**Table 1.** Top 100 cited manuscripts in aortic valve replacement

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Rank** | **Author** | **Total citations** | **Rank** | **Author** | **Total citations** |
| 1 | Leon, MB | 3667 | 51 | Acar, C | 520 |
| 2 | Smith, CR | 3113 | 52 | Grube, E | 520 |
| 3 | Birkmeyer, JD | 3047 | 53 | Opie, LH | 515 |
| 4 | Lang, RM | 2906 | 54 | Nishimura, RA | 515 |
| 5 | Nishimura, RA | 2030 | 55 | Nishimura, RA | 513 |
| 6 | Birkmeyer, JD | 1902 | 56 | Vahanian, A | 510 |
| 7 | Cribier, A | 1696 | 57 | Brown, JM | 509 |
| 8 | Vahanian, A | 1602 | 58 | Geyer, H | 509 |
| 9 | Vahanian, A | 1592 | 59 | Helle-Valle, T | 488 |
| 10 | Bonow, RO | 1535 | 60 | Schmidt, CE | 487 |
| 11 | Vahanian, A | 1474 | 61 | Cribier, A | 486 |
| 12 | Iung, B | 1471 | 62 | Hachicha, Z | 484 |
| 13 | Kodali, SK | 1415 | 63 | Svensson, LG | 479 |
| 14 | Leon, MB | 1308 | 64 | Zahn, R | 478 |
| 15 | Bonow, RO | 1194 | 65 | Flett, AS | 476 |
| 16 | Adams, DH | 1181 | 66 | Almassi, GH | 470 |
| 17 | Habib, G | 1146 | 67 | Popma, JJ | 462 |
| 18 | Baumgartner, H | 1109 | 68 | Webb, JG | 453 |
| 19 | Rossebo, AB | 876 | 69 | Vincentelli, A | 448 |
| 20 | Kappetein, AP | 842 | 70 | Cribier, A | 441 |
| 21 | Tamburino, C | 824 | 71 | Holmes, DR | 438 |
| 22 | Baumgartner, H | 820 | 72 | Pellikka, PA | 423 |
| 23 | Gilard, M | 813 | 73 | Sun, GW | 420 |
| 24 | Rosenhek, R | 773 | 74 | Lichtenstein, SV | 418 |
| 25 | Webb, JG | 771 | 75 | Mewton, N | 413 |
| 26 | Makkar, RR | 748 | 76 | Thourani, VH | 412 |
| 27 | Nishimura, RA | 747 | 77 | Roberts, WC | 411 |
| 28 | LINDROOS, M | 740 | 78 | Kappetein, AP | 411 |
| 29 | Grube, E | 734 | 79 | Nishimura, RA | 411 |
| 30 | Rodes-Cabau, J | 724 | 80 | Hoffman, JIE | 408 |
| 31 | DAVID, TE | 700 | 81 | Kappetein, AP | 408 |
| 32 | Otto, CM | 671 | 82 | Thomas, M | 400 |
| 33 | Scanlon, PJ | 665 | 83 | Alexander, KP | 399 |
| 34 | Spirito, P | 664 | 84 | Borhani, NO | 396 |
| 35 | Bonow, RO | 659 | 85 | Pibarot, P | 392 |
| 36 | Mohler, ER | 651 | 86 | Sievers, HH | 389 |
| 37 | Webb, JG | 646 | 87 | Athappan, G | 389 |
| 38 | Moat, NE | 644 | 88 | Eltchaninoff, H | 388 |
| 39 | Finks, JF | 637 | 89 | Sturmer, T | 383 |
| 40 | Thomas, M | 621 | 90 | Ghaferi, AA | 378 |
| 41 | CRESWELL, LL | 616 | 91 | Weidemann, F | 373 |
| 42 | Iung, B | 608 | 92 | Makkar, RR | 369 |
| 43 | Hein, S | 606 | 93 | Blais, C | 368 |
| 44 | Hammermeister, K | 605 | 94 | Siu, SC | 368 |
| 45 | O'Brien, SM | 603 | 95 | Nishimura, RA | 367 |
| 46 | Reardon, MJ | 587 | 96 | Gott, VL | 365 |
| 47 | Mack, MJ | 566 | 97 | Thyregod, HGH | 360 |
| 48 | Cribier, A | 555 | 98 | Webb, JG | 359 |
| 49 | Judge, DP | 551 | 99 | Dvir, D | 351 |
| 50 | Eikelboom, JW | 545 | 100 | Abdel-Wahab, M | 350 |

