

Table S1 Search strategy

Database 1: PubMed

Sequence	Query
#1	Search: (China[Title/Abstract]) OR (Chinese[Title/Abstract])
#2	Search: ((fertility desire[Title/Abstract]) OR (fertility intention[Title/Abstract])) OR (willingness to give-birth[Title/Abstract])
#3	Search: ((women[Title/Abstract]) OR (female[Title/Abstract])) OR (childbearing age women[Title/Abstract])
#4	Search: ("2012/01/01"[Date - Publication] : "2022/03/09"[Date - Publication])
#5	#1AND#2 AND#3 AND#4 AND#5 Search: (("2012/01/01"[Date - Publication] : "2022/03/09"[Date - Publication])) AND (((china[Title/Abstract]) OR (Chinese[Title/Abstract])) AND (((fertility desire[Title/Abstract]) OR (fertility intention[Title/Abstract])) OR (willingness to give-birth[Title/Abstract]))) AND (((women[Title/Abstract]) OR (female[Title/Abstract])) OR (childbearing age women[Title/Abstract])))

Database 2: EMBASE

Sequence	Query
#1	China:ab,ti OR Chinese:ab,ti
#2	'fertility desire':ab,ti OR 'fertility intention':ab,ti OR 'willingness to give birth':ab,ti
#3	women:ab,ti OR female:ab,ti OR 'childbearing age women':ab,ti

#4	#1 AND #2 AND #3
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Database 3: ScienceDirect

Sequence	Query
#1	Find articles with these terms: (fertility intention or fertility desire or willingness to give birth)and(women or female or childbearing age women)and(China or Chinese)
#2	Year: 2012-2022
#3	Article type: review articles and research articles
#4	#1 AND #2 AND #3

Database 4: Web of science

Sequence	Query
#1	TS=(china) OR TS=(Chinese)
#2	TS=(fertility desire) OR TS=(fertility intention) OR TS=(willingness to give-birth)
#3	TS=(women) OR TS=(childbearing age women) OR TS=(female)
#4	Publication Date: All years(1898-2022)
#5	#1 AND #2 AND #3 AND #4 (TS=(china) OR TS=(Chinese)) AND (TS=(fertility desire) OR TS=(fertility intention) OR TS=(willingness to reproduce)) AND (TS=(women) OR TS=(childbearing age women))

Database 5: CAJD (CNKI)

Time range: 2012-01-01---2022-03-09

TKA=('再生育意愿'+生育意愿+'生育意向'+生育计划') AND TKA=('二胎'+二孩+'三胎'+三孩') AND TKA=('妇女'+女性+'女')

(English) Database 5: CAJD (CNKI)

Time range: January 1, 2012--- March 9, 2022

TKA=('the intention to fertility again' + 'fertility intention'+ fertility desire'+ fertility plan') AND TKA=('Second child'+ Third child') AND TKA=('women '+female')

Database 6: CSPD (WANFANG Data)

((题名或关键词: (二胎) or 题名或关键词: (二孩) or 题名或关键词: (三胎) or 题名或关键词: (三孩))and (题名或关键词:(再生育意愿) or 题名或关键词:(生育意愿) or 题名或关键词:(生育意向) or 题名或关键词:(生育计划))and (题名或关键词:(女性) or 题名或关键词:(妇女) or 题名或关键词:(女))) and Date:2012-*

(English) Database 6: CSPD (WANFANG Data)

((title or key word: (Second child) or title or key word: (Third child))and (title or key word:(the intention to fertility again) or title or key word:(fertility intention) or title or key word:(fertility desire) or title or key word:(fertility plan))and (title or key word:(female) or title or key word:(women))) and Date:2012-*

Database 7: VIP

Time range: 2012-2022

(U=(生育意愿 OR 生育意向 OR 生育计划 OR 再生育意向)) AND (U=(女性 OR 妇女 OR 女)) AND (U=(二胎 OR 二孩 OR 三胎 OR 三孩))

(English) Database 7: VIP

Time range: 2012-2022

(U=(fertility intention OR fertility desire OR fertility plan OR the intention to fertility again)) AND (U=(female OR women)) AND (U=(Second child OR Third child))

Since Database 5-7 is the Chinese database included in the literature search in this paper, the search terms listed in it are in Chinese, so there is no need to translate them into English.

Table S2 The inter-rater reliability for the title abstract screening by the two authors

	Title		Abstract	
	Author 1	Author 2	Author 1	Author 2
Included	475	428	243	264
Excluded	227	236	187	201
Agreement	655		451	
Sum	664		465	
Rate	98.64%		96.99%	

Table S3 65 factors related to SFI

Group	Category	Exposure
A Individual level	Demographic factors	A1-Age, A2-Education, A3-Hukou, A4-Income, A5-Marriage status, A6- Work stability,A7- Hold a management position,A8-Job title,A9- Nationality,A10-Whether comes from only one child family,A11- Physical health, A12-Frequency of participation in community activities,A13- Employed,A14- Work pressure .
	Fertility attitude	A15- Ideal childbearing age,A16- Ideal number of children,A17- Gender preference,A18- Age at the first child birthed,A19- Expected sex of first child,A20- Expected sex of two children, A21- The impact of childbirth on women's careers,A22- Facing conflicting choices between career and fertility.
B Family level	Husband factors	B1-Husband's age, B2- Husband's education, B3- Husband's hukou,B4- The husband has a local hukou,B5- Husband's occupation,B6- Husband's job stability,B7- Husband's income,B8-Whether husband from only one child family ,B9- Fertility attitude of husband,B10- Husband's desired number of children.B11- Household registration type of the couple,B12- Whether the couple comes from only one-child family,B13- Annual household income,B14- Family financial self-assessment,B15- House property,B16- Live together with parents, B17- Who influences fertility intention,B18-Marital satisfaction.
	Children factors	B19-Number of children being raised ,B20- Sex of children being raised,B21- Age of first child,B22- Gender of first child,B23-The health condition of first child, B24-The way of children care,B25-The cost of raising children, B26- Babysitting fees,B27-Childcare costs, B28-Husband's time spent on housework and child care,B29-Fertility attitudes of the first child.
	Parents or others factors	B30-Parents support ,B31-To have second child pressure from parents,B32-Parent's fertility attitude,B33-Parents' desired number of children,B34-Whether the first child's gender matches the parents' expectations,B35-In-laws' fertility attitude,B36- In-law relationships. B37-Envy of other people's second child, B38-Friend's fertility attitude.

