

# Arthur W Wallace

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8526262/publications.pdf>

Version: 2024-02-01

64  
papers

4,321  
citations

257101

24  
h-index

149479

56  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2505  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                                                                                                            | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | SARS-CoV-2 vaccine protection and deaths among US veterans during 2021. <i>Science</i> , 2022, 375, 331-336.                                                                                                                                                                                                       | 6.0 | 202       |
| 2  | Sharing Lessons Learned to Prevent Adverse Events in Anesthesiology Nationwide. <i>Journal of Patient Safety</i> , 2021, 17, e343-e349.                                                                                                                                                                            | 0.7 | 1         |
| 3  | A kinematic model-based analysis framework for 3D Cine-MRI validation with an axially compressed gel phantom and application in sheep before and after anteroapical myocardial infarction. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2105-2121.                                                            | 1.9 | 0         |
| 4  | Finite-element based optimization of left ventricular passive stiffness in normal volunteers and patients after myocardial infarction: Utility of an inverse deformation gradient calculation of regional diastolic strain. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 119, 104431. | 1.5 | 12        |
| 5  | A finite element model of the cardiac ventricles with coupled circulation: Biventricular mesh generation with hexahedral elements, airbags and a functional mockup interface to the circulation. <i>Computers in Biology and Medicine</i> , 2021, 137, 104840.                                                     | 3.9 | 4         |
| 6  | Association of the patterns of use of medications with mortality of COVID-19 infection: a hospital-based observational study. <i>BMJ Open</i> , 2021, 11, e050051.                                                                                                                                                 | 0.8 | 6         |
| 7  | Combined Intravenous Sildenafil and L-Arginine Administration in a Porcine Animal Model: Hemodynamic Safety Profile and Effects on Coronary Blood Flow. <i>Drugs in R and D</i> , 2020, 20, 279-290.                                                                                                               | 1.1 | 0         |
| 8  | Left ventricular geometry during unloading and the end-systolic pressure volume relationship: Measurement with a modified real-time MRI-based method in normal sheep. <i>PLoS ONE</i> , 2020, 15, e0234896.                                                                                                        | 1.1 | 3         |
| 9  | Myocardial injection of a thermoresponsive hydrogel with reactive oxygen species scavenger properties improves border zone contractility. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1736-1746.                                                                                         | 2.1 | 16        |
| 10 | Freedom From Opioids After Total Knee Arthroplasty. <i>Journal of Arthroplasty</i> , 2019, 34, 893-897.                                                                                                                                                                                                            | 1.5 | 14        |
| 11 | Investigation of possible aqueous phase formation during vaporization of sevoflurane. <i>Journal of Anaesthesiology Clinical Pharmacology</i> , 2019, 35, 76-80.                                                                                                                                                   | 0.2 | 0         |
| 12 | E-cigarettes versus nicotine patches for perioperative smoking cessation: a pilot randomized trial. <i>PeerJ</i> , 2018, 6, e5609.                                                                                                                                                                                 | 0.9 | 43        |
| 13 | Acute Pain Is Associated With Chronic Opioid Use After Total Knee Arthroplasty. <i>Regional Anesthesia and Pain Medicine</i> , 2018, 43, 1.                                                                                                                                                                        | 1.1 | 29        |
| 14 | Short term doxycycline treatment induces sustained improvement in myocardial infarction border zone contractility. <i>PLoS ONE</i> , 2018, 13, e0192720.                                                                                                                                                           | 1.1 | 13        |
| 15 | Association Between Withholding Angiotensin Receptor Blockers in the Early Postoperative Period and 30-day Mortality. <i>Survey of Anesthesiology</i> , 2016, 60, 35-36.                                                                                                                                           | 0.1 | 0         |
| 16 | In Reply. <i>Anesthesiology</i> , 2016, 124, 513-514.                                                                                                                                                                                                                                                              | 1.3 | 0         |
| 17 | Sevoflurane Contamination. <i>A &amp; A Case Reports</i> , 2016, 6, 399-401.                                                                                                                                                                                                                                       | 0.7 | 4         |
| 18 | Moderate Ischemic Mitral Regurgitation After Posterolateral Myocardial Infarction in Sheep Alters Left Ventricular Shear but Not Normal Strain in the Infarct and Infarct Borderzone. <i>Annals of Thoracic Surgery</i> , 2016, 101, 1691-1699.                                                                    | 0.7 | 10        |

