

Systematic search for literature on leadership in Nordic kindergartens

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About the search

This literature search is focusing on Systemic Leadership in Nordic kindergartens. We have focused on peer reviewed journal articles only. Information from textbooks or anthologies are not included. A systematic search was completed and published in Mordal, S., Dyrstad, K., Reinertsen, R. E. (2014). *Ledelse i barnehage og skole. En kunnskapsoversikt* (Vol. A26525, p 68). SINTEF Helse. Our literature search is therefore limited to the time period 2014 – 2020.

Journals publishing peer reviewed articles are indexed in bibliographic reference databases. We have selected databases covering the fields of Early Childhood Education and care and/or Leadership. The databases we chose are designed to allow our searches to be documented, transparent and reproducible. We used the preplanned search (figure 1) and adapted the subject headings/subject terms to each database' thesaurus. The textwords used are the same in all databases.

We developed a literature search consisting of three elements:

- Kindergarten
- Systemic leadership
- A Nordic setting

We combined the three elements with AND, demanding that all elements were present.

Knowing that not all relevant articles will be written in English, we developed a simpler search consisting of Scandinavian textwords. Assuming that articles found by these search terms would most likely imply a Nordic setting, we only required the first and second element to be present in these hits. Also we made the second element "Systemic leadership" more general to "Leadership" – hoping not to miss out on any relevant articles.

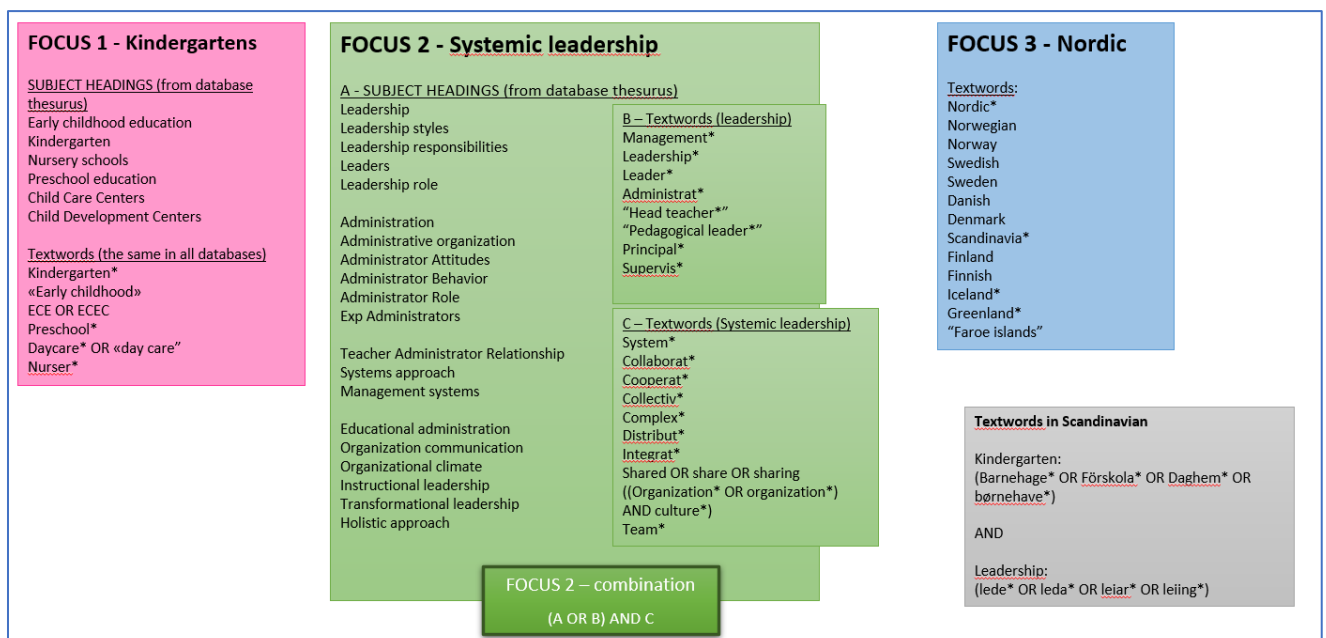


Figure 1

ERIC (EBSCO)

