



Risø publication activities in 1999. Risøs publikationsvirksomhed i 1999

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Risø Publication Activities in 1999

Risøs publikationsvirksomhed i 1999

Edited by Solvejg Bennov

Abstract

The report contains a list of references to the scientific and technical journal articles, books, reports, lectures published in full text, and to publications for a broader readership authored by researchers at Risø National Laboratory and published in 1999. If the publication mentioned in the reference is electronically available the link to the web-address is added. The references are organised according to the programme areas of Risø.

The text is introduced by total number of publications, distribution of types of publications, number of citations to the international scientific journal articles, institutions with which Risø has published the largest number of articles, and journals in which Risø has published most articles. The data are derived from Risø's in-house Publications Database and from the Risø Institutional Citation Report database produced by the Institute for Scientific Information.

Rapporten er en referenceliste til de videnskabelige og tekniske tidsskriftartikler, bøger, rapporter, publicerede konferencebidrag og publikationer af formidlende art, som er skrevet af Risøs forskere og udgivet i 1999. For publikationer, der er tilgængelige i elektronisk form, er web-adresse angivet. Referencelisten er sorteret efter Risøs programområder.

Rapporten indledes med oplysninger om samlet antal publikationer, fordeling efter publikationstyper, antal citationer til de internationale videnskabelige tidsskriftartikler, institutioner Risø publicerer flest tidsskriftartikler sammen med, samt i hvilke tidsskrifter Risø publicerer flest artikler. Oplysningerne er hentet fra Risøs egen Publikationsdatabase og fra Risø Institutional Citation Report produceret af Institute for Scientific Information.

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Publishing activities



Risø's research results in comprehensive publishing activity through articles in international journals, research reports and other publications. This publication activity forms the basis for the dissemination of knowledge and transfer of technology to industry and for the exchange of knowledge with Danish and international research institutions.

A list of all Risø publications in 1999 is published in the report Risø-R-1154. The figures below are based on Risø's total publishing activity, i.e. books, reports and articles in Danish and international journals alike, as well as published and unpublished conference contributions.

