

Gianluca Polvani

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

1,653
citations

279487

23
h-index

329751

37
g-index

100
all docs

100
docs citations

100
times ranked

2044
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Vascular prosthetic Graft Infection: Epidemiology, Bacteriology, Pathogenesis and Treatment. Acta Chirurgica Belgica, 2002, 102, 238-247. | 0.2 | 129 |
| 2 | Systemic Inflammation After On-Pump and Off-Pump Coronary Bypass Surgery: A One-Month Follow-Up. Annals of Thoracic Surgery, 2007, 84, 823-828. | 0.7 | 102 |
| 3 | Fresh and Cryopreserved Arterial Homografts in the Treatment of Prosthetic Graft Infections: Experience of the Italian Collaborative Vascular Homograft Group. Annals of Vascular Surgery, 1998, 12, 457-462. | 0.4 | 101 |
| 4 | Meta-Analysis of Randomized Trials Comparing Off-Pump With On-Pump Coronary Artery Bypass Graft Patency. Annals of Thoracic Surgery, 2005, 80, 2121-2125. | 0.7 | 98 |
| 5 | Protectant Activity of Hexarelin or Growth Hormone Against Postischemic Ventricular Dysfunction in Hearts from Aged Rats. Journal of Cardiovascular Pharmacology, 1998, 32, 260-265. | 0.8 | 74 |
| 6 | The radial artery: which place in coronary operation?. Annals of Thoracic Surgery, 2000, 69, 1288-1294. | 0.7 | 60 |
| 7 | P2 receptors in human heart: upregulation of P2X6 in patients undergoing heart transplantation, interaction with TNF α and potential role in myocardial cell death. Journal of Molecular and Cellular Cardiology, 2005, 39, 929-939. | 0.9 | 48 |
| 8 | Proteomic analysis of membrane microdomains derived from both failing and non-failing human hearts. Proteomics, 2006, 6, 1976-1988. | 1.3 | 46 |
| 9 | Mechanical Compliance and Immunological Compatibility of Fixative-Free Decellularized/Cryopreserved Human Pericardium. PLoS ONE, 2013, 8, e64769. | 1.1 | 39 |
| 10 | Administration of Octreotide for Management of Postoperative High-Flow Chylothorax. Annals of Vascular Surgery, 2007, 21, 90-92. | 0.4 | 32 |
| 11 | Determinants of Early and Late Outcome after Surgery for Type A Aortic Dissection. World Journal of Surgery, 2001, 25, 1500-1506. | 0.8 | 31 |
| 12 | Do Women Currently Receive the Same Standard of Care in Coronary Artery Bypass Graft Procedures as Men? A Propensity Analysis. Annals of Thoracic Surgery, 2008, 85, 885-890. | 0.7 | 31 |
| 13 | Lack of Association Between Serum Immunoreactivity and Chlamydia pneumoniae Detection in the Human Aortic Wall. Circulation, 2002, 106, 2647-2648. | 1.6 | 28 |
| 14 | Six-year monitoring of the donor-specific immune response to cryopreserved aortic allograft valves: Implications with valve dysfunction. Annals of Thoracic Surgery, 2004, 78, 557-563. | 0.7 | 27 |
| 15 | The role of tissue factor and P-selectin in the procoagulant response that occurs in the first month after on-pump and off-pump coronary artery bypass grafting. Journal of Thoracic and Cardiovascular Surgery, 2005, 130, 1561-1566.e2. | 0.4 | 27 |
| 16 | Adventitial Vessel Growth and Progenitor Cells Activation in an Ex Vivo Culture System Mimicking Human Saphenous Vein Wall Strain after Coronary Artery Bypass Grafting. PLoS ONE, 2015, 10, e0117409. | 1.1 | 26 |
| 17 | Experimental Tracheal Transplantation Using a Cryopreserved Aortic Allograft. European Surgical Research, 1999, 31, 210-215. | 0.6 | 25 |
| 18 | Epigenetic Programming and Risk: The Birthplace of Cardiovascular Disease?. Stem Cell Reviews and Reports, 2013, 9, 241-253. | 5.6 | 25 |

