

Akif ndar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

185
papers

3,788
citations

31
h-index

51
g-index

229
ext. papers

4,495
ext. citations

2.5
avg. IF

5.41
L-index

#	Paper	IF	Citations
185	Impact of a Multidisciplinary Research Team Approach to Prevent Avoidable Mistakes for Neonatal CPB Population.. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2022 , 13, 220-230	1.1	0
184	Highlights of the Sixteenth International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion.. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2022 , 13, 217-219	1.1	
183	Centrifugal Pump Generates Superior Hemodynamic Performance Compared to a new Diagonal Blood Pump in Neonatal and Pediatric ECMO Circuits.. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2022 , 13, 235-241	1.1	0
182	Optimization of CPB Circuits and Techniques Minimize the Total Number of Intraoperative Emboli Delivery in Congenital Heart Surgery Patients. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2021 , 12, 562	1.1	
181	Frequency domain analysis and clinical outcomes of pulsatile and non-pulsatile blood flow energy during cardiopulmonary bypass. <i>Perfusion (United Kingdom)</i> , 2021 , 36, 786-787	1.9	
180	Evidence-based translational research approach may help to select the best femoral arterial cannula for adolescent/adult extracorporeal life support population. <i>Perfusion (United Kingdom)</i> , 2021 , 36, 322-323	1.9	2
179	Safety and utility of modified ultrafiltration in pediatric cardiac surgery. <i>Perfusion (United Kingdom)</i> , 2021 , 2676591211043697	1.9	1
178	Pressure and flow properties of dual-lumen cannulae for extracorporeal membrane oxygenation. <i>Perfusion (United Kingdom)</i> , 2020 , 35, 745-746	1.9	1
177	Quantification of Pulsatility During Mechanical Circulatory Support 2020 , 301-315		
176	Pediatric Extracorporeal Membrane Oxygenation and Mechanical Circulatory Assist Devices 2020 , 797-812		1
175	Evaluation of centrifugal blood pumps in term of hemodynamic performance using simulated neonatal and pediatric ECMO circuits. <i>Artificial Organs</i> , 2020 , 44, 16-27	2.6	5
174	In vitro evaluation of Capiiox FX05 and RX05 oxygenators in neonatal cardiopulmonary bypass circuits with varying venous reservoir and vacuum-assisted venous drainage levels. <i>Artificial Organs</i> , 2020 , 44, 28-39	2.6	6
173	Clinical outcomes of neonatal and pediatric extracorporeal life support: A seventeen-year, single institution experience. <i>Artificial Organs</i> , 2019 , 43, 1085-1091	2.6	7
172	Impact of cannula size and line length on venous line pressure in pediatric VA-/VV-ECLS circuits. <i>Artificial Organs</i> , 2019 , 43, E165-E177	2.6	4
171	Impact of Heart Rate on Pulsatile Hemodynamic Performance in a Neonatal ECG-Synchronized ECLS System. <i>Artificial Organs</i> , 2019 , 43, 81-89	2.6	6
170	Effects of Pulsatile Control Algorithms for Diagonal Pump on Hemodynamic Performance and Hemolysis. <i>Artificial Organs</i> , 2019 , 43, 60-75	2.6	7
169	Evaluation of Two Femoral Arterial Cannulae With Conventional Non-Pulsatile and Alternative Pulsatile Flow in a Simulated Adult ECLS Circuit. <i>Artificial Organs</i> , 2019 , 43, 30-40	2.6	6

