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Publisering og sitering innen kjemisk forskning

Sammenligning mellom Norge og andre land, basert på *National Science Indicators On Diskette (NSIOD)*

Oppdrag fra området for Naturvitenskap og teknologi, Norges forskningsråd

Innholdsfortegnelse

Innledning	4
Perioden 1981-95 samlet	6
Utviklingen over tid	13
Vedlegg 1: Data og analysetabeller i NSIOD	21
Vedlegg 2: Fagfelter og tidsskriftgrunnlag i NSIOD	24
Vedlegg 3: Tidsskriftoversikt for kjemiske fagfelt i NSIOD	28

Tabelloversikt

Tabell 1 Norske artikler etter fagfelt 1981-95.	6
Tabell 2 Artikler og siteringer innen <i>kjemi, biologi og biokjemi</i> og <i>molekylærbiologi og genetikk</i> for utvalgte land. 1981-95.	8

Figuroversikt

Figur 1 Artikler per mill. innbyggere innen <i>Kjemi</i> i utvalgte land 1981-95.	9
Figur 2 Artikler innen <i>Kjemi</i> som prosentandel av alle landets artikler 1981-95.	9
Figur 3 Artikler per mill. innbyggere innen <i>Biologi og biokjemi</i> i utvalgte land 1981-95.	10
Figur 4 Artikler innen <i>Biologi og biokjemi</i> som prosentandel av alle landets artikler 1981-95.	10
Figur 5 Artikler per mill. innbyggere innen <i>Molekylærbiologi og genetikk</i> i utvalgte land 1981-95.	11
Figur 6 Artikler innen <i>Molekylærbiologi og genetikk</i> som prosentandel av alle landets artikler 1981-95.	11
Figur 7 "Relative citation impact" innen <i>Kjemi</i> i utvalgte land 1981-95.	12
Figur 8 "Relative citation impact" innen <i>Biologi og biokjemi</i> i utvalgte land 1981-95.	12
Figur 9 "Relative citation impact" innen <i>Mikrobiologi og genetikk</i> i utvalgte land 1981-95.	13
Figur 10 Norske artikler innen <i>Kjemi, Biologi og biokjemi</i> og <i>Mikrobiologi og genetikk</i> 1981-95. Akkumulerte tall for 5-årsperioder.	14
Figur 11 Prosentandel norske artikler av alle verdens artikler innen <i>Kjemi, Biologi og biokjemi</i> og <i>Mikrobiologi og genetikk</i> 1981-95. Akkumulerte tall for 5-årsperioder.	14
Figur 12 "Citation impact" for norske artikler innen <i>Kjemi, Biologi og biokjemi</i> og <i>Molekylærbiologi og genetikk</i> 1981-95. Akkumulerte tall for 5-årsperioder.	15

Figur 13 "Relative citation impact" for norske artikler innen <i>Kjemi, Biologi og biokjemi</i> og <i>Molekylærbiologi og genetikk</i> 1981-95. Akkumulerte tall for 5-årsperioder.	15
Figur 14 Norske artikler innen <i>Kjemi, Geofag, Fysikk og Matematikk</i> 1981-95. Akkumulerte tall for 5-årsperioder.	16
Figur 15 "Relative citation impact" for norske artikler innen <i>Kjemi, Geofag, Fysikk og Matematikk</i> 1981-95. Akkumulerte tall for 5-årsperioder.	17
Figur 16A og 16B "Relative citation impact" innen <i>Kjemi</i> for utvalgte land 1981-95. Akkumulerte tall for 5-årsperioder.	18
Figur 17A og 17B "Relative citation impact" innen <i>Biologi og biokjemi</i> for utvalgte land 1981-95. Akkumulerte tall for 5-årsperioder.	19
Figur 18A og 18B "Relative citation impact" innen <i>Mikrobiologi og genetikk</i> for utvalgte land 1981-95. Akkumulerte tall for 5-årsperioder.	20

Innledning

Bibliometriske FoU-indikatorer måler omfanget av 1) *publisering* i internasjonale vitenskapelige tidsskrifter, og 2) i hvilken utstrekning tidsskriftartiklene blir referert til eller *sitert* i senere artikler i de samme tidsskriftene. *National Science Indicators on Diskette (NSIOD)* er en database med aggregert publiserings- og siteringsstatistikk som dekker data for 92 land gjennom tidsrommet 1981-95. Artiklene er klassifisert under 24 fagfelter, de fleste hjemmehørende under naturvitenskap og teknologi og noen få under samfunnsvitenskap. NSIOD utarbeides av *Institute for Scientific Information* i Philadelphia, USA, som er et kommersielt foretak som også står for utgivelsen av *Science Citation Index* og *Social Science Citation Index* og en rekke andre bibliometriske produkter vedrørende vitenskapelig publisering mm.

Alle fagfeltene i NSIOD-databasen er listet opp nedenfor.

<i>Agricultural Sciences</i>	<i>Law</i>
<i>Astrophysics</i>	<i>Materials Science</i>
<i>Biology & Biochemistry *</i>	<i>Mathematics</i>
<i>Chemistry *</i>	<i>Microbiology</i>
<i>Clinical Medicine</i>	<i>Molecular Biology & Genetics *</i>
<i>Computer Science</i>	<i>Multidisciplinary</i>
<i>Ecology/Environment</i>	<i>Neuroscience</i>
<i>Economics & Business</i>	<i>Pharmacology</i>
<i>Education</i>	<i>Physics</i>
<i>Engineering</i>	<i>Plant & Animal Science</i>
<i>Geosciences</i>	<i>Psychology/Psychiatry</i>
<i>Immunology</i>	<i>Social Sciences, general</i>

Chemistry utgjør et eget fagfelt og er naturligvis det sentrale i denne sammenheng. Biokjemien inngår ikke her, men som en mindre del i kategorien *Biology & Biochemistry*. Også *Molecular Biology & Genetics* anses å være et relevant fagfelt i forbindelse med en analyse av kjemisk forskning. Disse tre, merket med * ovenfor, er valgt ut for nærmere analyse¹. Som navnene sier omfatter de to sistnevnte kategoriene også andre forskningsområder enn kjemi. På den annen side kan det forekomme emner av relevans for den kjemiske forskning innenfor *andre* fagfelt enn de tre som blir analysert her. De tre utvalgte fagfeltene skulle imidlertid dekke det

¹ Disse tre kategoriene inngår også i en evaluering av *svensk* grunnforskning i kjemi, jf. *International Review of Swedish Research in Fundamental Chemistry* 1995, Naturvetenskapliga forskningsrådet 1995.

aller meste av forskning innenfor kjemiområdet².

Et fagfelt er definert ved de tidsskrifter som er klassifisert som tilhørende fagfeltet. Hvert enkelt tidsskrift er som hovedregel klassifisert under *ett* fagfelt³. Alle artiklene i et tidsskrift blir regnet til tidsskriftets fagfelt⁴. I den database som ligger til grunn for denne analysen er det ikke mulig å splitte fagfeltene i snevrere kategorier⁵. Dataene er aggregert på nasjonsnivå, noe som muliggjør sammenligninger landene imellom for de ulike fagfeltene. I NSIOD er det ikke mulig å bryte nasjonsdataene ned på enkeltstående institusjoner eller miljøer⁶.

I det følgende vil vi se på omfanget av norsk publisering innen hvert enkelt av fagfeltene som i norsk oversettelse betegnes som *Kjemi, Biologi og biokjemi og Molekylærbiologi og genetikk*. Antall artikler kan sees som en indikator på produktivitet. Antall siteringer kan tas som uttrykk for i hvilken grad publikasjonen har fått gjennomslag, eller er blitt synliggjort, blant forskerkolleger. Det er alminnelig enighet blant bibliometrikere om at man skal være ytterst varsom med å tolke publiserings- og siteringsfrekvens som et direkte uttrykk for forskningens *kvalitet*. På den annen side kan bibliometrien bidra med nyttige bakgrunnsdata i forbindelse med evaluering av et fagfelt eller forskningsmiljø.

I det følgende gir vi - ved hjelp av tabeller og diagrammer - en oversikt over omfanget av norsk publisering innen de "kjemiske" fagfeltene, og sammenligner denne med den tilsvarende publiseringsaktivitet i et utvalg av andre land. I tillegg presenterer vi data for siteringsindikatorene *Citation impact* og *Relative citation impact*, se side 7.

² I Vedlegg 2 gis en oversikt over hvilke disipliner som inngår i de enkelte fagfeltene. Det redegjøres også for grunnlaget for fagklassifikasjonen.

³ Unntaksvis er enkelte tidsskrifter likevel tatt med under to eller flere fagfelter, se Vedlegg 2.

⁴ Også her fins det unntak, se innledningen i Vedlegg 3.

⁵ Her benyttes standardversjonen av NSIOD. Det finnes også en "Deluxe version" hvor faginndelingen er mye mer fininndelt, med i alt 102 kategorier. "Deluxe"-versjonen er imidlertid ikke innkjøpt ved NIFU.

⁶ ISI har databaser hvor dette er mulig, bl.a. for alle universiteter i USA. NIFU har bygget opp en særskilt database med grunddata fra Science Citation Index, som dekker for alle norske publikasjoner f.o.m. 1990. Ut fra denne kan norske forskeres publikasjonsmønster analyseres, både på institusjons-, institutt- og personnivå. I tillegg kan man få opplysninger om hvilke tidsskrifter det publiseres i og om samforfatterskap, dvs. hvem som publiserer sammen med hvem.

Perioden 1981-95 samlet

I tidsrommet 1981-95 ble det publisert i alt vel 8 millioner artikler i de tidsskrifter som inngår i databasen. I om lag 45.000 av disse hadde forfatteren - eller en av flere forfattere - norsk adresse. Om lag 12.000 artikler, eller 24 prosent av samtlige norske⁷, ble publisert i tidsskrifter som faller innenfor de tre kjemi-relaterte fagfeltene. Dette svarer omtrent til den tilsvarende andelen på verdensbasis, som var 25 prosent. Omtrent samme andel finner vi også i Danmark og Sverige med hhv 26 og 27 prosent.

Tabell 1 viser norske artikler innen *alle* fagfeltene i databasen. "Kjemi"-feltene

Tabell 1 Norske artikler etter fagfelt 1981-95.

Fagfelt	Antall norske artikler	Norske artikler som %-andel av alle artikler i fagfeltet	Fagfeltets %-andel av alle norske artikler	Fagfeltets %-andel av alle verdens artikler
Agricultural Sciences	955	0,42	2,12	2,87
Astrophysics	351	0,39	0,78	1,13
Biology & Biochemistry	7.137	0,69	15,87	12,86
Chemistry	3.566	0,36	7,93	12,29
Clinical Medicine	12.016	0,76	26,73	19,66
Computer Science	310	0,34	0,69	1,15
Ecology/Environment	1.732	0,87	3,85	2,49
Economics & Business	568	0,48	1,26	1,47
Education	84	0,20	0,19	0,52
Engineering	2.413	0,37	5,37	8,14
Geosciences	2.570	1,26	5,72	2,54
Immunology	1.530	0,97	3,40	1,97
Law	12	0,04	0,03	0,35
Materials Science	683	0,27	1,52	3,13
Mathematics	657	0,47	1,46	1,75
Microbiology	1.491	0,81	3,32	2,29
Molecular Biology & Genetics	1.378	0,52	3,06	3,30
Multidisciplinary	298	0,24	0,66	1,54
Neuroscience	1.723	0,61	3,83	3,53
Pharmacology	1.304	0,55	2,90	2,95
Physics	2.658	0,30	5,91	11,19
Plant & Animal Science	4.594	0,79	10,22	7,28
Psychology/Psychiatry	1.141	0,50	2,54	2,83
Social Sciences, general	1.540	0,63	3,43	3,06

Kilde: National Science Indicators On Diskette/Institute for Scientific Information

⁷ Summen av artikler for flere fagfelt er større enn det reelle antall artikler fordi enkelte tidsskrifter inngår i flere fagfelt

er uthevet. I Tabell 2 ser vi nærmere på disse, og sammenholder data for Norge og andre land. Følgende indikatortall presenteres:

- *Alle artikler* i absolutte tall
- Herav *siterte artikler* i absolutte tall
- Andelen *siterte artikler* av samtlige
- Antall *siteringer* i absolutte tall
- *Citation impact*, som viser forholdet mellom antall siteringer og antall artikler, dvs. hvor mange siteringer den enkelte artikkel i gjennomsnitt har mottatt.
- *Relative citation impact* viser forholdet er mellom et fagfelts *Citation impact* i det enkelte land og *Citation impact* for fagfeltet når alle verdens land inkluderes (*Impact base* i tabellen). Den relative impact for et fagfelt i et bestemt land har således verdien 1 dersom landets artikler siteres i samme grad som alle verdens artikler i fagfeltet.

Antallet artikler bestemmes i første rekke av landets størrelse. Som Tabell 2 viser var antallet norske artikler innen alle de tre kjemi-feltene lavere enn i alle andre land bortsett fra Island.

I fagfeltet *kjemi* ble det publisert vel 3.500 artikler med norsk forfatteradresse. I gjennomsnitt er fire av fem er sitert i senere artikler. Sverige publiserte tre ganger så mange artikler som Norge, og Danmark omtrent 50 prosent flere. Se også Figur 1, som viser artikkelproduksjonen per mill. innbyggere⁸. Figur 2 viser hvor stor andel artiklene i kjemi utgjør av landenes samlede artikkelmengde i databasen. For Norge er andelen 8 prosent, omtrent det samme som de andre nordiske land og USA. *Citation impact* for de norske artiklene er lavere enn alle andre land bortsett fra Finland og Island. Dette gjelder også *Relative citation impact*, se Figur 7. For Norge er denne 0,91. Norske artikler i kjemi ble altså sitert i mindre grad enn gjennomsnittet for alle verdens artikler i kjemi. Svenske og danske artikler ble derimot hyppigere sitert; *relative citation impact* for disse var hhv 1,29 og 1,22.