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|----|--|-----|-----------|
| 19 | Fertilizing a Patient Engagement Ecosystem to Innovate Healthcare: Toward the First Italian Consensus Conference on Patient Engagement. <i>Frontiers in Psychology</i> , 2017, 8, 812. | 1.1 | 25 |
| 20 | Ectopic Thyroid Tissue in the Ventricular Outflow Tract: Embryologic Implications. <i>Cardiology</i> , 1995, 86, 524-526. | 0.6 | 24 |
| 21 | Nitric oxide and prostacyclin pathways: An integrated mechanism that limits myocardial infarction progression in anaesthetized rats. <i>Pharmacological Research</i> , 2006, 53, 359-366. | 3.1 | 24 |
| 22 | On- and off-pump coronary surgery and perioperative myocardial infarction: an issue between incomplete and extensive revascularization. <i>European Journal of Cardio-thoracic Surgery</i> , 2008, 34, 118-126. | 0.6 | 24 |
| 23 | Heart valve engineering: decellularized aortic homograft seeded with human cardiac stromal cells. <i>Journal of Heart Valve Disease</i> , 2012, 21, 125-34. | 0.5 | 24 |
| 24 | Minimally invasive direct coronary artery bypass grafting: midterm results and quality of life. <i>Annals of Thoracic Surgery</i> , 2000, 70, 456-460. | 0.7 | 23 |
| 25 | Redox Proteomics Identification of Oxidatively Modified Myocardial Proteins in Human Heart Failure: Implications for Protein Function. <i>PLoS ONE</i> , 2012, 7, e35841. | 1.1 | 23 |
| 26 | Residual Antibiotics in Decontaminated Human Cardiovascular Tissues Intended for Transplantation and Risk of Falsely Negative Microbiological Analyses. <i>PLoS ONE</i> , 2014, 9, e112679. | 1.1 | 23 |
| 27 | Coronary artery mechanics induces human saphenous vein remodelling <i>via</i> recruitment of adventitial myofibroblast-like cells mediated by Thrombospondin-1. <i>Theranostics</i> , 2020, 10, 2597-2611. | 4.6 | 23 |
| 28 | Single Center Five Years [™] Experience of Ozaki Procedure: Midterm Follow-up. <i>Annals of Thoracic Surgery</i> , 2021, 111, 1937-1943. | 0.7 | 23 |
| 29 | Oxygen metabolism during and after cardiac surgery: role of CPB. <i>Annals of Thoracic Surgery</i> , 2003, 76, 737-743. | 0.7 | 22 |
| 30 | A compact and automated <i>ex vivo</i> vessel culture system for the pulsatile pressure conditioning of human saphenous veins. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, E204-E215. | 1.3 | 22 |
| 31 | European prospective multicentre study of hybrid thoracoscopic and transcatheter ablation of persistent atrial fibrillation: the HISTORIC-AF trial. <i>European Journal of Cardio-thoracic Surgery</i> , 2017, 52, 740-745. | 0.6 | 22 |
| 32 | Double vs single internal thoracic artery harvesting in diabetic patients: role in perioperative infection rate. <i>Journal of Cardiothoracic Surgery</i> , 2008, 3, 35. | 0.4 | 20 |
| 33 | Feasibility of pig and human [∞] derived aortic valve interstitial cells seeding on fixative [∞] free decellularized animal pericardium. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 345-356. | 1.6 | 19 |
| 34 | One-year outcomes after rapid-deployment aortic valve replacement. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 155, 575-585. | 0.4 | 19 |
| 35 | Reduction Ascending Aortoplasty: Midterm Follow-Up and Predictors of Redilatation. <i>Annals of Thoracic Surgery</i> , 2006, 82, 586-591. | 0.7 | 18 |
| 36 | Role of Hyperbaric Oxygen Therapy in the Treatment of Postoperative Organ/Space Sternal Surgical Site Infections. <i>World Journal of Surgery</i> , 2007, 31, 1702-1706. | 0.8 | 18 |