Figure 1. Publications and lectures 1999

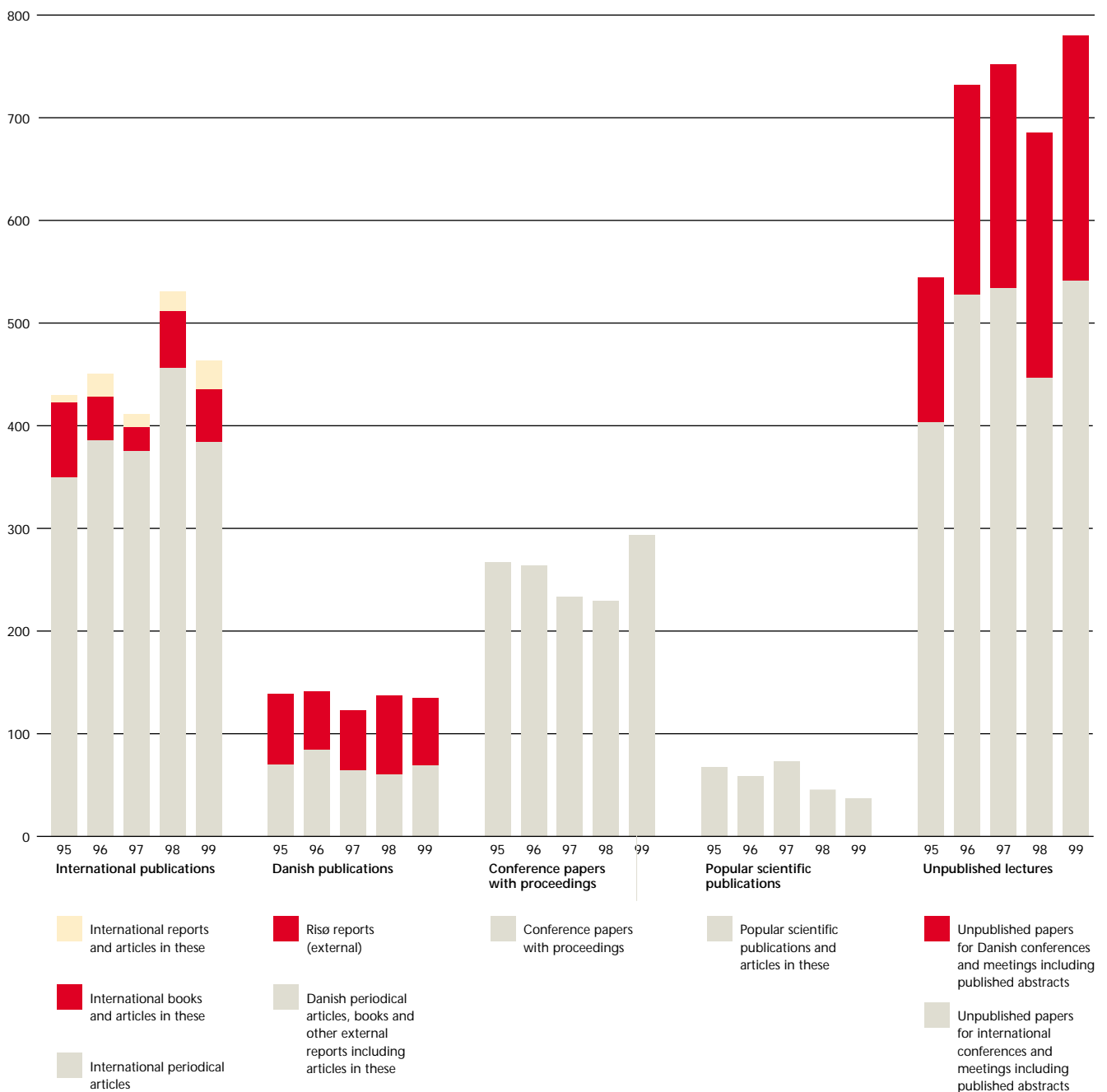
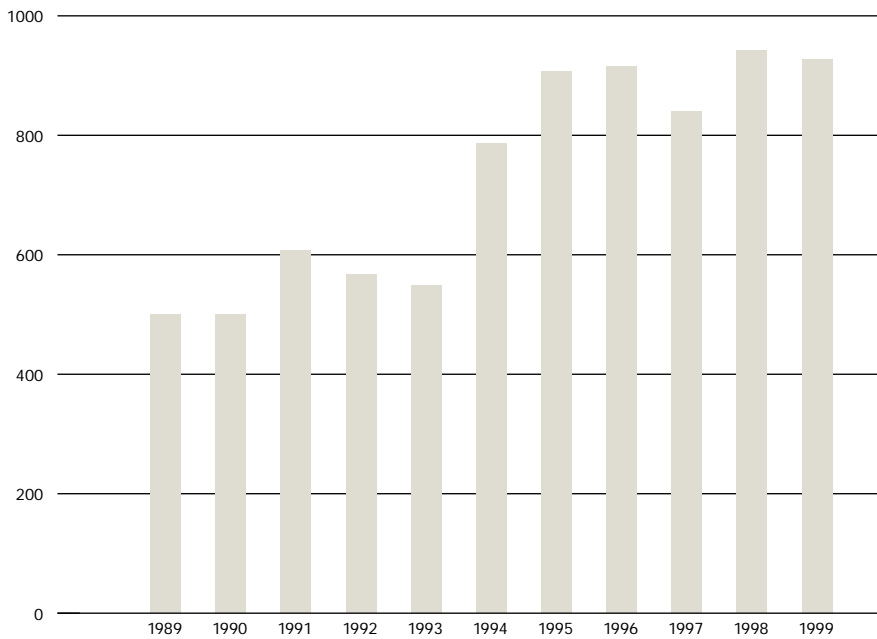


Figure 2. Annual publication activity (totals) 1989-1999



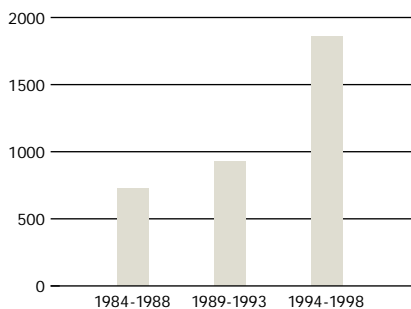
Risø's articles in ISI Source Journals in the period 1984-1998

The Institute for Scientific Information (ISI) indexes more than 4000 international journals in the field of the natural and technical sciences, and approx. 3000 journals in the humanities and social sciences (ISI Source Journals). The majority of Risø's international articles are

published in ISI Source Journals. For its citation analyses, Risø uses an ISI Institutional Citation Report (ICR), which is a database of references to the articles in ISI's Source Journals, in which Risø is given as the author's address. The database includes information on the number

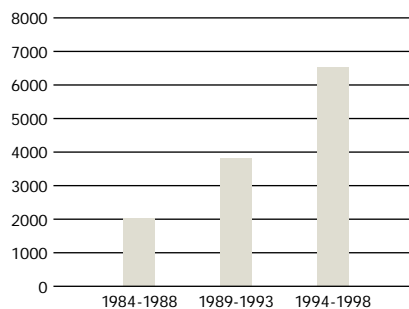
of times the individual articles have been cited. Journal Citation Reports (JCR) are also used. These are an evaluation tool for scientific journals and include information on the Impact Factor of a journal.