168	Hemodynamic Evaluation of Avalon Elite Bi-Caval Dual Lumen Cannulas and Femoral Arterial Cannulas. <i>Artificial Organs</i> , 2019 , 43, 41-53	2.6	13
167	In Vitro Evaluation of ECG-Synchronized Pulsatile Flow Using the i-cor Diagonal Pump in Neonatal and Pediatric ECLS Systems. <i>Artificial Organs</i> , 2018 , 42, E127-E140	2.6	8
166	Impact of Different Perfusion Modalities on Coronary and Carotid Blood Flow Velocities in an Adult ECLS Swine Model. <i>Artificial Organs</i> , 2018 , 42, 918-921	2.6	6
165	Evaluation and Comparison of Hemodynamic Performance of Three ECLS Systems in a Simulated Adult Cardiogenic Shock Model. <i>Artificial Organs</i> , 2018 , 42, 776-785	2.6	9
164	In Vitro Comparison of Pediatric Oxygenators With and Without Integrated Arterial Filters in Maintaining Optimal Hemodynamic Stability and Managing Gaseous Microemboli. <i>Artificial Organs</i> , 2018 , 42, 420-431	2.6	6
163	In Vitro Comparison of Two Neonatal ECMO Circuits Using a Roller or Centrifugal Pump With Three Different In-Line Hemoconcentrators for Maintaining Hemodynamic Energy Delivery to the Patient. <i>Artificial Organs</i> , 2018 , 42, 354-364	2.6	5
162	Translational Research on Evaluation of Pediatric Cardiopulmonary Bypass Oxygenators. <i>Artificial Organs</i> , 2018 , 42, 103	2.6	1
161	Evaluation of Hemodynamic Performance of a Combined ECLS and CRRT Circuit in Seven Positions With a Simulated Neonatal Patient. <i>Artificial Organs</i> , 2018 , 42, 155-165	2.6	8
160	Evaluation of Combined Extracorporeal Life Support and Continuous Renal Replacement Therapy on Hemodynamic Performance and Gaseous Microemboli Handling Ability in a Simulated Neonatal ECLS System. <i>Artificial Organs</i> , 2018 , 42, 365-376	2.6	6
159	Pediatric devices 2018 , 271-297		1
158	In Vitro Hemodynamic Evaluation of ECG-Synchronized Pulsatile Flow Using i-Cor Pump as Short-Term Cardiac Assist Device for Neonatal and Pediatric Population. <i>Artificial Organs</i> , 2018 , 42, E153-E167	2.6	7
157	Pulsatile vs. continuous flow 2018 , 379-406		2
156	Functional Performance of Different Venous Limb Options in Simulated Neonatal/Pediatric Cardiopulmonary Bypass Circuits. <i>Brazilian Journal of Cardiovascular Surgery</i> , 2018 , 33, 224-232	1.1	3
155	In Vitro Hemodynamic Evaluation of an Adult Pulsatile Extracorporeal Membrane Oxygenation System. <i>Artificial Organs</i> , 2018 , 42, E234-E245	2.6	2
154	Novel ECG-Synchronized Pulsatile ECLS System With Various Heart Rates and Cardiac Arrhythmias: An In Vitro Study. <i>Artificial Organs</i> , 2017 , 41, 55-65	2.6	9
153	Building a Better Neonatal Extracorporeal Life Support Circuit: Comparison of Hemodynamic Performance and Gaseous Microemboli Handling in Different Pump and Oxygenator Technologies. <i>Artificial Organs</i> , 2017 , 41, 392-400	2.6	8
152	Dr. Yves Durandy, February 20, 1947-October 6, 2016. <i>Artificial Organs</i> , 2017 , 41, 5-6	2.6	
151	Does an Open Recirculation Line Affect the Flow Rate and Pressure in a Neonatal Extracorporeal Life Support Circuit With a Centrifugal or Roller Pump?. <i>Artificial Organs</i> , 2017 , 41, 70-75	2.6	2