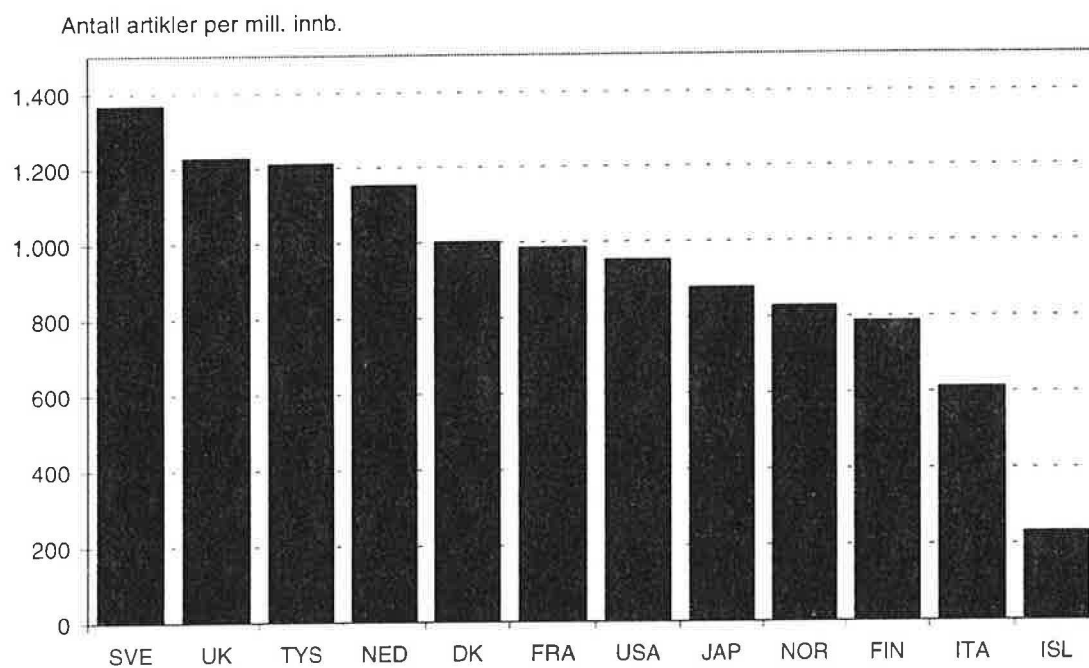
Figurene 3-6 viser på tilsvarende måte artikkeltall per mill. capita og andeler for *biologi og biokjemi* og *molekylærbiologi og genetikk*. I *biologi og biokjemi* er publiseringstallene for Norge enda ugunstigere enn i kjemi sammenlignet med de øvrige nordiske land (se Tabell 2). *Relative citation impact* var også lavere, jf. Figur 8. I *molekylærbiologi og genetikk* er forholdet til Danmark og Sverige omtrent det samme som i *biologi og biokjemi*. Her har Finland så meget som 80 prosent flere artikler enn Norge. *Relative citation impact* for Norge i dette fagfeltet er så lav som 0,62 - litt høyere enn Island. Se Figur 9.

⁸ Innbyggertall for 1993.

Tabell 2 Artikler og siteringer innen *kjemi, biologi og biokjemi og molekylærbiologi og genetikk* for utvalgte land.1981-95.

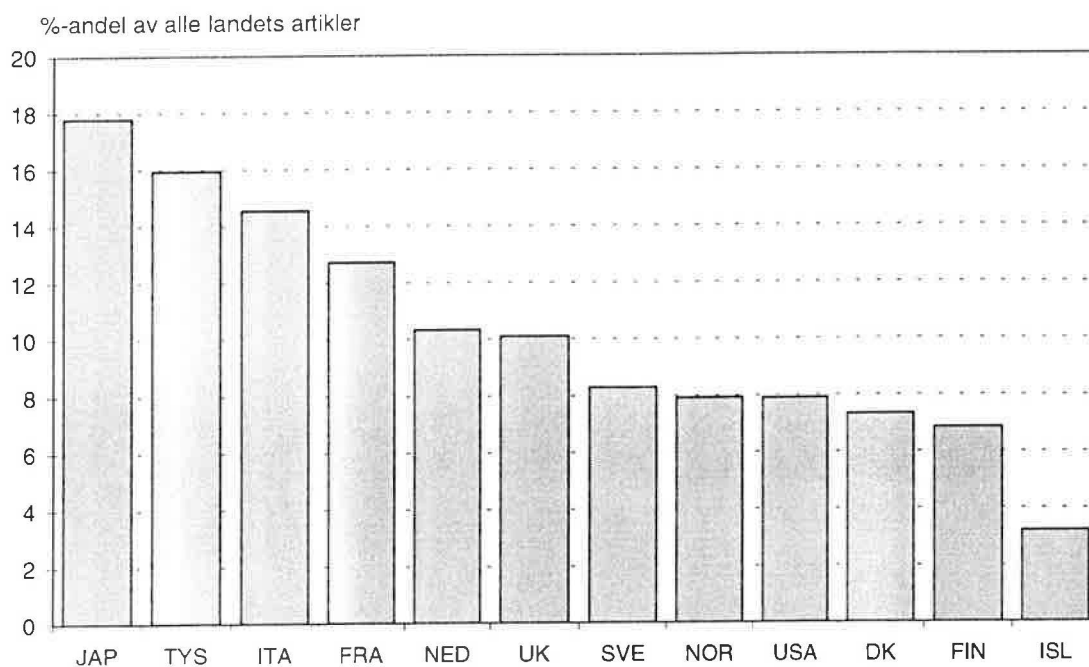
Land	Antall artikler	Herav siterte artikler	% siterte artikler	Antall siteringer	"Citation impact"	"Relative citation impact"	"Impact base"
<i>Kjemi</i>							
USA	245.415	204.077	83,2	3.102.328	12,64	1,66	7,63
Japan	109.368	86.260	78,9	796.152	7,28	0,95	7,63
Tyskland	98.332	76.707	78,0	781.031	7,94	1,04	7,63
Storbritannia	71.407	57.903	81,1	653.475	9,15	1,20	7,63
Frankrike	56.776	45.287	79,8	458.200	8,07	1,06	7,63
Italia	34.317	27.516	80,2	249.123	7,26	0,95	7,63
Nederland	17.621	14.706	83,5	175.746	9,97	1,31	7,63
Sverige	11.924	9.587	80,4	117.448	9,85	1,29	7,63
Danmark	5.191	4.209	81,1	48.253	9,30	1,22	7,63
Finland	3.986	2.968	74,5	21.022	5,27	0,69	7,63
Norge	3.566	2.773	77,8	24.775	6,95	0,91	7,63
Island	60	51	85,0	401	6,68	0,88	7,63
<i>Biologi og biokjemi</i>							
USA	430.250	375.338	87,2	8.688.779	20,19	1,37	14,72
Japan	104.448	84.830	81,2	1.168.310	11,19	0,76	14,72
Storbritannia	96.814	80.832	83,5	1.474.959	15,23	1,03	14,72
Tyskland	63.820	53.170	83,3	892.556	13,99	0,95	14,72
Frankrike	59.358	47.195	79,5	705.660	11,89	0,81	14,72
Italia	36.666	27.971	76,3	329.059	8,97	0,61	14,72
Nederland	27.096	22.859	84,4	369.644	13,64	0,93	14,72
Sverige	27.034	23.007	85,1	433.409	16,03	1,09	14,72
Danmark	13.210	11.165	84,5	183.776	13,91	0,94	14,72
Finland	9.289	7.736	83,3	111.682	12,02	0,82	14,72
Norge	7.137	5.940	83,2	82.037	11,49	0,78	14,72
Island	207	155	74,9	2.159	10,43	0,71	14,72
<i>Molekylærbiologi og genetikk</i>							
USA	119.954	105.504	88,0	3.461.791	28,86	1,37	21,10
Storbritannia	27.979	24.051	86,0	635.610	22,72	1,08	21,10
Tyskland	22.077	18.478	83,7	498.724	22,59	1,07	21,10
Japan	20.219	16.353	80,9	264.441	13,08	0,62	21,10
Frankrike	19.296	15.354	79,6	323.124	16,75	0,79	21,10
Italia	8.883	7.033	79,2	104.500	11,76	0,56	21,10
Nederland	7.528	6.539	86,9	150.997	20,06	0,95	21,10
Sverige	5.329	4.608	86,5	102.353	19,21	0,91	21,10
Danmark	2.604	2.257	86,7	46.751	17,95	0,85	21,10
Finland	2.436	2.107	86,5	42.453	17,43	0,83	21,10
Norge	1.378	1.149	83,4	17.901	12,99	0,62	21,10
Island	78	64	82,1	901	11,55	0,55	21,10

Kilde: National Science Indicators On Diskette/Institute for Scientific Information



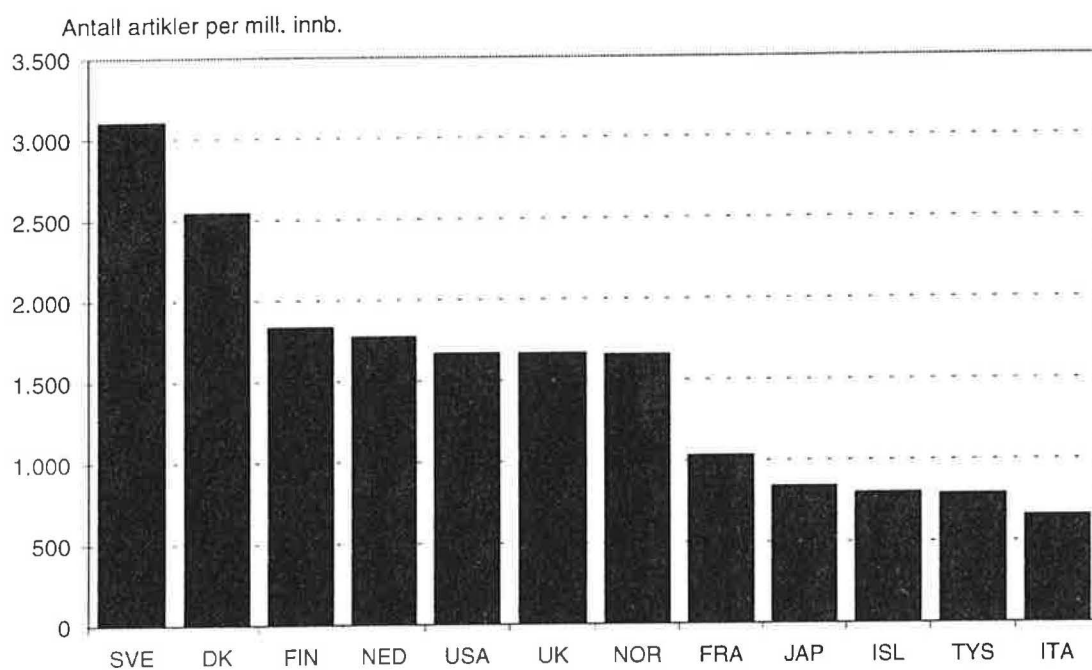
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Figur 1 Artikler per mill. innbyggere innen *Kjemi* i utvalgte land 1981-95.



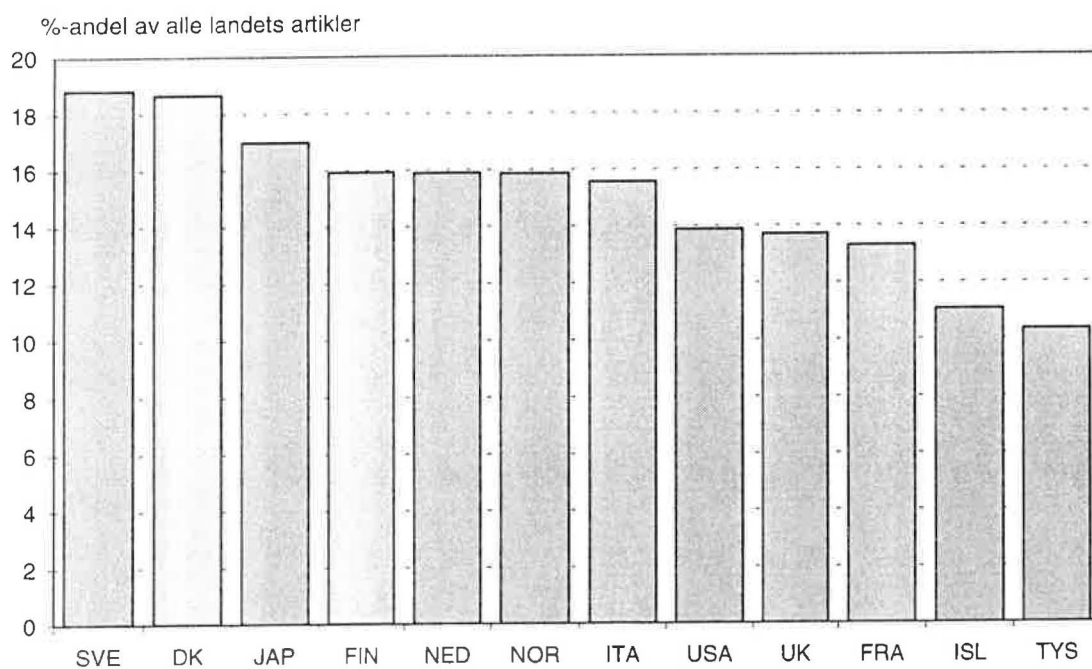
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Figur 2 Artikler innen *Kjemi* som prosentandel av alle landets artikler 1981-95.



