



Risø publication activities in 1998. Risøs publikationsvirksomhed i 1998

Bennov, S.

Publication date:
1999

Document Version
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

Citation (APA):
Bennov, S. (Ed.) (1999). *Risø publication activities in 1998. Risøs publikationsvirksomhed i 1998*. Denmark. Forskningscenter Risoe. Risoe-R No. 1097(EN,DA)

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Risø Publication Activities in 1998

Risøs publikationsvirksomhed i 1998

Edited by Solvejg Bennov

**Risø National Laboratory, Roskilde, Denmark
April 1999**

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 1998. 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 1998. 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.

ISBN 87-550-2504-8
ISBN 87-550-2505-6 (Internet)
ISSN 0106-2840
ISSN 1397-8993

Information Service Department, Risø, 1999

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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

technology to industry and for the exchange of knowledge with Danish and international research institutions. A list of all Risø publications in 1998 is published in the report Risø-R-1097.

Figure 1. Risø's total annual publication activities in the period 1989–1998.

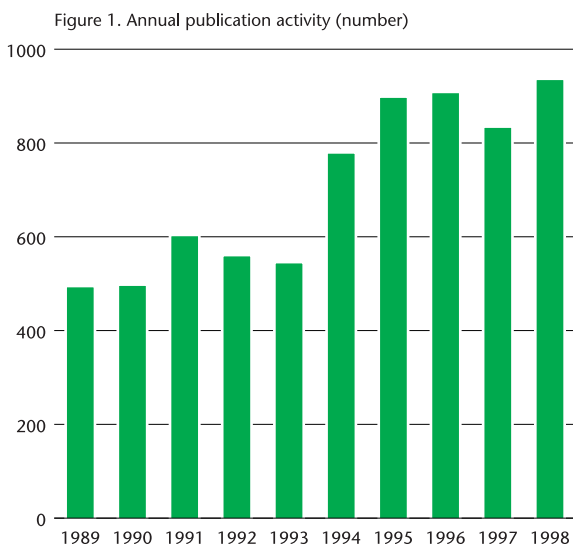
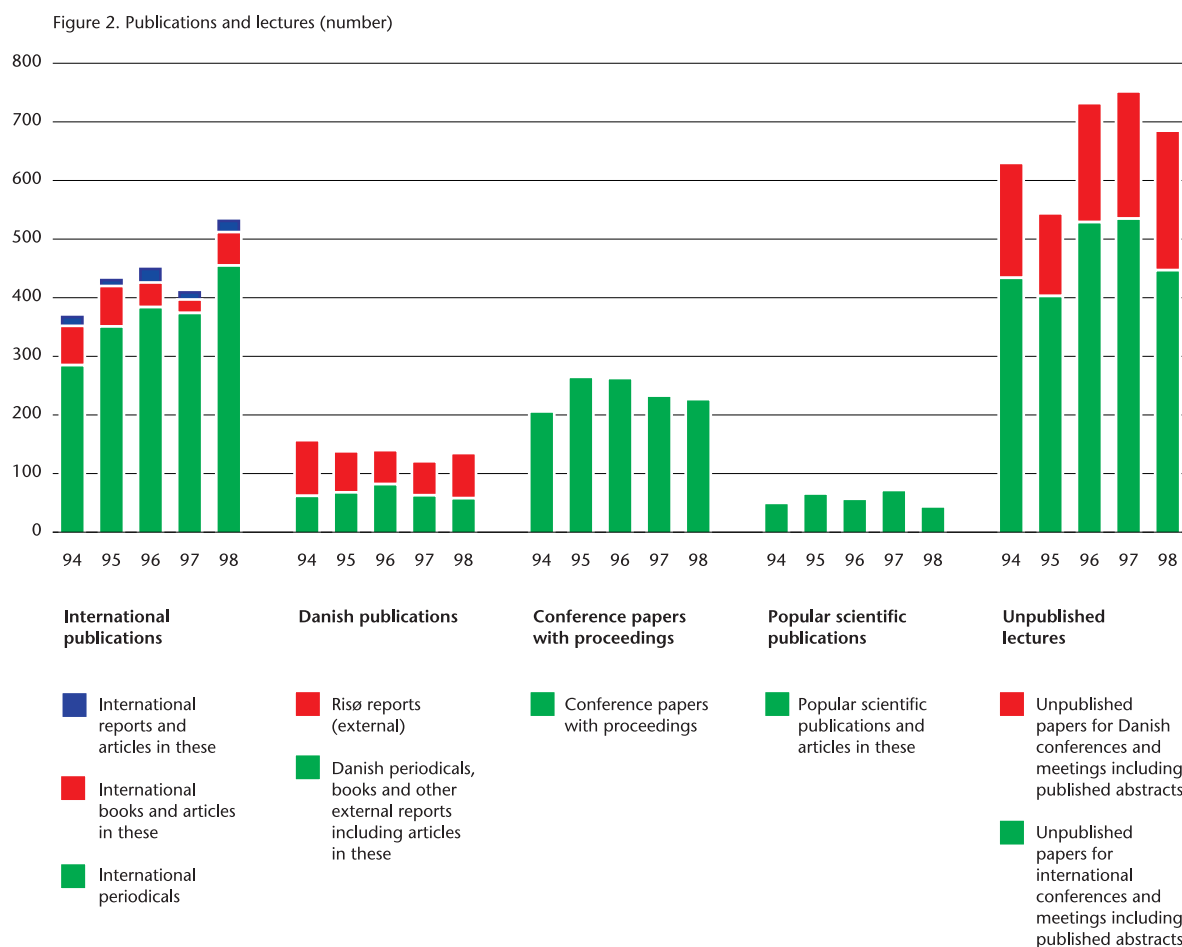


