quarter of 1965 has been scanned. 14,793 (100 %) abstracts represent articles from 1,978 (100 %) primary periodicals. 11,083 abstracts (74.7 %) originate from only 272 (13.8 %) primary periodicals, which can be considered as the "core journals" for nuclear science and technology.

The geographical distribution of these "core journals" is also given in this report.

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SUMMARY

The Center for Information and Documentation (CID) has conducted an investigation regarding articles of nuclear interest abstracted by "Nuclear Science Abstracts" and by 17 other abstracting and indexing services.

A total of 21,467 abstracts published during the first quarter of 1965 has been scanned. 14,793 (100 %) abstracts represent articles from 1,978 (100 %) primary periodicals. 11,083 abstracts (74.7 %) originate from only 272 (13.8 %) primary periodicals, which can be considered as the "core journals" for nuclear science and technology.

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KEYWORD

DOCUMENTATION

C O N T E N T S

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INTRODUCTORY REMARKS

When the development of the Euratom Nuclear Documentation System started in 1962, it was decided after due consideration to base the indexing of documents on their abstracts. Physically and economically it would have been impossible to collect all the original literature, but this was unnecessary since Nuclear Science Abstracts, which started in 1948, seemed to guarantee quality and coverage in an excellent way. Regarding the backlog, the average current time-lag of about six months between publication of the original and that of the abstract was, of course, of no importance.

In the course of the development of the system, however, the CID investigated the world-wide structure of nuclear information in depth by scanning and evaluating a large number of secondary publications for literature relevant to the system's defined scope.

It became clear, at the outset of these investigations, that, in order to be in a position to give fresher information, especially on the journal literature, it might be desirable to switch from the scanning of secondary periodicals to the direct scanning of primary periodicals.

As a consequence, a survey was conducted, the result of which is that, in nuclear science and technology as in most other disciplines, a rather small percentage of all periodicals publishing items of nuclear interest are covering more than 70% of the total and that about 75% of the input of journal literature in the Euratom Nuclear Documentation System can be effected by scanning and indexing the contents of only 272 "core journals", whereas the remaining 25% has to be drawn from 1.706 more periodicals.

The number of abstracts found for each primary periodical individually is not to be taken at their face value, owing mostly to varying time-lags of the secondary periodicals. Checking the originals of these primary periodicals would probably give slightly deviating figures, but not to such an extent, as to fundamentally alter the list of "core journals".

This result might be of interest for any librarian in the nuclear field who is to husband his financial resources. He might find it quite useful to scan the list of "core journals" in order to draw a maximum of coverage from his journal acquisitions.

BASIS OF THE INVESTIGATION

The aim of this investigation is to find out which are the "core journals" in nuclear science and technology. - Are to be considered as "core journals" those primary periodicals contributing to about 75% of the total of the journal literature abstracted.

The investigation is based upon a representative sampling of the 1965 total : scanning all the abstracts of nuclear interest published during the first quarter of 1965, that is :

from NSA : 10,718 abstracts = 22% (of the total of 1965=48,118);
from 17 other Abstracting Journals :
10,749 abstracts = 20% (of 53,732), (★)
representing a total of 21,467 abstracts. (Table I).

SUMMARY OF THE FINDINGS

The scanning operations have been performed in two consecutive steps :

- 1) Scanning of NSA ;
- 2) Scanning of 17 other abstracting journals by eliminating those abstracts already published in NSA.

The result of these operations are tabulated as follows :

1. - Out of 21,467 abstracts scanned (100%) abstracts of periodical (journal) articles amount to 14,793 (68.9%).
2. - These 14,793 abstracts originate from 1,978 (100%) different primary periodicals. (★★)
3. - Out of these 14,793 abstracts, 11,083 come from 272 primary periodicals, 3,710 abstracts from the other 1,706 primary periodicals.
4. - In other words, 13.8% of the scanned periodicals lead to 74.7% of the abstracts, whereas the remaining 86.2% of these periodicals give only 25.3% of the abstracts published.
5. - Table II lists the 272 primary periodicals which are the "core journals" of 18 abstracting services.

(★) The 53,732 abstracts of nuclear interest have been selected from a total of 850,000 abstracts published during 1965 by the 17 abstracting journals.

(★★) As the same primary periodicals are cited in many of the scanned abstracting journals, the figure relating to the total of "periodicals cited" given in Table I, contains inevitably a great deal of duplication, i. e. 1,533 titles.

