

**Table S1** Top 20 most productive journals in the field of thoracoscopic surgery training

Journal	H-index	IF 2024	JCR_Quartile 2024	PY_start	TP	TP_rank	TC	TC_rank
<i>Annals of Thoracic Surgery</i>	29	4.6	2	1992	51	2	1886	1
<i>Surgical Endoscopy and Other Interventional Techniques</i>	21	6.2	2	2000	52	1	522	6
<i>European Journal of Cardio-Thoracic Surgery</i>	20	3.4	2	1996	39	4	822	4
<i>Chest</i>	19	10.1	1	1992	23	8	841	3
<i>Journal of Pediatric Surgery</i>	15	2.4	2	1995	29	6	772	5
<i>Journal of Thoracic and Cardiovascular Surgery</i>	15	6.0	1	2003	16	11	857	2
<i>Interactive Cardiovascular and Thoracic Surgery</i>	13	NA	4	2010	27	7	257	9
<i>Journal of Laparoendoscopic &amp; Advanced Surgical Techniques</i>	12	1.3	4	2006	37	5	174	17
<i>Journal of Thoracic Disease</i>	12	2.5	4	2012	44	3	400	8
<i>Pediatric Surgery International</i>	8	1.8	3	1997	12	14	144	18
<i>Respiration</i>	8	3.7	3	2003	11	15	112	25
<i>Thoracic And Cardiovascular Surgeon</i>	8	1.5	4	1997	16	12	75	43
<i>Annals of Thoracic and Cardiovascular Surgery</i>	6	1.3	4	2009	17	10	NA	>50
<i>International Surgery</i>	6	0.1	4	1993	8	18	NA	>50
<i>Journal of Cardiothoracic Surgery</i>	6	1.6	4	2007	19	9	NA	>50
<i>Surgical Laparoscopy &amp; Endoscopy</i>	6	1.0	4	1993	9	17	64	50
<i>American Surgeon</i>	5	1.0	4	1992	6	24	189	12
<i>European Journal of Pediatric Surgery</i>	5	0.7	4	2005	5	31	NA	>50
<i>Surgical Endoscopy-Ultrasound and Interventional Techniques</i>	5	1.0	4	1995	8	19	110	27
<i>World Journal of Surgery</i>	5	2.6	3	2000	5	40	177	15

H\_index, the h-index of the journal, which measures both the productivity and citation impact of the publications; IF, impact factor, indicating the average number of citations to recent articles published in the journal; JCR\_Quartile, the quartile ranking of the journal in the Journal Citation Reports, indicating the journal's ranking relative to others in the same field (Q1:  $\leq 25\%$ , Q2:  $>25-50\%$ , Q3:  $>50-75\%$ , Q4:  $>75\%$ ); TP, total publications; TP\_rank, rank of total publications; TC, total citations; TC\_rank, rank of total citations; PY\_start, publication year start, indicating the year the journal started publication.

**Table S2** Publication and citation profiles of leading countries

Country	Articles	Freq	MCP_Ratio	TP	TP_rank	TC	TC_rank	Average citations
USA	184	0.192	0.065	570	1	6,060	1	32.9
Japan	152	0.159	0.020	327	3	1,230	4	8.1
China	146	0.153	0.048	419	2	1,433	2	9.8
Italy	70	0.073	0.157	212	4	1,432	3	20.5
Germany	52	0.054	0.115	134	5	916	6	17.6
United Kingdom	41	0.043	0.268	111	7	1,023	5	25
France	38	0.04	0.184	126	6	598	8	15.7
Korea	22	0.023	0.000	55	12	334	14	15.2
Denmark	21	0.022	0.381	87	8	674	7	32.1
Turkey	21	0.022	0.190	55	13	92	21	4.4
Netherlands	20	0.021	0.150	71	9	557	9	27.9
Spain	18	0.019	0.333	66	10	389	12	21.6
Canada	17	0.018	0.235	62	11	341	13	20.1
Switzerland	14	0.015	0.000	49	14	415	11	29.6
Poland	12	0.013	0.167	20	20	123	19	10.2
Israel	10	0.01	0.000	33	16	199	15	19.9
Austria	9	0.009	0.222	17	21	438	10	48.7
New Zealand	9	0.009	0.111	32	17	56	23	6.2
Belgium	8	0.008	0.125	36	15	139	18	17.4
Australia	7	0.007	0.143	27	18	166	16	23.7

Articles, publications of corresponding authors only; Freq, frequency of total publications; MCP\_Ratio, proportion of multiple country publications; TP, total publications; TP\_rank, rank of total publications; TC, total citations; TC\_rank, rank of total citations; Average Citations, the average number of citations per publication.

