

# Årsberetning 2021

Sino-Danish Center for Education and Research

Københavns Universitet



# SDC

The university partnership  
Denmark – China

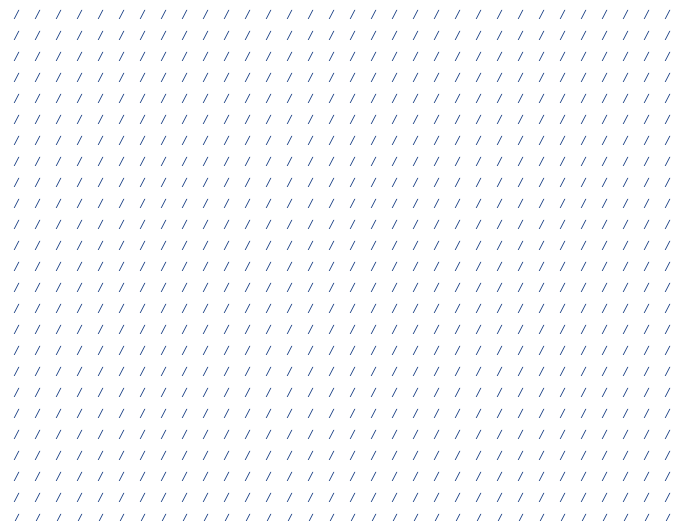
**Sino-Danish Center for Education and Research**  
Dalgas Avenue 4, 5. sal  
8000 Aarhus C

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# Indledning

## En ekstraordinær indsats

De seneste år har forskere, undervisere og studerende fra de danske universiteter udvist en helt særlig grad af initiativlyst og fleksibilitet for at styrke det dansk-kinesiske samarbejde inden for SDC, på trods af at samarbejdet har været udfordret af globale rejserestriktioner.

Studerende har investeret helhjertet i at skabe et stærkt virtuelt studiemiljø, og undviserne har ydet en enorm indsats i arbejdet med at omlægge undervisningen til online, ligesom forskningssamarbejdet mellem Danmark og Kina stadig udvikles. Antallet af videnskabelige publikationer udgivet inden for rammerne af SDC-samarbejdet er konstant stigende og kulminerede foreløbig i 2021 med knap 400 publikationer, heriblandt publikationer i førende tidsskrifter som 'Nature Communications' og 'Nature Nanotechnology'.

SDC har siden 2012 medfinansieret knap 250 ph.d.-forløb ved de danske universiteter, og i 2021 påbegyndte 21 ph.d.-studerende et forskningsforløb med finansiering fra SDC i rygsækken.

De ph.d.-studerende indgår i samarbejder mellem danske og kinesiske forskningsmiljøer på vej mod en dobbeltgrad, og det høje niveau blev understreget, da ph.d.-studerende inden for SDC Social Sciences Annesofie Lindskov i 2021 modtog Uddannelses- og Forskningsministeriets EliteForsk rejsestipendium.

At få flere danske studerende til at vælge SDC's kandidatuddannelser har fortsat høj prioritet og i 2021 iværksatte det danske SDC-sekretariat en ekstern analyse af rekrutteringsmulighederne. En rekrutterings- og markedsføringsplan, der blandt andet fokuserer på at styrke samarbejdet med de danske universiteter, er under udarbejdelse.

De seneste år har det krævet en stor indsats at sikre et stærkt og velfungerende studiemiljø for SDC's danske og kinesiske studerende. SDC's pædagogiske enhed SMIL (Study Milieu and Intercultural Learning), der er forankret ved Roskilde Universitet, har derfor arbejdet fokuseret på at skabe 'det gode studiemiljø fra optagelse til dimission', og årets studiemiljøundersøgelse viser, at de mange initiativer har ramt plet.

