

Rapport skema

Styrelsen for Forskning og Innovation
Bredgade 40
1260 København K



Styrelsen for Forskning
og Innovation
Ministeriet for Forskning, Innovation
og Videregående Uddannelser

Dato

31. marts 2013

Formålet med denne faglige rapportering er: 1) at vurdere bevillingen i forhold til ansøgningen, herunder vurdere ressourcernes anvendelse i forhold til bevillingens resultater, 2) at give mulighed for at afslutte bevillingen med godkendelse

Angiv det relevante faglige råd eller den relevante programkomite

Det Frie Forskningsråd - Natur og Univers

1. Grundoplysninger

Bevillingens titel:	DANSCATT - Danish Center for the use of Synchrotron, X-ray, and Neutron Facilities 2012 - Følgeforskning - ESRF 2012
Sagsnr. (fx 09-012345)	11-109227
Bevillingshavers navn og stilling	Professor Robert Feidenhans'l
Arbejdsplads (adresse, telefon og email)	Niels Bohr Institutet, Københavns Universitet Universitetsparken 5, bygning D 2100 København Ø Tlf.: 2875 0397 E-mail: robert@fys.ku.dk
Bevillingens hjemmeside hvis relevant	http://dancatt.ku.dk/
Virkemiddel	Instrumentcentre

2. Bevillingsperiode

Oprindelig bevillingsperiode	Fra: 1. januar 2012	Til: 31. december 2012
Seneste godkendte bevillingsperiode	Fra: 1. januar 2012	Til: 31. december 2012
Årsager til eventuelle væsentlige ændringer i bevillingsperioden		

3. Partnere/ledelse

Deltagende partnere, f.eks. universiteter, virksomheder og offentlige institutioner, herunder internationale partnere. Angiv oprindelige partnere og forklar evt. senere væsentlige ændringer i deltagerkredsens sammensætning:

Se venligst bilag 1 for en fuldstændig liste over personer der har deltaget i aktiviteter med relation til DANSCATT

Danscatts bestyrelse har følgende medlemmer:
Formand Robert Feidenhans'l, Københavns Universitet
Næstformand Kim Lefmann, Københavns Universitet
Niels Bech Christensen, Risø DTU
Michael Gajhede, Københavns Universitet
Pernille Harris, DTU
Bo Brummerstedt Iversen, Aarhus Universitet
Alfons Molenbroek, Haldor Topsøe A/S
Kell Mortensen, Københavns Universitet
Henning Friis Poulsen, Risø DTU
Søren Thirup, Aarhus Universitet

Anfør væsentlige ændringer i bevillingens ledelse, herunder personer, struktur og proces

4. Økonomi

Oprindeligt bevilget beløb (kr.)

Ekskl. overhead:

4 024 625

Inkl. overhead:

5 795 460

Eventuel tillægsbevilling (kr.)

Ekskl. overhead:

Inkl. overhead:

Forklar væsentlige afvigelser mellem budget og regnskab og i givet fald årsagerne hertil

Eventuel medfinansiering - fra arbejdssted eller anden side (kr.)

5. Kvalitativ afrapportering ved bevilling fra Det Frie Forskningsråd

Skriv i feltet herunder en kort beskrivelse af projektforløbet. Beskrivelsen skal være på ca. 2.000 anslag og indeholde:

- projektets formål (inkl. hypotese, teori, metoder og data)
- en redegørelse for eventuelle videnskabelige afvigelser fra den oprindelige projektplan samt en forklaring på disse
- en beskrivelse af de væsentligste resultater og hvordan de bidrog til realiseringen af projektets formål/ testede projektets hypoteser
- en redegørelse for eventuelle nye, videnskabelige spørgsmål projektets resultater medfører, eller om du har identificeret nye forskningsbehov i løbet af projektet.

The Danish users community of X-ray and Neutron large scale installations are organized within the instrumentcentre DANSCATT. The user community span from Biology, Chemistry, Physics, materials science to industrial applications. The main activity of DANSCATT is to facilitate access to the international large scale facilities by supporting travel where necessary. A substantial part of the funding is hence directly targeted to support travel cost.