Tuesday, May 05, 2020 5:57:44 AM

#	Query	Results
S20	S13 AND S17 (limited to 2014-2020)	56
S19	S13 AND S17	175
S18	S14 AND S17	0
S17	S3 AND S16	6,543
S16	S12 AND S15	138,297
S15	S4 OR S5 OR S6 OR S7 OR S8 OR S9	317,995
S14	(barnehage* OR Förskola* OR Daghem* OR børnehave*) AND (lede* OR leda*)	0
S13	TX Nordic* OR Norwegian OR Norway OR Swedish OR Sweden OR Finnish OR Finland OR Denmark OR Danish OR Scandinavia* OR Iceland* OR Greenland* OR "Faroe islands"	23,966
S12	S10 OR S11	529,738
S11	TI ((organization* OR organisation*) aND culture*) OR AB ((organization* OR organisation*) aND culture*) OR KW ((organization* OR organisation*) aND culture*)	7,735
S10	TI (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*) OR AB (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*) OR KW (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*)	526,102
S9	TI (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher*" OR "Pedagogical leader*" OR principal* OR supervis*) OR AB (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher*" OR "Pedagogical leader*" OR principal* OR supervis*) OR KW (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher" OR "Pedagogical leader*" OR principal* OR supervis*)	279,431
S8	DE ("educational administration" OR "organization communication" OR "organizational climate" OR "Instructional leadership" OR "transformational leadership" OR "Holistic approach")	35,463
S7	DE ("Teacher Administrator Relationship" OR "Systems approach" OR "Management systems")	17,488
S6	DE "Administrators" OR DE "Admissions Officers" OR DE "Assistant Principals" OR DE "Beginning Principals" OR DE "Central Office Administrators" OR DE "Coordinators" OR DE "Deans" OR DE "Department Heads" OR DE "Ombudsmen" OR DE "Personnel	50,409

	Directors" OR DE "Presidents" OR DE "Principals" OR DE "Registrars (School)" OR DE "Research Directors" OR DE "School Business Officials" OR DE "Student Financial Aid Officers" OR DE "Superintendents" OR DE "Supervisors" OR DE "Trustees" OR DE "Vocational Directors" OR DE "Women Administrators"	
S5	DE (Administration OR "Administrative organization" OR "Administrator attitudes" OR "Administrator Behavior" OR "Administrator Role")	42,748
S4	DE (Leadership OR "Leadership styles" OR "Leadership responsibilities" OR Leaders OR "Leadership role")	20,062
S3	S1 OR S2	99,836
S2	TI (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*) OR AB (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*) OR KW (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*)	70,122
S1	DE "early childhood education" OR kindergarten OR "nursery schools" OR "preschool education" OR "child care centers" OR "child development centers"	84,430

Business Source Ultimate (EBSCO)

Tuesday, May 05, 2020 6:30:54 AM

#	Query	Limiters/Expanders	Results
S19	S6 AND S16	Limiters - Published Date: 20140101-20201231 Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	24
S18	S6 AND S16	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	60
S17	S7 AND S16	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	0
S16	S14 AND S15	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	520
S15	S5 AND S13	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	710,537
S14	S1 OR S8	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	18,397
S13	S2 OR S10 OR S11 OR S12	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	2,761,358
S12	DE "ORGANIZATION" OR DE "INDUSTRIAL organization (Management)" OR DE "LINE & staff organization" OR DE "MATRIX organization" OR DE "ORGANIZATIONAL centralization" OR DE "ORGANIZATIONAL change" OR DE "ORGANIZATIONAL effectiveness" OR DE "ORGANIZATIONAL response" OR DE "ORGANIZATIONAL structure" OR DE "PLANNING" OR DE "RESOURCE allocation" OR DE	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	115,224