Figure 2. Number and distribution of Risø's publications in the period 1994–1998 and number of unpublished lectures in the same period.



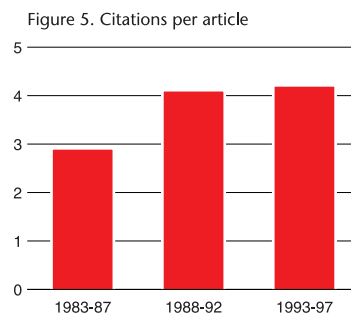
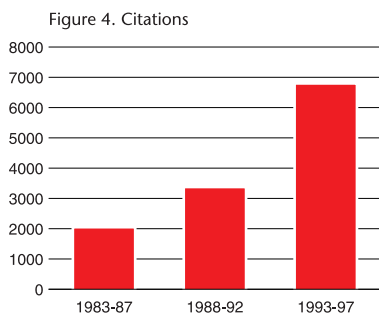
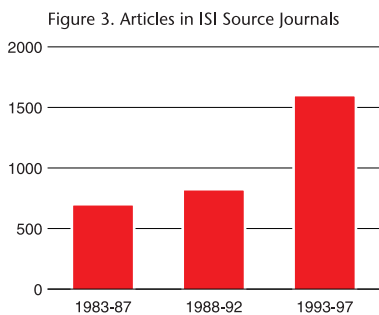


Figure 3. Risø's articles in ISI Source Journals in the period 1983–1997, specified in five-year periods.

Figure 4. 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. Average number of citations per Risø article specified for the same five-year periods within which the articles were published.

Risø's articles in ISI Source Journals in the period 1983-1997

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). ISI publishes several different products based on Source Journals, including the Science Citation Index, which is used in connection with citation analyses. Risø subscribes to ISI's 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 and the expected

number of citations of articles. Comparison of one five-year period with the preceding five-year period shows that both the number of publications and the number of citations is increasing (Figures 3 and 4). The database also makes it possible to analyse Risø's publication patterns, i.e. which journals publish most Risø articles. Figure 6 shows the 25 journals in which Risø has published most articles within the last five-year period 1993–1997. The database also makes it possible to illustrate Risø's collaboration with other research institutions. Figure 7 shows the 25 institutions with which Risø has jointly published most articles in the period 1993–1997.

Figure 6. The 25 ISI Source Journals in which Risø has published most, within the period 1993–1997.