På UCAS' Yanqihu campus i Beijing er SDC's bygning færdiggjort og står nu klar til atter at danne rammen om SDC's mange aktiviteter. SDC har opbygget en stærk vidensbank, når det kommer til samarbejde mellem kinesiske og vestlige institutioner, og samarbejde med erhvervslivet rækker langt udover forskning og uddannelse.

Det tætte samarbejde med danske repræsentationer og virksomheder i Kina blev understreget, da SDC sammen med den danske ambassade i Kina, Det Danske Handelskammer i Kina og Danish-Chinese Business Forum lancerede et nyt redskab til forskere, erhvervsfolk og andre med interesse i det kinesiske marked. Den første udgave af 'Danish Business Outlook on China Index' udkom i januar 2021, og indexet giver indsigt i tendenser inden for en række brancher som energi, life science og fødevarer. Indexet udkommer nu hvert kvartal.

I den danske SDC-bestyrelse afløste prodekan for international uddannelse ved CBS Martin Jes Iversen sin kollega Dana Minbaeva, mens dekan for Natural Sciences ved Aarhus Universitet Kristian Pedersen overtog pladsen efter Lars Bo Nielsen, der skiftede til en stilling som direktør for Lægemedelstyrelsen.



Årgang 2021 på seminar med fokus på interkulturelt samarbejde og netværk.



# Årsregnskab

Resultatopgørelse (DKK 1.000)	2021	2020
<b>Indtægter</b>		
Tilskud fra Uddannelses- og Forskningsministeriet	30.388	34.389
Tilskud fra universiteterne	30.600	30.300
<b>Indtægter i alt</b>	<b>60.988</b>	<b>64.689</b>
<b>Udgifter</b>		
<b>Det danske SDC-sekretariat</b>		
Personaleomkostninger	7.170	7.957
Driftsomkostninger	1.231	1.623
<b>I alt</b>	<b>8.401</b>	<b>9.580</b>
<b>Faglige aktiviteter</b>		
Uddannelsesprogrammer og faglige aktiviteter	19.047	14.898
Ph.d.-medfinansiering	36.208	30.147
<b>I alt</b>	<b>55.255</b>	<b>45.045</b>
<b>Industriens Fonds Hus</b>	<b>4.623</b>	<b>94</b>
<b>Andre omkostninger</b>	<b>945</b>	<b>1.053</b>
<b>Udgifter i alt</b>	<b>69.224</b>	<b>55.772</b>
<b>Årets resultat</b>	<b>-8.236</b>	<b>8.917</b>
<b>Indestående midler ved AU</b>	<b>56.934</b>	<b>65.170</b>

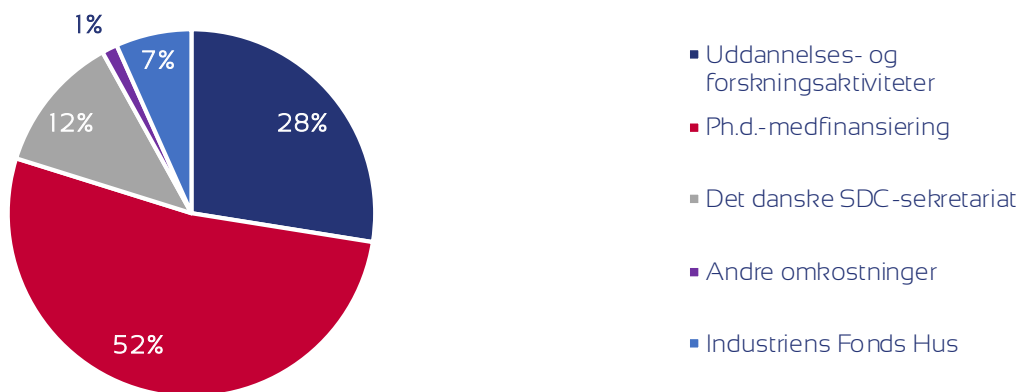
# Økonomi

Fra dansk side er SDC finansieret af Uddannelses- og Forskningsministeriet og de danske universiteter. De otte universiteters tilskud beregnes forholdsmæssigt efter omsætning. Udbetalingerne fra SDC til de danske universiteter dækker over ph.d.-medfinansiering samt kompensation for uddannelses- og forskningsaktiviteter i Kina, uddannelsesaktiviteter i Danmark m.m.