6. - Table III shows the geographical distribution of the 272 "core journals".
7. - According to the figures given in table III, the abstracts derived from the "core journals" originate in the following Countries :

U. S. A.)	
Canada)	
Community Countries)	73.3 %
Western Europe)	
U. S. S. R.)	
Eastern Europe)	22.0 %
Rest of the World)	4.7 %

CONCLUSIONS

An essential coverage (74.7 %) of the scientific and technical literature in the nuclear field published in primary periodicals can be achieved by the cover to cover scanning and abstracting of only 272 "core journals".

As the great majority of the "core journals" publishes abstracts or summaries of the original articles, (★) the analysis and key-words assignment for these original articles can be performed with the same speed and efficiency as those retrieved by scanning secondary periodicals.

(★) Out of 272 "core journals", only 28 do not publish abstracts.

PRIMARY PERIODICALS ABSTRACTED IN 1965

(1st quarter)

Abstracting Journals	Abstracts scanned	Articles cited	Periodicals cited
Nuclear Science Abstracts	10,718	6,003	912
Chemical Abstracts	2,240	1,534	592
Chemisches Zentralblatt	1,830	1,670	403
Bull. Signal. : Phys. Nucléaire	1,184	956	116
Excerpta Medica : Nucl. Med.	982	878	259
Physics Abstracts	776	698	138
Biological Abstracts	652	628	227
Bull. Signal. : Phys. II	572	516	59
Physikalische Berichte	452	397	105
Intern. Aerospace Abstracts	408	187	71
Engineering Index	332	269	135
Bull. Signal. : Chimie I	332	246	105
Bull. Signal. : Struct. Mat.	316	247	59
Bull. Signal. : Biol. Physiol.	183	169	113
Bull. Signal. : Biophys. Biochim.	176	149	94
Electrical Engineering	128	102	56
Metallurgical Abstracts	94	69	28
Bull. Signal. : Astron. Geophys.	92	75	39
Total = 18 Abstracting journals	21,467	14,793	3,511 °)

°) For every primary periodical cited in every abstracting journal an individual card has been established and the number of citations marked on each of these cards. These individual cards have been incorporated in one general card file, keeping for every different primary periodical only one card on which all the citations have been cumulated.

CORE JOURNALS AND NON CORE JOURNALS

ABSTRACTED IN 18 ABSTRACTING JOURNALS IN 1965 (1st quarter)

Titles of primary periodicals cited	Number of citations	Abstracts of articles published in the prim. per.	Number of abstracting journals having cited the periodical
I. Core Journals			
Bull. Amer. Phys. Soc. (U. S. A.)	961	none	5
Phys. Rev. (U. S. A.)	504	English	10
Trans. Am. Nucl. Soc. (U. S. A.)	378	English	2
Phys. Letters (Netherlands)	288	English	9
★ Zh. Eksperim. i Teor. Fiz. (U. S. S. R.)	281	English	10
Nucl. Phys. (Netherlands)	236	English	7
Nature (U. K.)	223	none	13
Nuovo Cimento (Italy)	205	English	8
J. Chem. Phys. (U. S. A.)	192	English	7
Compt. Rend. (Acad. Sci.) (France)	186	French	14
Phys. Rev. Letters (U. S. A.)	148	English	7
★ Dokl. Akad. Nauk SSSR (U. S. S. R.)	133	none	14
Biochim. Biophys. Acta (Netherlands)	127	English	7
★ Zh. Tekhn. Fiz. (U. S. S. R.)	124	Russian	7
J. Appl. Phys. (U. S. A.)	112	English	13
Arkiv. Fysik (Sweden)	107	English	9
Biochem. J. (U. K.)	106	English	5
★ Radiokhimiya (U. S. S. R.)	104	English	4