C Social level	Policy factors	C1-The attitude of women's companies, C2-Women's awareness of the universal two-child policy, C3-Women's fertility intention before the implementation of the universal two-child policy.
	Public service	C4- The perfection of medical and pension insurance in public places, C5- The state of supervision of child care institutions.

Table S4 Distribution of factors in 16 included studies (1 = Yes, 0 = No)

[illegible]

B9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
B10	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
B11	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
B12	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	5
B13	0	0	1	0	0	1	0	1	1	0	1	0	1	0	1	0	7
B14	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	3
B15	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	3
B16	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	3
B17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
B18	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
B19	0	1	0	0	0	0	0	1	1	0	0	1	1	0	1	1	7
B20	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	3
B21	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	3
B22	0	0	1	1	1	0	0	0	1	1	0	0	1	0	0	0	6
B23	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
B24	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	2
B25	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2
B26	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
B27	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
B28	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
B29	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
B30	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	4
B31	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
B32	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
B33	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
B34	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
B35	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
B36	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
B37	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
B38	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
C1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2
C2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2
C3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1

C4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
C5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total	12	4	5	15	13	5	5	14	17	8	6	13	10	5	20	6	158

Table S5 Data extraction according to each factor

**SFI: Second-child Fertility Intention; Non-SFI: Non Second-child Fertility Intention*

A1-Age

Author	Group	SFI	Non-SFI	Results
Yuan,2021	<=25	78	46	Significant difference ($\chi^2=21.594$, P<0.01).
	26-30	187	117	
	31-35	189	107	
	>=36	128	70	
Hua,2021	20-25	10	6	No significant difference (χ^2 test).
	25-30	39	24	
	30-35	17	15	
	35-40	17	9	
	40-45	10	8	
	>=45	12	5	
Yuan,2020	20-29	119	201	Significant difference ($\chi^2=14.408$, P<0.01).
	30-39	179	250	
	40-48	9	24	
Ji,2019	20-25	3	44	Significant difference ($\chi^2=19.760$, P<0.01).
	26-30	38	81	
	31-35	28	35	
	36-40	13	23	
	>40	9	26	
Huang,2019	20-30	79	27	Significant difference ($\chi^2=6.770$, P<0.01).
	31-40	38	58	
	40-50	16	50	
Zhao,2019	22-29	278	134	No significant difference (χ^2 test).
	30-39	308	502	
	40-44	12	212	
Hui,2019	<=24	22	164	Significant difference ($\chi^2=71.293$, P<0.001).
	25-29	232	2599	
	30-34	285	4534	
	35-39	89	2279	
	>=40	9	469	
Liang,2019	25-29	27	37	Significant difference ($\chi^2=20.620$, P<0.01).
	30-34	73	147	
	35-39	54	178	
	40-46	33	160	
Qin,2018	20-29	31	58	No significant difference (χ^2 test).
	30-39	22	85	
	40-49	3	14	

Tao,2021	<25	12	8	Significant difference (P<0.05).
	25-30	578	181	
	31-40	165	111	
	>40	59	185	
Wang T,2019	<31	79	23	Significant difference ($\chi^2=101.49$, P<0.001).
	31-35	60	45	
	>35	89	234	
Jin,2018	20-24	111	86	No
	25-29	326	279	
	30-34	254	386	
	35-39	132	473	
	40-44	53	468	

A2-Education

Author	Group	SFI	Non-SFI	Results
Hua,2021	Primary school and below	1	0	No significant difference (χ^2 test).
	Junior high school	5	3	
	High school	10	12	
	College degree	32	21	
	Undergraduate degree	52	25	
	Master degree and above	5	6	
Fan,2021	Junior high school and below	12	21	No significant difference (χ^2 test).
	high school or secondary school	25	41	
	College degree	46	70	
	Undergraduate degree	80	138	
	Master degree and above	26	49	
Yuan,2020	Junior high school and below	62	73	Significant difference ($\chi^2=36.856$, P<0.001).
	high school or secondary school	54	149	
	College degree or Higher vocational education	69	136	
	Undergraduate degree	108	106	
	Master degree or Doctor's Degree	14	11	
Ji,2019	Junior high school and below	5	7	No significant difference (χ^2 test).
	High school or technical secondary school or vocational high school or technical school	19	34	
	College degree	28	67	
	Undergraduate degree	33	81	
	Master degree and above	6	20	

Huang,2019	primary school	7	3	Significant difference ($\chi^2=3.004$, P<0.01).
	junior high school	10	8	
	High school or technical secondary school or technical school	53	35	
	College degree and above	63	89	
Zhao,2019	High school and below	254	486	Significant difference ($\chi^2=10.71$, P<0.01).
	College and above	342	364	
Lin,2019	Elementary school and below	10	1	No significant difference (χ^2 test).
	junior high school	50	20	
	high school or secondary school	46	20	
	College degree or Undergraduate degree	103	49	
	Master degree and above	6	6	
Hui,2019	Elementary school and below	4	55	Significant difference ($\chi^2=40.519$, P<0.001).
	junior high school	28	616	
	high school or secondary school	50	1288	
	College degree	173	2814	
	Undergraduate degree	296	4514	
	Master degree and above	86	773	
Liang,2019	High school or technical secondary school and below	17	36	No significant difference (χ^2 test).
	College degree	35	124	
	Undergraduate degree	113	323	
	Master degree and above	22	39	
Qin,2018	Junior high school and below	13	33	Significant difference ($\chi^2=7.512$, P<0.05).
	high school or college degree	19	84	
	Undergraduate degree and above	24	40	
Tao,2021	Junior high school and below	301	250	Significant difference (P<0.05).
	high school or secondary school or College degree	325	163	
	Undergraduate degree and above	188	72	
Jin,2018	Junior high school and below	261	652	No
	high school	340	627	
	College degree	181	291	
	Undergraduate degree and above	95	122	