150	In Vitro Evaluation of Pediatric Hollow-Fiber Membrane Oxygenators on Hemodynamic Performance and Gaseous Microemboli Handling: An International Multicenter/Multidisciplinary Approach. <i>Artificial Organs</i> , 2017 , 41, 865-874	2.6	6
149	Does Flexible Arterial Tubing Retain More Hemodynamic Energy During Pediatric Pulsatile Extracorporeal Life Support?. <i>Artificial Organs</i> , 2017 , 41, 47-54	2.6	2
148	Welcome to the Thirteen International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion. <i>Artificial Organs</i> , 2017 , 41, 800-802	2.6	0
147	In Vitro Evaluation of an Alternative Neonatal Extracorporeal Life Support Circuit on Hemodynamic Performance and Bubble Trap. <i>Artificial Organs</i> , 2017 , 41, 17-24	2.6	6
146	Ultrasound-guided vessel catheterization in adult Yorkshire cross-bred pigs. <i>Veterinary Anaesthesia and Analgesia</i> , 2017 , 44, 133-137	1.3	6
145	Evaluation of Capirox RX25 and Quadrox-i Adult Hollow Fiber Membrane Oxygenators in a Simulated Cardiopulmonary Bypass Circuit. <i>Artificial Organs</i> , 2016 , 40, E69-78	2.6	8
144	In Vitro Hemodynamic Evaluation of Five 6 Fr and 8 Fr Arterial Cannulae in Simulated Neonatal Cardiopulmonary Bypass Circuits. <i>Artificial Organs</i> , 2016 , 40, 56-64	2.6	3
143	In-Vitro Evaluation of Two Types of Neonatal Oxygenators in Handling Gaseous Microemboli and Maintaining Optimal Hemodynamic Stability During Cardiopulmonary Bypass. <i>Brazilian Journal of Cardiovascular Surgery</i> , 2016 , 31, 343-350	1.1	3
142	Potential Danger of Pre-Pump Clamping on Negative Pressure-Associated Gaseous Microemboli Generation During Extracorporeal Life Support--An In Vitro Study. <i>Artificial Organs</i> , 2016 , 40, 89-94	2.6	11
141	Effect of the Pulsatile Extracorporeal Membrane Oxygenation on Hemodynamic Energy and Systemic Microcirculation in a Piglet Model of Acute Cardiac Failure. <i>Artificial Organs</i> , 2016 , 40, 19-26	2.6	22
140	Impact of Pulsatility and Flow Rates on Hemodynamic Energy Transmission in an Adult Extracorporeal Life Support System. <i>Artificial Organs</i> , 2015 , 39, E127-37	2.6	16
139	Evaluation of conventional nonpulsatile and novel pulsatile extracorporeal life support systems in a simulated pediatric extracorporeal life support model. <i>Artificial Organs</i> , 2015 , 39, E1-9	2.6	12
138	Correlation between cerebral-renal near-infrared spectroscopy and ipsilateral renal perfusion parameters as clinical outcome predictors after open heart surgery in neonates and infants. <i>Artificial Organs</i> , 2015 , 39, 53-8	2.6	9
137	In vitro hemodynamic evaluation of a novel pulsatile extracorporeal life support system: impact of perfusion modes and circuit components on energy loss. <i>Artificial Organs</i> , 2015 , 39, 59-66	2.6	22
136	Apolipoprotein E levels in pediatric patients undergoing cardiopulmonary bypass. <i>Artificial Organs</i> , 2015 , 39, 28-33	2.6	8
135	Evaluation of a novel pulsatile extracorporeal life support system synchronized to the cardiac cycle: effect of rhythm changes on hemodynamic performance. <i>Artificial Organs</i> , 2015 , 39, 67-76	2.6	17
134	Biomarkers After Pediatric Heart Surgery. <i>Biomarkers in Disease</i> , 2015 , 637-658		
133	In Vivo Hemodynamic Performance Evaluation of Novel Electrocardiogram-Synchronized Pulsatile and Nonpulsatile Extracorporeal Life Support Systems in an Adult Swine Model. <i>Artificial Organs</i> , 2015 , 39, E90-E101	2.6	25

132	Laboratory Evaluation of Hemolysis and Systemic Inflammatory Response in Neonatal Nonpulsatile and Pulsatile Extracorporeal Life Support Systems. <i>Artificial Organs</i> , 2015 , 39, 774-81	2.6	33
131	Computational Modeling of Neonatal Cardiopulmonary Bypass Hemodynamics With Full Circle of Willis Anatomy. <i>Artificial Organs</i> , 2015 , 39, E164-75	2.6	12
130	Evaluation of different diameter arterial tubing and arterial cannulae in simulated neonatal/pediatric cardiopulmonary bypass circuits. <i>Artificial Organs</i> , 2015 , 39, 43-52	2.6	10
129	Comparative effects of pulsatile and nonpulsatile flow on plasma fibrinolytic balance in pediatric patients undergoing cardiopulmonary bypass. <i>Artificial Organs</i> , 2014 , 38, 28-33	2.6	15
128	An original versatile nonocclusive pressure-regulated blood roller pump for extracorporeal perfusion. <i>Artificial Organs</i> , 2014 , 38, 469-73	2.6	3
127	In vitro comparison of the delivery of gaseous microemboli and hemodynamic energy for a diagonal and a roller pump during simulated infantile cardiopulmonary bypass procedures. <i>Artificial Organs</i> , 2014 , 38, 56-63	2.6	5
126	In vitro performance analysis of a novel pulsatile diagonal pump in a simulated pediatric mechanical circulatory support system. <i>Artificial Organs</i> , 2014 , 38, 64-72	2.6	7
125	Use of a novel diagonal pump in an in vitro neonatal pulsatile extracorporeal life support circuit. <i>Artificial Organs</i> , 2014 , 38, E1-9	2.6	8
124	Impact of Pulsatile Flow Settings on Hemodynamic Energy Levels Using the Novel Diagonal Medos DP3 Pump in a Simulated Pediatric Extracorporeal Life Support System. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2014 , 5, 440-8	1.1	13
123	Impact of pulsatile flow on hemodynamic energy in a Medos Deltastream DP3 pediatric extracorporeal life support system. <i>Artificial Organs</i> , 2014 , 38, 19-27	2.6	12
122	Biomarkers After Pediatric Heart Surgery 2014 , 1-18		
121	Characterization of neonatal aortic cannula jet flow regimes for improved cardiopulmonary bypass. <i>Journal of Biomechanics</i> , 2013 , 46, 362-72	2.9	23
120	Aortic outflow cannula tip design and orientation impacts cerebral perfusion during pediatric cardiopulmonary bypass procedures. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 2588-602	4.7	21
119	Novel fenestration designs for controlled venous flow shunting in failing Fontans with systemic venous hypertension. <i>Artificial Organs</i> , 2013 , 37, 66-75	2.6	5
118	Novel pulsatile diagonal pump for pediatric extracorporeal life support system. <i>Artificial Organs</i> , 2013 , 37, 37-47	2.6	22
117	Continuous monitoring of inflammation biomarkers during simulated cardiopulmonary bypass using a microfluidic immunoassay device - a pilot study. <i>Artificial Organs</i> , 2013 , 37, E9-E17	2.6	16
116	A nonocclusive, inexpensive pediatric pulsatile roller pump for cardiopulmonary bypass, extracorporeal life support, and left/right ventricular assist systems. <i>Artificial Organs</i> , 2013 , 37, 48-56	2.6	7
115	Impact of pulsatile perfusion on clinical outcomes of neonates and infants with complex pathologies undergoing cardiopulmonary bypass procedures. <i>Artificial Organs</i> , 2013 , 37, 82-6	2.6	18