Journal	No. of articles	No. of citations	Citations /article
Physical Review B	54	249	4.61
J Physical Chemistry	48	411	8.56
Physical Review Letter	48	534	11.13
Macromolecules	37	614	16.59
Physica B	36	100	2.78
J Physics-Condensed Matter	34	153	4.50
J Nuclear Materials	32	125	3.91
Chemical Physics Letters	31	293	9.45
Physica C	26	86	3.31
Radiation Measurements	26	98	3.77
Europhysics Letters	20	88	4.40
Radiation Phys Chem	20	18	0.90
J Applied Physics	19	31	1.63
Radiation Protec Dos	17	42	2.47
J Magnetism Magnetic Materials	15	35	2.33
Materials Sci. Forum	15	19	1.27
Surface Science	15	31	2.07
Acta Metallurgica Materialia	14	68	4.86
Hereditas	14	46	3.29
Langmuir	14	65	4.64
Physical Review E	14	43	3.07
Plant Soil	14	34	2.43
Solid State Ionics	14	35	2.50
Int J Chem. Kinetics	13	109	8.38
J Applied Crystallog.	13	65	5.00

Figure 7. The 25 institutions with which Risø has jointly published the most articles in the period 1993–1997. (ISI Source Journals).

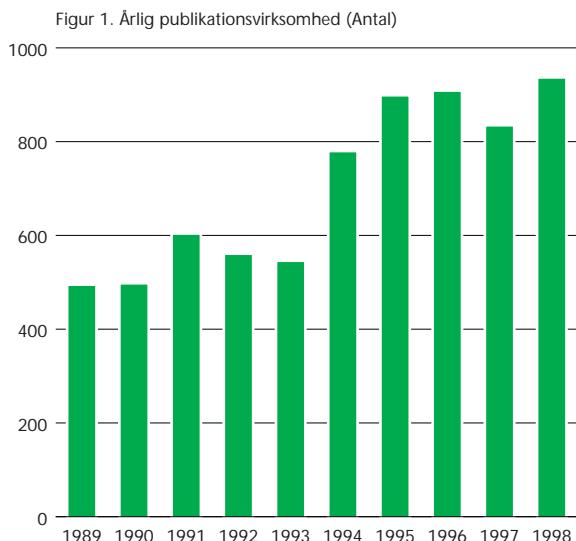
Institutions	No. of articles
Technical University of Denmark	100
University of Copenhagen	67
Ford Motor Co.	54
Russian Academy of Science	39
KFA Jülich GmbH	33
University of Oxford	33
Danish National Environmental Research Inst.	31
University of Minnesota	30
The Royal Veterinary & Agricultural University	28
Aarhus University	27
Oak Ridge National Laboratory	27
Weizmann Institute of Science	27
AT&T Bell Labs	24
Rutherford Appleton Laboratory	18
Brookhaven National Laboratory	16
ETH Zurich	16
Inst Max von Laue Paul Langevin	16
Swedish University of Agri. Science	16
European Synchrotron Radiation Facility	15
University of Hamburg	15
Hahn Meitner Inst. Kernforsch Berlin	14
University of Toronto	14
CEA	13
Chalmers University of Technology	13
DESY	13