DANSCATT is also supporting post doc and technical staff at facilities at the PSI in Switzerland, and MAX-lab in Lund in order to assure preferred access for Danish user groups to these facilities. In total 180 publications were published in 2012 with support from DANSCATT including about 18 publications in high impact journals. The access is essential for the Danish Users groups to be at the forefront of Science as also indicated by the large amount of important publications and to allow the built up of capacity and competence of the users community towards the spallation source ESS in Lund

DANSCATT organizes and structures the Danish user community and is enabling interdisciplinary project by its network activities like the annual DANSCATT meetings. These are typically attended by around 130 participants and in 2012 the meeting was held at University of Southern Denmark in Odense

Denmark is participating international facilities ESRF in Grenoble, European XFEL in Hamburg and from 2013 also the neutron facility ILL in Grenoble. The board of DANSCATT acts as a supervisory board of the Danish participation in order to maximize the impact. The DANSCATT board also interacts closely the Danish Ministry concerning issues related to the ESS.

5. Kvalitativ afrapportering ved bevilling fra Det Strategiske Forskningsråd

Rapporteres i et separat bilag med mulighed for indsættelse af figurer, mm. (max 5 sider)

Den kvalitative afrapportering bør som minimum beskrive og vurdere den gennemførte aktivitet inden for følgende områder

- Forskningsmæssige resultater
- Erhvervsinmæssige-samfundsmæssige resultater
- Forskeruddannelse
- Samarbejde, herunder tværinstitutionelt, tværdisciplinært og internationalt samarbejde

Kvantitativ afrapportering (Du anbefales for hver rubrik at afrapportere i punktopstilling)**6. Stipendier**

Ph.d.-stipendier/grader og postdocstipendier (navne, cpr-nr, arbejdsplads, antal måneder finansieret af bevillingen, nationalitet, køn (M/K))

Post doc Mark Laver (M, England), Paul Scherrer Institutet, 12 måneder

7. Publikationer affødt af det finansierede projekt**Vejledning**

Oversigten er udarbejdet i overensstemmelse med universiteternes registreringssystem for publikationer og følger samme definitioner af publikationstyper. Kun de publikationstyper, som er væsentligst for Det Frie Forskningsråd/Det Strategiske Forskningsråd, er omfattet. For hver publikationstype skal angives forfatter, titel, sideantal, evt. tidsskrift og årstal. Desuden skal der for hver publikation angives evt. publicering i Open Acces (OA), samt hvor stor andel af publikationen, der skønsmæssigt er finansieret af bevillingen i procent (X %).

Videnskabelig formidling

Artikler, peer reviewed

Se venligst bilag 2. DANSCATT har støttet med gennemsnitligt 20.000 kr. per publikation.

Artikler, ikke peer reviewed

Doktordisputatser

Ph.d.-afhandlinger

Andreas Bøggild: Characterization of Sub2p of the THO/TREX complex & Structural studies of Bacterial Toxin/Antitoxin Systems. Dept. of Molecular Biology, Aarhus University

Jakob Rostgaard Eltzholtz: Nucleation, Growth and Morphology of Nanoparticles. 01/2012, Dept. of Chemistry, Aarhus University

Lin Fengxiang: Kinetics of coarsening during annealing. DTU Physics, Technical University of Denmark

Christian Grundahl Frankær: Characterization of Metalloproteins and Biomaterials by X-ray Absorption Spectroscopy and X-ray Diffraction. DTU Chemistry, Technical University of Denmark

Yangzi He: Structural Studies of RNA helicases involved in eukaryotic pre-mRNA splicing, ribosome biogenesis, and translation initiation. Dept. of Molecular Biology, Aarhus University

Martin Høj: Nanoparticle synthesis using flame spray pyrolysis for catalysis. One step synthesis of heterogeneous catalysts. Technical University of Denmark, 2012. Supervisors Anker Degn Jensen (DTU Chemical Engineering) and Jan-Dierk Grunwaldt (Karlsruhe Institute of Technology and DTU Chemical Engineering).