114	Monitoring biomarkers after pediatric heart surgery: a new paradigm on the horizon. <i>Artificial Organs</i> , 2013 , 37, 10-5	2.6	7
113	Current devices for pediatric extracorporeal life support and mechanical circulatory support systems in the United States. <i>Bio-Medical Materials and Engineering</i> , 2013 , 23, 57-62	1	4
112	Impact of polymethylpentene oxygenators on outcomes of all extracorporeal life support patients in the United States. <i>Artificial Organs</i> , 2013 , 37, 1080-1	2.6	13
111	Automated microfluidic processing platform for multiplexed magnetic bead immunoassays. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 603-612	2.8	45
110	Pediatric and neonatal extracorporeal life support technology component utilization: are US clinicians implementing new technology?. <i>Artificial Organs</i> , 2012 , 36, 607-15	2.6	14
109	Welcome to the 8th International Conference on Pediatric Mechanical Circulatory Support Systems & Pediatric Cardiopulmonary Perfusion. <i>Artificial Organs</i> , 2012 , 36, 460-2	2.6	0
108	Perfusion practices and education of perfusionists for open heart surgery in Turkey--current practices and future suggestions. <i>Artificial Organs</i> , 2012 , 36, 492-5	2.6	2
107	The kinetics of cardiopulmonary bypass: a dual-platform proteomics study of plasma biomarkers in pediatric patients undergoing cardiopulmonary bypass. <i>Artificial Organs</i> , 2012 , 36, E1-20	2.6	9
106	Multimodality neuromonitoring for pediatric cardiac surgery: our approach and a critical appraisal of the available evidence. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2012 , 3, 87-95	1.1	9
105	Using a secondary reservoir for pump suckers to avoid the generation of foam during CPB procedures in pediatric patients. <i>Perfusion (United Kingdom)</i> , 2012 , 27, 556-8	1.9	10
104	Device Specific Aortic Outflow Cannula Jets Studied Using 2D PIV and High-Performance 3D CFD Simulation 2012 ,		1
103	Congenital heart surgery in Turkey: today and tomorrow. <i>Turkish Journal of Thoracic and Cardiovascular Surgery</i> , 2012 , 181-185	0.5	3
102	Recommendations for the selection of techniques and components used in congenital heart surgery in Turkey. <i>Turkish Journal of Thoracic and Cardiovascular Surgery</i> , 2012 , 399-405	0.5	2
101	Microfiltration platform for continuous blood plasma protein extraction from whole blood during cardiac surgery. <i>Lab on A Chip</i> , 2011 , 11, 2858-68	7.2	69
100	Impact of oxygenator selection on hemodynamic energy indicators under pulsatile and nonpulsatile flow in a neonatal extracorporeal life support model. <i>Artificial Organs</i> , 2011 , 35, E101-7	2.6	10
99	Neonatal extracorporeal life support: will the newest technology reduce morbidity?. <i>Artificial Organs</i> , 2011 , 35, 989-96	2.6	9
98	Hemodynamic evaluation of the Avalon Elite bi-caval dual lumen cannulae. <i>Artificial Organs</i> , 2011 , 35, 1048-51	2.6	18
97	Comparison of parameters for detection of splanchnic hypoxia in children undergoing cardiopulmonary bypass with pulsatile versus nonpulsatile normothermia or hypothermia during congenital heart surgeries. <i>Artificial Organs</i> , 2011 , 35, 1010-7	2.6	10