Titles of primary periodicals cited	Number of citations	Abstracts of articles published in the prim. per.	Number of abstracting journals having cited the periodical
J. Phys. Soc. Japan (Japan)	102	English	9
Radiation Res. (U. S. A.)	96	English	7
Nucl. Instr. Methods (Netherlands)	90	English	8
* Izv. Akad. Nauk SSSR, Ser. Fiz. (U. S. S. R.)	89	none	5
IEEE Proc. (U. S. A.)	85	English	8
* Zh. Neorgan. Khim. (U. S. S. R.)	85	Russian	5
J. Am. Chem. Soc. (U. S. A.)	83	English	6
Rev. Sci. Instr. (U. S. A.)	83	English	10
Nucl. Sci. Eng. (U. S. A.)	81	English	6
J. Geophys. Res. (U. S. A.)	80	English	6
Clin. Res. (U. S. A.)	78	none	1
J. Biol. Chem. (U. S. A.)	75	English	7
Progr. Theoret. Phys. (Japan)	74	English	3
* Radiobiologiya (U. S. S. R.)	74	Russian	4
Strahlentherapie (Germany)	73	English Fr. Germ.	5
At. Energ. (U. S. S. R.)	70	English	6
Jadernaja Fotografia (Czechoslovakia)	69	**	1
Z. Naturforsch. (Germany)	69	English or German	8
* Nukleonika (Poland)	68	English or Russian	5
Biochem. Biophys. Res. Commun. (U. S. A.)	66	none	5
Health Phys. (U. S. A.)	66	English	6
* Optika i Spektroskopiya (U. S. S. R.)	66	English	8
* Pribory i Tekhn. Eksperim. (U. S. S. R.)	66	English	6
Kernenergie (East Germany)	65	German	3
Phys. Fluids (U. S. A.)	62	English	6

Titles of primary periodicals cited	Number of citations	Abstracts of articles published in the prim. per.	Number of abstracting journals having cited the periodical
J. Math. Phys. (U. S. A.)	61	English	3
Science (U. S. A.)	61	none	9
★ Fiz. Tverd. Tela (U. S. S. R.)	60	English	9
Intern. J. Appl. Radiation Isotopes (U. K.)	60	Engl. Fr. Germ. Russ.	5
Astrophys. J. (U. S. A.)	52	English	7
CERN Courier (Switzerland)	52	none	2
J. Chem. Soc. (U. K.)	52	English	4
J. Inorg. Nucl. Chem. (U. K.)	52	English, German	3
Ann. N. Y. Acad. Sci. (U. S. A.)	51	English	7
Appl. Phys. Letters (U. S. A.)	51	English	6
IEEE Trans. Nucl. Sci. (U. S. A.)	51	English	5
J. Electrochem. Soc. (U. S. A.)	51	English	8
Radiology (U. S. A.)	49	English. Interlingua	3
Genetics (U. S. A.)	48	English	3
Proc. Soc. Exptl. Biol. Med. (U. S. A.)	48	English	6
Z. Physik (Germany)	48	English German	5
Beitr. Plasmaphysik (East Germany)	47	English German	2
★ Zh. Fiz. Khim. (U. S. S. R.)	47	English	5
Arch. Biochem. Biophys. (U. S. A.)	42	English	6
Anal. Chem. (U. S. A.)	41	English	5
Phys. Status Solidi (East Germany)	41	Engl. Germ. Russian	5
Acta Unio Intern. Contra Cancrum (Belgium)	39	English French	2
J. Phys. (France)	39	English French	8

Titles of primary periodicals cited	Number of citations	Abstracts of articles published in the prim. per.	Number of abstracting journals having cited the periodical
* Acta Phys. Sinica (China)	38	English	8
* Fiz. Metal. i Metalloved. (U. S. S. R.)	38	English	9
Can. J. Phys. (Canada)	37	English	7
Am. J. Physiol. (U. S. A.)	36	English	5
Boll. Soc. Ital. Biol. Sper. (Italy)	36	none	6
* Astron. Zh. (U. S. S. R.)	35	English	5
Nucleonics (U. S. A.)	35	English	4
Phys. Med. Biol. (U. K.)	35	Engl. Fr. Germ. Russ.	2
Ann. Phys. (U. S. A.)	33	English	3
Endocrinology (U. S. A.)	33	English	6
* Geokhimiya (U. S. S. R.)	33	English Russian	4
J. Less-Common Metals (Netherlands)	32	English	5
J. Res. Natl. Bur. Std. (U. S. A.)	32	English	4
Naturwissenschaften (Germany)	32	none	9
Proc. Roy. Soc. (Ser. A.) (U. K.)	32	English	4
* Zavodsk. Lab. (U. S. S. R.)	32	Russian	3
Appl. Opt. (U. S. A.)	31	English	7
Atompraxis (Germany)	31	German	6
Physica (Netherlands)	31	English	6
Rev. Roumaine Phys. (Rumania)	31	English French	3
* Ukr. Fiz. Zh. (U. S. S. R.)	31	Russian	8
J. Clin. Endocrinol. and Metab. (U. S. A.)	30	English	2
J. Nucl. Med. (U. S. A.)	30	English	2