**Table 2.** Journal of publication within the top 100 manuscripts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Journal** | **2018 Impact Factor** | **5 Year Impact Factor** | **Normalized Eigenfactor** | **Number of manuscripts** | **Citation count** |
| *New England Journal of Medicine* | 70.67 | 70.33 | 81.74 | 18 | 22458 |
| *Circulation* | 23.05 | 20.47 | 25.12 | 24 | 14719 |
| *Journal of the American College of Cardiology* | 18.64 | 19.07 | 22.97 | 21 | 13569 |
| *European Heart Journal* | 24.89 | 20.05 | 15.39 | 11 | 10014 |
| *Journal of thoracic and cardiovascular surgery* | 5.26 | 4.66 | 4.39 | 6 | 3001 |
| *European Heart Journal - Cardiovascular Imaging* | 5.26 | 6.43 | 2.57 | 1 | 2906 |
| *Lancet* | 59.10 | 54.66 | 50.92 | 5 | 2530 |
| *Annals of thoracic surgery* | 3.92 | 3.93 | 4.83 | 3 | 1739 |
| *European Journal Of Cardiothoracic Surgery* | 3.85 | 3.94 | 3.14 | 1 | 1592 |
| *Annals of Surgery* | 9.48 | 9.36 | 7.93 | 2 | 848 |
| *Journal of clinical epidemiology* | 4.65 | 5.65 | 3.46 | 2 | 803 |
| *Journal of the American Medical Association* | 51.27 | 46.31 | 35.79 | 2 | 747 |
| *Journal of The American society of echocardiography* | 6.11 | 5.89 | 1.91 | 1 | 509 |
| *Biomaterials* | 10.27 | 9.55 | 12.15 | 1 | 487 |
| *American Heart Journal* | 4.02 | 4.32 | 3.18 | 1 | 408 |
| *Heart* | 5.08 | 5.36 | 3.64 | 1 | 350 |

**Table 3.** Authors with the most citations within top 100 manuscripts

|  |  |  |  |
| --- | --- | --- | --- |
| **Rank** | **First author** | **Number of manuscripts** | **Citation count** |
| 1 | Vahanian, A | 4 | 5,178 |
| 2 | Leon, MB | 2 | 4,975 |
| 3 | Birkmeyer, JD | 2 | 4,949 |
| 4 | Nishimura, RA | 6 | 4,583 |
| 5 | Bonow, RO | 3 | 3,388 |
| 6 | Cribier, A | 4 | 3,178 |
| 7 | Smith, CR | 1 | 3,113 |
| 8 | Lang, RM | 1 | 2,906 |
| 9 | Webb, JG | 4 | 2,229 |
| 10 | Lung, B | 2 | 2,079 |

**Table 4.** Break down of most popular topics of interest within the top 100 manuscripts

|  |  |  |
| --- | --- | --- |
| **Topic** | **Number of manuscripts\*** | **Citation count** |
| Specific to both AS and AR | 32 | 33,336 |
| Specific to AS only | 33 | 22,638 |
| Transcatheter/Percutaneous approach | 29 | 20,702 |
| Management guidelines in AVR | 18 | 17,585 |
| Epidemiology and prognosis of AVR | 17 | 13,199 |
| Surgical technique comparison | 8 | 8,200 |
| Diagnosis and diagnostic guidelines | 7 | 5,846 |
| AR specifically | 2 | 739 |

\* Exceeds 100 as many manuscripts belong to multiple categories