96	Improved cerebral oxygen saturation and blood flow pulsatility with pulsatile perfusion during pediatric cardiopulmonary bypass. <i>Pediatric Research</i> , 2011 , 70, 181-5	3.2	33
95	An in vitro comparison of the ability of three commonly used pediatric cardiopulmonary bypass circuits to filter gaseous microemboli. <i>Perfusion (United Kingdom)</i> , 2011 , 26, 167-8	1.9	1
94	Current status of pediatric/neonatal extracorporeal life support: clinical outcomes, circuit evolution, and translational research. <i>Perfusion (United Kingdom)</i> , 2011 , 26, 294-301	1.9	16
93	Evaluation of two pediatric polymethyl pentene membrane oxygenators with pulsatile and non-pulsatile perfusion. <i>Perfusion (United Kingdom)</i> , 2011 , 26, 229-37	1.9	11
92	Extracorporeal life support systems: alternative vs. conventional circuits. <i>Perfusion (United Kingdom)</i> , 2011 , 26, 191-8	1.9	21
91	Translational research in pediatric extracorporeal life support systems and cardiopulmonary bypass procedures: 2011 update. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2011 , 2, 476-81	1.1	6
90	Pediatric cardiopulmonary bypass: does perfusion mode matter?. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2011 , 2, 296-300	1.1	6
89	An investigational study of minimum rotational pump speed to avoid retrograde flow in three centrifugal blood pumps in a pediatric extracorporeal life support model. <i>Perfusion (United Kingdom)</i> , 2011 , 26, 185-90	1.9	15
88	Heart transplantation for congenital heart disease. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2011 , 2, 603-8	1.1	4
87	Microemboli detection and classification during pediatric cardiopulmonary bypass. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2011 , 2, 111-4	1.1	19
86	Mechanical circulatory support for end-stage heart failure in repaired and palliated congenital heart disease. <i>Current Cardiology Reviews</i> , 2011 , 7, 102-9	2.4	23
85	Mechanical performance comparison between RotaFlow and CentriMag centrifugal blood pumps in an adult ECLS model. <i>Perfusion (United Kingdom)</i> , 2010 , 25, 71-6	1.9	31
84	Evaluation of the Quadrox-I neonatal oxygenator with an integrated arterial filter. <i>Perfusion (United Kingdom)</i> , 2010 , 25, 409-15	1.9	14
83	Dual-platform proteomics study of plasma biomarkers in pediatric patients undergoing cardiopulmonary bypass. <i>Pediatric Research</i> , 2010 , 67, 641-9	3.2	15
82	Autonomous magnetically actuated continuous flow microimmunofluorocytometry assay. <i>Microfluidics and Nanofluidics</i> , 2010 , 9, 253-265	2.8	35
81	Transcranial Doppler ultrasonography: a reliable method of monitoring pulsatile flow during cardiopulmonary bypass in infants and young children. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2010 , 139, e80-2	1.5	14
80	Brain protection during pediatric cardiopulmonary bypass. <i>Artificial Organs</i> , 2010 , 34, E91-102	2.6	43
79	Comparison of perfusion quality in hollow-fiber membrane oxygenators for neonatal extracorporeal life support. <i>Artificial Organs</i> , 2010 , 34, E110-6	2.6	24