Publikationsvirksomhed

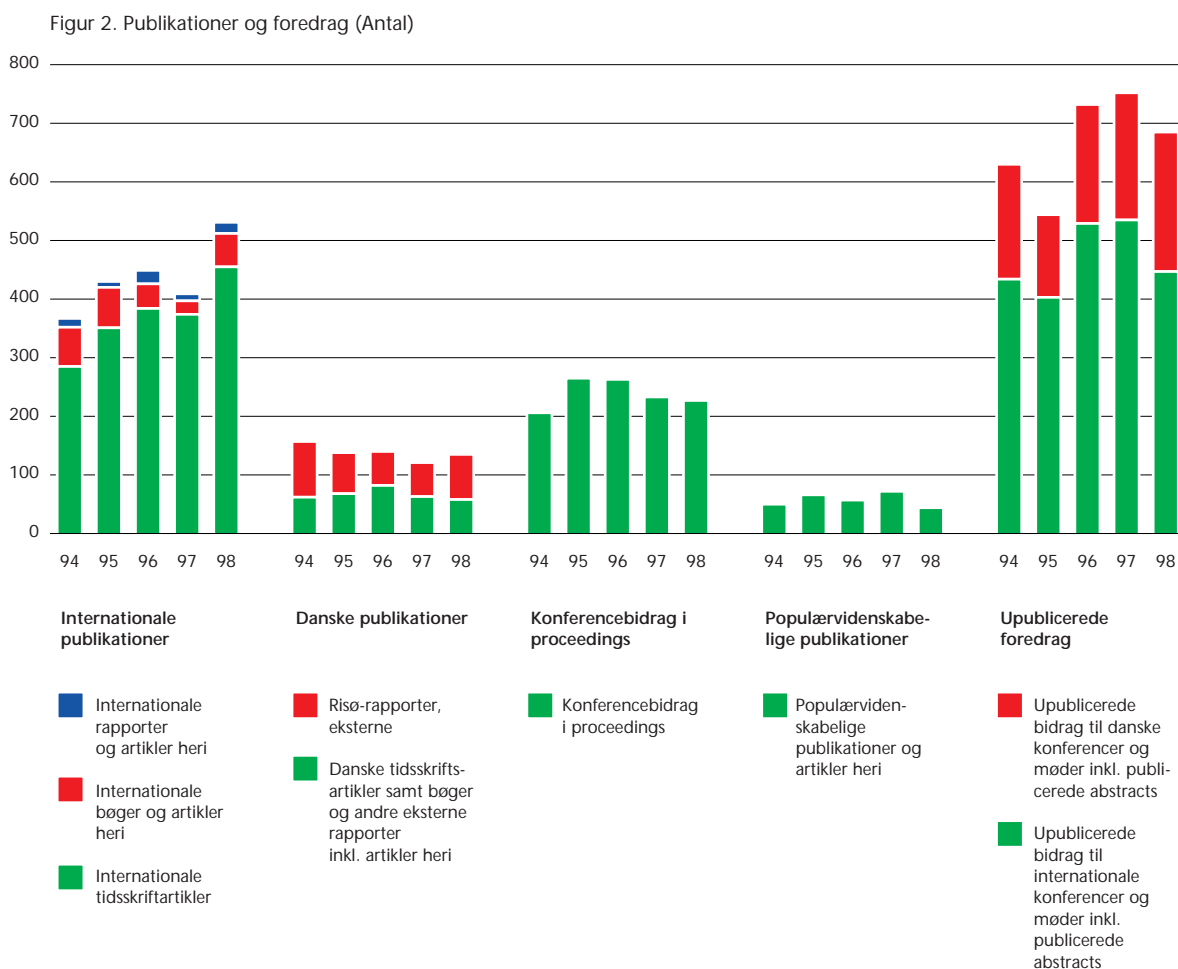
Risøs forskning resulterer i en omfattende publikationsvirksomhed gennem artikler i internationale tidsskrifter, forskningsrapporter og andre publikationer. Denne publikationsvirksomhed danner grundlaget for overførsel af

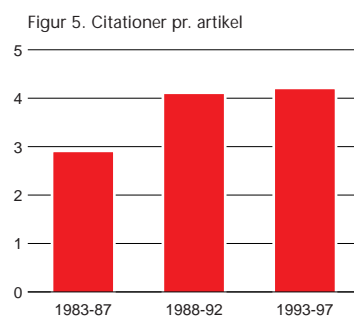
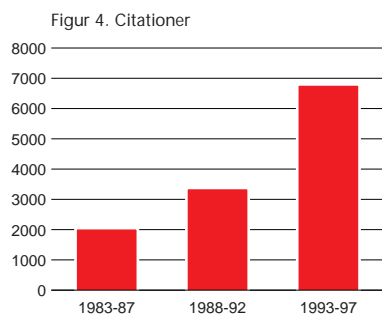
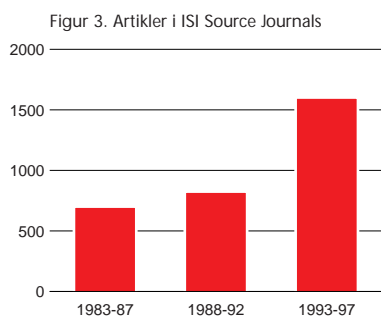
viden og teknologi til erhvervslivet og for udveksling af viden med danske og internationale forskningsinstitutioner. En liste over alle Risøs publikationer i 1998 udgives i rapporten Risø-R-1097.

