Andreas Martens

List of Publications by Year
in descending order

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84 papers	2,894 citations	201385 27 h-index	182168 51 g-index
87 all docs	87 docs citations	87 times ranked	2502 citing authors

#	Article	IF	Citations
1	Current status and recommendations for use of the frozen elephant trunk technique: a position paper by the Vascular Domain of EACTS. European Journal of Cardio-thoracic Surgery, 2015, 47, 759-769.	0.6	266
2	The safety of moderate hypothermic lower body circulatory arrest with selective cerebral perfusion: A propensity score analysis. Journal of Thoracic and Cardiovascular Surgery, 2007, 133, 501-509.e2.	0.4	231
3	Induced pluripotent stem cell (iPSC)-derived Flk-1 progenitor cells engraft, differentiate, and improve heart function in a mouse model of acute myocardial infarction. European Heart Journal, 2011, 32, 2634-2641.	1.0	147
4	Total aortic arch replacement with a novel 4-branched frozen elephant trunk prosthesis: Single-center results of the first 100 patients. Journal of Thoracic and Cardiovascular Surgery, 2016, 152, 148-159.e1.	0.4	128
5	Total aortic arch replacement with a novel four-branched frozen elephant trunk graft: first-in-man resultsâ€. European Journal of Cardio-thoracic Surgery, 2013, 43, 406-410.	0.6	119
6	Management and Outcomes after Multiple Corneal and Solid Organ Transplantations from a Donor Infected with Rabies Virus. Clinical Infectious Diseases, 2010, 50, 1112-1119.	2.9	114
7	Single-centre experience with the frozen elephant trunk technique in 251 patients over 15â€‰‰yearsâ€. European Journal of Cardio-thoracic Surgery, 2017, 52, 858-866.	0.6	104
8	Sternal microcirculation after skeletonized versus pedicled harvesting of the internal thoracic artery: A randomized study. Journal of Thoracic and Cardiovascular Surgery, 2008, 135, 32-37.	0.4	100
9	The elephant trunk is freezing: The Hannover experience. Journal of Thoracic and Cardiovascular Surgery, 2015, 149, 1286-1293.	0.4	100
10	Total aortic arch replacement with the frozen elephant trunk technique: 10-year follow-up single-centre experienceâ€. European Journal of Cardio-thoracic Surgery, 2013, 44, 949-957.	0.6	90
11	Total aortic arch replacement with the frozen elephant trunk procedure in acute DeBakey type I aortic dissections. European Journal of Cardio-thoracic Surgery, 2017, 51, i29-i34.	0.6	87
12	Total aortic arch replacement with frozen elephant trunk technique: Results from two European institutes. Journal of Thoracic and Cardiovascular Surgery, 2020, 159, 1201-1211.	0.4	77
13	Total aortic arch replacement with frozen elephant trunk in acute type A aortic dissections: are we pushing the limits too far?â€. European Journal of Cardio-thoracic Surgery, 2015, 47, 361-366.	0.6	76
14	Bacteriophage Therapy for Critical Infections Related to Cardiothoracic Surgery. Antibiotics, 2020, 9, 232.	1.5	65
15	Total aortic arch replacement with the elephant trunk technique: single-centre 30-year results. European Journal of Cardio-thoracic Surgery, 2014, 45, 289-296.	0.6	63
16	Do not leave the heart arrested. Non-cardioplegic continuous myocardial perfusion during complex aortic arch repair improves cardiac outcome. European Journal of Cardio-thoracic Surgery, 2016, 49, 141-148.	0.6	63
17	Total aortic arch repair: risk factor analysis and follow-up in 199 patients. European Journal of Cardio-thoracic Surgery, 2016, 50, 940-948.	0.6	58
18	Valve-sparing David I procedure in acute aortic type A dissection: a 20-year experience with more than 100 patientsâ€. European Journal of Cardio-thoracic Surgery, 2017, 52, 319-324.	0.6	56