Titles of primary periodicals cited	Number of citations	Abstracts of articles published in the prim. per.	Number of abstracting journals having cited the periodical
Exptl. Cell. Res. (U. S. A.)	29	English	6
Japan J. Appl. Phys. (Japan)	29	English	6
J. Phys. Chem. (U. S. A.)	29	English	4
J. Phys. Chem. Solids (U. S. A.)	29	English	7
Proc. Natl. Acad. Sci. (U. S. A.)	28	none	6
Intern. J. Rad. Biol. (U. K.)	27	Engl. Fr. German	4
J. Nucl. Energy, Pt A - B (U. K.)	27	English	6
★ Med. Radiol. (U. S. S. R.)	27	English	5
★ Zh. Analit. Khim. (U. S. S. R.)	27	Russian	4
Acta Phys. Polon. (Poland)	26	English	7
Angew. Chem. (Germany)	26	German	8
Bull. Soc. belge Phys. (Belgium)	26	English	3
★ Geomagnetizm i Aeronomiya (U. S. S. R.)	26	English	5
Izv. Vysshikh Uchebn., Zaved. Fiz. (U. S. S. R.)	26	Russian	4
J. Sci. Intr. (U. K.)	26	English	6
Radioisotopes (Japan)	26	English	4
Biochemistry (U. S. A.)	25	English	4
Chem. -Ingr. Tech. (Germany)	25	Eng. Fr. German	5
Geochim. Cosmochim. Acta (U. K.)	25	English	3
Atomwirtschaft (Germany)	24	English	3
★ Kosmich. Issled (U. S. S. R.)	24	Russian	6
★ Vysokomolekul Soedin (U. S. S. R.)	24	none	4
Acta Chem. Scand. (Denmark)	23	English	4
Acta Endocrinol. (Denmark)	23	English	6
Helv. Phys. Acta (Switzerland)	23	English	7

Titles of primary periodicals cited	Number of citations	Abstracts of articles published in the prim. per.	Number of abstracting journals having cited the periodical
* Tr. Fiz. Inst. Akad. Nauk SSSR (U. S. S. R.)	23	**	1
Acta Phys. Austriaca (Austria)	22	Engl. Germ.	1
Am. J. Roentgenol. Rad. Ther. Nucl. Med. (U. S. A.)	22	English	3
Cancer Res. (U. S. A.)	22	English	6
Energia Nucl. (Italy)	22	English Fr. German	4
Inorg. Chem. (U. S. A.)	22	English	2
J. Am. Ceram. Soc. (U. S. A.)	22	English	4
Trans. Faraday Soc. (U. K.)	22	English	5
* Zh. Prikl. Khim. (U. S. S. R.)	22	Russian	4
Acta Phys. Acad. Sci. Hung. (Hungary)	21	English	3
Can. J. Chem. (Canada)	21	English	7
* Kristallografiya (U. S. S. R.)	21	Russian	6
Acta Cryst. (Denmark)	20	English	5
Radiation Botany (U. K.)	20	Engl. Fr. German	2
Radiobiol. Latina (Italy)	20	**	3
Tetrahedron Letters (U. K.)	20	none	3
Trans. Am. Geophys. Un. (U. S. A.)	20	none	3
AIAA J. (U. S. A.)	19	English	5
Arch. Exptl. Pathol. Pharmakol. (Germany)	19	English German	3
* Byul. Eksperim. Biol. i Med. (U. S. S. R.)	19	English	3
J. Opt. Soc. Am. (U. S. A.)	19	English	6
Am. J. Phys. (U. S. A.)	18	English	5
Brit. J. Appl. Phys. (U. K.)	18	English	6
Brit. J. Radiol. (U. K.)	18	English	2