	"SECRETARIATS" OR DE "SYMBOLISM in organizations"		
S11	DE "MANAGEMENT" OR DE "AIRLINE management" OR DE "AIRPORT management" OR DE "ASSOCIATION management" OR DE "BANK management" OR DE "BOOK industry management" OR DE "BUSINESS" OR DE "BUSINESS cycle management" OR DE "BUSINESS logistics management" OR DE "BUSINESS negotiation" OR DE "CAMP management" OR DE "CLUB management" OR DE "COMMAND & control systems" OR DE "COMMUNICATION in management" OR DE "COMPARATIVE management" OR DE "COMPUTER programming management" OR DE "CONFLICT management" OR DE "CORPORATE flight department management" OR DE "EMERGENCY management" OR DE "ENVIRONMENTAL management" OR DE "EXECUTIVES" OR DE "FACILITY management" OR DE "FARM management" OR DE "FINANCE departments" OR DE "FOOD industry management" OR DE "FOOD service management" OR DE "HOSPITAL administration" OR DE "HOSPITALITY industry management" OR DE "INDUSTRIAL management" OR DE "INFORMATION resources management" OR DE "INTERACTIVE management" OR DE "KENNEL management" OR DE "KNOWLEDGE management" OR DE "LABOR unions & management" OR DE "LIBRARY administration" OR DE "LINE & staff organization" OR DE "MANAGEMENT gap" OR DE "MANAGEMENT science" OR DE "MANAGEMENT styles" OR DE "MANAGERIAL economics" OR DE "MANAGERIALISM" OR DE "MARKETING management" OR DE "MISMANAGEMENT" OR DE "MOTEL management" OR DE "MULTIMEDIA systems in management" OR DE "OFFICE management" OR DE "ORGANIZATIONAL behavior" OR DE "ORGANIZATIONAL change" OR DE "ORGANIZATIONAL effectiveness" OR DE "PERSONAL information management" OR DE "PERSONNEL management" OR DE "PLANNING" OR DE "PLATING shop management" OR DE "PRIVATE trucking fleets -- Management" OR DE "PROBLEM solving" OR	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	914,954

	DE "PROJECT management" OR DE "PUBLIC administration" OR DE "REAL estate management" OR DE "RESOURCE allocation" OR DE "RESOURCE management" OR DE "RESTAURANT management" OR DE "RETAIL store management" OR DE "REVENUE management" OR DE "RISK management in business" OR DE "SCHOOL administration" OR DE "SCHOOL lunchrooms, cafeterias, etc. -- Management" OR DE "SECRETARIATS" OR DE "SOCIAL sciences & management" OR DE "STANDARD operating procedure" OR DE "STRATEGIC enterprise management" OR DE "SUPERVISION" OR DE "SUPPLIER relationship management" OR DE "SUPPORT services (Management)" OR DE "TELEVISION in management" OR DE "TOURISM management" OR DE "VIRTUAL reality in management" OR DE "WORK measurement" OR DE "WORKFLOW"		
S10	SU Executives OR "executives' attitudes" OR leaders OR Leadership OR "Organizational behavior" OR "Corporate culture" OR "Teams in workplace"	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	943,906
S9	S1 OR S8	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	18,397
S8	SU "Child care services" OR "daycare centers"	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	1,772
S7	(barnehage* OR Förskola* OR Daghem* OR børnehage*) AND (lede* OR leda*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	0
S6	TX Nordic* OR Norwegian OR Norway OR Swedish OR Sweden OR Finnish OR Finland OR Denmark OR Danish OR Scandinavia* OR Iceland* OR Greenland* OR "Faroe islands"	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	846,992
S5	S3 OR S4	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	3,320,132
S4	TI ((organization* OR organisation*) AND culture*) OR AB ((organization* OR	Expanders - Apply equivalent subjects	27,605

	organisation*) aND culture*) OR KW ((organization* OR organisation*) AND culture*)	Search modes - Boolean/Phrase	
S3	TI (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*) OR AB (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*) OR KW (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	3,304,296
S2	TI (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher*" OR "Pedagogical leader*" OR principal* OR supervis*) OR AB (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher*" OR "Pedagogical leader*" OR principal* OR supervis*) OR KW (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher" OR "Pedagogical leader*" OR principal* OR supervis*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	1,896,142
S1	TI (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*) OR AB (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*) OR KW (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	17,388

Academic Search Ultimate (EBSCO)

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#	Query	Limiters/Expanders	Results
S16	S12 AND S15	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	100
S15	TI (Nordic* OR Norwegian OR Norway OR Swedish OR Sweden OR Finnish OR Finland OR Denmark OR Danish OR Scandinavia* OR Iceland* OR Greenland* OR "Faroe islands") OR	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	267,693