A3-Hukou

Author	Group	SFI	Non-SFI	Results
Hua,2021	Non-rural Rural	66	35	No significant difference (χ^2 test).
		39	32	

Wang T,2019	Rural	39	24	Significant difference ($\chi^2=17.59$, P<0.001).
	Non-rural	189	278	
Jin,2018	Rural	360	487	No
	Urban	199	578	
	resident	317	627	

A4-Income

Author	Group	SFI	Non-SFI	Results
Yuan,2021	<=2000	112	80	No significant difference (χ^2 test).
	2001-4000	189	102	
	4001-6000	136	71	
	6001-8000	78	49	
	>=8001	68	38	
Fan,2021	<=2000	25	38	No significant difference (χ^2 test).
	2001-4000	12	21	
	4001-6000	25	41	
	6001-8000	46	70	
	8000-10000	80	138	
	>=10000	26	49	
Ji,2019	<3000	8	61	Significant difference ($\chi^2=14.989$, P<0.01).
	3000-5999	43	105	
	6000-9999	25	27	
	10000-20000	11	11	
	>20000	4	5	
Hui,2019	<4000	63	1219	Significant difference ($\chi^2=24.320$, P<0.001).
	4000-8000	166	3258	
	8001-12500	138	2233	
	>12500	125	1391	

A5-Marriage status

Author	Group	SFI	Non-SFI	Results
Yuan,2021	Unmarried	261	24	Significant difference ($\chi^2=171.249$, P<0.001).
	Married	322	316	
Yuan,2020	Unmarried	11	15	No significant difference (χ^2 test).
	Married	296	460	
Ji,2019	Unmarried	8	68	Significant difference ($\chi^2=19.194$, P<0.001).
	First marriage	80	135	
	Remarried	2	3	
	divorced or widowed	1	3	

A6- Work stability

Author	Group	SFI	Non-SFI	Results
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Hua,2021	Government Department or Public Institution	23	7	Significant difference ($\chi^2=24.855$, $P<0.01$).
	State-owned enterprise or Collective enterprises	30	18	
	private enterprise	45	22	
	Freelancers	7	20	
Fan,2021	Government Department	9	14	No significant difference (χ^2 test).
	Public Institution	87	123	
	State-owned enterprise	6	25	
	Private enterprise	47	86	
	Others	40	71	
Yuan,2020	Government Department	6	6	No significant difference (χ^2 test).
	Public Institution	45	45	
	Enterprise	104	164	
	Individually-owned business	66	107	
	Freelancers	43	77	
	Unemployed	9	28	
	Others	34	48	
Ji,2019	Current students	0	9	Significant difference ($\chi^2=20.824$, $P<0.01$).
	State-owned enterprise	7	28	
	Private Enterprise	26	29	
	Foreign company or joint venture	1	9	
	Government Department or Public Institution	20	74	
	Individually-owned business	7	19	
	Freelancers	9	15	
	Housewife	12	4	
	Others	9	22	
Huang,2019	Government Department	59	56	No significant difference (χ^2 test).
	Public Institution			
	Enterprise	40	40	
	Service industry	34	39	
Lin,2019	Government Department	47	29	No significant difference (χ^2 test).
	Freelancers	68	36	
	Private Enterprise	46	18	
	Housewife	54	13	
Qin,2018	Unemployed	15	60	No significant difference (χ^2 test).
	Employed	33	74	
	Self-employed	8	23	
Hui,2019	Housewife	142	1835	Significant difference ($\chi^2=6.633$, $P<0.05$).
	Others	497	8274	

A7-Hold a management position

Author	Group	SFI	Non-SFI	Results
Hua,2021	Top management	4	6	No significant difference (χ^2 test).
	Middle managers	11	5	
	Grassroots managers	20	17	
	General staff	70	39	

A8-Job title

Author	Group	SFI	Non-SFI	Results
Yuan,2020	Senior title	0	5	No significant difference (χ^2 test).
	Deputy senior title	4	5	
	Intermediate title	41	61	
	Division title	53	67	
	No title	209	337	

A9-Nationality

Author	Group	SFI	Non-SFI	Results
Huang,2019	Han nationality	123	129	No significant difference (χ^2 test).
	Others	10	6	

A10-Whether comes from only one child family

Author	Group	SFI	Non-SFI	Results
Jin,2018	Yes	516	1154	No
	No	361	540	
Lin,2019	Yes	17	19	Significant difference ($\chi^2=9.158$, P<0.01).
	No	198	77	

A11- Physical health

Author	Group	SFI	Non-SFI	Results
Fan,2021	Very good	59	64	Significant difference ($\chi^2=10.851$, P<0.05).
	Good	94	164	
	Not too bad	30	73	
	Bad	6	17	
	Very bad	0	1	
Lin,2019	Very good	182	71	No significant difference (χ^2 test).
	Good	29	24	
	Bad	3	2	
	Very bad	1	0	

A12- Frequency of participation in community activities

Author	Group	SFI	Non-SFI	Results
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Zhao,2019	Once a month or none	233	261	Significant difference ($\chi^2=22.78$, P<0.001).
	At least twice a month	363	589	

A13- Employed

Author	Group	SFI	Non-SFI	Results
Jin,2018	Yes	753	1538	No
	No	125	156	

A14- Work pressure

Author	Group	SFI	Non-SFI	Results
Li,2017	Very high	11	36	Significant difference ($\chi^2=3.177^a$, P<0.01).
	High	43	94	
	Not too bad	70	102	
	Low	16	15	
	Very low	30	32	