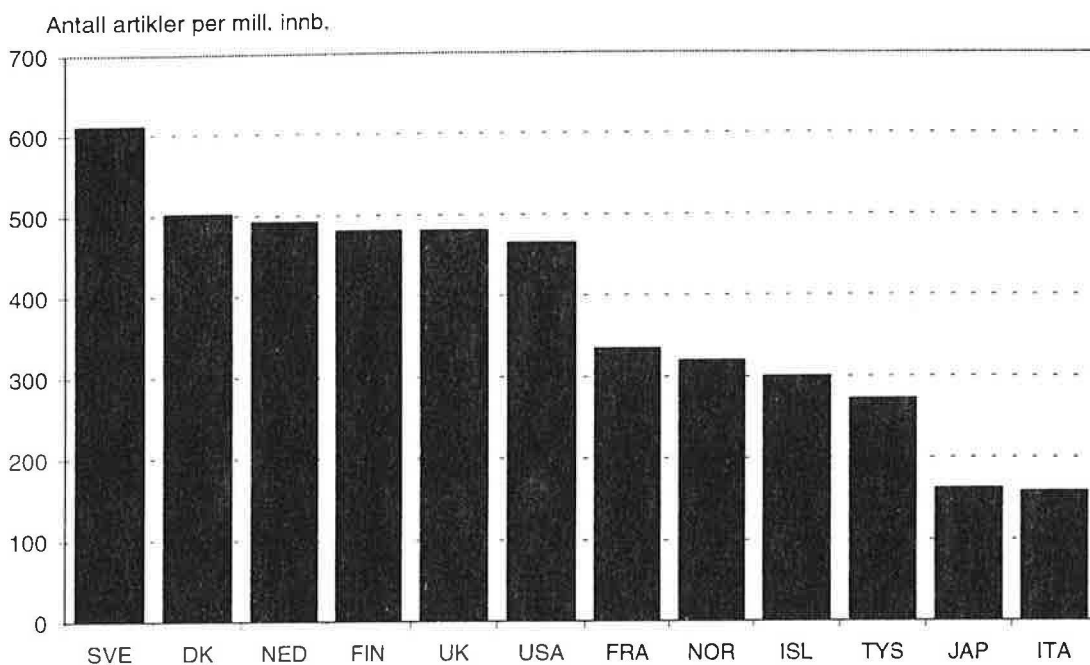
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Figur 3 Artikler per mill. innbyggere innen *Biologi og biojemi* i utvalgte land 1981-95.



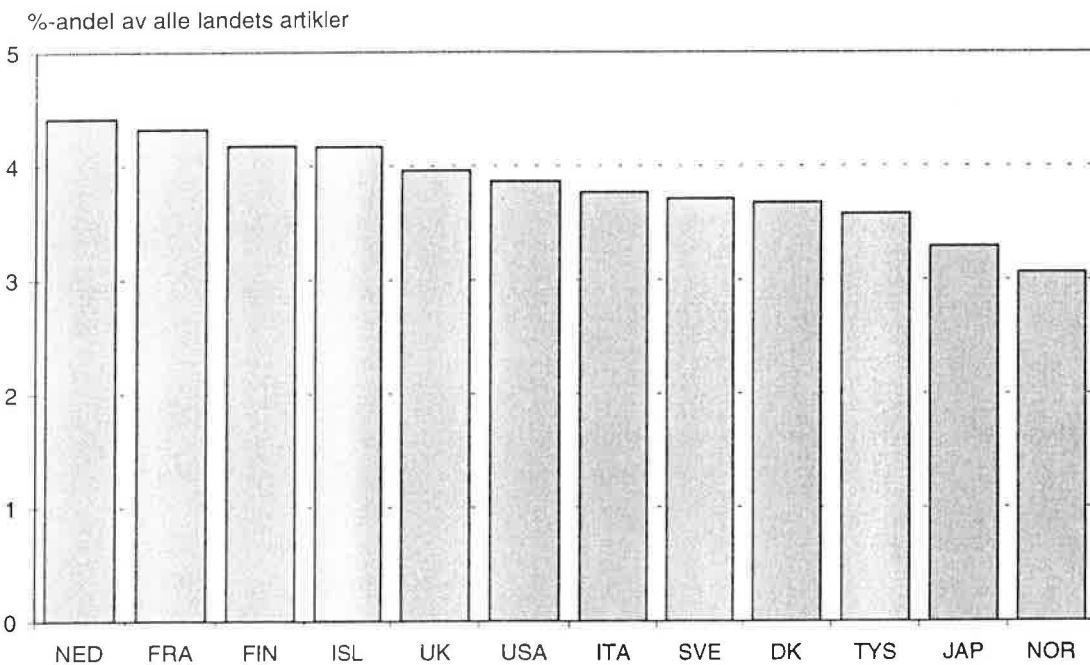
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Figur 4 Artikler innen *Biologi og biokjemi* som prosentandel av alle landets artikler 1981-95.



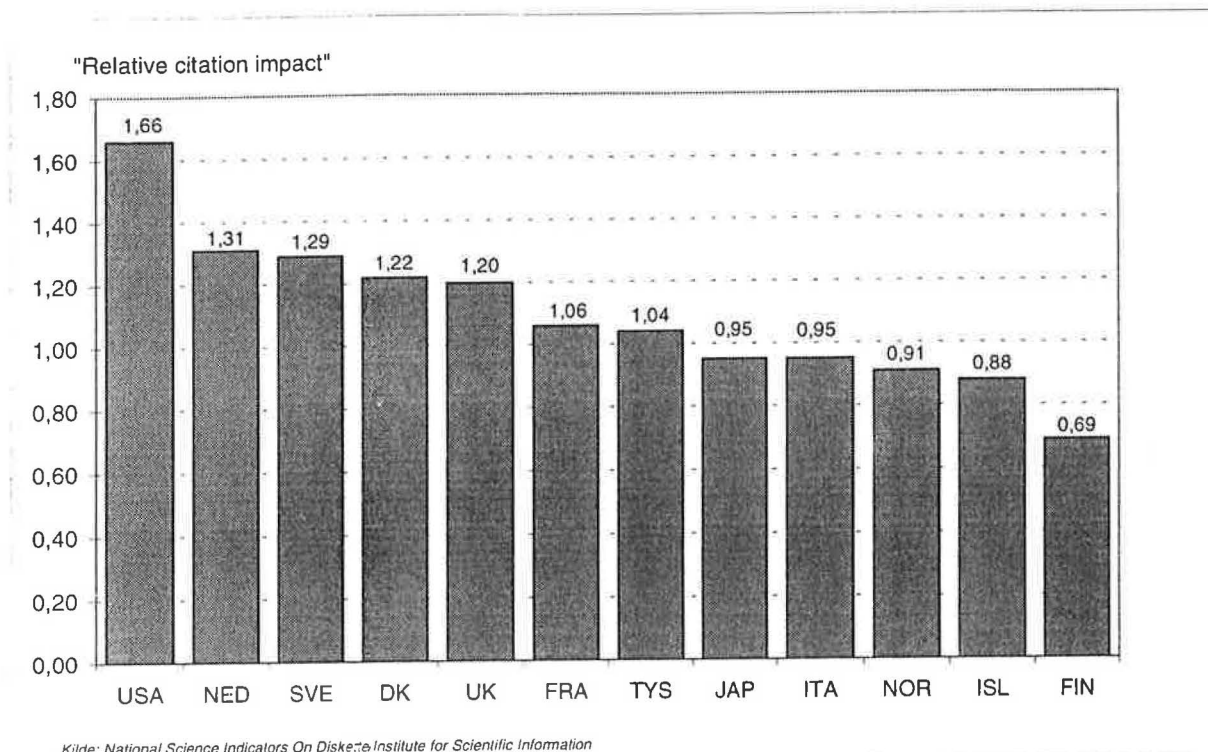
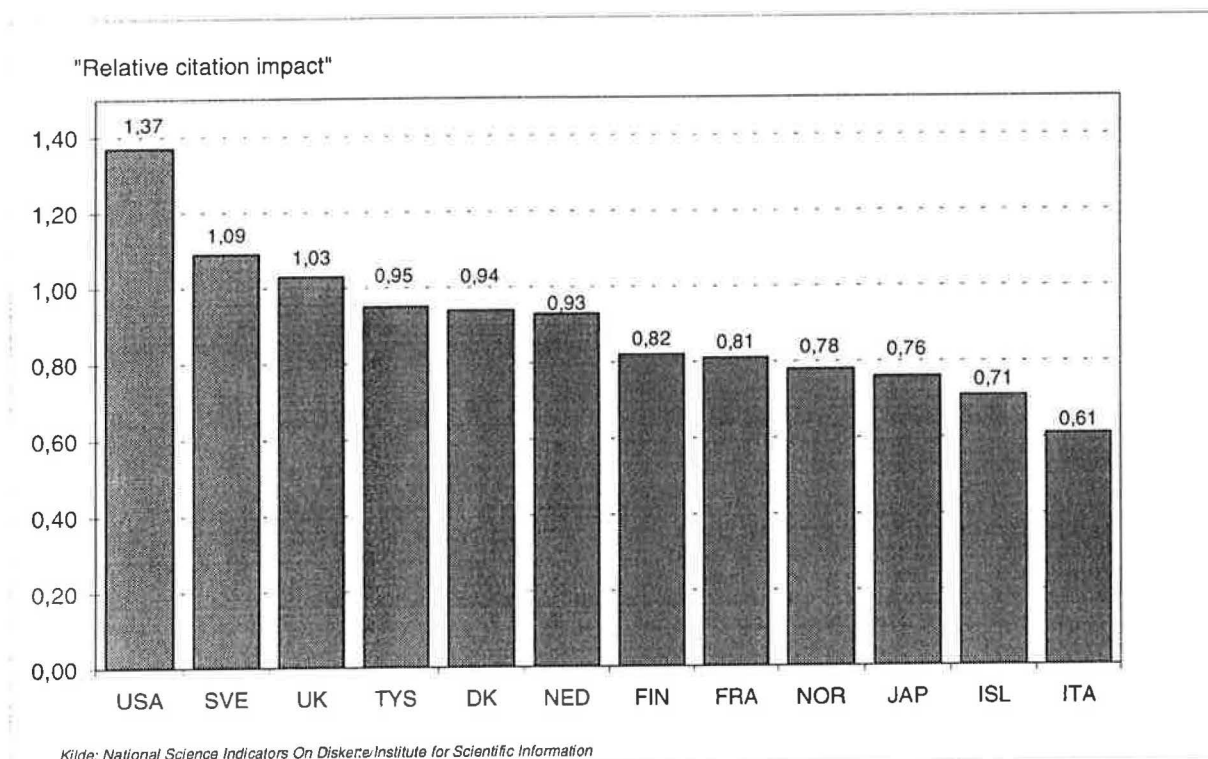
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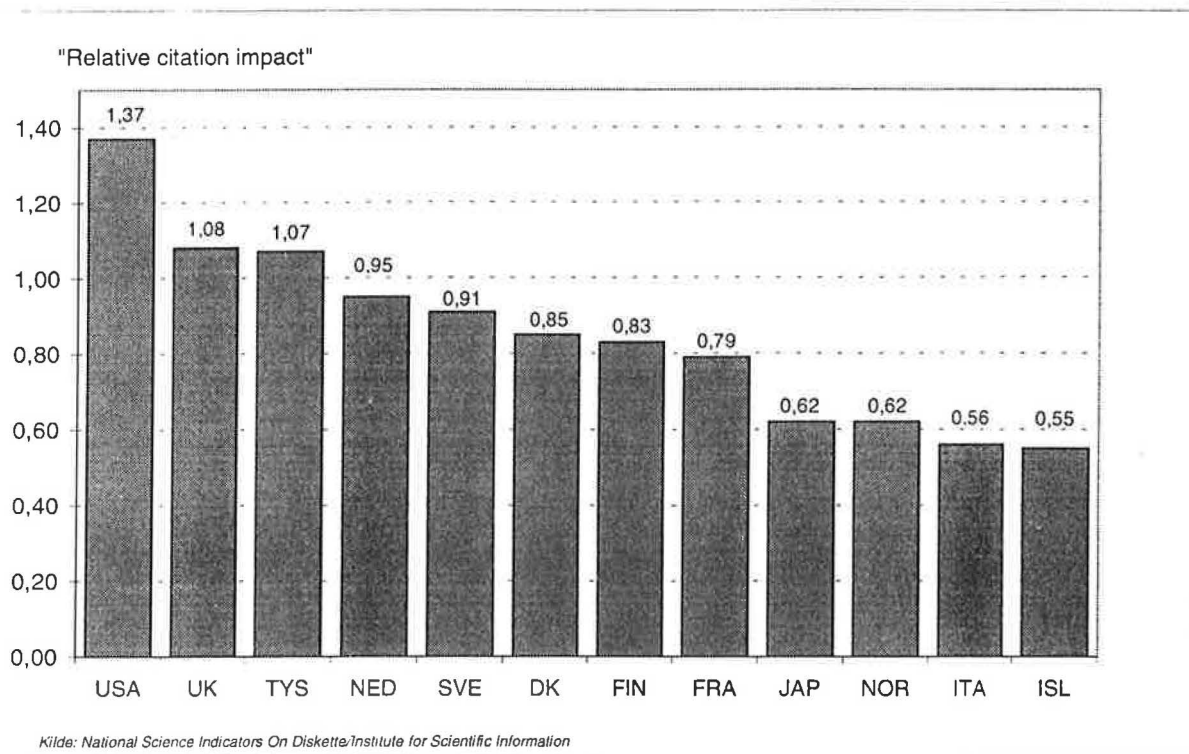
Figur 5 Artikler per mill. innbyggere innen *Molekylærbiologi og genetikk* i utvalgte land 1981-95.