Mads Ry Vogel Jørgensen: Charge Density of Magnetic Coordination Polymers. 03/2012, Dept. of Chemistry, Aarhus University

Rune Kidmose: Structural basis for the activation of human complement component C43. Dept. of Molecular Biology, Aarhus University

Line Hyltoft Kristensen: Kinetic and Structural Analyses of Jumonji C Histone Demethylases for Identification of New Inhibitors. Department of Drug Design and Pharmacology, Faculty of Health and Medical Sciences, University of Copenhagen

Mette Laursen: Cardiotonic steroids and the Na,K-ATPase – structural basis for high affinity binding and signal transduction. Dept. of Molecular Biology, Aarhus University

Morten Vesterager Madsen: Lengthening the lifetime of roll-to-roll coated polymer solar cells. DTU Energy Conversion, Technical University of Denmark

Thomas Kollin Nielsen: Nanoconfined Hydrides for Energy Storage. 10/2012, Dept. of Chemistry, Aarhus University

Line Holdt Rude: Anion substitution in metal borohydrides. 11/2012, Dept. of Chemistry, Aarhus University

Rasmus Toft-Petersen: Magnetic structures of the lithium orthophosphates and the study of the Bragg glass phase of vortex matter. DTU Physics, Technical University of Denmark

Søs Torpenholt: Understanding and predicting thermostability: galactanases as experimental model system. Supervisor Leila Lo Leggio, Dept. of Chemistry, University of Copenhagen

Thomas Tromholt: Characterization of Thin Films for Polymer Solar Cells: Stability and Response to Concentrated Light. DTU Energy Conversion, Technical University of Denmark

	Raminta Venskutonyte: Structural and Pharmacological Studies of Kainate Receptors. Department of Pharmacology and Pharmacotherapy, Faculty of Pharmaceutical Sciences, University of Copenhagen. Maria Wadsater: The Alignment and Characterization of Nanodiscs at Interfaces – a Platform for Membrane Protein Studies. Supervisor Marité Cárdenas, Dept. of Chemistry, University of Copenhagen Qiongxiao Wu: Catalytic synthesis of alcoholic fuels for transportation from syngas. Technical University of Denmark, 2012. Supervisors Anker Degn Jensen (DTU Chemical Engineering) and Jan-Dierk Grunwaldt (Karlsruhe Institute of Technology and DTU Chemical Engineering) Anna Åkesson: Evaluation of model cell systems on the interaction with nanoparticles – with focus on PAMAM dendrimers. Supervisor Marité Cárdenas, Dept. of Chemistry, University of Copenhagen
Videnskabelige bøger/antologier	
Videnskabelige rapporter	
Bidrag til bøger/antologier/rapporter	Langkilde, A.E., B. Vestergaard: Structural Characterisation of Pre-fibrillar intermediates and amyloid fibrils by small angle X-ray scattering. 2012. Amyloid Proteins: Methods and Protocols. 2nd Ed. Methods in Molecular Biology Vol. 849. Pp 137-155. Edited by Sigurdsson, E.M., Calero, M. & Gasset, M. Springer Protocols
Working papers/arbejdsrapporter/preprints	
Konferenceartikler, peer reviewed	Fengxiang, L., Y. Zhang, W. Pantleon, D.J. Jensen, Risoe International Symposium on Materials Science. Proceedings, Vol. 33, p. 217-222, 2012 Ferreira, D.D.M., A.C. Jakobsen, F.E. Christensen, B. Shortt, M. Krumrey, J. Garnæs: Development and characterization of coatings on silicon pore optics substrates for the ATHENA mission. In: SPIE Proceedings Vol 8443, 2012 Westergaard, N.J., K.K. Madsen, N.F. Brejnholt, J.E. Koglin, F.E. Christensen, M.J. Pivovarov, J.K. Vogel, NuSTAR on ground calibration I: Imaging Quality. In: SPIE proceedings Vol 8443, 2012 Wu, G.L., D.J. Jensen, Risoe International Symposium on Materials Science. Proceedings, Vol. 33, 2012, p. 365-372, 2012
Konferenceartikler, ikke peer reviewed	
Patenter, patentansøgninger	Patentansøgning på mekanisme af RSK/MSK inhibitorer (Jacob Lauwring Andersen, Poul Nissen) Patentansøgning på sarcolipin-mekanisme på sarco/endoplasmatiske retikulum Ca²⁺-ATPase (Anne Marie Lund Winther, Maiké Bublitz, Poul Nissen)
Datasæt (x hvis afleveret til Dansk Data Arkiv)	
Planlagte publikationer (angiv type)	
Anden formidling	
Fx forskningsformidlende bøger/antologier, kronikker, tv, mm	Gregers Rom Andersen: Nobelprisen i kemi 2012 - GPCR proteiner. Foredrag folkeuniversitet, AU Gregers Rom Andersen: Med røntgenbriller på opdagelse i proteinernes verden. Populærvidenskabeligt foredrag Ungdommens Naturvidenskabelige forening Anders Bank Blichfeld: Besøgsservice: 10 gymnasieelever på besøg for at lave den eksperimentelle del af deres 3. årsopgave, bl.a. bestemmelse af fluor-indholdet i tandpasta, selvantændelse-syntese af magnetiske nanopartikler og syntese af højtemperatur superledere. Aarhus Universitet, November / December 2012 Anders Bank Blichfeld: Kemishow. Herning Gymnasium, August 2012 Anders Bank Blichfeld og Espen Draht Bojesen: Besøgsservice: Gymnasieklasse fra Aabenraa Statsskole, projekt om tænder, benyttede vores udstyr til at måle pulver-røntgendiffraktion på forskellige Ta-forbindelser. Aarhus Universitet, December 2012 Martin Bremholm: Foredrag for gymnasieelever (3G). Aarhus Universitet, October 2012 Espen Draht Bojesen: Diffraction Studies. Aarhus Universitet: Visit from Aabenraa Statsskole, Denmark (approx. 15 students for 4 hours). November 2012 Mogens Christensen: Fra materie til materialer. Public talk during Science days at Aabenraa Gymnasium, Denmark. September 2012