A15- Ideal childbearing age

Author	Group	SFI	Non-SFI	Results
Lin,2019	<20	0	1	Significant difference ($\chi^2=12.584$, P<0.01).
	20-25	86	38	
	26-30	128	51	
	>30	1	6	

A16-Ideal number of children

Author	Group	SFI	Non-SFI	Results
Yuan,2021	0	0	11	Significant difference ($\chi^2=617.158$, P<0.001).
	1	152	327	
	2	429	2	
	3	2	0	
Ji,2019	0	0	8	Significant difference ($\chi^2=54.909$, P<0.001).
	1	3	88	
	>=2	88	22	
Qin,2018	1	5	113	Significant difference ($\chi^2=66.401$, P<0.001).
	>=2	51	44	
Jin,2018	<=1	109	900	No
	>=2	767	794	

A17- Gender preference

Author	Group	SFI	Non-SFI	Results
Hua,2021	A girl	2	29	Significant difference ($\chi^2=27.058$, P<0.001).
	A boy	1	23	
	Boy and Girl	55	87	
	Two girls	6	3	

	Two boys	1	1	
	No idea	26	66	
Lin,2019	A girl	5	8	Significant difference ($\chi^2=26.977$, P<0.001).
	A boy	4	11	
	Boy and Girl	191	69	
	Two girls	1	4	
	Two boys	7	2	
	Others	7	2	
Liang,2019	A girl	14	49	Significant difference ($\chi^2=51.842$, P<0.001).
	A boy	26	120	
	Boy and Girl	118	192	
	No idea	29	161	
Bai,2018	Boy	43	33	Significant difference (P<0.05).
	Girl	71	101	
	No idea	343	257	

A18-Age at the first child birthed

Author	Group	SFI	Non-SFI	Results
Yuan,2020	<=30	192	259	Significant difference ($\chi^2=15.427$, P<0.01).
	>30	30	84	

A19- Expected sex of first baby

Author	Group	SFI	Non-SFI	Results
Hua,2021	Boy	32	22	No significant difference (χ^2 test).
	Girl	44	30	
	No idea	39	15	

A20- Expected sex of two babies

Author	Group	SFI	Non-SFI	Results
Hua,2021	Two girls	23	17	No significant difference (χ^2 test).
	Two boys	43	19	
	Boy and Girl	39	31	

A21- The impact of fertility on women's career development

Author	Group	SFI	Non-SFI	Results
Hua,2021	No effect	29	19	No significant difference (χ^2 test).
	Influence career choices	43	24	
	Influence promotion and salary increase	33	24	

Fan,2021	Very high	9	47	Significant difference ($\chi^2=24.472$, P<0.001).
	High	29	40	
	Not too bad	53	123	
	Low	77	83	
	Very low	21	26	

A22-Facing conflicting choices between career and fertility

Author	Group	SFI	Non-SFI	Results
Hua,2021	Choose children	50	30	Significant difference ($\chi^2=37.718$, P<0.001).
	Choose career	30	15	
	Balancing children and career	25	22	
Ji,2019	Choose children	22	21	Significant difference ($\chi^2=27.392$, P<0.001).
	Choose career	12	81	
	Balancing children and career	56	97	
	Others	1	10	

B1- Husband's age

Author	Group	SFI	Non-SFI	Results
Qin,2018	20-29	20	32	No significant difference (χ^2 test).
	30-39	29	102	
	40-49	7	21	
Wang T,2019	<31	46	16	Significant difference ($\chi^2=74.66$, P<0.001).
	31-35	54	23	
	>35	128	263	

B2- Husband's education

Author	Group	SFI	Non-SFI	Results
Hui,2019	Less than primary school	1	24	Significant difference ($\chi^2=35.842$, P<0.001).
	Junior high school	28	461	
	High school or technical secondary school	66	1400	
	Junior college	164	2828	
	Bachelor degree	259	4177	
	Master and above	116	1090	
Qin,2018	Junior high school and below	10	30	No significant difference (χ^2 test).
	High school or college degree	19	79	
	Bachelor and above	27	48	
Bai,2018	High school and below	74	82	Significant difference (P<0.01).
	College degree or bachelor degree	258	236	
	Master and above	85	42	

Wang T,2019	Less than high school	30	73	Significant difference ($\chi^2=13.27$, P<0.01).
	Junior college or college degree	187	215	
	Hight than bachelor's degree	11	14	
Jin,2018	Junior high school and below	202	550	No
	High school	322	613	
	College degree	225	363	
	Bachelor and above	128	167	

B3- Husband's hukou

Author	Group	SFI	Non-SFI	Results
Li,2017	Rural	55	63	Significant difference ($\chi^2=4.613$, P<0.05).
	Non-rural	115	210	

B4- The husband is a local

Author	Group	SFI	Non-SFI	Results
Hui,2019	Yes	393	7467	Significant difference ($\chi^2=53.197$, P<0.001).
	No	246	2544	
Li,2017	Yes	102	200	Significant difference ($\chi^2=8.489$, P<0.01).
	No	68	73	
Qin,2018	Yes	43	126	No significant difference (χ^2 test).
	No	13	31	

B5- Husband's occupation

Author	Group	SFI	Non-SFI	Results
Hui,2019	Heads of government department or public institution	55	706	No significant difference (χ^2 test).
	Professional skill worker	225	3521	
	Civil servant or clerk	65	1090	
	business or service workers	137	2421	
	Agriculture, forestry, animal husbandry and fishery workers	2	25	
	Production transport operator	39	704	
	Freelancers	71	950	
	Others	34	439	
Qin,2018	Employed	36	95	No significant difference (χ^2 test).
	Self employed	18	53	
	Unemployed	2	9	

