

Robert Guidoin

List of Publications by Year in descending order

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76
papers

1,268
citations

489802

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docs citations

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times ranked

1385
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative study of different tissue materials for bioprosthetic aortic valves using experimental assays and finite element analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 220, 106813.	2.6	2
2	Innovative textile structures designed to prevent type III endoleaks in endovascular stent-grafts. <i>Artificial Organs</i> , 2021, 45, 278-288.	1.0	2
3	Commentary: Honing the Technique of In Situ Stent-Graft Fenestration. <i>Journal of Endovascular Therapy</i> , 2021, 28, 53-55.	0.8	3
4	Optimal In Situ Fenestration Technique With Laser Perforation and Balloon Dilation for Aortic Stent-Grafts. <i>Journal of Endovascular Therapy</i> , 2021, 28, 300-308.	0.8	8
5	Customized and in situ fenestrated stent-grafts: A reinforced poly- μ -caprolactone branch cuff designed to prevent type III endoleaks and enhance hemodynamics. <i>Medicine in Novel Technology and Devices</i> , 2021, 9, 100055.	0.9	2
6	Comparison of tensile properties of xenopericardium from three animal species and finite element analysis for bioprosthetic heart valve tissue. <i>Artificial Organs</i> , 2020, 44, 278-287.	1.0	15
7	Limb salvage after aneurysmal degeneration of a cryopreserved vein allograft: Searching the autologous veins of the arm is worth the effort. <i>Morphologie</i> , 2020, 104, 202-213.	0.5	2
8	Donkey pericardium compares favorably with commercial xenopericardia used in the manufacture of transcatheter heart valves. <i>Artificial Organs</i> , 2019, 43, 976-987.	1.0	6
9	Long-term anticoagulation and selective cells adhesion surface via combination of covalent grafting and layer by layer assembly. <i>Biomedical Materials (Bristol)</i> , 2019, 14, 065012.	1.7	8
10	Donkey pericardium as a select sourcing to manufacture percutaneous heart valves: Decellularization has not yet demonstrated any clear cut advantage to glutaraldehyde treatment. <i>Medicine in Novel Technology and Devices</i> , 2019, 4, 100029.	0.9	1
11	Structural Model for Viscoelastic Properties of Pericardial Bioprosthetic Valves. <i>Artificial Organs</i> , 2018, 42, 630-639.	1.0	13
12	Laser Fenestration of Aortic Stent-Grafts Followed by Noncompliant vs Cutting Balloon Dilation: A Scanning Electron Microscopy Study. <i>Journal of Endovascular Therapy</i> , 2018, 25, 397-407.	0.8	19
13	Transcatheter Heart Valve Crimping and Expansion: Commentary. <i>Journal of Medical & Surgical Pathology</i> , 2017, 02, .	0.2	5
14	An in Vitro Twist Fatigue Test of Fabric Stent-Grafts Supported by Z-Stents vs. Ringed Stents. <i>Materials</i> , 2016, 9, 113.	1.3	16
15	Prenatal developmental safety of functional polyurethanes for cardiovascular implants. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 606-614.	1.6	6
16	In Vitro Laser Fenestration of Aortic Stent-Grafts: A Qualitative Analysis Under Scanning Electron Microscope. <i>Artificial Organs</i> , 2016, 40, E241-E252.	1.0	13
17	The Gelweave Valsalva Graft to Better Reconstruct the Anatomy of the Aortic Root. <i>Journal of Long-Term Effects of Medical Implants</i> , 2016, 26, 97-121.	0.2	3
18	The ROVT Elan Valved Biplax Conduits for the Reconstruction of the Right Ventricular Outflow Tract. <i>Journal of Long-Term Effects of Medical Implants</i> , 2016, 26, 13-42.	0.2	0