| #  | ARTICLE                                                                                                                                                                                                                                         | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Association between Withholding Angiotensin Receptor Blockers in the Early Postoperative Period and 30-day Mortality. <i>Anesthesiology</i> , 2015, 123, 288-306.                                                                               | 1.3 | 66        |
| 20 | Thirty-day mortality risk associated with the postoperative nonresumption of angiotensin-converting enzyme inhibitors: A retrospective study of the veterans affairs healthcare system. <i>Journal of Hospital Medicine</i> , 2014, 9, 289-296. | 0.7 | 45        |
| 21 | Effectiveness of preoperative beta-blockade on intra-operative heart rate in vascular surgery cases conducted under regional or local anesthesia. <i>SpringerPlus</i> , 2014, 3, 227.                                                           | 1.2 | 1         |
| 22 | Left Ventricular Myocardial Contractility Is Depressed in the Borderzone After Posterolateral Myocardial Infarction. <i>Annals of Thoracic Surgery</i> , 2013, 95, 1619-1625.                                                                   | 0.7 | 27        |
| 23 | A coupled biventricular finite element and lumped-parameter circulatory system model of heart failure. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 807-818.                                                  | 0.9 | 26        |
| 24 | Left Ventricular Pressure Gating in Ovine Cardiac Studies: A Software-Based Method. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 34502.                                                                                             | 0.6 | 1         |
| 25 | Risk of Acute Myocardial Infarction in Patients With Total Hip or Knee Replacement. <i>Archives of Internal Medicine</i> , 2012, 172, 1235.                                                                                                     | 4.3 | 5         |
| 26 | The Benefit of Enhanced Contractility in the Infarct Borderzone: A Virtual Experiment. <i>Frontiers in Physiology</i> , 2012, 3, 86.                                                                                                            | 1.3 | 11        |
| 27 | The Effect of Mitral Annuloplasty Shape in Ischemic Mitral Regurgitation: A Finite Element Simulation. <i>Annals of Thoracic Surgery</i> , 2012, 93, 776-782.                                                                                   | 0.7 | 51        |
| 28 | Critical Conversation. <i>ICU Director</i> , 2011, 2, 93-96.                                                                                                                                                                                    | 0.2 | 1         |
| 29 | Contractility is depressed in the borderzone in sheep with ischemic mitral regurgitation. <i>Journal of the American College of Surgeons</i> , 2011, 213, S35-S36.                                                                              | 0.2 | 0         |
| 30 | Comparison of the Young-Laplace Law and Finite Element Based Calculation of Ventricular Wall Stress: Implications for Postinfarct and Surgical Ventricular Remodeling. <i>Annals of Thoracic Surgery</i> , 2011, 91, 150-156.                   | 0.7 | 43        |
| 31 | Moderate Mitral Regurgitation Accelerates Left Ventricular Remodeling After Posterolateral Myocardial Infarction. <i>Annals of Thoracic Surgery</i> , 2011, 92, 1614-1620.                                                                      | 0.7 | 25        |
| 32 | A Biventricular Finite Element Model of Heart Failure for Predicting the Effects of Treatment Strategies. , 2011, , .                                                                                                                           |     | 0         |
| 33 | Association of the Pattern of Use of Perioperative $\beta$ -Blockade and Postoperative Mortality. <i>Anesthesiology</i> , 2010, 113, 794-805.                                                                                                   | 1.3 | 153       |
| 34 | First Finite Element Model of the Left Ventricle With Mitral Valve: Insights Into Ischemic Mitral Regurgitation. <i>Annals of Thoracic Surgery</i> , 2010, 89, 1546-1553.                                                                       | 0.7 | 109       |
| 35 | A Computationally Efficient Formal Optimization of Regional Myocardial Contractility in a Sheep With Left Ventricular Aneurysm. <i>Journal of Biomechanical Engineering</i> , 2009, 131, 111001.                                                | 0.6 | 73        |
| 36 | Pharmacologic C5-Complement Suppression Reduces Blood Loss During On-Pump Cardiac Surgery. <i>Journal of Cardiac Surgery</i> , 2005, 20, 35-41.                                                                                                 | 0.3 | 7         |