B6- Husband's job stability

Author	Group	SFI	Non-SFI	Results
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Hui,2019	Government Department or Public Institution	85	1111	No significant difference (χ^2 test).
	State-owned enterprise or Collective enterprises	124	2069	
	Private enterprise	221	3500	
	Foreign company or joint venture	114	1989	
	Individually-owned business	58	660	
	Army	4	39	
	Others	12	201	
	Freelancers	12	246	

B7- Husband's income

Author	Group	SFI	Non-SFI	Results
Qin,2018	<5000	11	64	Significant difference ($\chi^2=12.641$, P<0.01).
	5000-6999	16	50	
	>=7000	29	43	

B8- Whether husband from only one child family

Author	Group	SFI	Non-SFI	Results
Qin,2018	Yes	16	49	No significant difference (χ^2 test).
	No	40	108	
Jin,2018	Yes	254	380	No
	No	481	1102	

B9- Fertility attitude of husband

Author	Group	SFI	Non-SFI	Results
Wang T,2019	Support	169	52	Significant difference ($\chi^2=175.77$, P<0.001).
	Non-support	15	114	
	No idea	40	104	

B10- Husband 's desired number of children

Author	Group	SFI	Non-SFI	Results
Jin,2018	<=1	105	889	No
	>1	772	804	

B11- Household registration type of the couple

Author	Group	SFI	Non-SFI	Results
Tao,2021	Rural residents	722	406	Significant difference (P<0.05).
	One rural and one urban	70	45	
	Urban residents	22	34	

B12- Whether the couple comes from only one-child family

Author	Group	SFI	Non-SFI	Results
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Yuan,2021	One among the couple was the only child	285	130	Significant difference ($\chi^2=33.471$, $P<0.001$).
	Both members of a couple were the only child	71	86	
	Others	227	124	
Hua,2021	Wife was the only child	33	17	Significant difference ($\chi^2=31.501$, $P<0.001$).
	The husband was the only child	17	15	
	Both members of a couple were the only child	24	21	
	Others	31	14	
Liang,2019	One among the couple was the only child	50	137	Significant difference ($\chi^2=19.570$, $P<0.001$).
	Both members of a couple were the only child	111	233	
	Others	26	152	
Bai,2018	One among the couple was the only child	129	110	Significant difference ($P<0.01$).
	Both members of a couple were the only child	152	165	
	Others	136	85	
Wang T,2019	One among the couple was the only child	57	45	Significant difference ($\chi^2=20.85$, $P<0.001$).
	Both members of a couple were the only child	21	13	
	Others	150	244	

B13- Annual household income

Author	Group	SFI	Non-SFI	Results
Yuan,2020	<50000	34	99	Significant difference ($\chi^2=62.474$, $P<0.001$).
	50000-100000	83	191	
	100000-150000	78	105	
	150000-200000	52	49	
	≥ 200000	60	31	
Liang,2019	<100000	29	81	Significant difference ($\chi^2=16.736$, $P<0.05$).
	100000-190000	62	226	
	200000-290000	49	125	
	300000-490000	32	68	
	≥ 500000	15	22	
Hui,2019	<100000	86	1437	Significant difference ($\chi^2=46.035$, $P<0.001$).
	100000-200000	161	3463	
	200000-300000	151	2505	
	≥ 300000	225	2421	

B14-Family financial self-assessment

Author	Group	SFI	Non-SFI	Results
Qin,2018	Low	15	62	No significant difference (χ^2 test).
	Medium	26	54	
	High	15	41	
Zhao,2019	Low	270	360	No significant difference (χ^2 test).
	Medium	264	362	
	High	62	128	
Jin,2018	0-25%	211	426	No
	25%-50%	167	494	
	50%-75%	213	440	
	75%-100%	286	334	

B15- House property

Author	Group	SFI	Non-SFI	Results
Ji,2019	Own house	84	174	No significant difference (χ^2 test).
	Rent	2	24	
	Affordable housing	1	0	
	Company provides housing	1	4	
	Others	3	7	
Lin,2019	Parents' house	90	35	No significant difference (χ^2 test).
	House owned by loan	57	31	
	Own house	49	23	
	Others	19	7	
Qin,2018	Own house	25	68	No significant difference (χ^2 test).
	Others	31	89	

B16- Live together with parents

Author	Group	SFI	Non-SFI	Results
Jin,2018	No	614	1271	No
	live with parents	65	103	
	live with in-laws	195	319	
Zhao,2019	No	394	442	No significant difference (χ^2 test).
	live with parents	89	249	
	live with in-laws	113	159	
Lin,2019	No	22	35	Significant difference ($\chi^2=49.675$, P<0.001).
	Yes	194	60	

B17- Who influences fertility intention

Author	Group	SFI	Non-SFI	Results
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Hua,2021	Husband	22	9	No significant difference (χ^2 test).
	Self	28	21	
	Parents	27	15	
	Parents in law	24	18	
	Child	4	4	

B18- Marital satisfaction

Author	Group	SFI	Non-SFI	Results
Lin,2019	Satisfied	147	62	No significant difference (χ^2 test).
	Not too bad	61	31	
	Dissatisfied	7	3	

B19- Number of children being raised

Author	Group	SFI	Non-SFI	Results
Yuan,2021	0	254	24	Significant difference ($\chi^2=330.931$, P<0.001).
	1	212	315	
	2	117	1	
Bai,2018	0	184	127	Significant difference (P<0.05).
	1	273	264	

B20-Sex of children being raised

Author	Group	SFI	Non-SFI	Results
Yuan,2021	Male	150	160	Significant difference ($\chi^2=38.495$, P<0.001).
	Male and female	36	0	
	Female	141	156	
Huang,2019	Male	66	74	No significant difference (χ^2 test).
	Female	67	61	