	AB (Nordic* OR Norwegian OR Norway OR Swedish OR Sweden OR Finnish OR Finland OR Denmark OR Danish OR Scandinavia* OR Iceland* OR Greenland* OR "Faroe islands") OR KW (Nordic* OR Norwegian OR Norway OR Swedish OR Sweden OR Finnish OR Finland OR Denmark OR Danish OR Scandinavia* OR Iceland* OR Greenland* OR "Faroe islands")		
S14	S6 AND S12	Limiters - Published Date: 20140101-20201231 Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	196
S13	S6 AND S12	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	362
S12	S10 AND S11	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	3,066
S11	(S2 OR S8) AND (S3 OR S4 OR S9)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	839,337
S10	S1 OR S7	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	111,276
S9	SU "Teams in the workplace"	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	9,594
S8	SU (Management OR Leaders OR Leadership OR "Organization management" OR "Teacher participation in administration")	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	606,280
S7	SU (kindergarten OR "Early childhood education" OR "Preschool administration" OR "Preschool children" OR "Preschool education" OR "Day care centers")	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	27,933
S6	TX Nordic* OR Norwegian OR Norway OR Swedish OR Sweden OR Finnish OR Finland OR	Expanders - Apply equivalent subjects	1,832,844

	Denmark OR Danish OR Scandinavia* OR Iceland* OR Greenland* OR "Faroe islands"	Search modes - Boolean/Phrase	
S5	S3 OR S4	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	7,725,876
S4	TI ((organization* OR organisation*) aND culture*) OR AB ((organization* OR organisation*) AND culture*) OR KW ((organization* OR organisation*) AND culture*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	26,768
S3	TI (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*) OR KW (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*) OR AB (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	7,711,737
S2	TI (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher*" OR "Pedagogical leader*" OR principal* OR supervis*) OR AB (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher*" OR "Pedagogical leader*" OR principal* OR supervis*) OR KW (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher" OR "Pedagogical leader*" OR principal* OR supervis*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	2,402,003
S1	TI (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*) OR AB (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*) OR KW (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	106,448

Teacher reference center (EBSCO)

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#	Query	Limiters/Expanders	Results
S11	S6 AND S9	Limiters - Published Date: 20140101-20181231 Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	5
S10	S6 AND S9	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	8
S9	S1 AND S8	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	287
S8	S2 AND S5	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	26,901
S7	(barnehage* OR Förskola* OR Daghem* OR børnehave*) AND (lede* OR leda*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	0
S6	TX Nordic* OR Norwegian OR Norway OR Swedish OR Sweden OR Finnish OR Finland OR Denmark OR Danish OR Scandinavia* OR Iceland* OR Greenland* OR "Faroe islands"	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	7,088
S5	S3 OR S4	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	149,776
S4	TI ((organization* OR organisation*) aND culture*) OR AB ((organization* OR organisation*) AND culture*) OR SU ((organization* OR organisation*) AND culture*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	1,260
S3	TI (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*) OR AB (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	149,082

	Distribut* OR Integrat* OR Shared OR share OR sharing OR team*) OR SU (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*)		
S2	TI (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher*" OR "Pedagogical leader*" OR principal* OR supervis*) OR AB (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher*" OR "Pedagogical leader*" OR principal* OR supervis*) OR SU (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher" OR "Pedagogical leader*" OR principal* OR supervis*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	106,225
S1	TI (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*) OR AB (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*) OR SU (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	23,591

SocINDEX

Tuesday, May 05, 2020 2:52:11 AM

#	Query	Limiters/Expanders	Results
S15	S6 AND S13	Limiters - Date of Publication: 20140101-20191231 Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	3
S14	S6 AND S13	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	14
S13	S10 AND S12	Expanders - Apply equivalent subjects	664

		Search modes - Boolean/Phrase	
S12	S5 AND S11	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	92,575
S11	S2 OR S8 OR S9	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	268,919
S10	S1 OR S7	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	21,512
S9	SU "Organizational behavior" OR "Communication in organizations" OR "Corporate culture" OR Organizational sociology" OR "Teams in workplace"	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	10,255
S8	SU Leadership OR "Shared leadership" OR "Transformational leadership" OR "superior- subordinate relationship" OR "School administration"	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	15,156
S7	SU "Early childhood education" OR kindergarten OR Preschools OR "Day Care Centers" OR "Preschool education" OR "Child care services"	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	8,331
S6	TX Nordic* OR Norwegian OR Norway OR Swedish OR Sweden OR Finnish OR Finland OR Denmark OR Danish OR Scandinavia* OR Iceland* OR Greenland* OR "Faroe islands"	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	51,408
S5	S3 OR S4	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	529,885
S4	TI ((organization* OR organisation*) aND culture*) OR AB ((organization* OR organisation*) aND culture*) OR KW ((organization* OR organisation*) aND culture*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	9,689
S3	TI (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*) OR AB (System* OR Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*) OR KW (System* OR	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	524,407