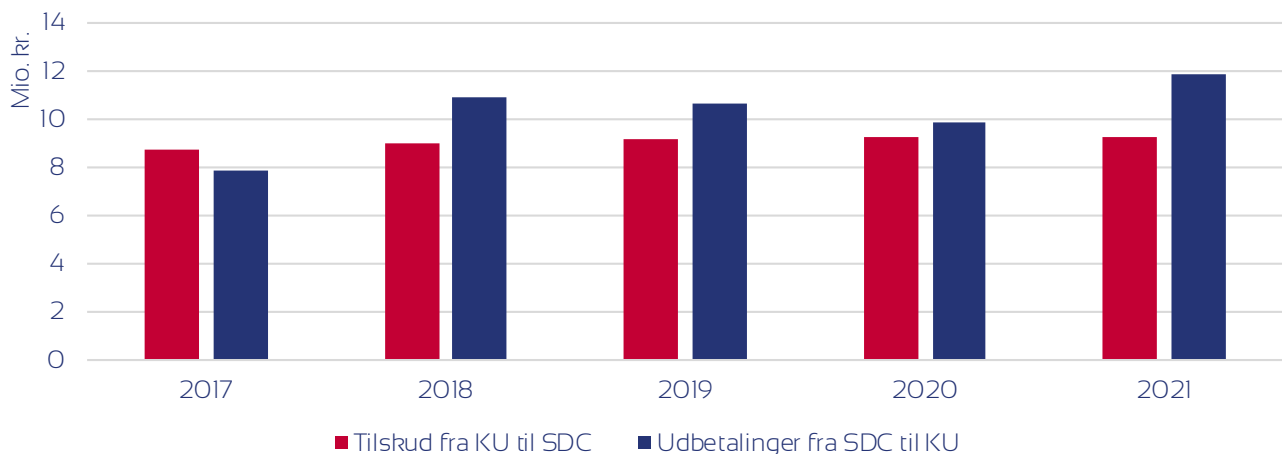
### Indtægter 2021 - 61 mio. kr.



### Udgifter 2021 - 69 mio. kr.



### Københavns Universitet - tilskud og udbetalinger





# Uddannelse

SDC udbyder otte kandidatuddannelser. På hver uddannelse kan optages 15 studerende via de danske universiteter og 15 studerende via University of Chinese Academy of Sciences. Uddannelserne 'Water and Environment' og 'Nanoscience and Technology' er forankrede på Københavns Universitet. Optaget af studerende til de otte kandidatuddannelser er et fælles anliggende, hvor alle universiteter rekrutterer studerende til SDC's kandidatuddannelser.

Siden 2012 er 87 studerende med en bacheloruddannelse fra Københavns Universitet optaget på en af SDC's kandidatuddannelser. I 2021 blev otte studerende fra Københavns Universitet optaget.

## Optagne 2021 fordelt efter institution og kandidatuddannelse ved SDC

Institutionerne angiver, hvorfra de studerende har deres adgangsgivende bacheloruddannelse

	Neuroscience and Neuroimaging	International Food Quality and Health**	Water and Environment	Nanoscience and Technology	Chemical and Biochemical Engineering	Life Science Engineering and Informatics	Public Management and Social Development	Innovation Management	Total
<b>Københavns Universitet</b>				<b>3</b>			<b>4</b>	<b>1</b>	<b>8</b>
Aarhus Universitet	3						2	2	7
Aalborg Universitet	1							5	6
Syddansk Universitet								4	4
Andre danske institutioner*		4							4
Udenlandske institutioner	2	1	1		1		1	2	8
<b>Total</b>	<b>6</b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>7</b>	<b>14</b>	<b>37</b>

\* VIA University College og Business Academy Aarhus

\*\* De første studerende blev optaget på 'International Food Quality and Health' i 2020.