B21- Age of first child

Author	Group	SFI	Non-SFI	Results
Zhao,2019	<=2	404	458	Significant difference ($\chi^2=32.760$, P<0.001).
	2-3	190	594	
	3-7	130	186	
	>7	466	664	
Hui,2019	0-1	639	10050	No significant difference (χ^2 test).
	1-2	150	2588	
	2-3	262	3640	
	3-4	224	3770	
	>=4	1	28	
Wang T,2019	<6	99	40	Significant difference ($\chi^2=118.20$, P<0.001).
	6-12	85	87	
	>12	44	175	

B22- Gender of first child

Author	Group	SFI	Non-SFI	Results
Yuan,2020	Male	102	187	Significant difference ($\chi^2=6.045$, P<0.05).
	Female	120	157	
Zhao,2019	Male	151	458	Significant difference ($\chi^2=4.42$, P<0.05).
	Female	194	229	
Lin,2019	Male	84	34	Significant difference ($\chi^2=29.163$, P<0.001).
	Female	77	14	
Qin,2018	Male	19	88	Significant difference ($\chi^2=5.441$, P<0.05).
	Female	30	64	
Tao,2021	Male	568	380	Significant difference (P<0.05).
	Female	246	105	
Jin,2018	Male	458	994	No
	Female	420	699	

B23- The health condition of first child

Author	Group	SFI	Non-SFI	Results
Lin,2019	Good	198	29	Significant difference ($\chi^2=31.731$, P<0.001).
	Not too bad	16	5	
	Bad	0	1	
	Worst	1	1	

B24-The way of children care

Author	Group	SFI	Non-SFI	Results
Hua,2021	By myself	51	25	Significant difference ($\chi^2=115.729$, P<0.001).
	By parents	22	21	
	By nanny	25	13	
	Others	7	8	
Lin,2019	By myself	117	49	Significant difference ($\chi^2=30.173$, P<0.001).
	By parents	73	26	
	By parents-in-law	14	12	
	Others	11	9	

B25-The cost of raising children

Author	Group	SFI	Non-SFI	Results
Hua,2021	Highest	45	33	Significant difference ($\chi^2=27.788$, P<0.01).
	Higher	37	21	
	Not too low	13	7	
	Lower	8	5	
	Lowest	2	1	

Ji,2019	Highest	12	13	Significant difference ($\chi^2=15.941$, P<0.01).
	Higher	22	39	
	Not too low	34	55	
	Lower	6	10	
	Lowest	12	76	

B26-Babysitting fees

Author	Group	SFI	Non-SFI	Results
Hui,2019	0-1999	1	7	No significant difference (χ^2 test).
	2000-3999	6	78	
	4000-5999	16	172	
	6000-7999	17	135	
	>7999	2	38	

B27- Childcare costs

Author	Group	SFI	Non-SFI	Results
Hui,2019	0-1999	88	1536	Significant difference ($\chi^2=19.031$, P<0.01).
	2000-3999	139	1965	
	4000-5999	55	582	
	6000-7999	11	77	
	8000-9999	5	23	
	>9999	5	49	

B28-Husband's time spent on housework and child care

Author	Group	SFI	Non-SFI	Results
Zhao,2019	<=1h	226	396	Significant difference ($\chi^2=9.01$, P<0.01).
	>1h	370	454	

B29-Fertility attitudes of the first child

Author	Group	SFI	Non-SFI	Results
Wang T,2019	Support	142	73	Significant difference ($\chi^2=94.43$, P<0.001).
	Non-support	13	77	
	No idea	64	125	

B30- Parents support

Author	Group	SFI	Non-SFI	Results
Wang T,2019	Yes	84	67	Significant difference ($\chi^2=20.86$, P<0.001).
	No	144	235	
Li,2017	Yes	142	200	Significant difference ($\chi^2=6.277$, P<0.05).
	No	28	73	
Jin,2018	Yes	618	795	No
	No	258	898	

B31- To have second child pressure from parents

Author	Group	SFI	Non-SFI	Results
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Lin,2019	Yes	49	18	No significant difference (χ^2 test).
	No	166	78	

B32- Parent's fertility attitude

Author	Group	SFI	Non-SFI	Results
Wang T,2019	Support	184	109	Significant difference ($\chi^2=97.18$, $P<0.001$).
	Non-support	6	39	
	No idea	29	122	

B33- Parents' desired number of children

Author	Group	SFI	Non-SFI	Results
Jin,2018	≤ 1	30	469	No
	≥ 2	782	1067	
	No idea	65	156	

B34- Whether the first child's gender matches the parents' expectations

Author	Group	SFI	Non-SFI	Results
Jin,2018	Yes	692	1463	No
	No	185	229	

B35-In-laws' fertility attitude

Author	Group	SFI	Non-SFI	Results
Wang T,2019	Support	170	91	Significant difference ($\chi^2=93.31$, $P<0.001$).
	Non-support	2	29	
	No idea	46	141	

B36-In-law relationships

Author	Group	SFI	Non-SFI	Results
Li,2017	Best	36	42	No significant difference (χ^2 test).
	Good	83	154	
	Not too bad	48	64	
	Bad	3	11	
	Worst	0	2	

B37-Envy of others people's second child

Author	Group	SFI	Non-SFI	Results
Lin,2019	Yes	95	27	Significant difference ($\chi^2=7.181$, $P<0.01$).
	No	120	69	

B38-Friend's fertility attitude

Author	Group	SFI	Non-SFI	Results
Wang T,2019	Support	120	20	Significant difference ($\chi^2=144.49$, $P<0.001$).
	Non-support	6	26	
	No idea	81	216	

C1- The attitude of women's companies

Author	Group	SFI	Non-SFI	Results
Hua,2021	Not supported at all	15	11	Significant difference ($\chi^2=29.789$, $P<0.001$).
	Non-support	25	16	
	Not too supportive	26	16	
	Support	31	19	
	Fully support	8	5	
Ji,2019	Not supported at all	2	13	Significant difference ($\chi^2=12.945$, $P<0.05$).
	Non-support	6	18	
	Not too supportive	39	127	
	Support	17	20	
	Fully support	27	31	

