Supplementary

Table S1 Top 10 authors in terms of number of publications and frequency of co-citations

Rank	Author/documents/total link strength/countries or regions/institution	Author/co-citations/total link strength/countries or regions/institution
1	Cheng, Ya-Jung/15/44/Taiwan/Natl Taiwan Univ Hosp	Benumof, JL/468/3,907/United States/Univ Calif San Diego
2	Campos, Javier H./13/4/United States/University of Iowa Health Care	Campos, Javier H./432/3,700/United States/University of Iowa Health Care
3	Chen, Jin-Shing/13/43/Taiwan/Natl Taiwan Univ Hosp	Brodsky, JB/287/3,205/United States/Stanford University School of Medicine
4	Garutti, Ignacio/12/19/Spain/Hosp Gregorio Maranon	Slinger, P/195/2,353/Canada/Univ Toronto
5	Hung, Ming-Hui/12/42/Taiwan/Natl Taiwan Univ Hosp	Schilling, T/181/2,263/Germany/Otto von Guericke Univ
6	Hachenberg, Thomas/11/36/Germany/Otto von Guericke Univ	Slinger, P/181/2,773/Canada/Univ Toronto
7	Oh, Young Jun/11/8/Korea/Yonsei Univ	Licker, M/170/2,451/Switzerland/Univ Hosp Geneva
8	Schilling, Thomas/11/34/Germany/Otto von Guericke Univ	Tusman, G/170/2,893/Argentina/Hosp Privado Comunidad Mar Del Plata
9	Slinger, Peter/11/1/Canada/Univ Toronto	Cohen, E/147/1,830/United States/Mt Sinai Med Ctr
10	Ahn, Hyun Joo/10/15/Korea/Sungkyunkwan Univ	Karzai, W/141/1,368/Germany/Univ Jena

Table S2 Top 10 journals in terms of number of issues and co-citation frequency

Rank	Journal/publications/IF (JCR2021)/JCR quartile	Co-cited-journal/citations/IF (JCR2021)/JCR quartile
1	*Journal of Cardiothoracic and Vascular Anesthesia*/147/2.894/Q3	*Anesthesiology*/4,380/8.986/Q1
2	*Anesthesia and Analgesia*/92/6.627/Q1	*Anesthesia and Analgesia*/3,088/6.627/Q1
3	*Anesthesiology*/65/8.986/Q1	*British Journal of Anaesthesia*/2,205/11.719/Q1
4	*British Journal of Anaesthesia*/58/11.719/Q1	*Journal of Cardiothoracic and Vascular Anesthesia*/1,675/2.894/Q3
5	*Annals of Thoracic Surgery*/38/5.102/Q2	*Annals of Thoracic Surgery*/1,673/5.102/Q2
6	*Bmc Anesthesiology*/37/2.376/Q3	*Journal of Applied Physiology*/1,040/3.889/Q2
7	*Journal of Thoracic Disease*/35/3.005/Q3	*CHEST*/1,030/10.262/Q1
8	*Journal of Anesthesia*/35/2.931/Q3	*European Journal of Cardio-Thoracic Surgery*/893/6.439/Q2
9	*Current Opinion in Anesthesiology*/34/2.733/Q3	*Acta Anaesthesiologica Scandinavica*/785/2.274/Q4
10	*Medicine*/32/1.644/Q4	*European Journal of Cardio-Thoracic Surgery*/781/2.550/Q2

IF, impact factor; JCR, Journal Citation Reports.

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Table S3 Top 15 publications in terms of the frequency of citation

Rank	Author	Article title	Source title	Cited	Year	Document type	DOI
1	Sylvester *et al.*	Hypoxic Pulmonary Vasoconstriction	*Physiological Reviews*	424	2012	Review	10.1152/physrev.00041.2010
2	Michelet *et al.*	Protective ventilation influences systemic inflammation after esophagectomy: a randomized controlled study	*Anesthesiology*	270	2006	Article	10.1097/00000542-200611000-00011
3	Low *et al.*	Guidelines for Perioperative Care in Esophagectomy: Enhanced Recovery After Surgery (ERAS®) Society Recommendations	*World Journal of Surgery*	210	2019	Review	10.1007/s00268-018-4786-4
4	Stevens *et al.*	Port-access coronary artery bypass grafting: a proposed surgical method	*Journal of Thoracic and Cardiovascular Surgery*	205	1996	Article	10.1016/S0022-5223(96)70308-2
5	Lohser *et al.*	Lung Injury After One-Lung Ventilation: A Review of the Pathophysiologic Mechanisms Affecting the Ventilated and the Collapsed Lung	*Anesthesia and Analgesia*	195	2015	Review	10.1213/ANE.0000000000000808
6	De Conno *et al.*	Anesthetic-induced improvement of the inflammatory response to one-lung ventilation	*Anesthesiology*	185	2009	Article	10.1097/ALN.0b013e3181a10731
7	Karzai *et al.*	Hypoxemia during one-lung ventilation: prediction, prevention, and treatment	*Anesthesiology*	179	2009	Review	10.1097/ALN.0b013e31819fb15d
8	Zhao *et al.*	Evaluation of an Electrical Impedance Tomography-based Global Inhomogeneity Index for Pulmonary Ventilation Distribution	*Intensive Care Medicine*	163	2009	Article	10.1007/s00134-009-1589-y
9	Jordan *et al.*	The pathogenesis of lung injury following pulmonary resection	*European Respiratory Journal*	163	2000	Review	10.1034/j.1399-3003.2000.15d26.x
10	Schilling *et al.*	The pulmonary immune effects of mechanical ventilation in patients undergoing thoracic surgery	*Anesthesia and Analgesia*	159	2005	Article	10.1213/01.ane.0000172112.02902.77
11	Chen *et al.*	Nonintubated thoracoscopic lobectomy for lung cancer	*Annals of Surgery*	150	2011	Article	10.1097/SLA.0b013e31822ed19b
12	Lumb *et al.*	Hypoxic pulmonary vasoconstriction: physiology and anesthetic implications	*Anesthesiology*	149	2015	Review	10.1097/ALN.0000000000000569
13	Benumof *et al.*	One-lung ventilation and hypoxic pulmonary vasoconstriction: implications for anesthetic management	*Anesthesia and Analgesia*	145	1985	Review	10.1213/00000539-198508000-00014
14	Tandon *et al.*	Peri-operative risk factors for acute lung injury after elective oesophagectomy	*British Journal of Anaesthesia*	144	2001	Article	10.1093/bja/86.5.633
15	Klein *et al.*	Role of fiberoptic bronchoscopy in conjunction with the use of double-lumen tubes for thoracic anesthesia: a prospective study	*Anesthesiology*	144	1998	Article	10.1097/00000542-199802000-00012

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Table S4 Top 20 keywords in terms of frequency of occurrence

Rank	Keyword	Occurrences	Total link strength
1	One-lung ventilation	575	933
2	Thoracic surgery	154	290
3	Double-lumen tube	96	201
4	Bronchial blocker	73	173
5	Video-assisted thoracoscopic surgery	69	90
6	Anesthesia	66	158
7	Thoracoscopy	66	102
8	Thoracic anesthesia	42	80
9	Hypoxemia	40	82
10	Lung cancer	33	67
11	Surgery	33	67
12	Anesthesiology	32	64
13	Inflammation	32	75
14	Propofol	32	79
15	Esophagectomy	31	58
16	Airway management	29	70
17	Intubation	29	60
18	Sevoflurane	29	65
19	Positive end-expiratory pressure	28	54
20	Oxygenation	27	51

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