Figure 3. Articles in ISI Source Journals



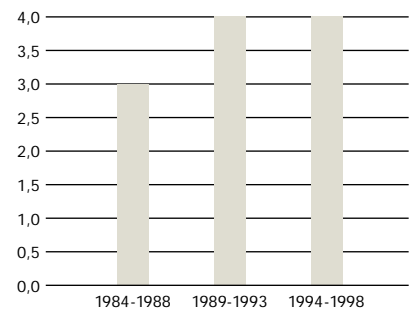
Risø's articles in ISI Source Journals in the period 1984-1998, specified in five-year periods.

Figure 4. Citations



Number of citations from Risø's articles in ISI Source Journals specified for the same five-year periods within which the articles were published.

Figure 5. Citations per article



Average number of citations per Risø article specified for the same five-year periods within which the articles were published.



Figure 6. The 25 institutions with which Risø has jointly published the most articles in the period 1994–1998

The following are the 25 institutions with which Risø has jointly published the most articles in the period 1994–1998, based on ISI's Institutional Citation Report for Risø.

Institutions	Articles
Technical University of Denmark	108
University of Copenhagen	75
Ford Motor Co.	57
Russian Academy of Science	43
University of Oxford	40
KFA Jülich GmbH	39
University of Minnesota	36
Danish National Environ. Research Inst.	31
Aarhus University	28
Weizmann Institute of Science	28
The Royal Veterinary & Agricultural Univ.	26
AT&T Bell Laboratories	25
ETH Zurich	24
Rutherford Appleton Laboratory	23
Inst Max von Laue Paul Langevin	22
University of Hamburg	22
Oak Ridge National Laboratory	20
Hahn Meitner Inst. Kernforsch.	19
Niels Bohr Institute	18
Brookhaven National Laboratory	17
DESY	17
Swedish University of Agri. Science	17
University of Toronto	17
Chalmers University of Technology	16
European Synchrotron Radiation Facility	16

Figure 7. The 25 ISI Source Journals in which Risø has published the most articles, within the period 1996–1997.

Shows the 25 ISI journals in which Risø has published the most articles in the year 1996 and 1997 and gives the number of articles in this period. The ISI impact factor is taken from the ISI Journal Citation Reports 1998, where it is obtained by dividing the number of citations in a given year (1998) by the number of articles published in the two preceding years (1996 + 1997). The Citations column indicates how many times Risø's articles from 1996 + 1997 were cited in 1998. Thus, Risø's impact factor is obtained in the same way as ISI's own method of calculation of Journal Impact Factor. Since the ISI calculation does not include articles in the form of editorials, letters, news items and meeting abstracts, these types of articles are not included for Risø articles either.

Journal	No. of articles, 1996-97	Citations in 1998	Risø Impact	ISI Impact
Physical Review B	29	194	6.7	2.8
Physical Review Letter	27	81	3.0	6.0
Physica B	27	38	1.4	0.6
J Nuclear Materials	16	26	1.6	1.2
J Physical Chemistry	16	79	4.9	4.2
Radiation Measurements	14	28	2.0	0.2
Macromolecules	13	24	1.8	3.4
J Physics-Condensed Matter	12	34	2.8	1.6
J Applied Physics	10	13	1.3	1.7
Langmuir	10	34	3.4	2.8
Physical Review E	10	13	1.3	2.1
Europhysics Letters	10	32	3.2	2.2
J Applied Crystallog.	9	11	1.2	1.6
Acta Metallurgica Materialia	9	9	1.0	1.8
Physica C	8	36	4.5	1.1
Materials Sci. Forum A	8	14	1.8	0.7
J Physical Chemistry A	8	12	1.5	2.0
SCI TOTAL E	8	17	2.1	1.2
SCR MATER	8	8	1.0	1.0
ACT CHEM SC	8	17	2.1	1.3
J OPT SOC B	7	5	0.7	1.9
Surface Science	7	8	1.1	2.2
Int J Chem. Kinetics	7	8	1.1	1.2
Plant Soil	7	9	1.3	1.2
Solid State Ionics	7	8	1.1	1.1