Titles of primary periodicals cited	Number of citations	Abstracts of articles published in the prim. per.	Number of abstracting journals having cited the periodical
Izv. Akad. Nauk Kaz. SSR, Ser. Fiz. -Mat. Nauk (USSR)	18	**	3
J. Mol. Biol. (U. K.)	18	English	6
J. Org. Chem. (U. S. A.)	18	English	5
Kompleksn. Soedin, Urana Akad. Nauk SSSR (U. S. S. R.)	18	**	1
Mass. Inst. Techn. Res. Lab. Electron. Quart. Progr. Rep. (U. S. A.)	18	none	1
Minerva Nucl. (Italy)	18	English, Ital.	3
RCA Rev. (U. S. A.)	18	English	2
Sci. Sinica (China)	18	English	3
* Ukr. Khim. Zh. (U. S. S. R.)	18	**	3
Z. Angew. Phys. (Germany)	18	Engl. Germ.	4
Z. Anorg. Allgem. Chem. (East Germany)	18	Engl. Germ.	4
Compt. Rend. Acad. Bulgare Sci. (Bulgaria)	17	**	3
* Izv. Vysshikh Uchebn. Zavendenii Radiofiz. (U. S. S. R.)	17	Russian	5
Jaderna Energije (Czechoslovakia)	17	Russian	3
J. Biochem. (Japan)	17	**	4
J. Cell. Biol. (U. S. A.)	17	English	4
J. Clin. Invest. (U. S. A.)	17	English	6
Nucl. News (U. S. A.)	17	none	5
Z. Metallk. (Germany)	17	German	5
Anal. Biochem. (U. S. A.)	16	English	5
Anal. Chim. Acta (Netherlands)	16	Engl. Fr. Germ.	2
Atomkernenergie (Germany)	16	Engl. Germ.	4
Bull. Soc. Chim. France (France)	16	English	4

Titles of primary periodicals cited	Number of citations	Abstracts of articles published in the prim. Per.	Number of abstracting journals having cited the periodical
Compt. Rend. Soc. Biol. (France)	16	none	3
J. Atmospheric and Terrest. Phys. (U. S. A.)	16	English	3
J. Brit. Nucl. Energy Soc. (U. K.)	16	English	2
Lancet (U. K.)	16	English	3
Radiobiol. Radiotherap. (East Germany)	16	Engl. Fr. Germ. Span.	3
Acta Isotopica (Italy)	15	Engl. Fr. Germ. Ital.	3
Arg. Comis. Nac. Energ. Atom. Informe (Argentina)	15	★★	4
Biophysik (Germany)	15	Engl. Germ.	3
Chem. Ind. (U. K.)	15	none	2
Czech. J. Phys. (Czechoslovakia)	15	English	2
★ Izv. Akad. Nauk SSSR Met. i Gorn Delo (U. S. S. R.)	15	Russian	3
J. Inst. Metals (U. K.)	15	English	5
J. Pharmacol. Exp. Ther. (U. S. A.)	15	English	4
Kerntechnik (Germany)	15	Engl. Germ.	3
★ K'o Hsueh T'ung Pao (China)	15	★★	2
Mikrochim. Ichnoanal. Acta (Austria)	15	Engl. French German	3
Monatbh. Chem. (Austria)	15	Engl. Germ.	3
Planetary Space Sci. (U. K.)	15	English	1
Proc. Phys. Soc. (U. K.)	15	English	3
Talanta (U. K.)	15	Engl. Fr. Russian	4
★ Teplofiz. Vysokikh Temp. (U. S. S. R.)	15	Russian	5
Bull. Chem. Soc. Japan (Japan)	14	English	4

Titles of primary periodicals cited	Number of citations	Abstracts of articles published in the prim. per.	Number of abstracting journals having cited the periodical
Current Sci. (India)	14	none	5
J. Lab. Clin. Med. (U. S. A.)	14	English	6
J. Nucl. Sci. Technol. (Japan)	14	English	1
J. Spacecraft Rockets (U. S. A.)	14	**	2
Lietuvos Fiz. Rinkinys. Lietuvos TSR Mokslų Akad. (U. S. S. R.)	14	**	1
Nucl. Fusion (IAEA) (Austria)	14	Eng. Fr. Germ. Span. Russian	3
Phil. Mag. (U. K.)	14	English	2
Progr. Nuclear Energy, Ser. III (U. K.)	14	English	1
Radiol. Health Data (U. S. A.)	14	English	2
Rev. Med. Fis. (Mexico)	14	English	3
* Tsvetniya Met. (U. S. S. R.)	14	none	4
* Voенно - Med. Zh. (U. S. S. R.)	14	**	1
* Zh. Strukt. Khim. (U. S. S. R.)	14	English	3
Biochem. Z. -(Germany)	13	Engl. Germ.	4
Feder. Proc. (U. S. A.)	13	**	3
J. Nutr. (U. S. A.)	13	English	6
Nippon Kogyo Kaishi (Japan)	13	**	1
Nucl. Struct. Eng. (Netherlands)	13	English	1
* Radiotekhn. i Elektron. (U. S. S. R.)	13	Russian	6
Z. Physik. Chem. (East Germany)	13	Engl. Germ.	5
* Biokhimiya (U. S. S. R.)	12	English	6
Combustion (U. S. A.)	12	none	2
Vestn. Leningr. Un. Ser. Fiz. Khim. (U. S. S. R.)	12	**	1