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|----|--|-----|-----------|
| 37 | Aortic valve cell seeding into decellularized animal pericardium by perfusion-assisted bioreactor. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1481-1493. | 1.3 | 18 |
| 38 | Effect of Cryopreservation Techniques on Aortic Valve Glycosaminoglycans. <i>Artificial Organs</i> , 2006, 30, 259-264. | 1.0 | 17 |
| 39 | Retention of endothelium-dependent properties in human mammary arteries after cryopreservation. <i>Annals of Thoracic Surgery</i> , 1996, 61, 667-673. | 0.7 | 15 |
| 40 | Flexible posterior mitral annuloplasty: five-year clinical and Doppler echocardiographic results. <i>Annals of Thoracic Surgery</i> , 1998, 66, 1692-1697. | 0.7 | 14 |
| 41 | Abdominal Aortic Aneurysm Repair in Octogenarians: Outcomes and Predictors. <i>European Journal of Vascular and Endovascular Surgery</i> , 2006, 31, 464-469. | 0.8 | 13 |
| 42 | Self-closing Nitinol U-Clips for intracranial arterial microanastomosis: a preliminary experience on seven cases. <i>Acta Neurochirurgica</i> , 2009, 151, 969-976. | 0.9 | 13 |
| 43 | Tools and Procedures for Ex Vivo Vein Arterialization, Preconditioning and Tissue Engineering: A Step Forward to Translation to Combat the Consequences of Vascular Graft Remodeling. <i>Recent Patents on Cardiovascular Drug Discovery</i> , 2012, 7, 186-195. | 1.5 | 13 |
| 44 | Cyclic Intermittent Aortic Regurgitation of a Mechanical Bileaflet Aortic Valve Prosthesis: Diagnosis and Clinical Implications. <i>Journal of the American Society of Echocardiography</i> , 2007, 20, 1315.e5-1315.e8. | 1.2 | 11 |
| 45 | Combining Stem Cells and Tissue Engineering in Cardiovascular Repair - a Step Forward to Derivation of Novel Implants with Enhanced Function and Self-Renewal Characteristics. <i>Recent Patents on Cardiovascular Drug Discovery</i> , 2012, 7, 10-20. | 1.5 | 10 |
| 46 | Human Saphenous Vein Response to Trans-wall Oxygen Gradients in a Novel Ex Vivo Conditioning Platform. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1449-1461. | 1.3 | 10 |
| 47 | Fine characterization of mitral valve glycosaminoglycans and their modification with degenerative disease. <i>Clinical Chemistry and Laboratory Medicine</i> , 2007, 45, 361-6. | 1.4 | 9 |
| 48 | Endoscopic Radial Artery Harvesting for U-Clip EC-IC Bypass in the Treatment of a Giant Petrous Internal Carotid Artery Aneurysm: Technical Case Report. <i>Minimally Invasive Neurosurgery</i> , 2009, 52, 186-189. | 0.9 | 9 |
| 49 | Culture Into Perfusion-Assisted Bioreactor Promotes Valve-Like Tissue Maturation of Recellularized Pericardial Membrane. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 80. | 1.1 | 9 |
| 50 | Intracardiac ectopic thyroid: Conservative surgical treatment. <i>Annals of Thoracic Surgery</i> , 1993, 55, 1249-1251. | 0.7 | 8 |
| 51 | Acute effects of 17 β -estradiol on left internal mammary graft after coronary artery bypass grafting. <i>Annals of Thoracic Surgery</i> , 2002, 74, 695-699. | 0.7 | 8 |
| 52 | The Aminotetraline Derivative (\hat{A} \pm)-(R,S)-5,6-Dihydroxy-2-methylamino-1,2,3,4-tetrahydro-naphthalene Hydrochloride (CHF-1024) Displays Cardioprotection in Postischemic Ventricular Dysfunction of the Rat Heart. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 307, 633-639. | 1.3 | 8 |
| 53 | Sutureless patch-and-glue technique for the repair of coronary sinus injuries. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007, 134, 522-523. | 0.4 | 8 |
| 54 | Composite graft using an Edwards Intuity Elite rapid deployment bioprosthesis for aortic root replacement. <i>Journal of Cardiac Surgery</i> , 2017, 32, 193-195. | 0.3 | 8 |