Michael Clausen: Radiointerview om Natrium-kaliumpumpe, Radio 24syv (Michael Clausen, <http://arkiv.radio24syv.dk/video/4934489/3-planet-fra-solen-uge-17-2012>)

Emil Dedic og Ditlev Brodersen: Hvordan kontrolleres cellens nedbrydende enzymer. Biozoom, Vol. 15, Nr. 2, 2012, s. 26-28

DTU Chemistry: 72 timer der kan oplyse verden. Populærvidenskabelig artikel i DTU Avisen omhandlende Kemisks Instituts arbejde på XFELs

Simon Frølich. Besøgsservice: Gymnasieklasse på besøg og prøve TØ-undervisning Aarhus Universitet, October 2012

Simon Frølich: Nanoshow for folkeskoleelever. Grenå, Hadsten og Ry, Sep. 2012

Peter Hald: Fremtidens energikilder Folkeuniversitet in Faaborg, Denmark March 2012

Kristoffer Haldrup: Super-intens røntgenstråling -Hvad er det, og hvad kan man bruge det til? Foredrag for erhvervspraktikanter, DTU, November 2012.

Torben R. Jensen: Hydrogenopbevaring med fokus på mobile anvendelser. Energi Horsens Foundation, Horsens, Denmark February 2012

Torben R. Jensen: Hydrogensamfundet – et nyt energisystem. Gymnasielærerdag, Aarhus Universitet, Aarhus, Denmark March 2012

Sofie Kastbjerg: Hvad har chokolade, diamanter og salt til fælles? Undervisning af to klasser på Aarhus Katedralskole, Rullende Universitet, AU May 2012

Sine Larsen: What is MAX IV. Foredrag på ESS for Folketingets forskningsudvalg, Morten Østergaard og Jan Bjørklund den 27 marts 2012

Sine Larsen: The MAX IV Laboratory – a Swedish national facility in Lund LNLS Campinas den 23 oktober 2012

Kim Lefmann: Bidrag til DM's hjemmeside, <http://www.dm.dk/FaglighedOgViden/NaturvidenskabOgTeknik/Artikler/ESSSupermikroskopet.aspx>

Poul Nissen: Radiointerview om Evolution, Aarhus Studenterradio (Poul Nissen, juni 2012 - https://soundcloud.com/polaroidradio/polaroid-7-evolution?utm_source=soundcloud&utm_campaign=share&utm_medium=twitter&utm_content=https://soundcloud.com/polaroidradio/polaroid-7-evolution)