Kilde: National Science Indicators On Diskette/Institute for Scientific Information

Figur 6 Artikler innen *Molekylærbiologi og genetikk* som prosentandel av alle landets artikler 1981-95.

Figur 7 "Relative citation impact" innen *Kjemi* i utvalgte land 1981-95.Figur 8 "Relative citation impact" innen *Biologi og biokjemi* i utvalgte land 1981-95.

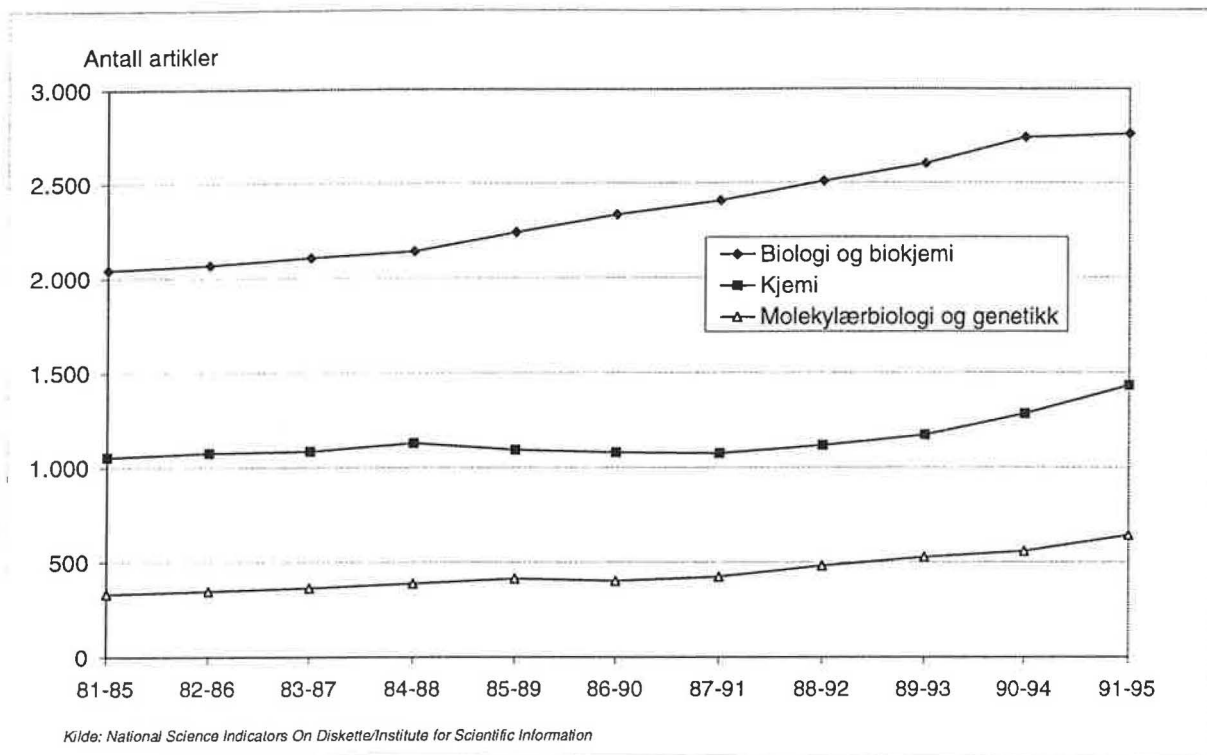


Figur 9 "Relative citation impact" innen Mikrobiologi og genetikk i utvalgte land 1981-95.

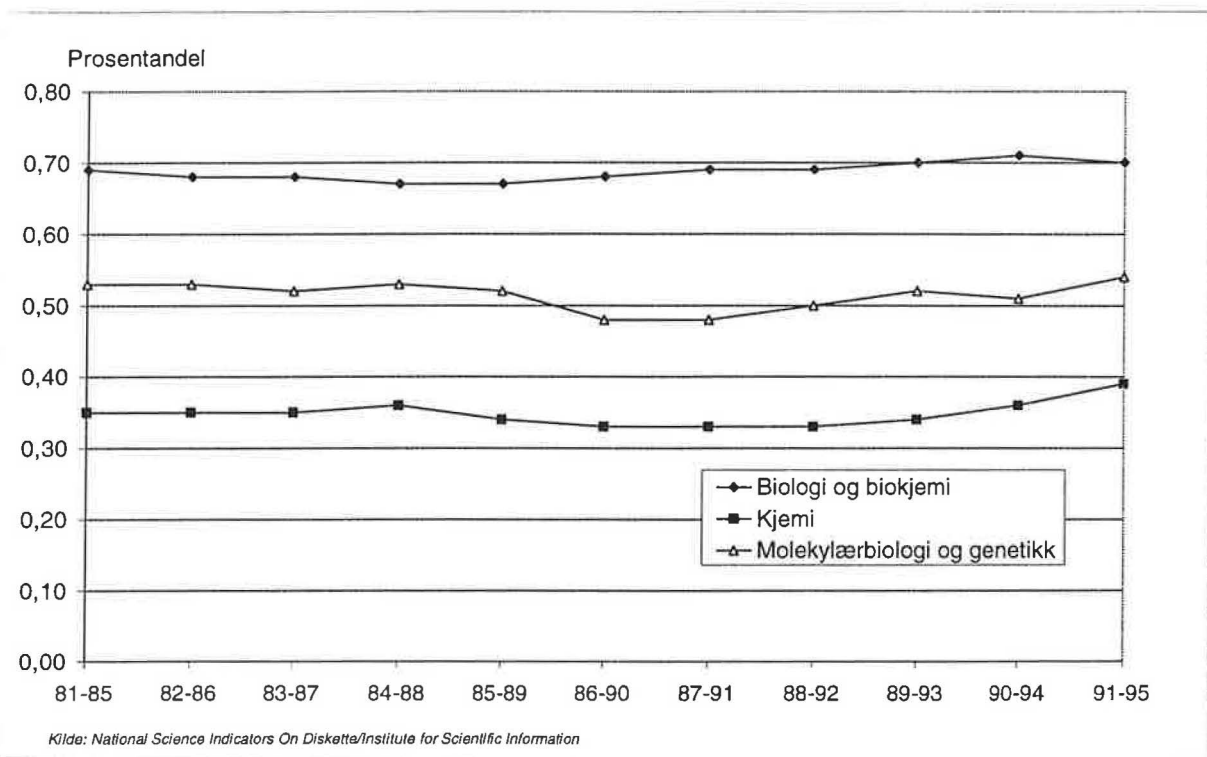
Utviklingen over tid

I figurene 10-15 viser vi utviklingen for Norge gjennom femtenårsperioden 1981-95. For å unngå fokus på tilfeldige utslag fra år til år har vi valgt å presentere akkumulerte tall for femårsperioder, f.o.m. 1981-85 t.o.m. 1991-95.

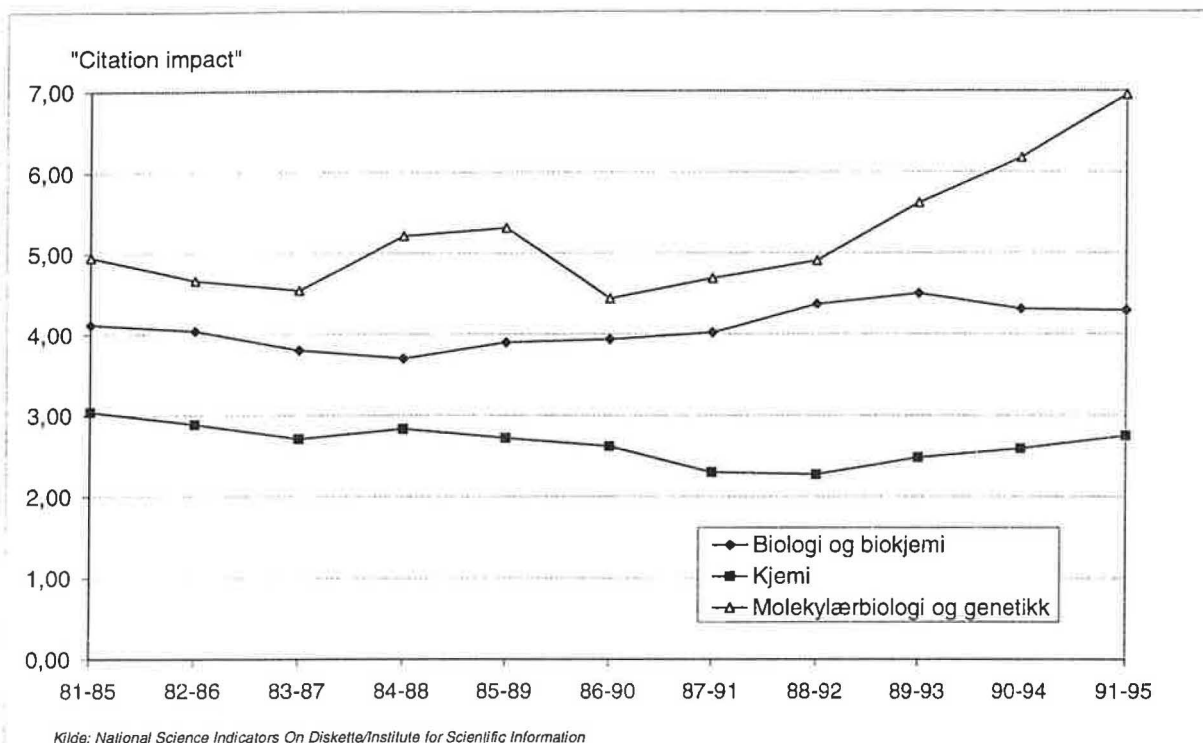
Antallet norske artikler viser en viss økning gjennom perioden for alle tre fagfelt, jf. Figur 10. Mot slutten av perioden er det særlig *kjemi* som øker. (Vi kommenterer ikke her de to andre fagfeltene, men viser til figurene.) Også kjemiens andel av samlet artikkelmengde øker noe, jf. Figur 11. Siteringshyppigheten i kjemi viser en nedadgående tendens fram til midten av perioden. Den økte publisering ser ut til å snu dette; mot slutten av perioden er det en svak økning i både *Citation impact* og *Relative citation impact*, jf. figurene 12 og 13. Som vi ser er det en betydelig forskjell i siteringshyppighet mellom de tre fagfeltene. Denne forskjellen er ikke spesifikt norsk. Av Tabell 2 framgår at artikler i *Molekylærbiologi og genetikk* i gjennomsnitt siteres tre ganger så ofte som artikler i *Kjemi* og *Biologi og biokjemi* dobbelt så ofte ("impact base").



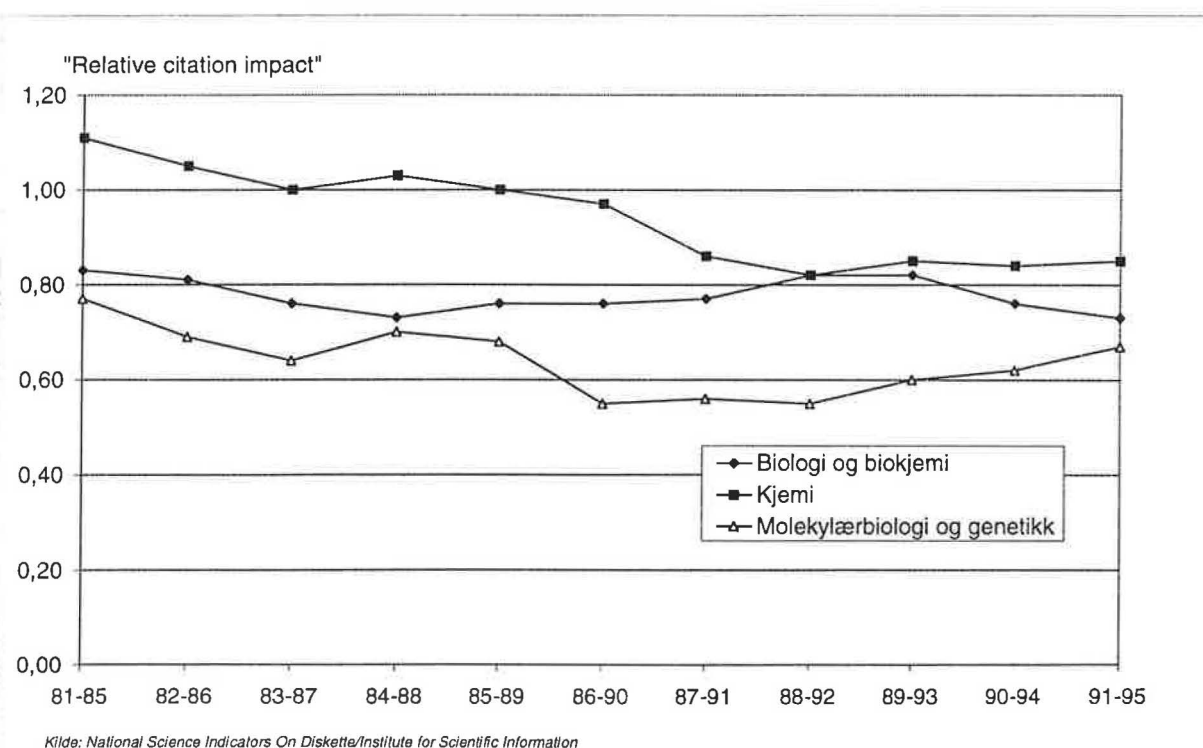
Figur 10 Norske artikler innen *Kjemi*, *Biologi og biokjemi* og *Mikrobiologi og genetik* 1981-95. Akkumulerte tall for 5-årsperioder.