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|----|---|-----|-----------|
| 55 | Nitric oxide-releasing aspirin inhibits vasoconstriction in perfused tail artery of normotensive and spontaneously hypertensive rats. <i>European Journal of Pharmacology</i> , 2003, 477, 59-68. | 1.7 | 7 |
| 56 | Aggressive Surgical Approach for Treatment of Primary and Recurrent Retroperitoneal Soft Tissue Sarcoma. <i>Indian Journal of Surgery</i> , 2018, 80, 154-162. | 0.2 | 7 |
| 57 | Lercanidipine Protects the Heart from Low-Flow Ischemia Damage and Antagonizes the Vasopressor Activity of Endothelin-1. <i>Journal of Cardiovascular Pharmacology</i> , 1997, 29, S41-S47. | 0.8 | 6 |
| 58 | A rationale multidisciplinary approach for treatment of esophageal and gastroesophageal junction cancer: Accurate review of management and perspectives. <i>Critical Reviews in Oncology/Hematology</i> , 2018, 132, 161-168. | 2.0 | 6 |
| 59 | Effects of Warm Ischemia on Valve Endothelium. <i>Annals of Thoracic Surgery</i> , 1997, 63, 656-662. | 0.7 | 5 |
| 60 | Rates of Cycling Cells in Cryopreserved Valvular Homograft: A Preliminary Study. <i>Artificial Organs</i> , 2007, 31, 152-154. | 1.0 | 5 |
| 61 | Endoscopic radial artery harvesting for U-clip high-flow EC-IC bypass. <i>Acta Neurochirurgica</i> , 2009, 151, 529-535. | 0.9 | 5 |
| 62 | Patents and Heart Valve Surgery - I: Mechanical Valves. <i>Recent Patents on Cardiovascular Drug Discovery</i> , 2013, 8, 17-34. | 1.5 | 5 |
| 63 | Acute Aortic Insufficiency due to Rupture of an Aortic Valve Commissure. <i>Journal of Cardiac Surgery</i> , 2014, 29, 497-498. | 0.3 | 5 |
| 64 | Extracardiac myxoma: An unusual right ventricular epicardial location. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1997, 114, 672-674. | 0.4 | 4 |
| 65 | Establishing a procedure for dimethyl sulfoxide removal from cardiovascular allografts: a quantitative study. <i>Cell and Tissue Banking</i> , 2013, 14, 205-212. | 0.5 | 4 |
| 66 | Postoperative dissecting ventricular haematoma: a conservative strategy with a cardiac magnetic resonance imaging follow-up. <i>European Heart Journal Cardiovascular Imaging</i> , 2014, 15, 1151-1151. | 0.5 | 4 |
| 67 | Acute ascending aortic dissection associated with chronic intramural hematoma. <i>Journal of Cardiac Surgery</i> , 2016, 31, 628-630. | 0.3 | 4 |
| 68 | The Future of Human Valve Allografts: Bioengineering and Stem Cells. ... <i>Artificial Organs</i> , 2005, 29, 923-923. | 1.0 | 3 |
| 69 | Recycling thoracic arteries for redo coronary artery bypass grafting: Long-term follow-up. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007, 134, 233-235. | 0.4 | 3 |
| 70 | Normal human mitral valve proteome: A preliminary investigation by gelatin-based and gelatin-free proteomic approaches. <i>Electrophoresis</i> , 2016, 37, 2633-2643. | 1.3 | 3 |
| 71 | Retrograde type A aortic dissection from a distal aortic arch stent graft. <i>Journal of Cardiac Surgery</i> , 2017, 32, 708-709. | 0.3 | 3 |
| 72 | Multidetector Computed Tomography Findings of Ectopia Cordis and Other Components of Pentalogy of Cantrell: A Case Report. <i>Heart Surgery Forum</i> , 2007, 10, E431-E433. | 0.2 | 3 |