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19	Transplantation of purified iPSC-derived cardiomyocytes in myocardial infarction. PLoS ONE, 2017, 12, e0173222.	1.1	53
20	Minimally invasive valve sparing aortic root replacement (David procedure) is safe. Annals of Cardiothoracic Surgery, 2015, 4, 148-53.	0.6	42
21	Aortic valve replacement with sutureless prosthesis: better than root enlargement to avoid patientâ€“prosthesis mismatch?. Interactive Cardiovascular and Thoracic Surgery, 2016, 22, 744-749.	0.5	40
22	Is the branched graft technique better than the en bloc technique for total aortic arch replacement?. European Journal of Cardio-thoracic Surgery, 2014, 45, 181-187.	0.6	39
23	Minimally invasive surgery improves outcome of left ventricular assist device surgery in cardiogenic shock. Journal of Thoracic Disease, 2018, 10, S1696-S1702.	0.6	39
24	Management of early graft infections in the ascending aorta and aortic arch: a comparison between graft replacement and graft preservation techniques. European Journal of Cardio-thoracic Surgery, 2016, 50, 660-667.	0.6	37
25	Surgical treatment of coronary artery aneurysms. Journal of Cardiac Surgery, 2017, 32, 674-679.	0.3	37
26	Higher frequencies of BCRP+ cardiac resident cells in ischaemic human myocardium. European Heart Journal, 2013, 34, 2830-2838.	1.0	36
27	Elective David I Procedure Has Excellent Long-Term Results: 20-Year Single-Center Experience. Annals of Thoracic Surgery, 2018, 105, 731-738.	0.7	32
28	Is the frozen elephant trunk procedure superior to the conventional elephant trunk procedure for completion of the second stage?â€. European Journal of Cardio-thoracic Surgery, 2017, 52, 725-732.	0.6	28
29	Valve-sparing aortic root replacement (David I procedure) in Marfan disease: single-centre 20-year experience in more than 100 patientsâ€. European Journal of Cardio-thoracic Surgery, 2019, 55, 476-483.	0.6	28
30	Long-term results of the Mitroflow aortic pericardial bioprosthesis in over 800 patients: limited durability and mechanisms of dysfunctionâ€. European Journal of Cardio-thoracic Surgery, 2017, 52, 264-271.	0.6	26
31	Aortic valve-sparing root replacement with Tirone E. Davidâ€™s reimplantation technique: single-centre 25-year experience. European Journal of Cardio-thoracic Surgery, 2021, 60, 642-648.	0.6	24
32	Acute Treatment of ST-Segment-Elevation Myocardial Infarction: Is There a Role for the Cardiac Surgeon?. Annals of Thoracic Surgery, 2009, 88, 1786-1792.	0.7	23
33	Immediate surgical coronary revascularisation in patients presenting with acute myocardial infarction. Journal of Cardiothoracic Surgery, 2013, 8, 167.	0.4	23
34	Is Bentall Procedure Still the Gold Standard for Acute Aortic Dissection with Aortic Root Involvement?. Thoracic and Cardiovascular Surgeon, 2016, 64, 116-123.	0.4	23
35	Substantial Early Loss of Induced Pluripotent Stem Cells Following Transplantation in Myocardial Infarction. Artificial Organs, 2014, 38, 978-984.	1.0	21
36	Open total arch replacement with trifurcated graft and frozen elephant trunk. Annals of Cardiothoracic Surgery, 2020, 9, 170-177.	0.6	20