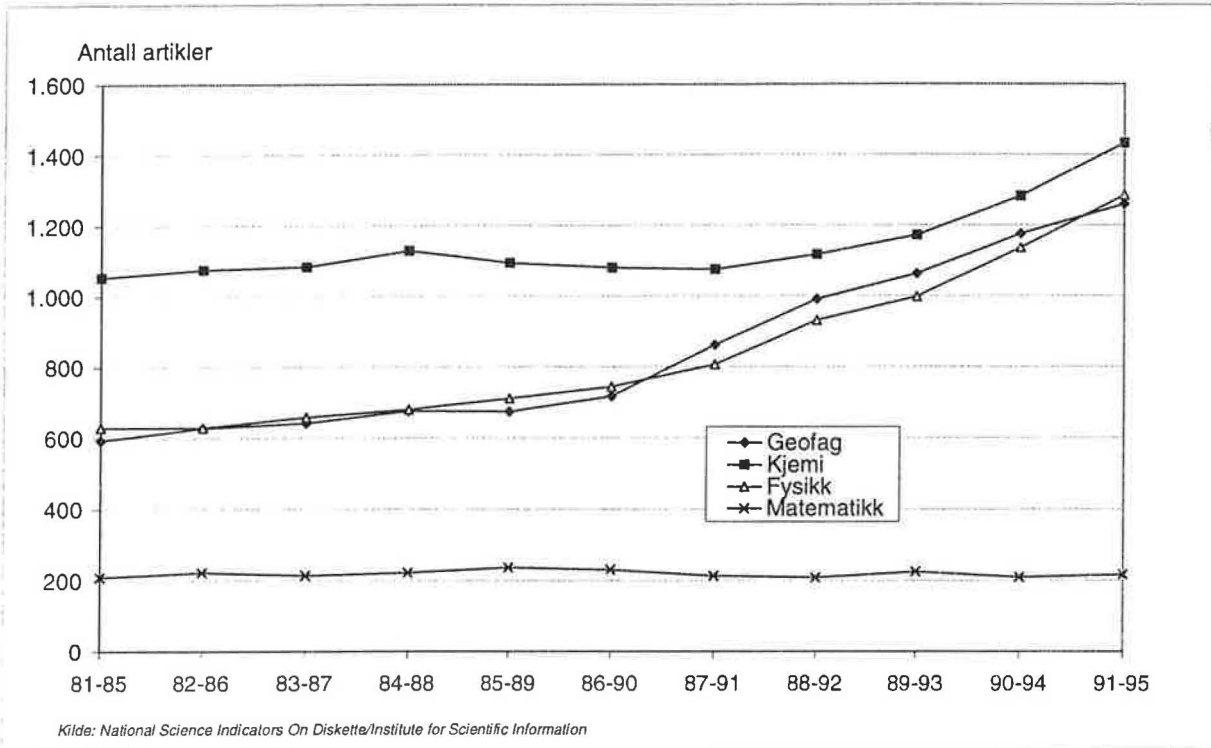
Figur 11 Prosentandel norske artikler av alle verdens artikler innen *Kjemi*, *Biologi og biokjemi* og *Mikrobiologi og genetik* 1981-95. Akkumulerte tall for 5-årsperioder.



Figur 12 "Citation impact" for norske artikler innen *Kjemi*, *Biologi og biokjemi* og *Molekylærbiologi og genetik* 1981-95. Akkumulerte tall for 5-årsperioder.

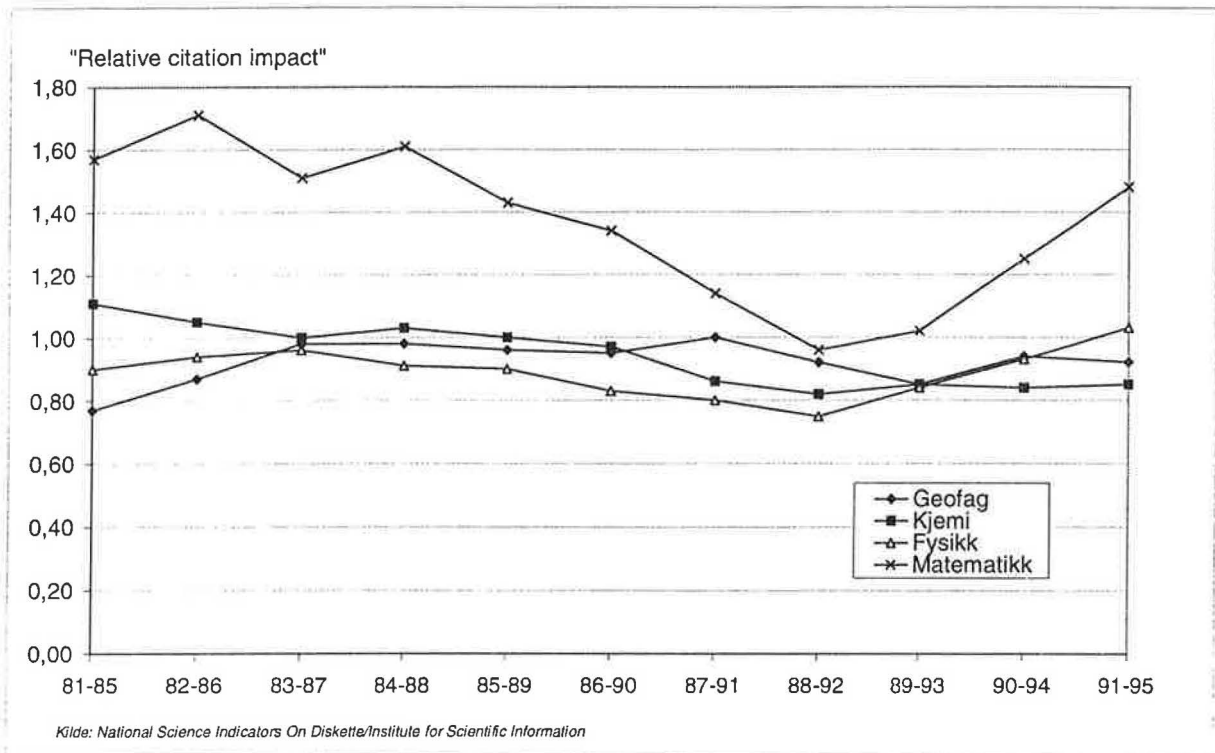


Figur 13 "Relative citation impact" for norske artikler innen *Kjemi*, *Biologi og biokjemi* og *Molekylærbiologi og genetik* 1981-95. Akkumulerte tall for 5-årsperioder.



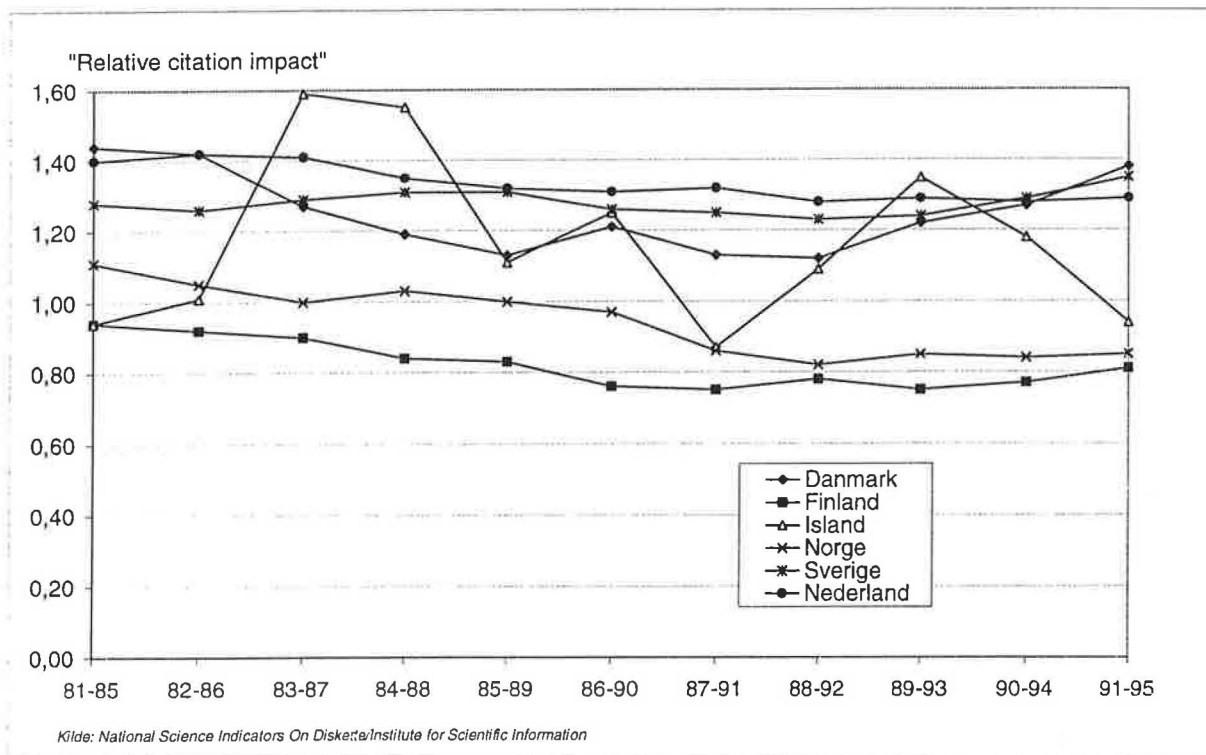
Figur 14 Norske artikler innen *Kjemi*, *Geofag*, *Fysikk* og *Matematikk* 1981-95. Akkumulerte tall for 5-årsperioder.

I Figur 14 sammenligner vi *kjemi* med andre fagfelt innen naturvitenskapene. Det er færre norske artikler i tidsskrifter som er klassifisert under *geofag* og *fysikk* enn under *kjemi*. Men *geofag* og *fysikk* viser en betydelig sterkere økning fra midten av femtenårsperioden 1981-95. Mot slutten av perioden ligger antallet norske artikler omtrent på samme nivå i alle tre fagfelt. Innen *matematikk* publiseres det derimot mindre, og nivået er det samme gjennom hele tidsrommet. Utviklingen i *Relative citation impact* for de samme fagfeltene er vist i Figur 15.

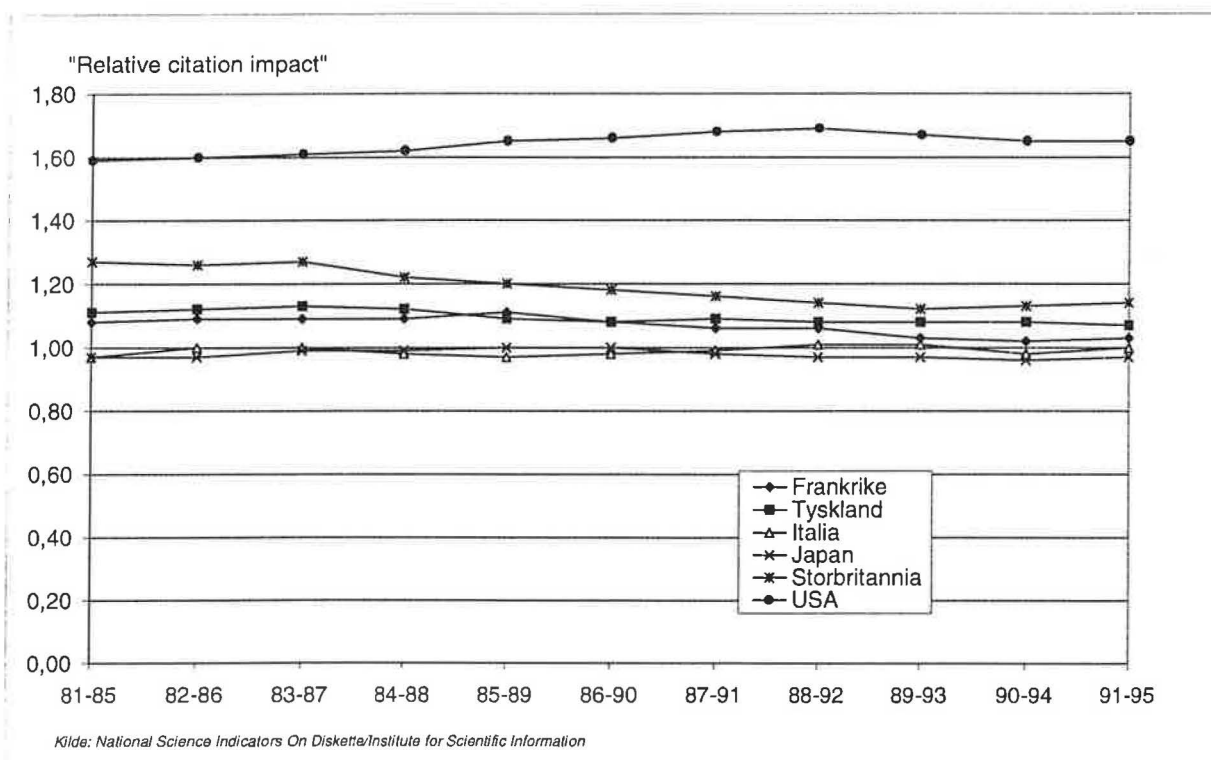


Figur 15 "Relative citation impact" for norske artikler innen *Kjemi*, *Geofag*, *Fysikk* og *Matematikk* 1981-95. Akkumulerte tall for 5-årsperioder.