78	Physiologic benefits of pulsatile perfusion during mechanical circulatory support for the treatment of acute and chronic heart failure in adults. <i>Artificial Organs</i> , 2010 , 34, 529-36	2.6	37
77	Welcome letter: Sixth International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion. <i>Artificial Organs</i> , 2010 , 34, 277-8	2.6	0
76	Evaluation of Capiiox FX05 oxygenator with an integrated arterial filter on trapping gaseous microemboli and pressure drop with open and closed purge line. <i>Artificial Organs</i> , 2010 , 34, 1053-7	2.6	22
75	Evaluation of HL-20 roller pump and Rotaflow centrifugal pump on perfusion quality and gaseous microemboli delivery. <i>Artificial Organs</i> , 2010 , 34, 937-43	2.6	14
74	Evaluation of neonatal membrane oxygenators with respect to gaseous microemboli capture and transmembrane pressure gradients. <i>Artificial Organs</i> , 2010 , 34, 923-9	2.6	11
73	Pediatric extracorporeal life support systems: education and training at Penn State Hershey Children's Hospital. <i>Artificial Organs</i> , 2010 , 34, 1023-6	2.6	19
72	Air-handling capabilities of blood cardioplegia delivery systems in a simulated pediatric model. <i>Artificial Organs</i> , 2010 , 34, 950-4	2.6	3
71	Differential immune activation during simulated cardiopulmonary bypass procedure using freshly drawn and week-old blood—pilot study. <i>Artificial Organs</i> , 2010 , 34, 1048-53	2.6	4
70	Impact of tubing length on hemodynamics in a simulated neonatal extracorporeal life support circuit. <i>Artificial Organs</i> , 2010 , 34, 1003-9	2.6	15
69	Inflammatory and hemostatic response to cardiopulmonary bypass in pediatric population: feasibility of seriological testing of multiple biomarkers. <i>Artificial Organs</i> , 2010 , 34, 987-95	2.6	18
68	Evaluation of perfusion modes on vital organ recovery and thyroid hormone homeostasis in pediatric patients undergoing cardiopulmonary bypass. <i>Artificial Organs</i> , 2010 , 34, 879-84	2.6	21
67	Cardiac surgery of premature and low birthweight newborns: is a change of fate possible?. <i>Artificial Organs</i> , 2010 , 34, 891-7	2.6	7
66	Evaluation of Quadrox-i adult hollow fiber oxygenator with integrated arterial filter. <i>Journal of Extra-Corporeal Technology</i> , 2010 , 42, 134-8	0.4	3
65	Hemodynamic energy delivery of the pulsatile flow in a simulated pediatric extracorporeal circuit. <i>ASAIO Journal</i> , 2009 , 55, 96-9	3.6	9
64	Effects of the pulsatile flow settings on pulsatile waveforms and hemodynamic energy in a PediVAS centrifugal pump. <i>ASAIO Journal</i> , 2009 , 55, 271-6	3.6	18
63	Clinical real-time monitoring of gaseous microemboli in pediatric cardiopulmonary bypass. <i>Artificial Organs</i> , 2009 , 33, 1026-30	2.6	26
62	Comparison of pumps and oxygenators with pulsatile and nonpulsatile modes in an infant cardiopulmonary bypass model. <i>Artificial Organs</i> , 2009 , 33, 993-1001	2.6	12
61	Comparison of two types of neonatal extracorporeal life support systems with pulsatile and nonpulsatile flow. <i>Artificial Organs</i> , 2009 , 33, 958-66	2.6	25