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37	Minimally invasive left ventricular assist device implantation with outflow graft anastomosis to the innominate artery. Journal of Thoracic and Cardiovascular Surgery, 2015, 149, e69-e70.	0.4	19
38	Right-Sided Heart Failure and Extracorporeal Life Support in Patients Undergoing Pericardiectomy for Constrictive Pericarditis: A Risk Factor Analysis for Adverse Outcome. Thoracic and Cardiovascular Surgeon, 2017, 65, 662-670.	0.4	19
39	Adverse Effects of Rabies Pre- and Postexposure Prophylaxis in 290 Health-Care-Workers Exposed to a Rabies Infected Organ Donor or Transplant Recipients. Infection, 2007, 35, 219-224.	2.3	17
40	Comparative Analysis of Rabies Virus Reverse Transcription-PCR and Virus Isolation Using Samples from a Patient Infected with Rabies Virus. Journal of Clinical Microbiology, 2010, 48, 2960-2962.	1.8	17
41	Stent distortion after sutureless aortic valve implantation: a new complication seen with a novel surgical technique. Interactive Cardiovascular and Thoracic Surgery, 2015, 20, 436-438.	0.5	17
42	Risk of Rabies Infection and Adverse Effects of Postexposure Prophylaxis in Healthcare Workers and Other Patient Contacts Exposed to a Rabies Virusâ€"Infected Lung Transplant Recipient. Infection Control and Hospital Epidemiology, 2007, 28, 513-518.	1.0	16
43	Transplantation Effectiveness of Induced Pluripotent Stem Cells Is Improved by a Fibrinogen Biomatrix in an Experimental Model of Ischemic Heart Failure. Tissue Engineering - Part A, 2015, 21, 1991-2000.	1.6	16
44	Aortic valve-sparing root replacement in patients with bicuspid aortic valve: long-term outcome with the David I procedure over 20 years. European Journal of Cardio-thoracic Surgery, 2020, 58, 86-93.	0.6	15
45	Laser-Supported CD133+ Cell Therapy in Patients with Ischemic Cardiomyopathy: Initial Results from a Prospective Phase I Multicenter Trial. PLoS ONE, 2014, 9, e101449.	1.1	14
46	In Vitro Evaluation of Inflow Cannula Fixation Techniques in Left Ventricular Assist Device Surgery. Artificial Organs, 2017, 41, 272-275.	1.0	14
47	Train early and with deliberate practice: simple coronary surgery simulation platform results in fast increase in technical surgical skills in residents and students. Interactive Cardiovascular and Thoracic Surgery, 2020, 30, 871-878.	0.5	14
48	Aortic valve-sparing root replacement (David): learning curve and impact on outcome. Interactive Cardiovascular and Thoracic Surgery, 2020, 30, 754-761.	0.5	14
49	Is total aortic arch replacement with the frozen elephant trunk procedure reasonable in elderly patients?. European Journal of Cardio-thoracic Surgery, 2021, 60, 131-137.	0.6	14
50	Rhesus monkey cardiosphere-derived cells for myocardial restoration. Cytotherapy, 2011, 13, 864-872.	0.3	13
51	Comparison of Two Strategies for Aortic Valve-Sparing Root Replacement. Annals of Thoracic Surgery, 2020, 109, 505-511.	0.7	13
52	Long-term follow-up of total arterial revascularization with left internal thoracic artery and radial artery T-grafts: survival, cardiac morbidity and quality of life. European Journal of Cardio-thoracic Surgery, 2016, 49, 1195-1200.	0.6	11
53	Frozen elephant trunk in acute aortic type a dissection: risk analysis of concomitant root replacement. European Journal of Cardio-thoracic Surgery, 2022, 62, .	0.6	10
54	Multimodal Imaging for In Vivo Evaluation of Induced Pluripotent Stem Cells in a Murine Model of Heart Failure. Artificial Organs, 2017, 41, 192-199.	1.0	9