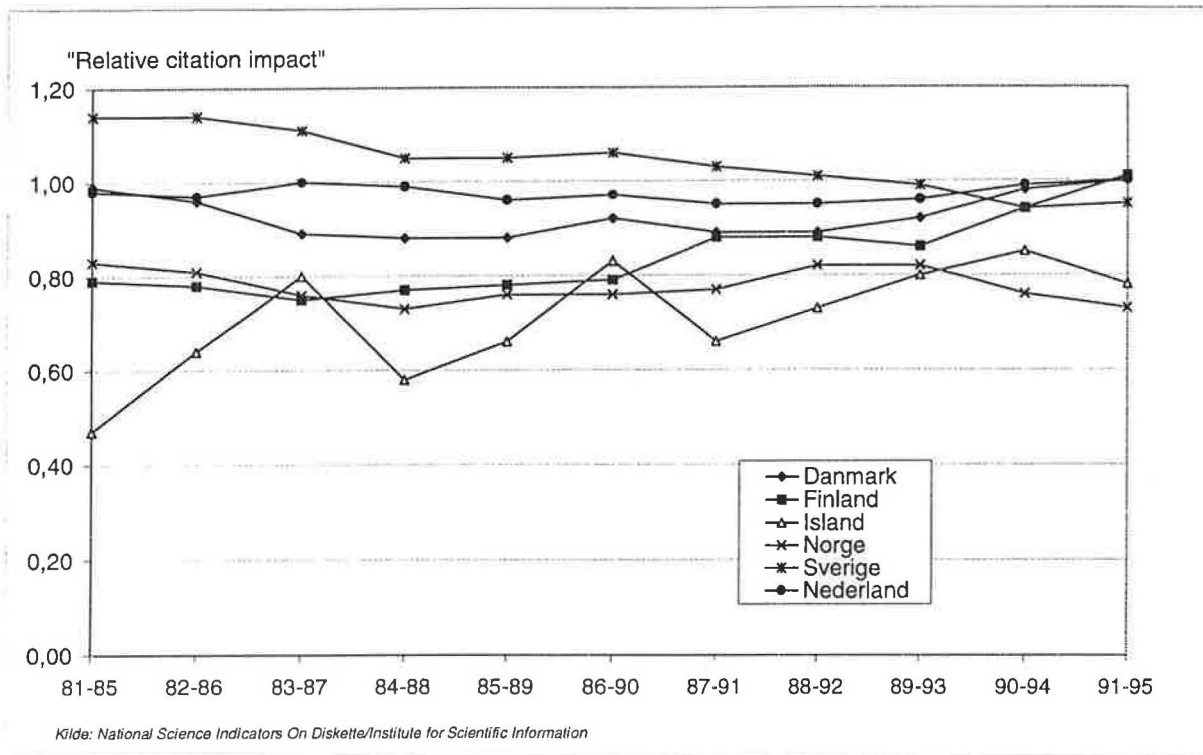
Figurene 16-18 viser utviklingen i *Relative citation impact* i alle de land vi sammenligner Norge med i tidsrommet 1981-95, for hvert av de tre fagfeltene *Kjemi*, *Biologi og biokjemi* og *Molekylærbiologi og genetikk*.



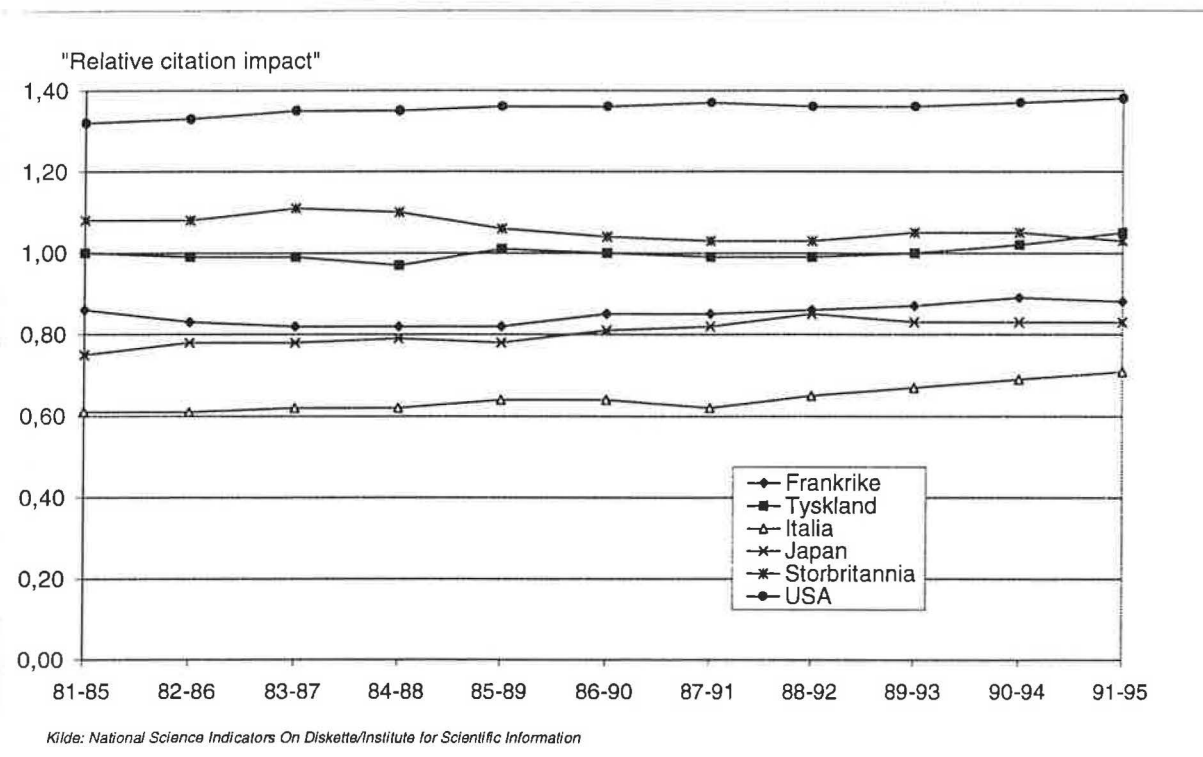
Figur 16A "Relative citation impact" innen *Kjemi* for utvalgte land 1981-95. Akkumulerte tall for 5-årsperioder.



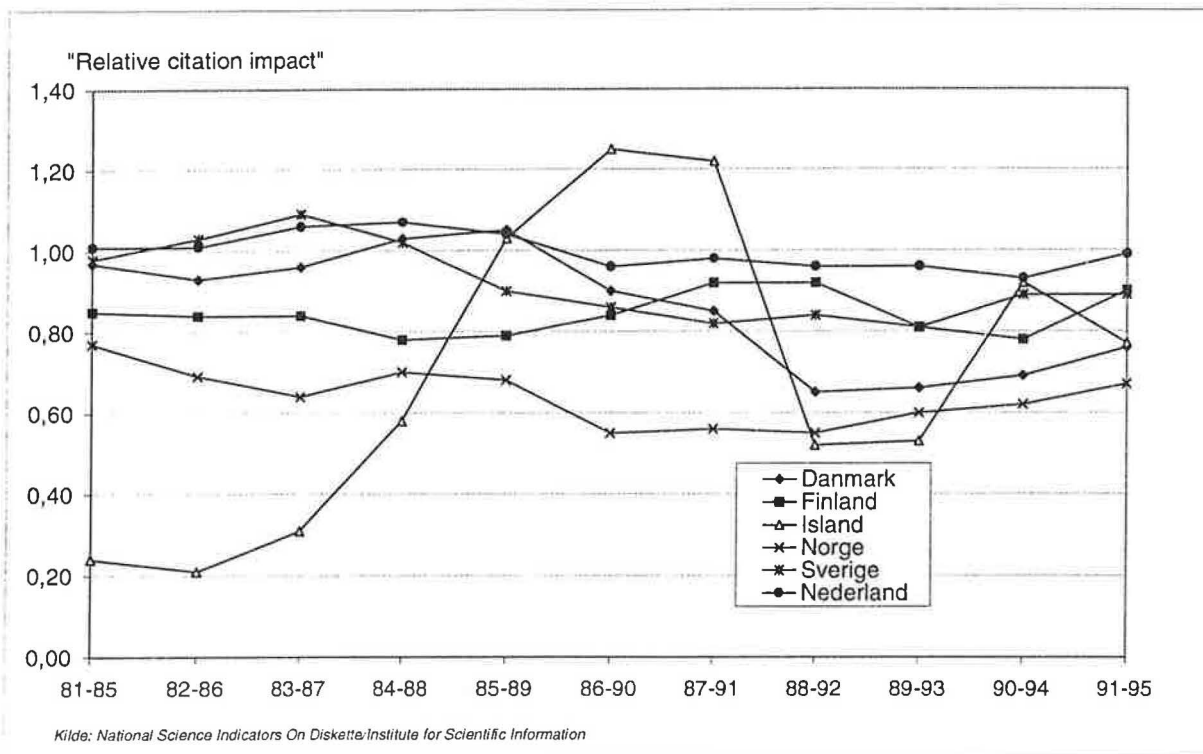
Figur 16B "Relative citation impact" innen *Kjemi* for utvalgte land 1981-95. Akkumulerte tall for 5-årsperioder.



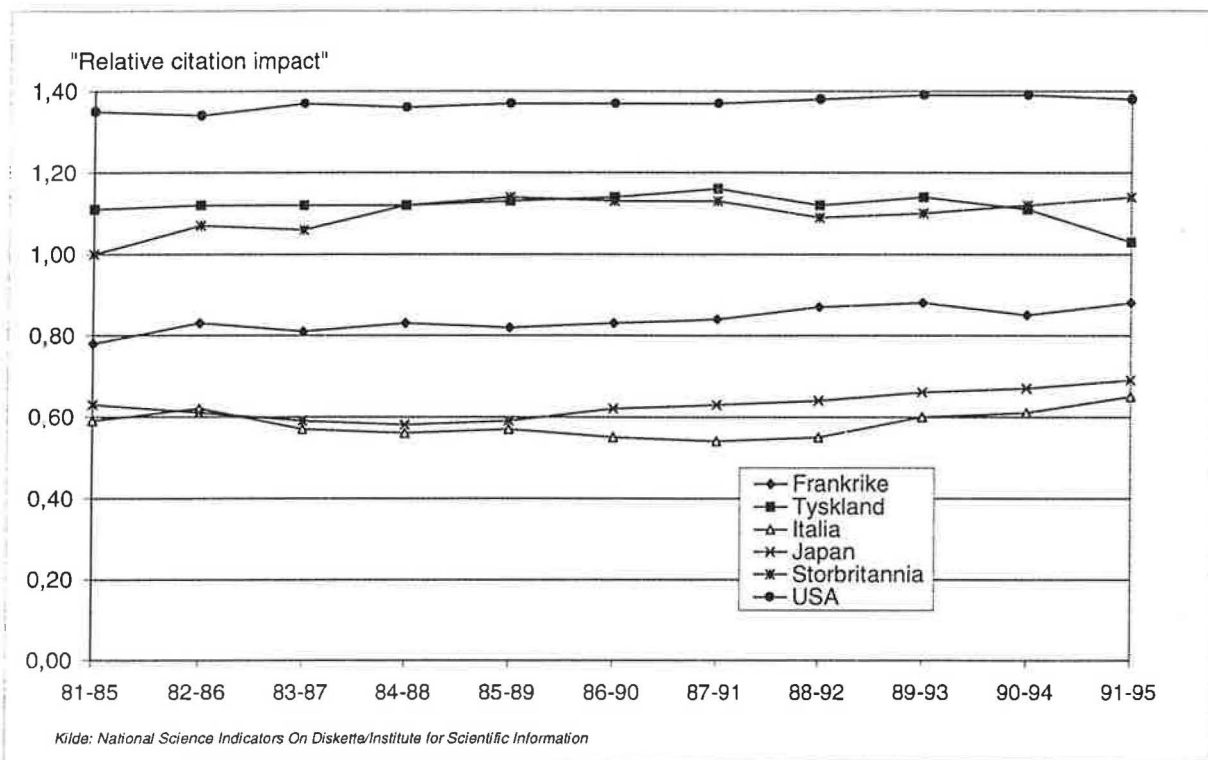
Figur 17A "Relative citation impact" innen *Biologi og biokjemi* for utvalgte land 1981-95. Akkumulerte tall for 5-årsperioder.



Figur 17B "Relative citation impact" innen *Biologi og biokjemi* for utvalgte land 1981-95. Akkumulerte tall for 5-årsperioder.



Figur 18A "Relative citation impact" innen Mikrobiologi og genetik for utvalgte land 1981-95. Akkumulerte tall for 5-årsperioder.



Figur 18B "Relative citation impact" innen Mikrobiologi og genetik for utvalgte land 1981-95. Akkumulerte tall for 5-årsperioder.

Data og analysetabeller i NSIOD

Vedlegg 1

National Science Indicators On Diskette - NSIOD - er en database fra Institute for Scientific Information (ISI) med publiserings- og siteringsdata for alle verdens land. Her beskrives standardversjonen⁹.

Tidsrom

Dataene dekker 1981-95. Basen oppdateres hvert år.

Innhold

- Totalt antall artikler for hvert enkelt land.
 - Antall artikler som er sitert.
 - Totalt antall siteringer av artiklene.
 - Siteringsandel ("impact"), dvs. gjennomsnittlig antall siteringer per artikkel.
- Summerte data for de enkelte fagfelt og for verdenstotalen foreligger også.