Poul Nissen: Proteinkrystallografi - og fremtidens danske virksomheder. Forskningen Døgn, Aarhus Universitet, April 2012

H F Poulsen, E M Lauridsen: X-ray diffraction contrast tomography (DCT) system, and an X-ray diffraction contrast tomography (DCT) method IPC No.: G01N23/083 Jan 12, 2012

Mette Stokkebro Schmøkel: Lecturing. Cake'n Career for PhD studerende for GSST. Foredrag for potentielt kommende ph.d.-studerende "Livet som ph.d.-studerende" Aarhus, Denmark, 2012

Azadeh Shahsavari, Elsebet O. Nielsen, Jesper L. Kristensen, Michael Gajhede, Thomas Balle og Jette S. Kastrup: Snegleprotein øger forståelsen af vigtige receptorer i hjernen. Lægemiddelforskning, Faculty of Health and Medical Sciences, University of Copenhagen

Rådgivning

Fx artikler, videnskabelige rapporter, mm.

Undervisning

Fx lærebøger, kompendier, kurser, kandidatuddannelser

DANSCATT bidrager til at en lang række studerende (se venligst bilag 1) på både bachelor-, kandidat- og Ph.d.-niveau kan deltage i måletidsrejser og foretage eksperimenter, både i forbindelse med kurser og som en del af arbejdet med deres specialer og afhandlinger

8. Andre resultater/spin off affødt af projektet

Nye samarbejder nationalt og internationalt

Nye ansøgninger, der er direkte afledt af bevillingens resultater

Ny finansiering, baseret på bevillingens resultater

Lektor Kristine Niss har modtaget en Sapere Aude, DFF-forskningsleder bevilling på 7.045 344 kr til projektet "Isomorph Jumps in the Phase Diagram Studied by Neutron Scattering". Projektet startede 1. November 2012.

Nye teknologier, metoder, processer, mv. baseret på bevillingens resultater

Nye produkter, baseret på bevillingens resultater

Nye virksomheder, baseret på bevillingens resultater

9. Formidlingsegnet sammenfatning egnet til offentliggørelse på www.fi.dk (udfyldes kun, når skemaet bruges til faglig slutrapportering)

Vejledning.

Beskriv på en enkel og forståelig måde det gennemførte forskningsprojekt på maksimum 1.000 anslag på dansk og 1.000 anslag på engelsk. Beskrivelsen vil blive offentliggjort uredigeret på Styrelsen for Forskning og Innovations hjemmeside www.fi.dk. Beskrivelsen bør tage udgangspunkt i følgende spørgsmål:

- Hvad handler dit forskningsprojekt om?
- Hvad er formålet med dit projekt?
- Har dit projekt ført til interessant ny viden?
- Hvad er de vigtigste problemstillinger i projektet?
- Hvilke spændende perspektiver ser du i dit projekt?
- Vil dit projekt kunne få en samfundsmæssig betydning?
- Fører dit projekt til nye forskningsprojekter?

Formidlingsegnet præsentation på både dansk og engelsk (se vejledning herover):

Fremtidens avancerede materialer og lægemidler vil kræve større kendskab og forståelse af materialer og biologiske systemer på nanometer og molekylær skala. Røntgen- og neutronstråling er to vigtige redskaber, som kan give os denne information. Målingerne foretages i dag ikke længere i laboratoriet, men ved store internationale forskningsfaciliteter. Apparaturet og opstillingerne er blevet så store og avancerede, at de enkelte forskergrupper ikke længere har mulighederne for selv at anskaffe dem. DANSCATT's hovedformål er at sikre danske brugergrupper adgang til de bedste faciliteter ved bl.a. at støtte målrejser til disse faciliteter. Danmark er medlem af faciliteter som ESRF i Grenoble og European XFEL i Hamborg. Desuden er Danmark medvært ved den Europæiske Spallationskilde ESS i Lund. DANSCATT sikrer den langsigtede danske kompetence inden for området, som vil give størst gennemslagskraft for danske grupper, inklusiv virksomheder, ved de nye faciliteter.