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19	The Triplex BioValsalva Prostheses To Reconstruct the Aortic Valve and the Aortic Root. Journal of Long-Term Effects of Medical Implants, 2016, 26, 49-78.	0.2	0
20	Mechanical circulatory support for destination therapy: why are we so late?. Swiss Medical Weekly, 2016, 146, w14292.	0.8	0
21	Towards Mutuality in the Canada-China Relationship: The Experience of the Department of Surgery at Laval University since the 1980s. Frontiers of Education in China, 2015, 10, 384-400.	2.2	2
22	Stent fabric fatigue of grafts supported by Z-stents versus ringed stents: An in vitro buckling test. Journal of Biomaterials Applications, 2014, 28, 965-977.	1.2	16
23	Flared textile cuff to be apposed on the proximal sealing zone in fenestrated stent-grafts. Textile Research Journal, 2014, 84, 279-289.	1.1	5
24	Commentary: Nitinol Stent Designs Need to Adhere to the 3Bs: Biofunctionality, Biodurability, and Biocompatibility. Journal of Endovascular Therapy, 2014, 21, 240-242.	0.8	1
25	CoreValve Prosthesis Causes Anterior Mitral Leaflet Perforation Resulting in Severe Mitral Regurgitation. Canadian Journal of Cardiology, 2014, 30, 1108.e11-1108.e13.	0.8	15
26	A comparative study of bovine and porcine pericardium to highlight their potential advantages to manufacture percutaneous cardiovascular implants. Journal of Biomaterials Applications, 2013, 28, 552-565.	1.2	73
27	Absence of Tissue Ingrowth through the Textile Fabric in a Series of Explanted Clinic Stent-Grafts. Journal of Long-Term Effects of Medical Implants, 2013, 23, 339-357.	0.2	2
28	Fatigue and/or Failure Phenomena Observed in the Fabric of Stent-Grafts Explanted After Adverse Events. Journal of Long-Term Effects of Medical Implants, 2013, 23, 67-86.	0.2	11
29	Cuspal Dehiscence at a Post and Along the Stent Cloth in a Bovine Pericardium Heart Valve Implanted for Seven Years. Journal of Long-Term Effects of Medical Implants, 2012, 22, 95-111.	0.2	5
30	Can Marine Mammals Be a Reliable Source for the Manufacture of Prosthetic Heart Valves for Percutaneous Surgery?. Journal of Long-Term Effects of Medical Implants, 2012, 22, 113-126.	0.2	4
31	Intra-Operative Fenestration of Stent Grafts: A Note of Caution Based upon Preliminary In Vitro Observations. Journal of Long-Term Effects of Medical Implants, 2011, 21, 251-260.	0.2	10
32	The marvel of percutaneous cardiovascular devices in the elderly. Annals of the New York Academy of Sciences, 2010, 1197, 188-199.	1.8	11
33	Analysis of Explanted Lateciba Modular Stent-grafts Deployed Transrenally to Repair AAAs with Short Necks in 29 Dogs. Artificial Cells, Blood Substitutes, and Biotechnology, 2009, 37, 23-31.	0.9	4
34	Transrenal Deployment of a Modular Stent Graft to Repair AAAs with Short Necks: Experiments in Dogs. Artificial Cells, Blood Substitutes, and Biotechnology, 2008, 36, 310-339.	0.9	5
35	Analysis of Sixty-Two Explanted Liotta Bioprotheses: Biocompatibility, Biofunctionality, and Biodurability Issues. Journal of Long-Term Effects of Medical Implants, 2008, 18, 91-131.	0.2	6
36	Specific Shortcomings of Endograft Design. Journal of Long-Term Effects of Medical Implants, 2008, 18, 181-204.	0.2	4