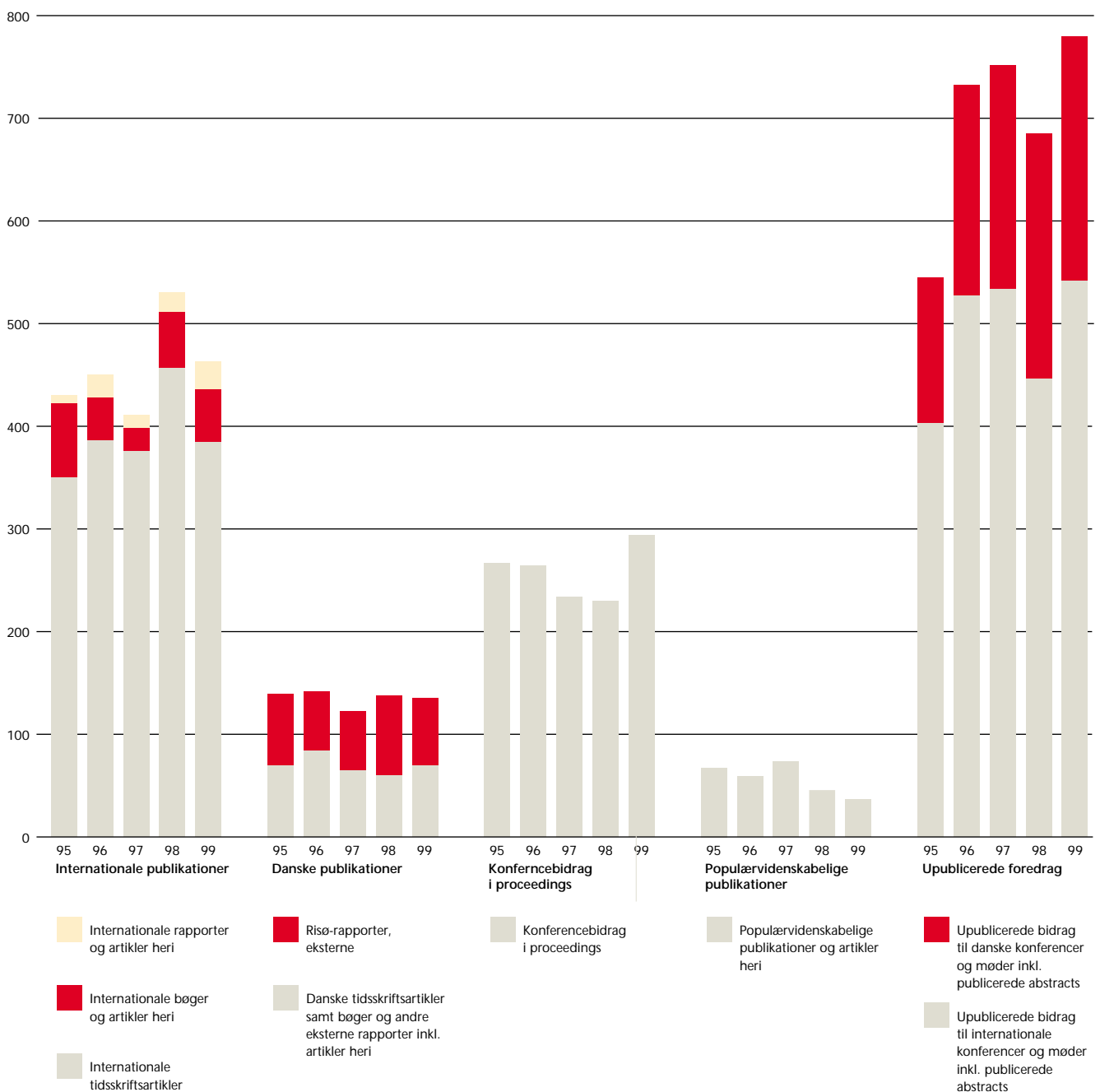
Videnskabelige publikationer



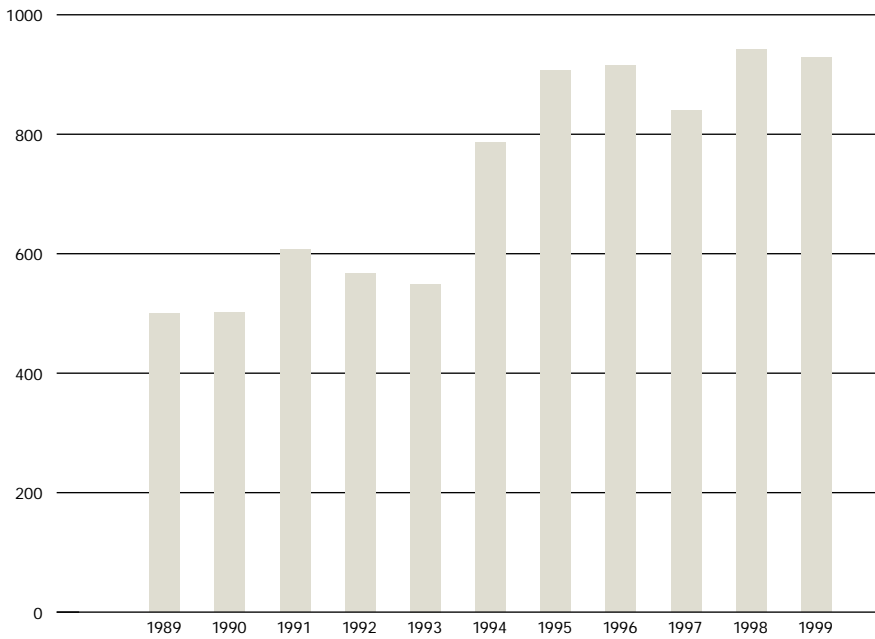
Risøs forskning resulterer i en omfattende publikationsvirksomhed gennem artikler i internationale tidsskrifter, forskningsrapporter og andre publikationer. Denne publikationsvirksomhed danner grundlaget for overførsel af viden og teknologi til erhvervslivet og for udveksling af viden med danske og internationale forskningsinstitutioner.

En liste over alle Risøs publikationer i 99 udgives i rapporten Risø-R-1154. Nedenstående figurer er baseret på Risøs samlede publikationsvirksomhed dvs. bøger, rapporter og artikler både i danske og internationale tidsskrifter samt publicerede og upublicerede konferencebidrag.

Figur 1. Publikationer og foredrag 1999



Figur 2. Publikationsvirksomhed (totaler) 1989-1999



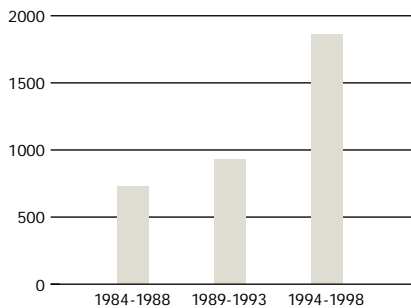
Risø artikler i ISIs Source Journals i perioden 1984 -1998