Detailed structural information on the molecular and atomic level is a prerequisite to develop new functional materials or pharmaceutical products. Synchrotron X-ray and neutron radiation are unique techniques to provide this information. The development goes in the direction of smaller source sizes, better x-ray optics, new detectors with higher efficiency and better resolution combined with advanced software analysis tools. Several laboratories do no longer have in-house structural x-ray facilities, but only rely on the access to international facilities. Dancatt ensures access and supports beamtime travels to these facilities. Denmark is a member of facilities like ESRF in Grenoble and the European XFEL in Hamburg. Furthermore, Denmark is co-hosting the ESS in Lund. Dancatt ensures the Danish qualifications in this area on a long term basis that will give Danish research groups and companies the biggest impact at these facilities.

Maks. 5 vigtigste publikationer

Andersen, C.B., M. Torvund-Jensen, M.J. Nielsen, C.L. de Oliveira, H.P. Hersleth, N.H. Andersen, J.S. Pedersen, G.R. Andersen, S.K. Moestrup; Structure of the haptoglobin-haemoglobin complex. *Nature* 2012, 489, 456-459

Artyukhin, S., M. Mostovoy, N.P. Jensen, D. Le, K. Prokes, V.G. de Paula, H.N. Bordallo, A. Maljuk, S. Landsgesell, H. Ryll, B. Klemke, S. Paegel, K. Kiefer, K. Lefmann, L.T. Kuhn, D.N. Argyriou, Solitonic lattice and Yukawa forces in the rare earth orthoferrite TbFeO₃. *Nature Materials* 2012, 11, 694-699

Jensen, K.M.Ø., M. Christensen, P. Juhas, C. Tyrsted, E.D. Bøjesen, N. Lock, S.J.L. Billinge, B.B. Iversen; Revealing

the mechanisms behind SnO₂ nanoparticle formation and growth during hydrothermal synthesis: An in situ total scattering study. *Journal of the American Chemical Society* 2012, 134, 6785–6792 [CO]

Ravnsbæk, D.B., L.H. Sørensen, Y. Filinchuk, F. Besenbacher, T.R. Jensen; Screening of Metal Borohydrides by Mechanochemistry and Diffraction. *Angewandte Chemie International Edition* 2012, 51, 3582-3586 [CO]

Tidow, H., L.R. Poulsen, A. Andreeva, M. Knudsen, K.L. Hein, C. Wiuf, M.G. Palmgren, P.A. Nissen, Bimodular mechanism of calcium control in eukaryotes. *Nature* 2012, 491, 468-472

Andre væsentlige resultater

Gem som

Reset Form

Participants in Danscatt activities 2011 (Bilag 1)

Groupleader	VIP's (professors, senior scientists etc.)	Postdocs	Ph.D. students	Students	TAP's (technicians, administrative staff etc.) and scientific assistants
Bo Brummerstedt Iversen, Dept. of Chemistry, Aarhus University	Bo Brummerstedt Iversen Henrik Birkedal Jacob Overgaard Jens-Erik Jørgensen Martin Bremholm Torben Rene Jensen Mogens Christensen	Helle Svendsen Jianli Mi Lai Chin Wu Mads R.V. Jørgensen Simon Johnsen Stephan Schein Yao Hung Tseng	Anders Blichfeld Anders Mørup Bjarne R.S. Hansen Casper Jon S. Ibsen Christoffer Tyrsted David Aarup Dmytro Korablov Elisabeth Grube Ellen Jensen Elsa Roedern Espen Bøjesen Espen Eikeland Fiona L.Bach Gansmo Hanna Leemreize Hao Yin Henrik Hellstern Jakob R. Eltzholtz Kasper Borup Kirsten M.Ø. Jensen Kristian P. Andreasen Lars Haahr Jepsen Lasse Bjerg Line Holt Rude Maja Krüger Thomsen Marie Krogsgaard	Anders C.S. Jensen Arelis S. Latourt Casper W. Andersen Cecilia Granados Miralles Henrik L. Andersen Jagoba Galatxe Velasco Kasper Møller Kevin Henriksen Mads H. Jensen Matilde Saura Peter Thygesen Ram Sarusie Regitze Aa. Malmkjær Rudi Stallbohm Steffen Pedersen Tea Søe-Knudsen Troels Christiansen Uffe Filsø Vicki Nye	Aref Mamakhel Bo Richter Britta Lundtoft Jacob Becker Marianne Sommer Payam Javadian Peter Hald