## Optagne 2017-2021 med en bacheloruddannelse fra Københavns Universitet

	Neuroscience and Neuroimaging	International Food Quality and Health	Water and Environment	Nanoscience and Technology	Chemical and Biochemical Engineering	Life Science Engineering and Informatics	Public Management and Social Development	Innovation Management	Total
2017	1		4	7		1	3	1	17
2018	2			3			5		10
2019	1			5					6
2020	1			1			1		3
2021				3			4	1	8
<b>Total</b>	<b>5</b>	<b>0</b>	<b>4</b>	<b>19</b>	<b>0</b>	<b>1</b>	<b>13</b>	<b>2</b>	<b>44</b>



# Ph.d.-studerende

## Nyindskrevne ph.d.-studerende

SDC medfinansierede i 2021 21 ph.d.-studerende, der begyndte et forløb ved de danske universiteter.

### Aarhus Universitet

#### Food and Health

Glenn Hjort Andersen  
Line Pedersen

#### Life Sciences

Mathias Klarlund  
Ole Borup Svendsen

### Copenhagen Business School

#### Social Sciences

Armin Scheer

### Danmarks Tekniske Universitet

#### Sustainable Energy

Amalie Vang Høst  
Diletta Damiano  
Elisabeth Andreae  
Jakob Meister  
Peter Jul-Rasmussen  
Sara Müller

#### Life Sciences

Magnus Haraldson Høie

#### Water and Environment

Zhiming He

### Københavns Universitet

#### Food and Health

Claudia Squarzon

#### Nanoscience

Christina Schöttler Nielsen  
Freja Liebach Guttesen

#### Water and Environment

Mia Staal Jensen

### Syddansk Universitet

#### Sustainable Energy

Nicolai Bo Vanting

#### Life Sciences

Kamilla Ankær Brejndal

### Aalborg Universitet

#### Social Sciences

Giovanni Giamello  
Moumita Sen Gupta

## Indskrevne ph.d.-studerende ved Københavns Universitet

Pr. 31. december 2021 var 20 ph.d.-studerende ved Københavns Universitet medfinansieret af SDC.

#### Food and Health

Andrea Bruno Landi  
Claudia Squarzon  
Kristian Thamsborg  
Navodita Malle  
Vera Irene Erickson

#### Water and Environment

Ann-Sofie Gimlinge  
Glenna E. Thomas  
Jonathan Hessner  
Mia Staal Jensen  
Søren Gjedde Sommer

#### Nanoscience

Alexandros Vekris  
Christina Schöttler Nielsen  
Freja Liebach Guttesen  
Magnus August Ravn Harding  
Nikolaj Korre Brinkenfeldt

#### Life Sciences

Jacob Mathias Bech  
Jannik Nicklas Eliassen  
Jefferson Novaes Gomes  
Luciano de Oliveira Souza

#### Social Sciences

Alexander Chen



# Forskere og undervisere

I 2021 har 56 ansatte ved Københavns Universitet bidraget til de faglige aktiviteter ved SDC.

## Nanoscience

Professor Per Hedegård  
Professor Bo Wegge Laursen  
Professor Camilla Foged  
Professor Hanne Mørck Nielsen  
Professor Jan Rossmeisl  
Professor Jesper Nygård  
Professor Kasper Hornbæk  
Professor Knud Jørgen Jensen  
Professor Mogens Brøndsted Nielsen  
Professor Morten Peter Meldal  
Lektor Kasper Grove-Rasmussen  
Lektor Tue Hassenkam  
Lektor Anan Yaghmur  
Lektor Karen Martinez  
Lektor Kirsten Marie Ørnsbjerg Jensen  
Lektor Nikos Hatzakis  
Lektor Thomas Just Sørensen