Figur 1. Risøs samlede, årlige publikationsvirksomhed i perioden 1989-98.



Figur 2. Mængden og fordelingen af publikationer fra Risø i perioden 1994-1998 samt antal upublicerede foredrag i samme periode.





Figur 3. Risøs artikler i ISI Source Journals i 1983-1997 angivet i 5-års perioder.

Figur 4. Antal citationer af Risøs artikler i ISI Source Journals givet inden for samme 5-års periode som artiklerne er publiceret i.

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

Risøs artikler i ISIs Source Journals i perioden 1983-1997

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). ISI udgiver flere forskellige produkter baseret på Source Journals, blandt andet Science Citation Index, som benyttes i forbindelse med citationsanalyser. Risø abonnerer på ISIs 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 blandt andet oplysninger om, hvor mange gange de enkelte artikler er citeret

og hvor mange gange artiklerne forventes at være citeret. En sammenligning af femårsperioder viser, at både antallet af publikationer og antallet af citationer er stigende (figur 3 og figur 4). Databasen giver endvidere mulighed for at analysere Risøs publikationsmønstre, dvs. hvilke tidsskrifter, der fortrinsvis publiceres i. Figur 6 viser de 25 tidsskrifter, som Risø har publiceret mest i, inden for den sidste 5-årsperiode 1993-1997. Databasen giver også mulighed for at belyse Risøs samarbejde med andre forskningsinstitutioner. I figur 7 er vist de 25 institutioner, som Risø i perioden 1993-1997 har publiceret flest artikler sammen med.

Figur 6. De 25 ISI Source Journals, som Risø har publiceret mest i, inden for perioden 1993-1997.

Tidsskrift	Antal artikler	Antal citationer	Citationer /artikel
Physical Review B	54	249	4,61
J Physical Chemistry	48	411	8,56
Physical Review Letter	48	534	11,13
Macromolecules	37	614	16,59
Physica B	36	100	2,78
J Physics-Condensed Matter	34	153	4,50
J Nuclear Materials	32	125	3,91
Chemical Physics Letters	31	293	9,45
Physica C	26	86	3,31
Radiation Measurem	26	98	3,77
Europhysics Letters	20	88	4,40
Radiation Phys Chem	20	18	0,90
J Applied Physics	19	31	1,63
Radiation Protec Dos	17	42	2,47
J Magnetism Magnetic Materials	15	35	2,33
Materials Sci. Forum	15	19	1,27
Surface Science	15	31	2,07
Acta Metallurgica Materialia	14	68	4,86
Hereditas	14	46	3,29
Langmuir	14	65	4,64
Physical Review E	14	43	3,07
Plant Soil	14	34	2,43
Solid State Ionics	14	35	2,50
Int J Chem. Kinetics	13	109	8,38
J Applied Crystallog.	13	65	5,00

Figur 7. De 25 institutioner, som Risø har publiceret mest sammen med i perioden 1993-1997 (ISI Source Journals).

Institutioner der publiceres mest sammen med	Antal artikler
Danmarks Tekniske Universitet	100
Københavns Universitet	67
Ford Motor Co.	54
Russian Academy of Science	39
KFA Julich GmbH	33
University of Oxford	33
Danmarks Miljøundersøgelser	31
University of Minnesota	30
Den Kgl. Veterinære- og Landbohøjskole	28
Århus Universitet	27
Oak Ridge National Laboratory	27
Weizmann Institute of Science	27
AT&T Bell Labs	24
Rutherford Appleton Lab.	18
Brookhaven National Laboratory	16
ETH Zurich	16
Inst Max von Laue Paul Langevin	16
Swedish University of Agri. Science	16
European Synchrotron Radiation Fac.	15
University of Hamburg	15
Hahn Meitner Inst. Kernforsch Berlin	14
University of Toronto	14
CEA	13
Chalmers University of Technology	13
DESY	13

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www.risoe.dk/rispubl/Risnyt/risnyt.htm

Title and authors

Risø Publication Activities in 1998

Edited by Solvejg Bennov

ISBN

ISSN

87-550-2504-8

0106-2840

87-550-2505-6 (Internet)

1397-8993

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April 1999

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