Fagfelter

Alle data kan brytes ned på i alt 24 fagfelt.

For hvert enkelt fagfelt er det spesifisert hvilke tidsskrifter artiklene i basen er hentet fra.

Spesifikasjoner av mulige data:

Data for fagfelt innen det enkelte land:

- A. Antall artikler
- B. Antall siteringer
- C. Siteringsandel, dvs. antall siteringer per artikkel (B/A)
- D. Antall siterte artikler
- E. Prosentandel artikler som er sitert (D% av A)
- F. Relativ siteringsandel for fagfelt, dvs. forholdet mellom fagfeltets siteringsandel for det enkelte land og fagfeltets siteringsandel for alle land samlet (C/N)
- G. Relativ siteringsandel for land, dvs. forholdet mellom fagfeltets siteringsandel for det enkelte land og landets siteringsandel for alle fagfelter samlet (C/V)

⁹ Det er også utarbeidet en "Deluxe version". Denne inneholder data fra 93 land samt 3 geografiske regioner (*Asia Pacific, European Union, og Latin America*). Faginndelingen er fininndelt i 102 kategorier og inkluderer også humaniora.

- H. Prosentandel artikler av antall artikler i fagfeltet for alle land samlet ($A\%$ av L)
- I. Prosentandel artikler av antall artikler for landet for alle fagfelter samlet ($A\%$ av T)
- J. Relativ sitering, dvs. forholdet mellom landets andel siterte artikler og fagfeltets andel siterte artikler for alle land samlet (E/P)
- K. Relativ sitering, dvs. forholdet mellom landets andel siterte artikler og landets andel siterte artikler for alle fagfelter samlet (E/X)

Data for fagfelt for alle land samlet:

- L. Antall artikler
- M. Antall siteringer
- N. Siteringsandel, dvs. antall siteringer per artikkel (M/L)
- O. Antall siterte artikler
- P. Prosentandel artikler som er sitert ($O\%$ av L)
- Q. Relativ siteringsandel, dvs. forholdet mellom fagfeltets siteringsandel og verdens siteringsandel alle fagfelter samlet ($N/\text{\AA}$)
- R. Prosentandel artikler av alle artikler i verden ($L\%$ av \emptyset)
- S. Relativ sitering, dvs. forholdet mellom fagfeltets andel siterte artikler og andelen siterte artikler for alle fagfelter samlet (O/AA)

Data for land for alle fagfelter samlet:

- T. Antall artikler
- U. Antall siteringer
- V. Siteringsandel, dvs. antall siteringer per artikkel (U/T)
- W. Antall siterte artikler
- X. Prosentandel artikler som er sitert ($W\%$ av T)
- Y. Relativ siteringsandel, dvs. forholdet mellom landets siteringsandel og verdens siteringsandel for alle land samlet ($V/\text{\AA}$)
- Z. Prosentandel artikler av alle artikler i verden (T/\emptyset)
- Æ. Relativ sitering, dvs. forholdet mellom landets siteringsandel og siteringsandelen for alle land samlet (X/AA)

Summer for alle land og alle fagfelter samlet

- \emptyset . Antall artikler
- \AA . Siteringsandel, dvs. antall siteringer per artikkel
- AA. Prosentandel artikler som er sitert

Tidsperioder

1. 5-års overlappende perioder, dvs. 1981-85, 1982-86, 1983-87 osv.
2. 1-årsperioder som er sitert opp til siste år. Dvs. data for det enkelte år 1981, 1982, 1983 ... 1995.
3. Hele 15-årsperioden akkumulert.
4. Siste 5-årsperiode, dvs. 1991-95.

Fagfelter og tidsskriftgrunnlag i NSIOD

Vedlegg 2

Hvert enkelt tidsskrift er klassifisert i henhold til disse kategoriene, som svarer til kategoriene i *Current Contents*. *Current Contents* er en database over innholdsfortegnelser i vitenskapelige tidsskrifter, og gir bibliografiske opplysninger om den enkelte artikkel. *Current Contents* publiseres ukentlig i syv forskjellige deler. Hver del dekker tidsskrifter fra beslektede fagfelt. Samsvaret mellom NSIOD-kodene (i standardversjonen) og *Current Contents*-kodene framgår av oversikten nedenfor.

En detaljert oversikt over hvilke tidsskrifter som utgjør datagrunnlaget i de kjemiske fagfeltene er inntatt i Vedlegg 3.

Innenfor en og samme *Current Contents Product Code* er et tidsskrift tatt med bare en gang. Det forekommer imidlertid at et tidsskrift inngår under to eller flere produktkoder, f.eks. både under *Life Sciences* og *Agriculture, Biology & Environmental Sciences* hvis tidsskriftet anses relevant for begge områder. I så fall inngår tidsskriftet i datagrunnlaget to ganger, dvs. dobbeltelles. Summen av artikler for alle fagfelter er for Norges vedkommende 12,8 prosent høyere enn det reelle antall artikler. For verden som helhet er det tilsvarende tallet 10,3 prosent. Disse prosentandelene er et uttrykk for overlappingen mellom fagfeltene.

Tidsskriftoverlappingen mellom de tre fagfeltene *Chemistry, Biology & Biochemistry* og *Molecular Biology & Genetics* er imidlertid beskjeden. Av 1.025 tidsskriftoppføringer er 12 tidsskrifter tatt med i to av feltene.

Mange artikler har forfattere fra flere land enn ett. Dette er ytterligere en kilde til dobbelttelling, da artikkelen blir talt med én gang for hvert enkelt land.

Classifications of fields of science

<i>National Science Indicators (NSIOD)</i>		<i>Current Contents (CC)</i>		
<i>Abbr.</i>	<i>Description</i>	<i>Abbr.</i>	<i>Current Contents Product Code</i>	<i>Description</i>
AGD	Agricultural Sciences	A/A	A=Agriculture, Biology & Environmental Sciences	Agriculture/Agronomy
AGD	Agricultural Sciences	CMA	A=Agriculture, Biology & Environmental Sciences	Agricultural Chemistry
AGD	Agricultural Sciences	F	A=Agriculture, Biology & Environmental Sciences	Food/Nutrition
ASD	Astrophysics	SP	S=Physical, Chemical and Earth Sciences	Space Science
BID	Biology & Biochemistry	BIL	P=Life Sciences	Biochemistry & Biophysics
BID	Biology & Biochemistry	BIO	A=Agriculture, Biology & Environmental Sciences	Biology
BID	Biology & Biochemistry	BTC	A=Agriculture, Biology & Environmental Sciences	Biotechnology & Applied Microbiology
BID	Biology & Biochemistry	END	P=Life Sciences	Endocrinology & Metabolism
BID	Biology & Biochemistry	EXP	P=Life Sciences	Experimental Biology & Medicine
BID	Biology & Biochemistry	PSL	P=Life Sciences	Physiology
CHD	Chemistry	CME	T=Engineering, Technology & Applied Sciences	Chemical engineering
CHD	Chemistry	CML	P=Life Sciences	Chemistry, Life Sciences
CHD	Chemistry	CMP	S=Physical, Chemical and Earth Sciences	Chemistry, General
CHD	Chemistry	ORG	S=Physical, Chemical and Earth Sciences	Organic Chemistry/Polymer Science
CHD	Chemistry	PHC	S=Physical, Chemical and Earth Sciences	Physical Chemistry/Chemical Physics
CLD	Clinical Medicine	AIC	C=Clinical Medicine	Anesthesia & Intensive Care
CLD	Clinical Medicine	CAR	C=Clinical Medicine	Cardiovascular & Respiratory Systems
CLD	Clinical Medicine	INF	C=Clinical Medicine	Clinical Immunology & Infectious Disease
CLD	Clinical Medicine	CLN	P=Life Sciences	Clinical Medicine (CC Life Science Edition)
CLD	Clinical Medicine	PSY	C=Clinical Medicine	Clinical Psychology & Psychiatry
CLD	Clinical Medicine	DEN	C=Clinical Medicine	Dentistry/Oral Surgery & Medicine
CLD	Clinical Medicine	DER	C=Clinical Medicine	Dermatology
CLD	Clinical Medicine	NUT	C=Clinical Medicine	Endocrinology, Metabolism & Nutrition
CLD	Clinical Medicine	GAS	C=Clinical Medicine	Gastroenterology & Hepatology
CLD	Clinical Medicine	GNC	C=Clinical Medicine	General & Internal Medicine
CLD	Clinical Medicine	HEM	C=Clinical Medicine	Hematology
CLD	Clinical Medicine	MED	C=Clinical Medicine	Research/Medical Technology & Laboratory Medicine
CLD	Clinical Medicine	NEU	C=Clinical Medicine	Neurology
CLD	Clinical Medicine	ONC	C=Clinical Medicine	Oncology
CLD	Clinical Medicine	OPH	C=Clinical Medicine	Ophthalmology
CLD	Clinical Medicine	ORT	C=Clinical Medicine	Orthopedics & Sports Medicine
CLD	Clinical Medicine	OTO	C=Clinical Medicine	Otolaryngology
CLD	Clinical Medicine	PED	C=Clinical Medicine	Pediatrics
CLD	Clinical Medicine	PMC	C=Clinical Medicine	Pharmacology/Toxicology
CLD	Clinical Medicine	RAD	C=Clinical Medicine	Radiology, Nuclear Medicine & Imaging

Classifications of fields of science

National Science Indicators (NSIOD) Current Contents (CC)

Abbr.	Description	Abbr.	Current Contents Product Code	Description
CLD	Clinical Medicine	REP	C=Clinical Medicine	Reproductive Medicine
CLD	Clinical Medicine	RHU	C=Clinical Medicine	Rheumatology
CLD	Clinical Medicine	SUR	C=Clinical Medicine	Surgery
CLD	Clinical Medicine	URO	C=Clinical Medicine	Urology
CSD	Computer Sciences	CTA	T=Engineering, Technology & Applied Sciences	Computer Engineering, Technology & Applications
CSD	Computer Sciences	IST	T=Engineering, Technology & Applied Sciences	Informations Technology & Communications Systems
ECD	Economics & Business	ECO	B=Social & Behavioral Sciences	Economics
ECD	Economics & Business	MGT	B=Social & Behavioral Sciences	Management
EDD	Education	EDU	B=Social & Behavioral Sciences	Education
END	Engineering	AER	T=Engineering, Technology & Applied Sciences	Aerospace Engineering
END	Engineering	ARA	T=Engineering, Technology & Applied Sciences	AI, Robotics & Automatic Control
END	Engineering	CIV	T=Engineering, Technology & Applied Sciences	Civil Engineering
END	Engineering	GNE	T=Engineering, Technology & Applied Sciences	Engineering Management/General
END	Engineering	EMA	T=Engineering, Technology & Applied Sciences	Engineering Mathematics
END	Engineering	EEE	T=Engineering, Technology & Applied Sciences	Environmental Engineering/Energy
END	Engineering	EL	T=Engineering, Technology & Applied Sciences	Electrical & Electronics Engineering
END	Engineering	I/M	T=Engineering, Technology & Applied Sciences	Instrumentation/Measurement
END	Engineering	MEC	T=Engineering, Technology & Applied Sciences	Mechanical Engineering
END	Engineering	NCL	T=Engineering, Technology & Applied Sciences	Nuclear Engineering
EVD	Ecology/Environment	ENV	A=Agriculture, Biology & Environmental Sciences	Environment/Ecology
GED	Geosciences	EAR	S=Physical, Chemical and Earth Sciences	Earth Sciences
GED	Geosciences	GPM	T=Engineering, Technology & Applied Sciences	Geo/Petro/Mining Engineering
IMD	Immunology	IMM	P=Life Sciences	Immunology
LAD	Law	LAW	B=Social & Behavioral Sciences	Law
MBD	Molecular Biology & Genetics	CEL	P=Life Sciences	Cell Biology
MBD	Molecular Biology & Genetics	MBG	P=Life Sciences	Molecular Biology & Genetics
MCD	Microbiology	MCB	P=Life Sciences	Microbiology
MSD	Materials Science	MTR	T=Engineering, Technology & Applied Sciences	Materials Science & Engineering
MSD	Materials Science	MET	T=Engineering, Technology & Applied Sciences	Metallurgy
MTD	Mathematics	MTH	S=Physical, Chemical and Earth Sciences	Mathematics
OTH	Multidisciplinary	MUL		Multidisciplinary
NED	Neurosciences	BEH	P=Life Sciences	Neurosciences & Behavior
PHD	Physics	APP	S=Physical, Chemical and Earth Sciences	Applied Physics/Condensed Matter/Materials Sciences
PHD	Physics	O/A	T=Engineering, Technology & Applied Sciences	Optics & Acoustics
PHD	Physics	PHS	S=Physical, Chemical and Earth Sciences	Physics

Classifications of fields of science

<i>National Science Indicators (NSIOD)</i>		<i>Current Contents (CC)</i>		
<i>Abbr.</i>	<i>Description</i>	<i>Abbr.</i>	<i>Current Contents Product Code</i>	<i>Description</i>
PLD	Plant & Animal Sciences	AN	P=Life Sciences	Animal & Plant Sciences
PLD	Plant & Animal Sciences	AS	A=Agriculture, Biology & Environmental Sciences	Animal Sciences
PLD	Plant & Animal Sciences	AQU	A=Agriculture, Biology & Environmental Sciences	Aquatic Sciences
PLD	Plant & Animal Sciences	ENT	A=Agriculture, Biology & Environmental Sciences	Entomology/Pest Control
PLD	Plant & Animal Sciences	PL	A=Agriculture, Biology & Environmental Sciences	Plant Sciences
PLD	Plant & Animal Sciences	VET	A=Agriculture, Biology & Environmental Sciences	Veterinary Medicine/Animal Health
PMD	Pharmacology	PHM	P=Life Sciences	Pharmacology
PSD	Psychology/Psychiatry	PSO	B=Social & Behavioral Sciences	Psychology
PSD	Psychology/Psychiatry	PSI	B=Social & Behavioral Sciences	Psychiatry
SSD	Social Sciences, General	GEO	B=Social & Behavioral Sciences	Environmental Studies, Geography & Development
SSD	Social Sciences, General	LIB	B=Social & Behavioral Sciences	Library & Information Science
SSD	Social Sciences, General	POL	B=Social & Behavioral Sciences	Political Science & Public Administration
SSD	Social Sciences, General	PUB	B=Social & Behavioral Sciences	Public Health & Health Care Science
SSD	Social Sciences, General	REH	B=Social & Behavioral Sciences	Rehabilitation
SSD	Social Sciences, General	S/A	B=Social & Behavioral Sciences	Sociology & Anthropology
SSD	Social Sciences, General	S/I	B=Social & Behavioral Sciences	Social Work & Social Policy

Tidsskriftoversikt for kjemiske fagfelt i NSIOD

Vedlegg 3

Nedenfor er alle tidsskrifter som er kategorisert under de tre kjemi-relaterte fagfeltene i NSIOD-databasen (standardversjonen) listet opp. Listen er ordnet alfabetisk innenfor det enkelte fagfelt. I datagrunnlaget inngår i tillegg dessuten de av artiklene i de bredt anlagte tidsskriftene NATURE, SCIENCE, OG PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA som er klassifisert under de relevante fagfeltene.