## Food and Health

Professor Dennis Sandris Nielsen  
Professor Christian Mølgaard  
Professor Inge Tetens  
Professor Jørgen Dejgård Jensen  
Professor Lars Erik Larsen  
Professor Susanne Bügel  
Professor Hans Chr. Bruun Hansen  
Professor Lisbeth E. Knudsen  
Professor Anders Dalsgaard  
Professor emeritus Anders Sjödin  
Lektor Faidon Magkos  
Lektor Jørgen Leisner  
Lektor Nanna Roos  
Lektor Nina Geiker  
Lektor Wesley Dean  
Ph.d.-studerende Cassandra Maya

## Life Sciences

Professor José Moreira  
Professor Jesper Velgaard Olsen  
Professor Lene Juel Rasmussen  
Professor Peter Brodersen  
Professor Thomas Gilbert  
Lektor Anke Ninija Karabanov  
Lektor Bent Petersen  
Lektor David Woldbye  
Lektor Kristi Anne Kohlmeier  
Lektor René Lametsch  
Gæsteforsker Jens Midtgaard

## Water and Environment

Professor Fulai Liu  
Professor Hans Chr. Bruun Hansen  
Professor Helle Tegner Anker  
Professor Peter E. Holm  
Professor Anders Priemé  
Lektor Kristian Koefoed Brandt  
Lektor Peter Stubkjær Andersen  
Lektor Flemming Ekelund  
Adjunkt Mark Taylor Randall  
Ph.d.-studerende Li Liu

## Social Sciences

Lektor Wen Xiang  
Gæsteforsker Sarah Christine Swider

# Publikationer

I 2021 er der udgivet 375 videnskabelige publikationer inden for rammerne af SDC. Nedenstående oversigt er baseret på søgninger i Web of Science samt Scopus.

## Sustainable Energy

Ashrafi Niaki S.H., Chen Z., Bak-Jensen B., Sharifabadi K., Liu Z., Hu S. / On systematic DC fault-ride-through of multi-terminal MMC-HVDC grids, 2021, 56th international universities power engineering conference (upec 2021)

Bai R., Wang J., Wang D., Zhang Y., Cui J. / Selective separation of lithium from the high magnesium brine by the extraction system containing phosphate-based ionic liquids, 2021, Separation and Purification Technology, vol 274

Chang F., Zhan G., Wu Z., Duan Y., Shi S., Zeng S., Zhang X., Zhang S. / Technoeconomic Analysis and Process Design for CO<sub>2</sub> Electroreduction to CO in Ionic Liquid Electrolyte, 2021, ACS Sustainable Chemistry and Engineering, vol 9, pp. 9045-9052

Chang F., Zhang X., Zhan G., Duan Y., Zhang S. / Review of Methods for Sustainability Assessment of Chemical Engineering Processes, 2021, Industrial and Engineering Chemistry Research, vol 60, pp. 52-66

Chen J., Wang H., Deng L., Wang H., Li Z. / Synthesis, characterization, and application of metal-free acidic ionic liquids as catalysts for oligomerization of isobutene, 2021, Fuel, vol 299

Chen X., Wang L., Zhang C., Tu W., Cao Y., He P., Li J., Li H. / The effective and stable Cu-C@SiO<sub>2</sub> catalyst for the syntheses of methanol and ethylene glycol via selective hydrogenation of ethylene carbonate, 2021, International Journal of Hydrogen Energy, vol 46, pp. 17209-17220

Chen Y., Du L., Li S., Song W., Jensen P.A., Lin W. / Pyrolysis of antibiotic mycelial dreg and characterization of obtained gas, liquid and biochar, 2021, Journal of Hazardous Materials, vol 402

Chen Y., Lin W., Wu H., Jensen P.A., Song W., Du L., Li S. / Steam gasification of char derived from penicillin mycelial dreg and lignocellulosic biomass: Influence of P, K and Ca on char reactivity, 2021, Energy, vol 228