Titles of primary periodicals cited	Number of citations	Abstracts of articles published in the prim. per.	Number of abstracting journals having cited the periodical
J. Gen. Microbiol. (U. K.)	12	English	5
J. Lipid. Res. (U. S. A.)	12	English	4
J. Polymer Sci. (Pt. A) (Pt. B)	12	English	2
Power Reactor Technol. (U. S. A.)	12	English	1
Proc. Roy. Soc. Med. (U. K.)	12	none	3
Rev. Chim. (Romania)	12	Fr. Russ.	4
* Vestn. Akad. Med. Nauk SSSR (U. S. S. R.)	12	none	1
Arch. Intern. Physiol. Biochem. (Belgium)	11	none	5
Coll. Czech. Chem. Commun. (Czechoslovakia)	11	English or Germ. Russ.	3
Cons. Akad. Yougosl. Bull. Sci. (Yugoslavia)	11	none	4
Isotopes Radiation Technol. (U. S. A.)	11	none	2
* Izv. Sibirsk. O. T. D. Akad. Nauk (SSSR), Ser. Khim. Nauk (U. S. S. R.)	11	Russian	2
J. Cellular Comp. Physiol. (U. S. A.)	11	English	4
J. Chim. Phys. (France)	11	Engl. Fr.	3
* Kinetika i Kataliz (U. S. S. R.)	11	English	4
Kogyo Kagaku Zasshi (Japan)	11	**	2
Metabolism, Clin. Exptl. (U. S. A.)	11	**	4
Neoplasma (Czechoslovakia)	11	**	3
Nukleonik (Germany)	11	Engl. Germ.	1
Powder Met. (U. K.)	11	English	3
Acta Met. (U. S. A.)	10	Engl. Fr. German	4
Anales Real Soc. Espan. Fis. Quim. (Spain)	10	**	3

Titles of primary periodicals cited	Number of citations	Abstracts of articles published in the prim. per.	Number of abstracting journals having cited the periodical
Ann. Phys. (France)	10	French	4
Bol. Junta Control Energia At. (Peru)	10	**	1
Bull. Astron. Inst. Czech. (Czechoslovakia)	10	Engl. Russ.	1
Bull. Soc. Intern. Chir. (Belgium)	10	none	3
Bunseki Kagaku (Japan)	10	English	2
Can. Med. Assoc. J. (Canada)	10	English	2
Cesk. Casopis Fys. (Czechoslovakia)	10	**	3
Dopovidi Akad. Nauk Ukrafn. SSR (U. S. S. R.)	10	none	3
Energia Nucl. (Spain)	10	none	2
Föderation Europ. Gewässer-schutz. Informationsblatt (Switzerland)	10	**	1
Indian J. Pure Appl. Phys. (India)	10	English	2
Int. J. Electron. (U. K.)	10	English	4
J. Endocrinol. (U. K.)	10	none	4
J. Radiol. Electrol. Med. Nucl. (France)	10	French	2
Magy. Tud. Akad. Közp. Fiz. Kut. Int. Közl. (Hungary)	10	Engl. Hung.	1
Rept. Ionosphere Space Res. (Japan)	10	**	1
* Sov. Geol. (U. S. S. R.)	10	**	2
Virology (U. S. A.)	10	English	4
Z. Angew. Math. Phys. (Switzerland)	10	Engl. Fr. German	5
Zellforschung (Germany)	10	English	2
erospace Med. (U. S. A.)	9	English	4