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55	Routine Stent Bridging to the Supraaortic Vessels in Aortic Arch Replacement: 10-Year-Experience. Annals of Thoracic Surgery, 2022, 113, 1491-1497.	0.7	9
56	Macroscopic Fluorescence Imaging: A Novel Technique to Monitor Retention and Distribution of Injected Microspheres in an Experimental Model of Ischemic Heart Failure. PLoS ONE, 2014, 9, e101775.	1.1	8
57	Pressure level required during prolonged cerebral perfusion time has no impact on neurological outcome: a propensity score analysis of 800 patients undergoing selective antegrade cerebral perfusion. Interactive Cardiovascular and Thoracic Surgery, 2016, 23, 616-622.	0.5	8
58	The Unplanned Postoperative Coronary Angiogram after CABG: Identifying the Patients at Risk. Thoracic and Cardiovascular Surgeon, 2017, 65, 292-295.	0.4	8
59	Early surgical myocardial revascularization in non-ST-segment elevation acute coronary syndrome. Journal of Thoracic Disease, 2019, 11, 4444-4452.	0.6	8
60	Bronchoalveolar Sublineage Specification of Pluripotent Stem Cells: Effect of Dexamethasone Plus cAMP-Elevating Agents and Keratinocyte Growth Factor. Tissue Engineering - Part A, 2015, 21, 669-682.	1.6	7
61	Does the surgeon's experience have an impact on outcome after total arterial revascularization with composite T-grafts? A risk factor analysis. Interactive Cardiovascular and Thoracic Surgery, 2016, 23, 749-756.	0.5	7
62	Stent graft perforation of a frozen elephant prosthesis: does design matter?. Interactive Cardiovascular and Thoracic Surgery, 2015, 21, 688-690.	0.5	6
63	Total Arterial Revascularization with Radial Artery and Internal Thoracic Artery T-Grafts Is Associated with Superior Long-Term Survival in Patients Undergoing Coronary Artery Bypass Grafting. Annals of Thoracic and Cardiovascular Surgery, 2020, 26, 30-39.	0.3	6
64	Surgery for infective endocarditis following low-intermediate risk transcatheter aortic valve replacementâ€"a multicentre experience. European Journal of Cardio-thoracic Surgery, 2022, 62, .	0.6	5
65	Valve-sparing aortic root replacement using a straight tube graft (David I procedure). Journal of Thoracic and Cardiovascular Surgery, 2023, 166, 1387-1397.e10.	0.4	5
66	Surgical Experience in a Patient With Loeys-Dietz Syndrome TypeÂI. Annals of Thoracic Surgery, 2014, 97, e125-e127.	0.7	4
67	Intraoperative Changes in Cerebrospinal Fluid Gas Tensions Reflect Paraplegia During Thoracoabdominal Aortic Surgery. Vascular and Endovascular Surgery, 2015, 49, 84-92.	0.3	4
68	ECPR in acute aortic dissection â€“ Really a no-go?. American Journal of Emergency Medicine, 2019, 37, 1590-1591.	0.7	4
69	Generation of three induced pluripotent stem cell lines (MHHi012-A, MHHi013-A, MHHi014-A) from a family with Loeys-Dietz syndrome carrying a heterozygous p.M253I (c.759G>A) mutation in the TGFBR1 gene. Stem Cell Research, 2020, 43, 101707.	0.3	4
70	4D-flow cardiac magnetic resonance imaging after aortic root replacement with long-valved decellularized aortic homografts: comparison to valve-sparing aortic root replacement and healthy controls. European Journal of Cardio-thoracic Surgery, 2022, 61, 1307-1315.	0.6	4
71	ECLS supported transport of ICU patients: does out-of -house implantation impact survival?. Journal of Cardiothoracic Surgery, 2021, 16, 158.	0.4	3
72	David procedure through an upper partial sternotomy. Annals of Cardiothoracic Surgery, 2015, 4, 212-3.	0.6	3

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73	Repair of an acute Type A aortic dissection with<scp> LVAD</scp> patient after failed mitral and tricuspid operation. Clinical Case Reports (discontinued), 2016, 4, 387-389.	0.2	2
74	Prolonged myocardial protection during hypothermic storage: potential application for cardiac surgery and myocardial tissue engineering. Biomedical Physics and Engineering Express, 2018, 4, 035010.	0.6	2
75	Aortic Valveâ€“Sparing Root Replacement (David I Procedure) in Adolescents: Long-Term Outcome. Thoracic and Cardiovascular Surgeon, 2019, 69, 308-313.	0.4	2
76	Native and prosthetic graft infections of the thoracic aorta: surgical management. European Journal of Cardio-thoracic Surgery, 2021, 60, 633-641.	0.6	2
77	Total aortic arch replacements with a 4 branched Frozen Elephant Trunk (FET) Graft in Acute aortic dissection (DeBakey type I).. Operative Techniques in Thoracic and Cardiovascular Surgery, 2022, , .	0.2	2
78	Frozen elephant trunk versus single-stage open repair for extensive thoracic aortic disease. Journal of Thoracic and Cardiovascular Surgery, 2016, 151, 1216-1217.	0.4	1
79	Complex aortic arch repair in a patient with Takayasu's disease presenting with acute aortic dissection type Stanford A and complete collateral perfusion of the brain. Interactive Cardiovascular and Thoracic Surgery, 2016, 22, 384-386.	0.5	1
80	Total Arterial Revascularization with Radial Artery T-grafts in Patients with Significant Left Main Stem Stenosis Is Not Associated with Higher Perioperative Risk. Thoracic and Cardiovascular Surgeon, 2016, 64, 197-203.	0.4	0
81	Left Ventricular Intussusception of an Intimal Flap in an Aortic Dissection Stanford Type A. Aorta, 2017, 05, 101-102.	0.1	0
82	The No-Win Resuscitation: Ventricular Septal Rupture and Associated Acute Aortic Occlusion. Case Reports in Critical Care, 2018, 2018, 1-4.	0.2	0
83	Reply to Baikoussis et al.. European Journal of Cardio-thoracic Surgery, 2020, 58, 1106-1107.	0.6	0
84	Is aortic valve-sparing root reimplantation (David-I) justified in cardiac redo surgery?. Interactive Cardiovascular and Thoracic Surgery, 2022, , .	0.5	0