Chemistry

ACCOUNTS OF CHEMICAL RESEARCH
ACH-MODELS IN CHEMISTRY
ACTA CHEMICA SCANDINAVICA
ACTA CHIMICA SINICA
ACTA CRYSTALLOGRAPHICA SECTION A
ACTA CRYSTALLOGRAPHICA SECTION B-STRUCTURAL SCIENCE
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS
ACTA CRYSTALLOGRAPHICA SECTION D-BIOLOGICAL CRYSTALLOGRAPHY
ACTA POLYMERICA
ACTA POLYTECHNICA SCANDINAVICA-CHEMICAL TECHNOLOGY SERIES
ADHESIVES AGE
ADVANCED POWDER TECHNOLOGY
ADVANCES IN COLLOID AND INTERFACE SCIENCE
ADVANCES IN POLYMER TECHNOLOGY
AFINIDAD
AICHE JOURNAL
ANALES DE LA ASOCIACION QUIMICA ARGENTINA
ANALES DE QUIMICA
ANALYST
ANALYTICAL CHEMISTRY
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION IN ENGLISH
ANGEWANDTE MAKROMOLEKULARE CHEMIE
ANNALI DI CHIMICA
ANNUAL REVIEW OF PHYSICAL CHEMISTRY
APPLIED CATALYSIS A-GENERAL
APPLIED CATALYSIS B-ENVIRONMENTAL
APPLIED MAGNETIC RESONANCE
APPLIED ORGANOMETALLIC CHEMISTRY
APPLIED RADIATION AND ISOTOPES
APPLIED SURFACE SCIENCE
ATOMIZATION AND SPRAYS
AUSTRALIAN JOURNAL OF CHEMISTRY
BERICHTE DER BUNSEN-GESELLSCHAFT-PHYSICAL CHEMISTRY CHEMICAL PHYSICS
BIOCONJUGATE CHEMISTRY
BIOMEDICAL CHROMATOGRAPHY
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS
BIOORGANIC CHEMISTRY
BIOPHYSICAL CHEMISTRY
BIOSPECTROSCOPY
BOLETIN DE LA SOCIEDAD CHILENA DE QUIMICA
BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE
BULLETIN DES SOCIETES CHIMIQUES BELGES
BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN
BULLETIN OF THE KOREAN CHEMICAL SOCIETY
BULLETIN OF THE POLISH ACADEMY OF SCIENCES-CHEMISTRY
CALPHAD-COMPUTER COUPLING OF PHASE DIAGRAMS AND THERMOCHEMISTRY
CANADIAN JOURNAL OF CHEMICAL ENGINEERING
CANADIAN JOURNAL OF CHEMISTRY-REVUE CANADIENNE DE CHIMIE
CARBOHYDRATE POLYMERS
CARBOHYDRATE RESEARCH
CARBON
CATALYSIS LETTERS
CATALYSIS REVIEWS-SCIENCE AND ENGINEERING
CATALYSIS TODAY
CHEMICAL ENGINEER-LONDON
CHEMICAL ENGINEERING
CHEMICAL ENGINEERING & TECHNOLOGY
CHEMICAL ENGINEERING AND PROCESSING
CHEMICAL ENGINEERING COMMUNICATIONS
CHEMICAL ENGINEERING JOURNAL AND THE BIOCHEMICAL ENGINEERING JOURNAL
CHEMICAL ENGINEERING PROGRESS
CHEMICAL ENGINEERING RESEARCH & DESIGN
CHEMICAL ENGINEERING SCIENCE
CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE
CHEMICAL PAPERS-CHEMICKÉ ZVESTI
CHEMICAL PHYSICS
CHEMICAL PHYSICS LETTERS
CHEMICAL PROCESSING
CHEMICAL REVIEWS
CHEMICAL SOCIETY REVIEWS
CHEMICAL WEEK

- CHEMICKE LISTY
CHEMIE IN UNSERER ZEIT
CHEMIE INGENIEUR TECHNIK
CHEMISCHE BERICHTE
CHEMISCHE TECHNIK
CHEMISTRY & BIOLOGY
CHEMISTRY & INDUSTRY
CHEMISTRY IN BRITAIN
CHEMISTRY LETTERS
CHEMISTRY-A EUROPEAN JOURNAL
CHEMTECH
CHIMIA
CHINESE JOURNAL OF CHEMICAL ENGINEERING
CHROMATOGRAPHIA
COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS
COLLOID AND POLYMER SCIENCE
COLLOID JOURNAL
COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS
COLOR RESEARCH AND APPLICATION
COMMENTS ON INORGANIC CHEMISTRY
COMPUTERS & CHEMICAL ENGINEERING
COMPUTERS & CHEMISTRY
COORDINATION CHEMISTRY REVIEWS
CROATICA CHIMICA ACTA
CRYSTAL RESEARCH AND TECHNOLOGY
DENKI KAGAKU
DESALINATION
DYES AND PIGMENTS
ELECTROCHIMICA ACTA
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY
EUROPEAN JOURNAL OF SOLID STATE AND INORGANIC CHEMISTRY
EUROPEAN POLYMER JOURNAL
FARADAY DISCUSSIONS
FILTRATION & SEPARATION
FLUID PHASE EQUILIBRIA
FUEL
FUEL PROCESSING TECHNOLOGY
FULLERENE SCIENCE AND TECHNOLOGY
GAS SEPARATION & PURIFICATION
GAZZETTA CHIMICA ITALIANA
HEAT TRANSFER ENGINEERING
HELVETICA CHIMICA ACTA
HETEROATOM CHEMISTRY
HETEROCYCLES
HETEROGENEOUS CHEMISTRY REVIEWS
HIGH ENERGY CHEMISTRY
HRC-JOURNAL OF HIGH RESOLUTION CHROMATOGRAPHY
HUNGARIAN JOURNAL OF INDUSTRIAL CHEMISTRY
HYDROCARBON PROCESSING
INDIAN JOURNAL OF CHEMICAL TECHNOLOGY
INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL
THEORETICAL & ANALYTICAL CHEMISTRY
INDIAN JOURNAL OF CHEMISTRY SECTION B-ORGANIC CHEMISTRY INCLUDING MEDICINAL CHEMISTRY
INDIAN JOURNAL OF HETEROCYCLIC CHEMISTRY
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH
INORGANIC CHEMISTRY
INORGANICA CHIMICA ACTA
INTERNATIONAL JOURNAL OF CHEMICAL KINETICS
INTERNATIONAL JOURNAL OF PEPTIDE AND PROTEIN RESEARCH
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY
INTERNATIONAL JOURNAL OF THERMOPHYSICS
INTERNATIONAL REVIEWS IN PHYSICAL CHEMISTRY
INZYNIERIA CHEMICALNA I PROCESOWA
ISOTOPES IN ENVIRONMENTAL AND HEALTH STUDIES
ISRAEL JOURNAL OF CHEMISTRY
IZVESTIYA VYSSHIKH UCHEBNIKH ZAVEDENII KHIMIYA I KHIMICHESKAYA TEKHOLOGIYA
JOCCA-SURFACE COATINGS INTERNATIONAL
JOURNAL DE CHIMIE PHYSIQUE ET DE PHYSICO-CHEMIE BIOLOGIQUE
JOURNAL DE PHYSIQUE II
JOURNAL FUR PRAKTISCHE CHEMIE-CHEMIKER-ZEITUNG
JOURNAL OF AOAC INTERNATIONAL
JOURNAL OF APPLIED CRYSTALLOGRAPHY
JOURNAL OF APPLIED ELECTROCHEMISTRY
JOURNAL OF APPLIED POLYMER SCIENCE
JOURNAL OF AUTOMATIC CHEMISTRY
JOURNAL OF CATALYSIS
JOURNAL OF CHEMICAL AND ENGINEERING DATA
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY
JOURNAL OF CHEMICAL EDUCATION
JOURNAL OF CHEMICAL ENGINEERING OF JAPAN
JOURNAL OF CHEMICAL INFORMATION AND COMPUTER SCIENCES
JOURNAL OF CHEMICAL PHYSICS
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JOURNAL OF MOLECULAR LIQUIDS
JOURNAL OF MOLECULAR SPECTROSCOPY
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JOURNAL OF ORGANOMETALLIC CHEMISTRY
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CHEMISTRY
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TRANSACTIONS
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TRANSACTIONS 1
JOURNAL OF THE CHEMICAL SOCIETY-PERKIN
TRANSACTIONS 2
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MOLECULAR SIMULATION
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 VESTNIK MOSKOVSKOGO UNIVERSITETA SERIYA 2
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 VYSOKOMOLEKULYARNYE SOEDINENIYA SERIYA A &
 SERIYA B
 ZEITSCHRIFT FUR ANORGANISCHE UND ALLGEMEINE
 CHEMIE
 ZEITSCHRIFT FUR KRISTALLOGRAPHIE
 ZEITSCHRIFT FUR NATURFORSCHUNG SECTION B-A
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BIO-TECHNOLOGY
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AND EXPRESSION
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BIOCHIMICA ET BIOPHYSICA ACTA-LIPIDS AND LIPID
METABOLISM
BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR BASIS
OF DISEASE
BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL
RESEARCH
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BIOMEMBRANES
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CANCER
BIOCHIMIE
BIOELECTROCHEMISTRY AND BIOENERGETICS
BIOELECTROMAGNETICS
BIOFIZIKA
BIOFOULING
BIOFUTUR
BIOGENIC AMINES
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BIOLOGY OF THE NEONATE
BIOMATERIALS
BIOMEDICAL RESEARCH
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BIOMETRICS
BIOMETRIKA
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BIOORGANICHESKAYA KHIMIYA
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CARCINOGENESIS
CARDIOVASCULAR PATHOLOGY
CARDIOVASCULAR RESEARCH
CARIES RESEARCH
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CLINICAL CHEMISTRY
CLINICAL ENDOCRINOLOGY
CLINICAL PHYSIOLOGY
CLINICAL SCIENCE
COLD SPRING HARBOR SYMPOSIA ON QUANTITATIVE BIOLOGY
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COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY B-BIOCHEMISTRY & MOLECULAR BIOLOGY
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CRITICAL REVIEWS IN BIOMEDICAL ENGINEERING
CRITICAL REVIEWS IN BIOTECHNOLOGY
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CRYOBIOLOGY
CURRENT BIOLOGY
CURRENT EYE RESEARCH
CYTOTECHNOLOGY
DIABETE & METABOLISME
DIABETES
DIABETES NUTRITION & METABOLISM
DIABETES-METABOLISM REVIEWS
DIABETOLOGIA
ELECTRO- AND MAGNETOBIOLOGY
ELECTROPHORESIS
ENDOCRINE
ENDOCRINE JOURNAL
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ENDOCRINE RESEARCH
ENDOCRINE REVIEWS
ENDOCRINOLOGIST
ENDOCRINOLOGY
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EXPERIMENTAL EYE RESEARCH
EXPERIMENTAL GERONTOLOGY
EXPERIMENTAL HEMATOLOGY
EXPERIMENTAL LUNG RESEARCH
EXPERIMENTAL ONCOLOGY
EXPERIMENTAL PHYSIOLOGY
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FLUORIDE
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HAEMOSTASIS
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HORMONE RESEARCH
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STEROIDS
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CHROMOSOME RESEARCH
CONNECTIVE TISSUE RESEARCH
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CURRENT OPINION IN GENETICS & DEVELOPMENT
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CYTOKINE
CYTOMETRY
DEVELOPMENT
DEVELOPMENT GROWTH & DIFFERENTIATION
DEVELOPMENTAL BIOLOGY
DEVELOPMENTAL DYNAMICS
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GENES & DEVELOPMENT
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HISTOPATHOLOGY
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MOLECULAR AND CELLULAR BIOLOGY
MOLECULAR AND CELLULAR PROBES
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MOLECULAR MEDICINE TODAY
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TOXICOLOGY
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SOMATIC CELL AND MOLECULAR GENETICS
STRUCTURE
TERATOGENESIS CARCINOGENESIS AND
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