| #  | ARTICLE                                                                                                                                                                                                                             | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Special Considerations in Perioperative Pain Management: Audiovisual Distraction, Geriatrics, Pediatrics, and Pregnancy. <i>Journal of the American College of Surgeons</i> , 2005, 201, 612-618.                                   | 0.2 | 3         |
| 38 | Helical myofiber orientation after myocardial infarction and left ventricular surgical restoration in sheep. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2005, 129, 382-390.                                            | 0.4 | 76        |
| 39 | Left ventricular volume and function after endoventricular patch plasty for dyskinetic anteroapical left ventricular aneurysm in sheep. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2005, 130, 1032-1038.               | 0.4 | 26        |
| 40 | MRI-based finite-element analysis of left ventricular aneurysm. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H692-H700.                                                                    | 1.5 | 179       |
| 41 | Effect of Ventricular Size and Patch Stiffness in Surgical Anterior Ventricular Restoration: A Finite Element Model Study. <i>Annals of Thoracic Surgery</i> , 2005, 79, 185-193.                                                   | 0.7 | 62        |
| 42 | Effect of Clonidine on Cardiovascular Morbidity and Mortality after Noncardiac Surgery. <i>Anesthesiology</i> , 2004, 101, 284-293.                                                                                                 | 1.3 | 315       |
| 43 | Myosplint decreases wall stress without depressing function in the failing heart: a finite element model study. <i>Annals of Thoracic Surgery</i> , 2003, 76, 1171-1180.                                                            | 0.7 | 52        |
| 44 | Left Ventricular Volume Reduction by Radiofrequency Heating of Chronic Myocardial Infarction in Patients With Congestive Heart Failure. <i>Circulation</i> , 2002, 105, 1317-1322.                                                  | 1.6 | 12        |
| 45 | A Finite Element Model of Left Ventricular Cellular Transplantation in Dilated Cardiomyopathy. <i>ASAIO Journal</i> , 2002, 48, 508-513.                                                                                            | 0.9 | 11        |
| 46 | Prophylactic Clonidine Reduces Mortality after Non-Cardiac Surgery. <i>Anesthesiology</i> , 2002, 96, A247.                                                                                                                         | 1.3 | 0         |
| 47 | Cardiopulmonary complications following cardiac surgery. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2001, 3, 125-137.                                                                                            | 0.4 | 1         |
| 48 | Residual stress produced by ventricular volume reduction surgery has little effect on ventricular function and mechanics: A finite element model study. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2001, 122, 592-599. | 0.4 | 42        |
| 49 | Interaction of L-Arginine and Phosphodiesterase Inhibitors in Vasodilation of the Porcine Internal Mammary Artery. <i>Anesthesia and Analgesia</i> , 2000, 9, 840-846.                                                              | 1.1 | 3         |
| 50 | Radio frequency heating of chronic ovine infarct leads to sustained infarct area and ventricular volume reduction. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2000, 119, 1194-1204.                                    | 0.4 | 13        |
| 51 | Ventricular volume, chamber stiffness, and function after anteroapical aneurysm plication in the sheep. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2000, 119, 115-124.                                                 | 0.4 | 45        |
| 52 | Interaction of L-Arginine and Phosphodiesterase Inhibitors in Vasodilation of the Porcine Internal Mammary Artery. <i>Anesthesia and Analgesia</i> , 2000, 90, 840-846.                                                             | 1.1 | 9         |
| 53 | Effect of induction and reperfusion with warm substrate-enriched cardioplegia on ventricular function. <i>Annals of Thoracic Surgery</i> , 2000, 70, 1301-1307.                                                                     | 0.7 | 11        |
| 54 | The Effect of Diastolic Stiffness on Ventricular Function After Partial Ventriculectomy: A Finite Element Simulation. <i>ASAIO Journal</i> , 2000, 46, 111-116.                                                                     | 0.9 | 6         |

| #  | ARTICLE                                                                                                                                                                                                             | IF   | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | L-Arginine Infusion Dilates Coronary Vasculature in Patients Undergoing Coronary Bypass Surgery. <i>Anesthesiology</i> , 1999, 90, 1577-1586..                                                                      | 1.3  | 15        |
| 56 | The effect of ventricular volume reduction surgery in the dilated, poorly contractile left ventricle: A simple finite element analysis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1998, 116, 566-577. | 0.4  | 71        |
| 57 | Prophylactic Atenolol Reduces Postoperative Myocardial Ischemia. <i>Anesthesiology</i> , 1998, 88, 7-17.                                                                                                            | 1.3  | 561       |
| 58 | Effect of Atenolol on Mortality and Cardiovascular Morbidity after Noncardiac Surgery. <i>New England Journal of Medicine</i> , 1996, 335, 1713-1721.                                                               | 13.9 | 1,754     |
| 59 | Linearity, Load Dependence, Hysteresis, and Clinical Associations of Systolic and Diastolic Indices of Left Ventricular Function in Man. <i>Journal of Cardiac Surgery</i> , 1995, 10, 460-467.                     | 0.3  | 10        |
| 60 | Changes in Systolic and Diastolic Ventricular Function with Cold Cardioplegic Arrest in Man. <i>Journal of Cardiac Surgery</i> , 1994, 9, 497-502.                                                                  | 0.3  | 32        |
| 61 | Do Deficiencies of Endothelial Derived Relaxing Factor Contribute to Myocardial Stunning?. <i>Journal of Cardiac Surgery</i> , 1993, 8, 325-328.                                                                    | 0.3  | 4         |
| 62 | Interactions between polymer soil conditioners and organic amendments in the improvement of physical properties of soil. <i>Journal of Plant Nutrition</i> , 1990, 13, 437-450.                                     | 0.9  | 1         |
| 63 | Interactions of water stress and aluminum stress in barley and sunflower cultivars. <i>Journal of Plant Nutrition</i> , 1990, 13, 425-436.                                                                          | 0.9  | 3         |
| 64 | Interacting effects when a warm-season grass mixture was subjected to factorial combinations of n and p fertilizers in a five-year field test. <i>Journal of Plant Nutrition</i> , 1990, 13, 393-397.               | 0.9  | 0         |