Titles of primary periodicals cited	Number of citations	Abstracts of articles published in the prim. per.	Number Of abstracting Journals having cited the periodical
Australian J. Chem. (Australia)	9	English	4
Austral. J. Exp. Biol. Med. Sci. (Australia)	9	English	4
Bull. Soc. Franç. Elect. (France)	9	French	1
Denki Shikensko Iho (Japan)	9	English	1
★ Hua Hseuh Tung Pao (China)	9	**	2
IEEE Trans. Antennas Microwaves, Electron. Devices (U. S. A.)	9	English	5
★ Izv. Akad. Nauk SSSR. Ser. Geologichesk. (U. S. S. R.)	9	Russian	3
★ Izv. Akad. Nauk Uz. SSR, Ser. Fiz. Mat. Nauk (U. S. S. R.)	9	**	2
J. Bacteriol. (U. S. A.)	9	English	5
J. Radiation Res. (Japan)	9	**	1
Monatsber. Deut. Akad. Wiss. (East Germany)	9	none	4
Neue Hütte (East Germany)	9	German	3
Nippon Kinzoku Gakkaishi (Japan)	9	**	4
Nippon Nogeikagaku Kaishi (Japan)	9	**	3
Plant Physiol. (U. S. A.)	9	English	3
Pure and Appl. Chem. (U. K.)	9	none	3
Radiol. Austriaca (Austria)	9	English Fr. German	3
Rev. Franç. Etudes Clin. Biol. (France)	9	Engl. Fr.	2
S. Afr. Industr. Chemist. (South Africa)	9	none	2

Titles of primary periodicals cited	Number of citations	Abstracts of articles published in the prim. per.	Number of abstracting journals having cited the periodical
Schweiz. Med. Wochschr. (Switzerland)	9	none	3
Sci. Am. (U. S. A.)	9	none	2
Spectrochim. Acta (U. K.)	9	English	3
* Zh. Vychislitel Mat. i Mat. Fiz. (U. S. S. R.)	9	**	3

Sub-total I = 272 = 13.8 %	11,083 74.7 %		In English = 188 " French = 5 " German = 5 " Russian = 15 none = 30 not available for checking = 29
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II. Others (non core journals)

8 citations from	27 periodicals	216	
7 " " " "	42 " " " "	294	
6 " " " "	56 " " " "	336	
5 " " " "	59 " " " "	295	
4 " " " "	111 " " " "	444	not checked
3 " " " "	181 " " " "	543	
2 " " " "	352 " " " "	704	
1 citation "	878 " " " "	878	

Sub-total II = 1,706 = 86.2 %	3,710 25.3 %		
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Grand-total = 1,978 = 100 %	14,793 100 %		
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(*) Translated cover to cover.

(**) Not available in EURATOM nor in the Royal Library, Brussels.

TABLE III

PERIODICALS ABSTRACTED IN 18 ABSTRACTING

JOURNALS 1965 (1st quarter)

GEOGRAPHICAL DISTRIBUTION OF THE "CORE JOURNALS"

Publication's countries	Number of primary periodicals (core journals) scanned	Articles abstracted	
		Number	In % of total
U. S. A.	78	4,687	42.3 %
Canada	3	68	0.6 %
<u>Community Countries</u>			
Belgium	4)	86)	
France	9)	306)	
Germany	17) 44	462)	18.1 %
Italy	6)	316)	
Netherlands	8)	833)	
<u>Western Europe</u>			
Austria	5)	75)	
Denmark	3)	66)	
Spain	2)	20)	
Sweden	1) 49	107)	12.3 %
Switzerland	5)	104)	
U. K.	33)	989)	
U. S. S. R.	48	1,881	17.0 %
<u>Eastern Europe</u>			
Bulgaria	1)	17)	
Czechoslovakia	7)	143)	
East Germany	8)	218)	
Hungary	2) 23	31)	5.0 %
Jugoslavia	1)	11)	
Poland	2)	94)	
Rumania	2)	43)	
<u>Others</u>			
Argentina	1)	15)	
Australia	2)	18)	
China	4)	80)	
India	2)	24)	
Japan	15) 27	356)	4.7 %
Mexico	1)	14)	
Peru	1)	10)	
South Africa	1)	9)	
Total 29	272	11,083	100 %

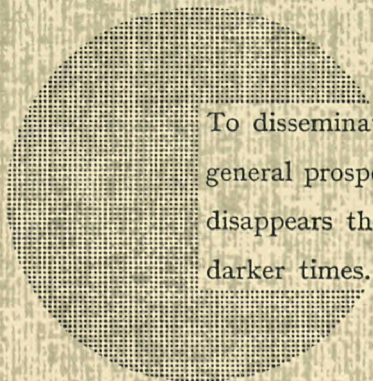
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To disseminate knowledge is to disseminate prosperity — I mean general prosperity and not individual riches — and with prosperity disappears the greater part of the evil which is our heritage from darker times.

Alfred Nobel

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