	Collaborat* OR cooperat* OR Collectiv* OR complex* OR Distribut* OR Integrat* OR Shared OR share OR sharing OR team*)		
S2	TI (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher*" OR "Pedagogical leader*" OR principal* OR supervis*) OR AB (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher*" OR "Pedagogical leader*" OR principal* OR supervis*) OR KW (Management* OR leadership* OR Leader* OR administrat* OR "Head teacher" OR "Pedagogical leader*" OR principal* OR supervis*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	260,122
S1	TI (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*) OR AB (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*) OR KW (kindergarten* OR "Early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*)	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	18,400

Scopus

(TITLE-ABS-KEY (*kindergarten** OR "*Early childhood*" OR *ece* OR *ecec* OR *preschool** OR *daycare** OR "*day care*" OR *nurser**) AND

TITLE-ABS-KEY ((*management** OR *leader** OR *administrat** OR "*head teacher**" OR *principal** OR *supervis**) AND (*system** OR *cooperat** OR *collectiv** OR *complex** OR *distribut** OR *integrat** OR *share* OR *shared* OR *sharing* OR *team** OR "*organi* culture**")) AND

TITLE-ABS-KEY (*nordic** OR *norwegian* OR *norway* OR *sweden* OR *swedish* OR *danish* OR *denmark* OR *scandinavia** OR *finland* OR *finnish* OR *iceland** OR *greenland** OR "*Faroe islands*")) AND (LIMIT-TO (PUBYEAR , 2020) OR LIMIT-TO (PUBYEAR , 2019) OR LIMIT-TO (PUBYEAR , 2018) OR LIMIT-TO (PUBYEAR , 2017) OR LIMIT-TO (PUBYEAR , 2016) OR LIMIT-TO (PUBYEAR , 2015) OR LIMIT-TO (PUBYEAR , 2014))

The result was 351 hits. Some clearly irrelevant subject fields were excluded. These were: Medicine, Biochemistry, Genetics and Molecular Biology, Nursing, Immunology and Microbiology. We were then left with 93 hits.

Web of Science

Basic search, all fields

ALL FIELDS: ((kindergarten* OR "early childhood" OR ECE OR ECEC OR preschool* OR daycare* OR "day care" OR nurser*)) **AND**
ALL FIELDS: ((Management* OR Lead* OR administrat* OR "Head teacher*" OR Principal* OR supervis*)) **AND ALL FIELDS:**
((System* OR collaborat* OR Cooperat* OR Collectiv* OR Complex OR Distribut* OR Integ
rat* OR Shared OR Share OR Sharing OR ((organization* OR Organization*) AND culture)))
AND ALL FIELDS:
((Nordic* OR Norwegian OR Norway OR Swedish OR Sweden OR Danish OR Denmark OR
Scandinavia* OR Finland OR Finnish OR Iceland* OR Greenland* OR "Faroe islands"))

The result was 441 hits. This was limited to the time period 2014-2020 and clearly irrelevant subject fields were excluded. The result was 101 hits.

Other sources

In the bibliographic databases mentioned above we have followed the pre-planned systematic search, as shown initially (Figure1). The detailed search strategy for each of the databases are listed.

We have also searched other sources where systematic searches of the same level is not possible, due to more limited search-functionality. These sources/databases do not have a thesaurus (subject headings), and therefore the searches are performed using textwords only. We have used both English and Scandinavian textwords (figure 1) and combined them or searched them separately – depending on the functionality of the source/database.

The sources are:

- Norart
- Nordic base of early childhood education and care
- Science Direct
- Google Scholar
- Den danske forskningsdatabasen (The Danish research database)
- Idunn
- SwePub

References and Citations

Reference lists and citation for the included articles were searched for additional literature.