C2- Women's awareness of the universal two-child policy				
Author	Group	SFI	Non-SFI	Results
Hua,2021	Unknown	11	3	Significant difference ($\chi^2=40.883$, $P<0.001$).
	Not too understand	22	25	
	Understand	49	25	
	Fully understand	23	14	
Ji,2019	Unknown	2	18	No significant difference (χ^2 test).
	Not too understand	16	45	
	Understand	51	104	
	Fully understand	22	42	

C3- Women's fertility intention before the implementation of the universal two-child policy				
Author	Group	SFI	Non-SFI	Results
Hua,2021	No	47	42	Significant difference ($\chi^2=7.464$, $P<0.05$).
	Yes	58	25	

C4- The perfection of medical and pension insurance in public places				
Author	Group	SFI	Non-SFI	Results
Hua,2021	Imperfect	27	35	Significant difference ($\chi^2=26.546$, $P<0.001$).
	Not too complete	18	29	
	Perfect	22	41	

C5-The state of supervision of child care institutions				
Author	Group	SFI	Non-SFI	Results
Ji,2019	Unregulated	12	39	Significant difference ($\chi^2=5.383$, $P<0.05$).
	Regulated	79	79	

Table S6 Quality scores assessing risk of bias using a modified Newcastle-Ottawa scale

Study type: Cross-sectional; Score: 1=achieved, 0=not achieved								
Authors	Representativeness of the sample	Sample size	Non-respondents	Ascertainment of the exposure	Comparability of subjects in different outcome groups (control for confounding)	Assessment of the outcome	Statistical test is appropriate	Total score
213Yuan,2021	1	1	0	1	1	1	1	6
186Hua,2021	1	0	0	1	1	1	1	5
177Fan,2021	0	0	0	1	1	1	1	4
162Yang,2020	0	0	0	1	0	1	0	2
144 Yuan,2020	1	1	0	1	1	1	1	6
137Ji,2019	1	0	0	1	0	1	1	4
134Huang,2019	1	0	0	1	1	1	0	4
132Zhao,2019	1	1	0	1	1	1	1	6
128Lin,2019	0	0	0	1	1	1	1	4
121Hui,2019	1	1	0	1	1	1	1	6
109Li,2017	1	0	0	1	1	1	1	5
95Liang,2019	1	1	0	1	1	1	1	6
87Qin,2018	0	0	0	1	1	1	1	4
83Jin,2018	1	1	0	1	1	1	0	5
62Tao,2021	1	1	0	1	0	1	1	5
21Bai,2018	0	1	0	1	0	1	1	4
4Wang T,2019	1	0	0	1	1	1	1	5

Table S7 Meta-analyses on 18 factors

Exposure	No. of studies in Meta-analyses	Comparison model	Q test		Statistical model	Pooled OR	Z test	Egger	
			I ²	P-value		OR (95%CI)	P-value	P> t	
Individual level									
Demographic factors									
Age	9	Younger(<=35 years old) vs. Older(>35 years old)	89%	<0.00001	Random-effect	2.90 [2.12,3.96]	<0.00001	0.313	
Education	8	High school and below vs. Junior college or above	39%	0.12	Fixed-effect	0.68 [0.62,0.75]	<0.00001	0.456	
Hukou	3	Rural vs. Urban	85%	0.001	Random-effect	1.55 [0.79,3.05]	0.20	0.566	
Income	3	Low-income(<=8000 yuan) vs. High-income(>8000 yuan)	65%	0.06	Random-effect	0.68 [0.46,0.99]	0.04	0.803	
Marital status	3	Unmarried vs. Married	98%	<0.00001	Random-effect	1.37 [0.12,16.04]	0.80	0.231	
Work stability	4	High vs. Low	0%	0.41	Fixed-effect	1.33 [1.06,1.66]	0.01	0.528	
Fertility attitude									
Ideal number of children	3	<=1 vs. >1	91%	<0.00001	Random-effect	0.04 [0.01,0.18]	<0.0001	0.171	
Gender preference	3	Yes vs. No	92%	<0.00001	Random-effect	1.20 [0.51,2.81]	0.67	0.502	
Family level									
Husband factors									

Husband's education	5	High school and below vs. Junior college or above	17%	0.30	Fixed-effect	0.68 [0.60,0.77]	<0.00001	0.210
The husband has a local hukou	3	Yes vs. No	0%	0.58	Fixed-effect	0.55 [0.48,0.64]	<0.00001	0.403
Whether the couple comes from only one-child family	3	Yes vs. No	30%	0.24	Fixed-effect	0.76 [0.62,0.93]	0.008	0.683
Annual household income	3	Low(<200000 yuan) vs. High(>=200000 yuan)	82%	0.003	Random-effect	0.52 [0.34,0.80]	0.003	0.450
Family financial self-assessment	3	Low-level vs. High-level	90%	<0.00001	Random-effect	0.89 [0.54,1.46]	0.63	0.744
House property	3	Yes vs. No	44%	0.17	Fixed-effect	1.27 [0.81,1.96]	0.29	0.846
Live together with parents	3	Yes vs. No	97%	<0.00001	Random-effect	0.69 [0.29,1.63]	0.39	0.632
Children factors								
Age of first child	3	Before kindergarten(<=3 years old) vs. After kindergarten(>3 years old)	93%	<0.00001	Random-effect	1.32 [0.83,2.10]	0.25	0.334
Gender of first child	6	Male vs. Female	76%	0.001	Random-effect	0.58 [0.44,0.75]	<0.0001	0.310
Parents or others factors								
Parents support	4	Yes vs. No	79%	0.002	Random-effect	1.88 [1.26,2.80]	0.002	0.113

Table S8 Factors not included in the meta-analysis and whether they were significantly associated with SFI