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37	Implant Degradation and Poor Healing After Endovascular Repair of Abdominal Aortic Aneurysms: An Analysis of Explanted Stent-Grafts. <i>Journal of Endovascular Therapy</i> , 2006, 13, 457-467.	0.8	51
38	Biocompatibility Studies of the Anaconda Stent-Graft and Observations of Nitinol Corrosion Resistance. <i>Journal of Endovascular Therapy</i> , 2004, 11, 385-403.	0.8	16
39	Mechanism and rate of degradation of polyhydroxyoctanoate films in aqueous media: A long-term in vitro study. , 2000, 49, 216-224.		46
40	Selection of a Polyurethane Membrane for the Manufacture of Ventricles for a Totally Implantable Artificial Heart: Blood Compatibility and Biocompatibility Studies. <i>Artificial Organs</i> , 2000, 24, 879-888.	1.0	59
41	Biostability, Inflammatory Response, and Healing Characteristics of a Fluoropassivated Polyester-Knit Mesh in the Repair of Experimental Abdominal Hernias. <i>Artificial Organs</i> , 2000, 24, 533-543.	1.0	24
42	Endovascular Repair of Thoracic Aortic Aneurysm in Dogs: Evaluation of a Nitinol-Polyester Self-Expanding Stent-Graft. <i>Journal of Endovascular Therapy</i> , 2000, 7, 47-67.	0.8	25
43	First-Generation Aortic Endografts: Analysis of Explanted Stentor Devices from the EUROSTAR Registry. <i>Journal of Endovascular Therapy</i> , 2000, 7, 105-122.	0.8	109
44	In Vivo Biocompatibility and Degradation Studies of Polyhydroxyoctanoate in the Rat: A New Sealant for the Polyester Arterial Prosthesis. <i>Tissue Engineering</i> , 1999, 5, 369-386.	4.9	33
45	Tissue Reactions to Polypyrrole-Coated Polyesters: A Magnetic Resonance Relaxometry Study. <i>Artificial Organs</i> , 1999, 23, 910-919.	1.0	24
46	Comparison of Healing in Fresh and Preserved Arterial Allografts in the Dog. <i>Annals of Vascular Surgery</i> , 1999, 13, 130-140.	0.4	7
47	Totally implantable artificial hearts and left ventricular assist devices: Selecting impermeable polycarbonate urethane to manufacture ventricles. <i>Journal of Biomedical Materials Research Part B</i> , 1999, 48, 13-23.	3.0	36
48	A new generation of polyurethane vascular prostheses: Rara Avis or Ignis Fatuus?. , 1999, 48, 546-558.		40
49	Assessing the resistance to calcification of polyurethane membranes used in the manufacture of ventricles for a totally implantable artificial heart. , 1999, 48, 648-659.		32
50	Effect of sterilization on the physical and structural characteristics of polyhydroxyoctanoate (PHO). <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999, 10, 469-482.	1.9	12
51	Totally implantable artificial hearts and left ventricular assist devices: Selecting impermeable polycarbonate urethane to manufacture ventricles. , 1999, 48, 13.		1
52	A new generation of polyurethane vascular prostheses: Rara Avis or Ignis Fatuus?. <i>Journal of Biomedical Materials Research Part B</i> , 1999, 48, 546.	3.0	1
53	Fluid Filtration across the Arterial Wall under Flow Conditions: Is Wall Shear Rate Another Factor Affecting Filtration Rate? a. <i>Annals of the New York Academy of Sciences</i> , 1998, 858, 105-115.	1.8	10
54	Concentration Polarization of Low Density Lipoproteins (LDL) in the Arterial System. <i>Annals of the New York Academy of Sciences</i> , 1998, 858, 137-146.	1.8	40

