

Årsberetning 2021

Sino-Danish Center for Education and Research

Uddannelses- og Forskningsministeriet



SDC

The university partnership
Denmark – China

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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 underviserne 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 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**

Indtægter

Tilskud fra Uddannelses- og Forskningsministeriet

30.388

34.389

Tilskud fra universiteterne

30.600

30.300

Indtægter i alt

60.988**64.689**

Udgifter

Det danske SDC-sekretariat

Personaleomkostninger

7.170

7.957

Driftsomkostninger

1.231

1.623

I alt**8.401****9.580**

Faglige aktiviteter

Uddannelsesprogrammer og faglige aktiviteter

19.047

14.898

Ph.d.-medfinansiering

36.208

30.147

I alt**55.255****45.045**

Industriens Fonds Hus

4.623**94**

Andre omkostninger

945**1.053**

Udgifter i alt

69.224**55.772**

Årets resultat

-8.236**8.917**

Indestående midler ved AU

56.934**65.170**

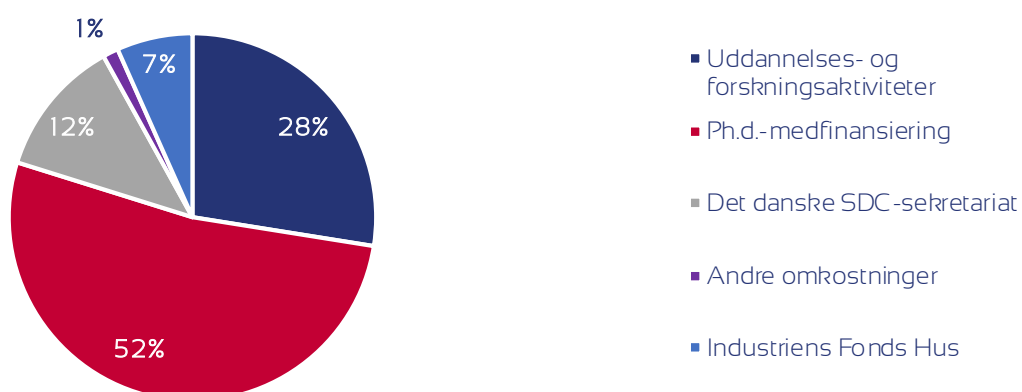
Økonomi

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.





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. Optaget af studerende til de otte kandidatuddannelser er et fælles anliggende, hvor alle universiteter rekrutterer studerende til SDC's kandidatuddannelser.

Siden 2012 er 402 studerende med en bacheloruddannelse fra et af de danske universiteter optaget på en af SDC's kandidatuddannelser. I 2021 blev 25 studerende fra de danske universiteter 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
Aarhus Universitet	3						2	2	7
Københavns Universitet				3			4	1	8
Aalborg Universitet	1							5	6
Syddansk Universitet								4	4
Andre danske institutioner*		4							4
Udenlandske institutioner	2	1	1		1		1	2	8
Total	6	5	1	3	1	0	7	14	37

* VIA University College og Business Academy Aarhus

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

Optagne via de danske universiteter 2017-2021

	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	8		7	9	2	5	12	12	55
2018	9		4	3	2	2	13	14	47
2019	10		4	5	6	4	14	11	54
2020	8	2		1		3	10	12	36
2021	6	5	1	3	1		7	14	37
Total	41	7	16	21	11	14	56	63	229

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 de danske universiteter

Pr. 31. december 2021 var 114 ph.d.-studerende ved de danske universiteter medfinansieret af SDC.

Life Sciences

29 ph.d.-studerende fordelt på AU, DTU, KU, SDU og AAU.

Sustainable Energy

24 ph.d.-studerende fordelt på DTU, SDU og AAU.

Social Sciences

20 ph.d.-studerende fordelt på CBS, DTU, KU, RUC og AAU.

Water and Environment

15 ph.d.-studerende fordelt på AU, DTU og KU.

Nanoscience

14 ph.d.-studerende fordelt på AU og KU.

Food and Health

11 ph.d.-studerende fordelt på AU og KU.

Andre forskningsområder

1 ph.d.-studerende på RUC.



Forskere og undervisere

I 2021 har 266 ansatte ved de danske universiteter bidraget til de faglige aktiviteter ved SDC.

Undervisere og forskere fordelt på universiteter og SDC's forskningsområder

	Water and Environment	Sustainable Energy	Nanoscience	Life Sciences	Food and Health	Social Sciences	Total
Aarhus Universitet	18		16	27	10	7	78
Københavns Universitet	10		17	11	16	2	56
Aalborg Universitet		1	1	7		19	28
Copenhagen Business School				1		21	22
Roskilde Universitet						5	5
Syddansk Universitet	1	1		9		2	13
Danmarks Tekniske Universitet	9	33	2	16	2	2	64
Total	38	35	36	71	28	58	266

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 CO₂ 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@SiO₂ 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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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

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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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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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Krum K., Patil R., Christensen H., Hashemi H., Wang Z., Li S., Glarborg P., Wu H. / Kinetic modeling of urea decomposition and byproduct formation, 2021, *Chemical Engineering Science*, vol 230

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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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Life Sciences

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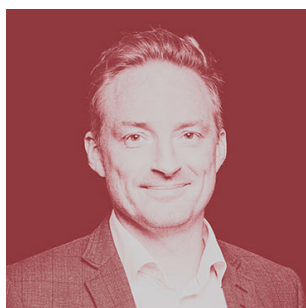
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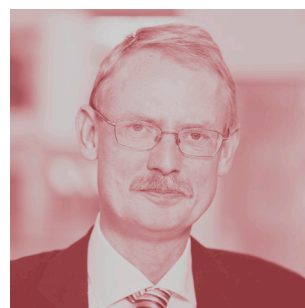
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