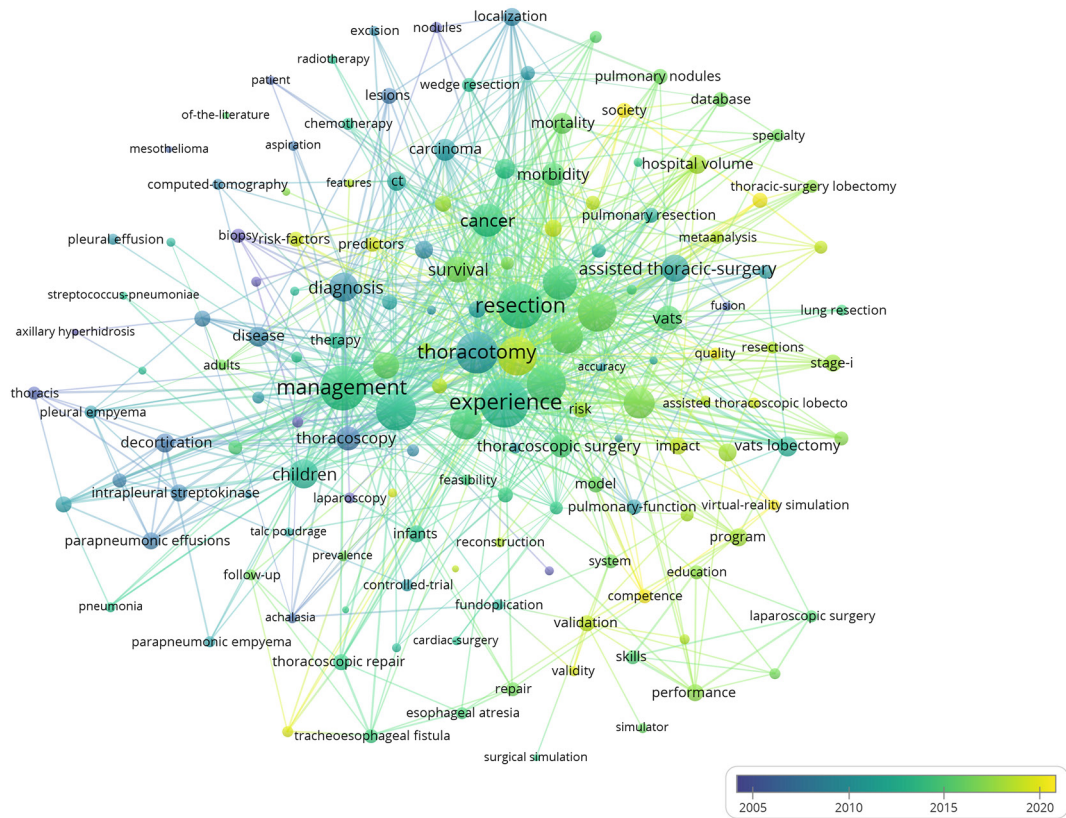
**Table S3** Publication and citation profiles of high-impact authors

Authors	H_index	g-index	m-index	PY_start	TP	TP_Frac	TP_rank	TC	TC_rank
Hansen Henrik Jessen	12	16	0.80	2010	16	2.87	1	428	1
Konge Lars	12	16	0.92	2012	16	2.54	2	391	3
Petersen Rene Horsleben	12	15	0.80	2010	15	2.76	3	428	1
Gonzalez-Rivas Diego	9	14	0.82	2014	14	4.00	4	289	5
Barsness Katherine A.	6	6	0.50	2013	6	1.92	6	144	19
Jensen Katrine	6	6	0.55	2014	6	0.99	10	251	9
Davis Lauren M.	5	5	0.42	2013	5	1.42	17	138	21
Dowling Rd	5	5	0.15	1992	5	1.37	19	254	6
Ferson Pf	5	5	0.15	1992	5	1.37	21	254	6
Landreneau Rj	5	5	0.15	1992	5	1.37	26	254	6
Meyerson Shari L.	5	6	0.33	2010	6	1.03	12	134	24
Rooney Deborah M.	5	5	0.42	2013	5	1.42	29	138	21
Sihoe Alan D. L.	5	6	0.63	2017	6	1.72	13	123	27
Bjerrum Flemming	4	6	0.40	2015	6	0.87	8	129	25
Brunelli Alessandro	4	5	0.36	2014	5	0.45	14	118	28
Chen Jin-Shing	4	5	0.24	2008	5	0.70	15	193	15
D'amico Thomas A.	4	5	0.27	2010	5	1.05	16	311	4
De Lagausie Pascal	4	5	0.25	2009	5	0.76	18	95	33
Ferguson Mark K.	4	5	0.36	2014	5	1.06	20	86	35
Gossot D	4	5	0.13	1993	5	1.02	22	158	17