			Martin Søndergaard Mette Schmøkel Mette S. Filsø Mie Birkbak Morten Brix Ley Morten Schulz Nielsen Nanna Wahlberg Niels Bindzus Per Runge Christensen Peter Nørby Sebastian Christensen Simon Frølich Sofie Kastbjerg Solveig Madsen Thomas Kollin Nielsen Yanbin Shen		
Søren Skou Thirup, Dept. of Molecular Biology, Aarhus University	C.B.F. Andersen Ditlev E. Brodersen Gregers Rom Andersen L.B. Jenner Poul Nissen Rune Hartmann Søren Skou Thirup Thomas Boesen	A.-M. L. Winther A. Bøggild C. Olesen Frederik T. Hansen H.H. Gad H. Tidow J. Jensen Jesper B. Poulsen J.L. Andersen J.S. Johansen Kai-Tuo Wang L. Yatime M. Blaise M. Bublitiz	A.D. Lande Claus Olesen D. Mattle D. Vaicaityte E. Dedic Ewa Terczynska-Dyla G. Bajic Henriette E. Autzen H. Kristiansen J.A. Schatz-Jakobsen J.L. Gregersen J.M. Wong Kehan Xu Kira Gysel	Aljona Kotsubei Caglanur Sahin Khaled Taj Morten Jensen L.B. Rasmussen	

		M.J. Clausen Maria Garcia-Alai M. Laursen O. Hamming P. Gourdon R. Kidmose	Kristian S. Jørgensen L. Malinauskaite Maja H. Nielsen Manuela Gorgel Mateusz Dyla Mikkel Ibsen N.D. Drachmann N. Sofos O. Sitsel P.A. Paulsen P. Seweryn Piotr Siupka Sigrid T. Larsen S. Sirotkina Y. He		
Henning Friis Poulsen, DTU Physics, Technical University of Denmark	Cathrine Frandsen Dorte Juul Jensen Henning Friis Poulsen Jette Oddershede Martin Kristoffer Haldrup Martin Meedom Nielsen Morten Christensen Niels Bech Christensen Niels Hessel Andersen Søren Schmidt Yubin Zhang	Mark Laver Stefan Poulsen	Erik Brok Frederik Stöhr Jacob Larsen Lin Fengxiang Tim Brandt van Driel		Carsten Gundlach Erik Knudsen Peter K. Willendrup

Jens Wenzel Andreasen, DTU Energy Conversion, Technical University of Denmark	Anke Hagen Erik Mejdal Lauridsen Jean-Claude Grivel Jens Wenzel Andreasen Luise Theil Kuhn Poul Norby Tejs Vegge Rune Johnsen	Morten Vesterager Madsen	Ane Sælland Christiansen Arvid Böttiger Dadi Sveinbjörnsson Emil Pedersen Henrik Friis Dam Jonathan Højberg Marc Overgaard Mie Møller Storm		
Wolfgang Pantleon DTU Mechanical Engineering, Technical University of Denmark	Grethe Winther Karen Pantleon Marcel Somers Thomas Christiansen Wolfgang Pantleon		Bastian Brink Matteo Villa Ole West	Felix Thiel	Flemming Bjerg Grumsen
Kenny Ståhl, DTU Chemistry, Technical University of Denmark	Kenny Ståhl Klaus Braagaard Møller Niels Engholm Henriksen Pernille Harris	Christian Grundahl Frankær	Asmus Ougaard Dohn Jonas Andersen	Pernille Sønderby	Maria Blanner
Anker Degn Jensen, DTU Chemical Engineering, Technical University of Denmark	Anker Degn Jensen Jan-Dierk Grunwaldt	Jakob Munkholt Christensen Martin Høj Hudson Carvalho	Irek Sharafutdinov Kirsten Schuh Qiong Xiao Wu		
Finn E. Christensen, DTU Space, National Space Institute, Technical University of Denmark	Finn E. Christensen Irfan Kuvvetli	Desiree Della Monica	Anders C. Jakobsen Nicolai F. Brejnholt		