Cui L., Fan Y., Li S., Bai R., Guo Y., Cheng F. / Research progress on the theory and new technology for separation of lithium isotopes by chemical exchange, 2021, Huagong Xuebao/CIESC Journal, vol 72, pp. 3215-3227

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Du Z., Cai M., Du L., Huang B., Cao Z., Yu D., Lin M.C. / Effect of alkylthiolated hetero-aromatic rings on the photovoltaic performance of benzodithiophene-based polymer/fullerene solar cells, 2021, Synthetic Metals, vol 276

Duan T., Wu Y., Yang K., Oh J., Yang C., Chen S., Zhong C., Yu D., Zhao Y., Lu S. / Significantly enhanced thermal stability from a new kind of n-type organic semiconductor DFA4: a fully fused F8IC, 2021, Journal of Materials Chemistry C, vol 9, pp. 13625-13629

Enekvist M., Liang X., Zhang X., Dam-Johansen K., Kontogeorgis G.M. / Estimating Hansen solubility parameters of organic pigments by group contribution methods, 2021, Chinese Journal of Chemical Engineering, vol 31, pp. 186-197

Fan Q., Ma R., Liu T., Yu J., Xiao Y., Su W., Cai G., Li Y., Peng W., Guo T., Luo Z., Sun H., Hou L., Zhu W., Lu X., Gao F., Moons E., Yu D., Yan H., Wang E. / High-performance all-polymer solar cells enabled by a novel low bandgap non-fully conjugated polymer acceptor, 2021, Science China Chemistry, vol 64, pp. 1380-1388

Fatras N., Ma Z., Jørgensen B.N. / Industrial consumers' electricity market participation options: a case study of an industrial cooling process in Denmark, 2021, *Energy Informatics*, vol 4

Fatras N., Ma Z., Jørgensen B.N. / System architecture modelling framework applied to the integration of electric vehicles in the grid, 2021, *Advances in Intelligent Systems and Computing*, vol 1242 AISC, pp. 205-209

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Han Q.Q., Fu Y., Le J.M., Pilot A., Cheng S., Chen P.Q., Wu H., Wan G.Q., Gu X.F. / Electroacupuncture may alleviate behavioral defects via modulation of gut microbiota in a mouse model of Parkinson's disease, 2021, *Acupuncture in Medicine*, vol 39, pp. 501-511

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Huang Z., Zhou R., Lv M., Zhang H., Yang C., Shi Y., Tang Y., Zhang J., Lu K., Wei Z. / Constructing high efficiency non-fullerene all-small-molecule ternary organic solar cells by employing structurally similar acceptors, 2021, *Materials Chemistry Frontiers*, vol 5, pp. 1405-1409

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Li J., Zhao H. / Multi-objective optimization and performance assessments of an integrated energy system based on fuel, wind and solar energies, 2021, *Entropy*, vol 23

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Pudi A., Karcz A.P., Dickson R., Zhang S., Mansouri S.S., Andersson M.P. / Towards a Rational, Quantum-Chemistry-Based Selection and Screening of Green Solvents for Liquid-Liquid Phase Transfer Catalysis, 2021, *Computer Aided Chemical Engineering*, vol 50, pp. 1593-1598

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**John Renner Hansen**  
Særlig rådgiver for rektor

Medlem af den danske  
SDC-bestyrelse



**Peter Englund Holm**  
Professor, Institut for Plante-  
og Miljøvidenskab

Principal Coordinator, Water  
and Environment, SDC



**Kristian Koefoed Brandt**  
Lektor, Institut for Plante- og  
Miljøvidenskab

Head of Educational  
Programme, Water and  
Environment, SDC



**Per Hedegård**  
Professor, Niels Bohr Institutet

Head of Educational  
Programme, Nanoscience and  
Technology, SDC