60	Evaluation of membrane oxygenators and reservoirs in terms of capturing gaseous microemboli and pressure drops. <i>Artificial Organs</i> , 2009 , 33, 1037-43	2.6	29
59	The impact of pump settings on the quality of pulsatility. <i>ASAIO Journal</i> , 2009 , 55, 100-5	3.6	12
58	Extracorporeal Life Support Registry Report 2008: neonatal and pediatric cardiac cases. <i>ASAIO Journal</i> , 2009 , 55, 111-6	3.6	136
57	Impact of the postpump resistance on pressure-flow waveform and hemodynamic energy level in a neonatal pulsatile centrifugal pump. <i>ASAIO Journal</i> , 2009 , 55, 277-81	3.6	6
56	Quantification of pressure-flow waveforms and selection of components for the pulsatile extracorporeal circuit. <i>Journal of Extra-Corporeal Technology</i> , 2009 , 41, P20-5	0.4	4
55	Pediatric cardiopulmonary bypass circuits: a review of studies conducted at the Penn State Pediatric Cardiac Research Laboratories. <i>Journal of Extra-Corporeal Technology</i> , 2009 , 41, P50-8	0.4	2
54	A hemodynamic evaluation of the Medos Deltastream DP1 rotary pump and Jostra HL-20 roller pump under pulsatile and nonpulsatile perfusion in an infant cardiopulmonary bypass model—a pilot study. <i>ASAIO Journal</i> , 2008 , 54, 529-33	3.6	6
53	A performance evaluation of eight geometrically different 10 Fr pediatric arterial cannulae under pulsatile and nonpulsatile perfusion conditions in an infant cardiopulmonary bypass model. <i>ASAIO Journal</i> , 2008 , 54, 306-15	3.6	30
52	Neonatal aortic arch hemodynamics and perfusion during cardiopulmonary bypass. <i>Journal of Biomechanical Engineering</i> , 2008 , 130, 061012	2.1	39
51	Plasma biomarkers in pediatric patients undergoing cardiopulmonary bypass. <i>Pediatric Research</i> , 2008 , 63, 638-44	3.2	24
50	Comparison of two different blood pumps on delivery of gaseous microemboli during pulsatile and nonpulsatile perfusion in a simulated infant CPB model. <i>ASAIO Journal</i> , 2008 , 54, 538-41	3.6	15
49	Gaseous microemboli detection in a simulated pediatric CPB circuit using a novel ultrasound system. <i>ASAIO Journal</i> , 2008 , 54, 504-8	3.6	15
48	The capability of trapping gaseous microemboli of two pediatric arterial filters with pulsatile and nonpulsatile flow in a simulated infant CPB model. <i>ASAIO Journal</i> , 2008 , 54, 519-22	3.6	13
47	Microemboli detection and classification by innovative ultrasound technology during simulated neonatal cardiopulmonary bypass at different flow rates, perfusion modes, and perfusate temperatures. <i>ASAIO Journal</i> , 2008 , 54, 316-24	3.6	30
46	"Stolen" blood flow: effect of an open arterial filter purge line in a simulated neonatal CPB model. <i>ASAIO Journal</i> , 2008 , 54, 432-5	3.6	30
45	New devices for pediatric mechanical circulatory support. <i>Current Opinion in Cardiology</i> , 2008 , 23, 91-6	2.1	13
44	Delivery of gaseous microemboli with vacuum-assisted venous drainage during pulsatile and nonpulsatile perfusion in a simulated neonatal cardiopulmonary bypass model. <i>ASAIO Journal</i> , 2008 , 54, 416-22	3.6	34
43	Microemboli generation, detection and characterization during CPB procedures in neonates, infants, and small children. <i>ASAIO Journal</i> , 2008 , 54, 486-90	3.6	44

42	Continuous cytometric bead processing within a microfluidic device for bead based sensing platforms. <i>Lab on A Chip</i> , 2007 , 7, 588-95	7.2	26
41	Vascular pulsatility in patients with a pulsatile- or continuous-flow ventricular assist device. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007 , 133, 517-24	1.5	112
40	Outcomes of the Second International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion. <i>ASAIO Journal</i> , 2007 , 53, 1-3	3.6	16
39	Benefits of pulsatile perfusion on vital organ recovery during and after pediatric open heart surgery. <i>ASAIO Journal</i> , 2007 , 53, 651-4	3.6	51
38	Pulsatile perfusion during cardiopulmonary bypass procedures in neonates, infants, and small children. <i>ASAIO Journal</i> , 2007 , 53, 706-9	3.6	16
37	Comparison of perfusion modes on microcirculation during acute and chronic cardiac support: is there a difference?. <i>Perfusion (United Kingdom)</i> , 2007 , 22, 115-9	1.9	37
36	Detection and classification of gaseous microemboli during pulsatile and nonpulsatile perfusion in a simulated neonatal CPB model. <i>ASAIO Journal</i> , 2007 , 53, 725-9	3.6	32
35	Comparison of four different pediatric 10F aortic cannulae during pulsatile versus nonpulsatile perfusion in a simulated neonatal model of cardiopulmonary bypass. <i>ASAIO Journal</i> , 2007 , 53, 778-84	3.6	10
34	Quantification of perfusion modes in terms of surplus hemodynamic energy levels in a simulated pediatric CPB model. <i>ASAIO Journal</i> , 2006 , 52, 712-7	3.6	65
33	Comparison of hollow-fiber membrane oxygenators with different perfusion modes during normothermic and hypothermic CPB in a simulated neonatal model. <i>Perfusion (United Kingdom)</i> , 2006 , 21, 381-90	1.9	12
32	A microfluidic device for continuous, real time blood plasma separation. <i>Lab on A Chip</i> , 2006 , 6, 871-80	7.2	328
31	An evaluation of the benefits of pulsatile versus nonpulsatile perfusion during cardiopulmonary bypass procedures in pediatric and adult cardiac patients. <i>ASAIO Journal</i> , 2006 , 52, 357-61	3.6	110
30	Effects of pulsatile and nonpulsatile perfusion on vital organ recovery in pediatric heart surgery: a pilot clinical study. <i>ASAIO Journal</i> , 2006 , 52, 530-5	3.6	22
29	Second International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion. <i>ASAIO Journal</i> , 2006 , 52, 495	3.6	1
28	Pulsatile versus nonpulsatile cardiopulmonary bypass procedures in neonates and infants: from bench to clinical practice. <i>ASAIO Journal</i> , 2005 , 51, vi-x	3.6	39
27	Effect of hypothermic cardiopulmonary bypass on blood viscoelasticity in pediatric cardiac patients. <i>ASAIO Journal</i> , 2005 , 51, 522-4	3.6	3
26	Part 2: Principles of Research on Pulsatile and Nonpulsatile Perfusion. <i>ASAIO Journal</i> , 2005 , 51, 307-308	3.6	1
25	Part 1: principles of research on pulsatile and nonpulsatile perfusion during chronic support. <i>ASAIO Journal</i> , 2005 , 51, 303-4; author reply 305-8	3.6	6