Institute for Scientific Information (ISI) indekserer mere end 4000 internationale tidsskrifter inden for det naturvidenskabelige og teknisk-videnskabelige område og ca. 3000 tidsskrifter inden for humaniora og samfundsvidenskab (ISI Source Journals). Langt de fleste af Risøs internatio-

nale artikler er udgivet i ISI Source Journals. Til sine bibliometriske analyser anvender Risø en ISI Institutional Citation Report (ICR), som er en database med referencer til de artikler i ISI Source Journals, hvor "Risø" er anført som forfatteradresse. I databasen er der bl.a. oplysninger om,

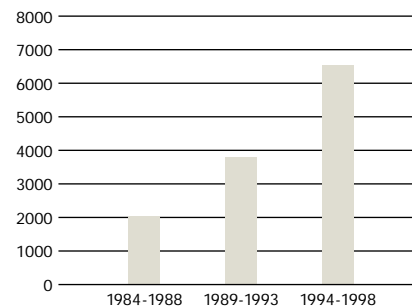
hvor mange gange de enkelte artikler er citeret. Desuden anvendes Journal Citation Reports (JCR), som er et værktøj til evaluering af videnskabelige tidsskrifter, hvor der blandt andet oplyses et tidsskrifts Impact Factor.

Figur 3. Artikler i ISI Source Journals



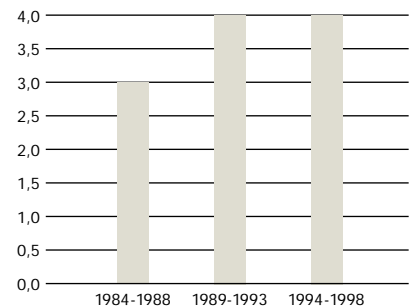
Risøs artikler i ISI Source Journals i 1984-1998 angivet i 5-års perioder.