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55	Characterization of Abnormalities Responsible for Immediate Rejection of Porcine Aortic Valves for the Manufacture of Bioprostheses. <i>Artificial Organs</i> , 1998, 22, 687-697.	1.0	0
56	Experimental Modifications to a Canine Infrarenal Aortic Aneurysm Model for the Validation of Endovascular Stent-Grafts: An Exploratory Study. <i>Journal of Investigative Surgery</i> , 1998, 11, 185-197.	0.6	18
57	Are Intraaortic Balloons Suitable for Reuse? A Survey Study of 112 Used Intraaortic Balloons?. <i>Artificial Organs</i> , 1998, 22, 96-96.	1.0	0
58	Can the Infusion of Elastase in the Abdominal Aorta of the Yucatán Miniature Swine Consistently Produce Experimental Aneurysms?. <i>Journal of Investigative Surgery</i> , 1997, 10, 129-150.	0.6	30
59	Shelf-life of bioprosthetic heart valves: a structural and mechanical study. <i>Biomaterials</i> , 1997, 18, 605-612.	5.7	14
60	Acute thrombogenicity of intact and injured natural blood conduits versus synthetic conduits: Neutrophil, platelet, and fibrin(ogen) adsorption under various shear-rate conditions. , 1997, 34, 477-485.		26
61	In vitro and in vivo studies of a polyester arterial prosthesis with a warp-knitted sharkskin structure. , 1997, 35, 459-472.		19
62	Are Intraaortic Balloons Suitable for Reuse? A Survey Study of 112 Used Intraaortic Balloons. <i>Artificial Organs</i> , 1997, 21, 121-130.	1.0	7
63	Efficiency of an External Support to Reduce Lipid Infiltration into Venous Grafts: In Vitro Evaluation. <i>Artificial Organs</i> , 1996, 20, 1208-1214.	1.0	9
64	Fresh venous allografts in peripheral arterial reconstruction in dogs. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1995, 110, 1732-1744.	0.4	29
65	Evaluating the dialine® vascular prosthesis knitted from an alternative source of polyester yarns. <i>Journal of Biomedical Materials Research Part B</i> , 1995, 29, 595-610.	3.0	17
66	Pumpless Respiratory Assistance Using a Membrane Oxygenator as an Artificial Placenta: A Preliminary Study in Newborn and Preterm Lambs. <i>Journal of Investigative Surgery</i> , 1995, 8, 21-30.	0.6	26
67	POSTTRANSPLANT ANTIBODIES AND FRESH VENOUS ALLOGRAFT FAILURE IN DOGS. <i>Transplantation</i> , 1994, 58, 537-542.	0.5	13
68	Expanded polytetrafluoroethylene arterial prostheses in humans: histopathological study of 298 surgically excised grafts. <i>Biomaterials</i> , 1993, 14, 678-693.	5.7	91
69	A Nonlinear Analysis of Pulsatile Blood Flow Applied to Investigate Shear Stress in Arterial Prostheses. <i>Biomaterials, Artificial Cells, and Immobilization Biotechnology: Official Journal of the International Society for Artificial Cells and Immobilization Biotechnology</i> , 1992, 20, 1-21.	0.2	2
70	Use of Myxalin for Improving Vascular Graft Healing: Evaluation of Biocompatibility in Rats. <i>Journal of Investigative Surgery</i> , 1992, 5, 129-141.	0.6	4
71	Morphologic assessment of ePTFE graft wall damage following hemodialysis needle punctures. <i>Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials</i> , 1990, 1, 279-287.	1.1	17
72	Nondestructive investigations on ninety-seven surgically excised mammary prostheses. <i>Journal of Biomedical Materials Research Part B</i> , 1989, 23, 285-298.	3.0	24

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73	Hydrophilic microporous polyurethane versus expanded PTFE grafts as substitutes in the carotid arteries of dogs. A limited study. <i>Journal of Biomedical Materials Research Part B</i> , 1988, 22, 63-69.	3.0	24
74	Physicochemical characterization of a hydrophilic microporous polyurethane vascular graft. <i>Journal of Biomedical Materials Research Part B</i> , 1987, 21, 399-412.	3.0	30
75	Blood hemolysis by PTFE and polyurethane vascular prostheses in an in vitro circuit. <i>Journal of Biomedical Materials Research Part B</i> , 1987, 21, 1187-1196.	3.0	4
76	In Vitro Performance Assessment of Tubular Membrane Oxygenators. <i>Biomaterials, Medical Devices, and Artificial Organs</i> , 1980, 8, 309-332.	0.4	0