

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, JH/13/4/United States/University of Iowa Health Care | Campos, JH/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 | <i>Journal of Cardiothoracic and Vascular Anesthesia</i> /147/2.894/Q3 | <i>Anesthesiology</i> /4,380/8.986/Q1 |
| 2 | <i>Anesthesia and Analgesia</i> /92/6.627/Q1 | <i>Anesthesia and Analgesia</i> /3,088/6.627/Q1 |
| 3 | <i>Anesthesiology</i> /65/8.986/Q1 | <i>British Journal of Anaesthesia</i> /2,205/11.719/Q1 |
| 4 | <i>British Journal of Anaesthesia</i> /58/11.719/Q1 | <i>Journal of Cardiothoracic and Vascular Anesthesia</i> /1,675/2.894/Q3 |
| 5 | <i>Annals of Thoracic Surgery</i> /38/5.102/Q2 | <i>Annals of Thoracic Surgery</i> /1,673/5.102/Q2 |
| 6 | <i>Bmc Anesthesiology</i> /37/2.376/Q3 | <i>Journal of Applied Physiology</i> /1,040/3.889/Q2 |
| 7 | <i>Journal of Thoracic Disease</i> /35/3.005/Q3 | <i>CHEST</i> /1,030/10.262/Q1 |
| 8 | <i>Journal of Anesthesia</i> /35/2.931/Q3 | <i>European Journal of Cardio-Thoracic Surgery</i> /893/6.439/Q2 |
| 9 | <i>Current Opinion in Anesthesiology</i> /34/2.733/Q3 | <i>Acta Anaesthesiologica Scandinavica</i> /785/2.274/Q4 |
| 10 | <i>Medicine</i> /32/1.644/Q4 | <i>European Journal of Cardio-Thoracic Surgery</i> /781/2.550/Q2 |

IF, impact factor; JCR, Journal Citation Reports.

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

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 |