Figur 4. Citationer



Antal citationer af Risøs artikler i ISI Source Journals givet inden for samme 5-års periode som artiklerne er publiceret i.

Figur 5. Citationer pr. artikel



Gennemsnitligt antal citationer pr. Risø-artikel givet inden for samme 5-års periode som artiklerne er publiceret i.



Figur 6. De 25 institutioner, som Risø har publiceret mest sammen med i perioden 1994-1998

Baseret på ISIs Institutional Citation report for Risø er vist de 25 institutioner, som Risø har publiceret flest artikler sammen med i perioden 1994-1998.

Institutioner	Artikler
Danmarks Tekniske Universitet	108
Københavns Universitet	75
Ford Motor Company	57
Russian Academy of Science	43
University of Oxford	40
KFA Julich GmbH	39
University of Minnesota	36
Danmarks Miljøundersøgelser	31
Aarhus Universitet	28
Weizmann Institute of Science	28
Den Kgl. Veterinær- og Landbohøjskole	26
AT&T Bell Labs	25
ETH Zurich	24
Rutherford Appleton Lab.	23
Inst Max von Laue Paul Langevin	22
University of Hamburg	22
Oak Ridge National Laboratory	20
Hahn Meitner Kernforsch. Inst	19
Niels Bohr Institutet	18
Brookhaven National Laboratory	17
DESY	17
Swedish University of Agr. Science	17
University of Toronto	17
Chalmers University of Technology	16
European Synch. Radiation Facilities	16

Figur 7. De 25 ISI Source Journals, hvori Risø har publiceret flest artikler inden for perioden 1996-1997.

Viser de 25 ISI-tidsskrifter, hvori Risø har publiceret flest artikler i årene 1996 og 1997 og oplyser antal artikler i denne periode. ISI impact factor er taget fra ISIs Journal Citation Reports 1998, hvor den er beregnet ved at dividere antal citationer i et givent år (1998) med antal artikler publiceret i de 2 foregående år (1996 + 1997). Kolonnen Citationer angiver hvor mange gange Risøs artikler fra 1996 + 1997 er citeret i 1998. Risø Impact factor er så beregnet på samme måde som ISIs egen udregningsmetode for Journal Impact Factor. Da ISIs udregning ikke medtager artikler af typen editorials, letters, news items og meeting abstracts, er denne type artikler heller ikke medtaget for Risø artikler.

Tidsskriftets titel	Artikler i 1996-97	Citationer i 1998	Risø Impact	ISI Impact
PHYS REV B	29	194	6,7	2,8
PHYS REV L	27	81	3,0	6,0
PHYSICA B	27	38	1,4	0,6
J NUCL MAT	16	26	1,6	1,2
J PHYS CHEM	16	79	4,9	4,2
RADIAT MEAS	14	28	2,0	0,2
MACROMOLEC	13	24	1,8	3,4
J PHYS-COND	12	34	2,8	1,6
J APPL PHYS	10	13	1,3	1,7
LANGMUIR	10	34	3,4	2,8
PHYS REV E	10	13	1,3	2,1
EUROPH LETT	10	32	3,2	2,2
J APPL CRYST	9	11	1,2	1,6
ACT MATER	9	9	1,0	1,8
PHYSICA C	8	36	4,5	1,1
MAT SCI E A	8	14	1,8	0,7
J PHYS CH A	8	12	1,5	2,0
SCI TOTAL E	8	17	2,1	1,2
SCR MATER	8	8	1,0	1,0
ACT CHEM SC	8	17	2,1	1,3
J OPT SOC B	7	5	0,7	1,9
SURF SCI	7	8	1,1	2,2
INT J CH K	7	8	1,1	1,2
PLANT SOIL	7	9	1,3	1,2
SOL ST ION	7	8	1,1	1,1

- Andersen, L.G.; Poulsen, H.F.; Frello, T.; Andersen, N.H.; Zimmermann, M. von, Cooling behavior of BSCCO/Ag tapes. *IEEE Trans. Appl. Superconduct.* (1999) v. 9 p. 2758-2761
- Andersen, S.I. (ed.), Svinghjul for energilagring. Svinghjul 3. Slutrapport, fase 1. (Forskningscenter Risø. Afdelingen for Materialeforskning, Roskilde, 1999) vp.
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**Industrial materials/
Industrielle materialer**

**Scientific and Technical
Publications and Lectures/
Videnskabelige og tekniske
publikationer og foredrag**

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