Robert Feidenhans'l, Niels Bohr Institute, University of Copenhagen	Bente Lebech Heloisa Bordallo Jens Als-Nielsen Kim Lefmann Robert Feidenhans'l	Anette Vickery Linda Udby	Astrid Tranum Rømer Henrik Jacobsen Jana Baltser Johan Jacobsen Jonas Okkels Birk Kaspar Klenø Kasper Skov Kjær Mads Bertelsen Magni Glyvradal Maria Thomsen Mikkel Schou Nielsen Morten Sales Pia Jensen Sonja Lindahl Holm Tine Straasø Tomas Stankevic Torsten Lauridsen Yun Gu	Allan Hansen Anders Bakke Ane Baden Benedict Lehnhoff Daniel Sandermann Jacob Obitsø Nielsen Niels Christian Rand Momsen Nina Rasmussen Sigrid Adersen Simas Mickevičius Turi K. Schäffer Ursula Bengård Hansen	Bente Juhl Andersen Keld Theodor Stine West
Kell Mortensen, Dept. of Natural Sciences, University of Copenhagen (from June 1, 2012, part of the Niels Bohr Institute)	Kell Mortensen Lars Øgendal Lise Arleth Steen L. Hansen	Jacob Kirkensgaard Søren Skou Nielsen Grethe Vestergaard	Achebe Nzulumike Anna Pie Jacobsen Huda Jesper Nygaard Martin Cramer Pedersen Nicholas Skar-Gislinge Selma Maric Søren Kynde Søren Roi Midtgaard		Marianne Lund Jensen
Michael Gajhede, Dept. of Drug Design and Pharmacology, University of	Bente Vestergaard Jette Sandholm Kastrup Karla Frydenvang	Annette Langkilde Christian Krintel Heidi A. Ernst Helle Hald	Andreas van Maarschalkerweerd Anja P. Larsen Ann-Beth Nørholm	Alexander Gerbola Charlotte Kristensen	

Copenhagen	Michael Gajhede Ole Kristensen Osman Mirza	Jerzy Dorosz Katrine N. Toft Line H. Kristensen Raminta Venskutonyte Sune B. Villadsen Vito Fodera	Annie Jespersen Azadeh Shahsavar Jeppe Olsen Johanne Mørch Jensen Magda Møller Martin Nors Pedersen Paola Sciortino Thomas Bielefeldt Steffensen Tina Vognsen Xinsheng Tian		
Leila Lo Leggio, Dept. of Chemistry, University of Copenhagen	Anders Kadziola Anders Ø. Madsen Henning Osholm Sørensen Høgner Weihe Jesper Bendix Juan Diego Rodriquez Blanco Karina Sand Kimmy Dalby Knud Dideriksen Leila Lo Leggio Marité Cardenas Martin Andersson Nicolas Bovet Sine Larsen Stergios Piligkos Susan L.S. Stipp	Harm Otten Dominique Tobler	Diwaker Jha Jesper Langholm Jensen Kasper S. Pedersen Kim K. Rasmussen Marc Sigrist Pernille Galberg Stig Christoffersen Tania Lind	Mikkel Agerbæk Sørensen Nicolas Bertram Silas Busck Mellor Stinne K. Nielsen	Jens-Christian Navarro Poulsen Kristian Frandsen Sepide Hakim
Alfons Molenbroek,	Alfons M. Molenbroek				Robin Christensen

Haldor Topsøe A/S	Anna M. Puig Molina Burcin Temel Kenneth Malmstrøm Larsen Lars Fahl Lundegaard Lone Bech Ton V. W. Janssens				
Monica Palcic, Carlsberg Laboratory, Biostructure Group	Monica Palcic	Jose Antonio Cuesta Seijo Lyann Sim Michael Skovbo Windahl	Marie Sofie Møller		
Dorthe Posselt, Dept. of Science, Systems and Models, Roskilde University	Bo Jacobsen Dorthe Posselt Kristine Niss Peter Westh		Lisa Roed Nicolaj Bagger		Oda Brandstrup
Beate Klösgen, Dept. of Physics and Chemistry, University of Southern Denmark	Beate Klösgen			Christian Kolle Christensen Lasse Menov Shen Chen	

List of Publications 2012 (bilag 2)

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