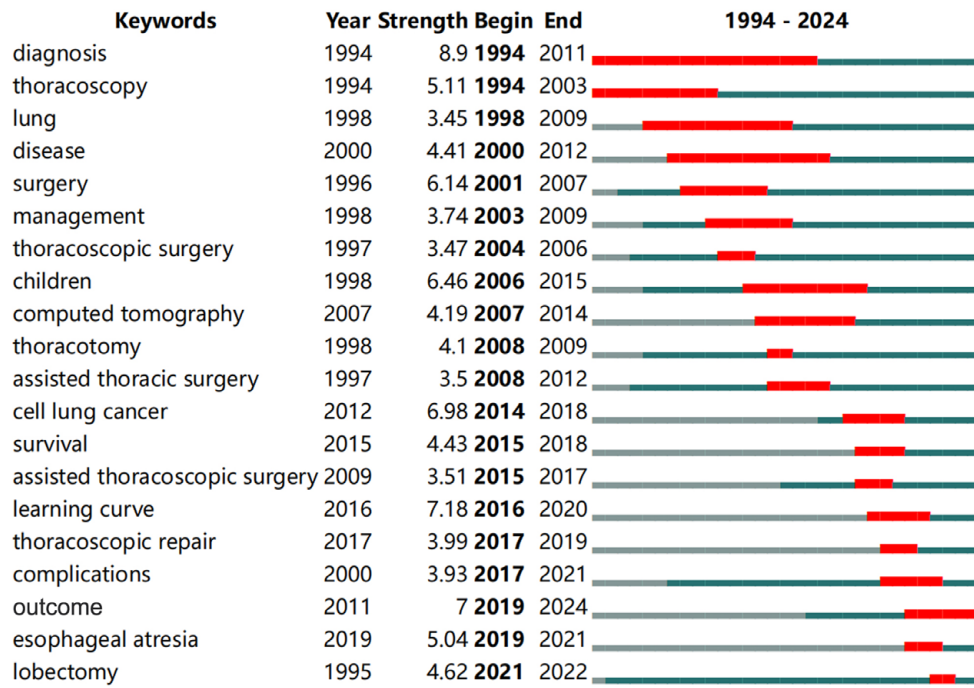
H index, the h-index of the journal, which measures both the productivity and citation impact of the publications. g index, the g-index of the journal, which gives more weight to highly-cited articles. m index, the m-index of the journal, which is the h-index divided by the number of years since the first published paper. TP, total publications; TP rank, rank of total publications; TC, total citations; TC rank, rank of total citations; PY start, publication year start, indicating the year the journal started publication.

**Table S4** Co-occurrence analysis of the top 20 keywords

Keyword	Occurrences	Total link strength
Experience	101	350
Resection	80	295
Management	106	293
Thoracotomy	64	261
Surgery	99	232
Outcomes	59	224
Lobectomy	59	221
Thoracic-surgery	57	219
Lung-cancer	52	169
Cancer	55	160
Complications	46	150
Cell lung-cancer	36	148
Thoracoscopic lobectomy	41	141
Diagnosis	50	126
Children	43	123
Assisted thoracic-surgery	29	110
Assisted thoracoscopic surgery	32	104
Survival	28	104
VATS	22	94
Thoracoscopy	35	85



**Figure S1** Visual analysis of keyword co-occurrence network analysis.



**Figure S2** Top 20 keywords with the strongest citation bursts (CiteSpace).