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|----|--|-----|-----------|
| 73 | Efficacy of off-pump coronary artery bypass grafting in high-risk patients. <i>Annals of Thoracic Surgery</i> , 2001, 71, 1750-1751. | 0.7 | 2 |
| 74 | Long-Term Results After Aortic Valve Replacement With the Bravo 400 Stentless Xenograft. <i>Annals of Thoracic Surgery</i> , 2005, 80, 495-501. | 0.7 | 2 |
| 75 | 17 β -estradiol effects on human coronaries and grafts employed in myocardial revascularization: a preliminary study. <i>Journal of Cardiothoracic Surgery</i> , 2006, 1, 46. | 0.4 | 2 |
| 76 | A case of asymptomatic high-grade aortic coarctation. <i>Heart</i> , 2008, 94, 82-82. | 1.2 | 2 |
| 77 | Saphenous Vein Cannulation in Re-Redo Cardiac Surgery. <i>Journal of Cardiac Surgery</i> , 2012, 27, 676-677. | 0.3 | 2 |
| 78 | Severe Tricuspid Regurgitation After Percutaneous Removal of a Swan-Ganz Catheter Caught by Suture. <i>Annals of Thoracic Surgery</i> , 2017, 104, e225-e226. | 0.7 | 2 |
| 79 | Right Ventricular Function After Minimally Invasive Mitral Valve Surgery. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2022, 36, 1073-1080. | 0.6 | 2 |
| 80 | Preoperative Ozaki technique measures on tridimensional engineered root. <i>Journal of Cardiovascular Computed Tomography</i> , 2022, 16, 51-53. | 0.7 | 2 |
| 81 | Long-term secondary cardiovascular prevention programme in patients subjected to coronary artery bypass surgery. <i>European Journal of Preventive Cardiology</i> , 2020, , . | 0.8 | 2 |
| 82 | Cavoatrial Metastases from Cutaneous Melanoma. <i>Journal of Cardiac Surgery</i> , 2014, 29, 795-796. | 0.3 | 1 |
| 83 | Postdilatation ballooning of an Edwards ELITE rapid deployment bioprosthesis for a severe paravalvular leak. <i>Journal of Cardiac Surgery</i> , 2016, 31, 515-516. | 0.3 | 1 |
| 84 | Pseudoaneurysm of the left ventricular outflow tract after cardiac surgery. <i>International Journal of Cardiovascular Imaging</i> , 2017, 33, 749-750. | 0.7 | 1 |
| 85 | Repair of a pseudoaneurysm following a Yacoub procedure. <i>Journal of Cardiac Surgery</i> , 2018, 33, 133-134. | 0.3 | 1 |
| 86 | Undiagnosed mitroflow bioprosthesis deformation causing early structural valve deterioration. <i>General Thoracic and Cardiovascular Surgery</i> , 2018, 66, 543-545. | 0.4 | 1 |
| 87 | Epicardial, Biatrial Ablation with Integrated Uni-Bipolar Radiofrequency Technology in Stand-Alone Persistent Atrial Fibrillation. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2018, 13, 114-119. | 0.4 | 1 |
| 88 | Concurrent coronary and carotid artery surgery: an open debate. <i>European Heart Journal</i> , 2005, 27, 1258-1259. | 1.0 | 0 |
| 89 | What patients want: A new biological era in valvular prostheses. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2006, 132, 443-444. | 0.4 | 0 |
| 90 | Are the aortic anatomical normal leaflets, normal leaflets?â€†. <i>European Journal of Cardio-thoracic Surgery</i> , 2006, 30, 411-411. | 0.6 | 0 |

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|----|--|-----|-----------|
| 91 | Multifactorial Bases of Stroke After Cardiac Surgery. <i>Stroke</i> , 2007, 38, 1140-1140. | 1.0 | 0 |
| 92 | The Challenge of Homograft Tissue Banks: The Viability of Cryopreserved Valvular Homografts. <i>Journal of Heart and Lung Transplantation</i> , 2007, 26, 964-965. | 0.3 | 0 |
| 93 | Expanding extrapleural hematoma from rib fractures after cardiac surgery. <i>Asian Cardiovascular and Thoracic Annals</i> , 2013, 21, 366-368. | 0.2 | 0 |
| 94 | Optimized Protocol for the Extraction of Proteins from the Human Mitral Valve. <i>Journal of Visualized Experiments</i> , 2017, , . | 0.2 | 0 |
| 95 | Emergent redo surgery for double self-expanding valve migration during transcatheter implantation. <i>Journal of Cardiac Surgery</i> , 2017, 32, 648-649. | 0.3 | 0 |
| 96 | Lower limb ischemia management in acute Stanford type A aortic dissection. <i>Journal of Cardiovascular Surgery</i> , 2018, 59, 297-299. | 0.3 | 0 |
| 97 | CRYOPRESERVATION OF PORCINE AORTIC VALVE: OPEN STATUS OF THE AORTIC LEAFLETS RESULTS IN INCREASED MATRIX GLYCOSAMINOGLYCANS STRUCTURAL MAINTENANCE. , 2004, , 485-499. | | 0 |