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22	PRECISE QUANTIFICATION OF PULSATILITY IS A NECESSITY FOR DIRECT COMPARISONS OF SIX DIFFERENT PEDIATRIC HEART-LUNG MACHINES IN A NEONATAL CPB MODEL. <i>ASAIO Journal</i> , 2005 , 51, 18A	3.6	13
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20	Comparison of hollow-fiber membrane oxygenators in terms of pressure drop of the membranes during normothermic and hypothermic cardiopulmonary bypass in neonates. <i>Perfusion (United Kingdom)</i> , 2005 , 20, 135-8	1.9	21
19	Precise quantification of pulsatility is a necessity for direct comparisons of six different pediatric heart-lung machines in a neonatal CPB model. <i>ASAIO Journal</i> , 2005 , 51, 600-3	3.6	31
18	Impact of pulsatile flow on microcirculation. <i>ASAIO Journal</i> , 2004 , 50, 624-5	3.6	5
17	Anesthetic induction with ketamine inhibits platelet activation before, during, and after cardiopulmonary bypass in baboons. <i>Artificial Organs</i> , 2004 , 28, 959-62	2.6	10
16	Outcomes of congenital heart surgery patients after extracorporeal life support at Texas Children's Hospital. <i>Artificial Organs</i> , 2004 , 28, 963-6	2.6	34
15	Use of near-infrared spectroscopy to monitor regional cerebral oxygen saturation during infrarenal aortic crossclamping in piglets. <i>Artificial Organs</i> , 2003 , 27, 849-53	2.6	1
14	Pediatric physiologic pulsatile pump enhances cerebral and renal blood flow during and after cardiopulmonary bypass. <i>Artificial Organs</i> , 2002 , 26, 919-23	2.6	49
13	Effects of mild hypothermic cardiopulmonary bypass on blood viscoelasticity in coronary artery bypass grafting patients. <i>Artificial Organs</i> , 2002 , 26, 964-6	2.6	3
12	Pulsatile perfusion improves regional myocardial blood flow during and after hypothermic cardiopulmonary bypass in a neonatal piglet model. <i>ASAIO Journal</i> , 2002 , 48, 90-5	3.6	54
11	Effects of pulsatile and nonpulsatile perfusion on cerebral hemodynamics investigated with a new pediatric pump. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2002 , 124, 413-6	1.5	21
10	Novel anti-factor D monoclonal antibody inhibits complement and leukocyte activation in a baboon model of cardiopulmonary bypass. <i>Annals of Thoracic Surgery</i> , 2002 , 74, 355-62; discussion 362	2.7	31
9	The ABCs of research on pulsatile versus nonpulsatile perfusion during cardiopulmonary bypass. <i>Medical Science Monitor</i> , 2002 , 8, ED21-4	3.2	19
8	Effects of reduced pulse pressure on the cerebral metabolism during prolonged, nonpulsatile left heart bypass. <i>Artificial Organs</i> , 2001 , 25, 72-3	2.6	
7	Comparison of six pediatric cardiopulmonary bypass pumps during pulsatile and nonpulsatile perfusion. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2001 , 122, 827-9	1.5	52

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4	The effects of pulsatile versus nonpulsatile perfusion on blood viscoelasticity before and after deep hypothermic circulatory arrest in a neonatal piglet model. <i>Artificial Organs</i> , 1999 , 23, 717-21	2.6	28
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1	The type of aortic cannula and membrane oxygenator affect the pulsatile waveform morphology produced by a neonate-infant cardiopulmonary bypass system in vivo. <i>Artificial Organs</i> , 1998 , 22, 681-6	2.6	41