Group	Category	Factors	Authors	Result
Individual level	Demographic factors	A7- Hold a management position	Hua,2021	No significant difference (χ^2 test).
		A8-Job title	Yuan,2020	No significant difference (χ^2 test).
		A9- Nationality	Huang,2019	No significant difference (χ^2 test).
		A10-Whether comes from only one child family	Jin,2018	No
			Lin,2019	Significant difference ($\chi^2=9.158$, $P<0.01$).
		A11- Physical health	Fan,2021	Significant difference ($\chi^2=10.851$, $P<0.05$).
			Lin,2019	No significant difference (χ^2 test).
		A12- Frequency of participation in community activities	Zhao,2019	Significant difference ($\chi^2=22.78$, $P<0.001$).
		A13- Employed	Jin,2018	No
		A14- Work pressure	Li,2017	Significant difference ($\chi^2=3.177^a$, $P<0.01$).
	Fertility attitude	A15- Ideal childbearing age	Lin,2019	Significant difference ($\chi^2=12.584$, $P<0.01$)

		A18- Age at the first child birthed	Yuan,2020	Significant difference ($\chi^2=15.427$, $P<0.01$).
		A19- Expected sex of first child	Hua,2021	No significant difference (χ^2 test).
		A20- Expected sex of two children	Hua,2021	No significant difference (χ^2 test).
		A21- The impact of childbirth on women's careers	Hua,2021 Fan,2021	No significant difference (χ^2 test). Significant difference ($\chi^2=24.472$, $P<0.001$).
		A22- Facing conflicting choices between career and fertility	Hua,2021 Ji,2019	Significant difference ($\chi^2=37.718$, $P<0.001$). Significant difference ($\chi^2=27.392$, $P<0.001$).
Family level	Husband factors	B1-Husband's age	Qin,2018 Wang T,2019	No significant difference (χ^2 test). Significant difference ($\chi^2=74.66$, $P<0.001$).
		B3- Husband's hukou	Li,2017	Significant difference ($\chi^2=4.613$, $P<0.05$).
		B5- Husband's occupation	Hui,2019 Qin,2018	No significant difference (χ^2 test). No significant difference (χ^2 test).
		B6- Husband's job stability	Hui,2019	No significant difference (χ^2 test).

	B7- Husband's income	Qin,2018	Significant difference ($\chi^2=12.641$, $P<0.01$).
	B8-Whether husband from only one child family	Qin,2018 Jin,2018	No significant difference (χ^2 test). No
	B9- Fertility attitude of husband	Wang T,2019	Significant difference ($\chi^2=175.77$, $P<0.001$).
	B10- Husband's desired number of children	Jin,2018	No
	B11- Household registration type of the couple	Tao,2021	Significant difference ($P<0.05$).
	B17- Who influences fertility intention	Hua,2021	No significant difference (χ^2 test).
	B18-Marital satisfaction	Lin,2019	No significant difference (χ^2 test).
Children factors	B19-Number of children being raised	Yuan,2020	Significant difference ($\chi^2=330.931$, $P<0.001$).
		Bai,2018	Significant difference ($P<0.05$).
	B20- Sex of children being raised	Yuan,2021	Significant difference ($\chi^2=38.495$, $P<0.001$).
		Huang,2019	No significant difference (χ^2 test).
	B23-The health condition of first child	Lin,2019	Significant difference ($\chi^2=31.731$, $P<0.001$).

Parents or others factors	B24-The way of children care	Hua,2021	Significant difference ($\chi^2=115.729$, $P<0.001$).
		Lin,2019	Significant difference ($\chi^2=30.173$, $P<0.001$).
	B25-The cost of raising children	Hua,2021	Significant difference ($\chi^2=27.788$, $P<0.01$).
		Ji,2019	Significant difference ($\chi^2=15.941$, $P<0.01$).
	B26- Babysitting fees	Hui,2019	No significant difference (χ^2 test).
	B27-Childcare costs	Hui,2019	Significant difference ($\chi^2=19.031$, $P<0.01$).
	B28-Husband's time spent on housework and child care	Zhao,2019	Significant difference ($\chi^2=9.01$, $P<0.01$).
	B29-Fertility attitudes of the first child	Wang T,2019	Significant difference ($\chi^2=94.43$, $P<0.001$).
	B31-To have second child pressure from parents	Lin,2019	No significant difference (χ^2 test).
	B32-Parent's fertility attitude	Wang T,2019	Significant difference ($\chi^2=97.18$, $P<0.001$).
	B33-Parents' desired number of children	Jin,2018	No
	B34-Whether the first child's gender matches the parents' expectations	Jin,2018	No

Social level	Policy factors	B35-In-laws' fertility attitude	Wang T,2019	Significant difference ($\chi^2=93.31$, $P<0.001$).
		B36- In-law relationships	Li,2017	No significant difference (χ^2 test).
		B37-Envy of other people's second child	Lin,2019	Significant difference ($\chi^2=7.181$, $P<0.01$).
		B38-Friend's fertility attitude	Wang T,2019	Significant difference ($\chi^2=144.49$, $P<0.001$).
	Public service	C1-The attitude of women's companies	Hua,2021	Significant difference ($\chi^2=29.789$, $P<0.001$).
			Ji,2019	Significant difference ($\chi^2=12.945$, $P<0.05$).
		C2-Women's awareness of the universal two-child policy	Hua,2021	Significant difference ($\chi^2=40.883$, $P<0.001$).
			Ji,2019	No significant difference (χ^2 test).
		C3-Women's fertility intention before the implementation of the universal two-child policy	Hua,2021	Significant difference ($\chi^2=7.464$, $P<0.05$).
		C4- The perfection of medical and pension insurance in public places	Hua,2021	Significant difference ($\chi^2=26.546$, $P<0.001$).
		C5- The state of supervision of child care institutions	Ji,2019	Significant difference ($\chi^2=5.383$, $P<0.05$).