

# Alvaro P Rojas-Peña

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,026  
citations

471371

17  
h-index

477173

29  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1083  
citing authors

#	ARTICLE	IF	CITATIONS
1	Twenty-four-hour normothermic perfusion of isolated ex vivo hearts using plasma exchange. Journal of Thoracic and Cardiovascular Surgery, 2022, 164, 128-138.	0.4	14
2	A pumpless artificial lung without systemic anticoagulation: The Nitric Oxide Surface Anticoagulation system. Journal of Pediatric Surgery, 2022, 57, 26-33.	0.8	8
3	Hepatic Function in Premature Lambs Supported by the Artificial Placenta and Total Parenteral Nutrition. ASAIO Journal, 2022, 68, 949-955.	0.9	5
4	Seven-Day In Vivo Testing of a Novel, Low-Resistance, Pumpless Pediatric Artificial Lung for Long-Term Support. Journal of Pediatric Surgery, 2022, , .	0.8	0
5	Prolonged (≥24 Hours) Normothermic (32 °C) Ex Vivo Organ Perfusion: Lessons From the Literature. Transplantation, 2021, 105, 986-998.	0.5	4
6	Inflammatory Effects of Blood-Air Interface in a Porcine Cardiopulmonary Bypass Model. ASAIO Journal, 2020, 66, 72-78.	0.9	14
7	Tidal Flow Perfusion for the Artificial Placenta: A Paradigm Shift. ASAIO Journal, 2020, 66, 796-802.	0.9	9
8	A Model of Pediatric End-Stage Lung Failure in Small Lambs <20 kg. ASAIO Journal, 2020, 66, 572-579.	0.9	3
9	Low-Resistance, Concentric-Gated Pediatric Artificial Lung for End-Stage Lung Failure. ASAIO Journal, 2020, 66, 423-432.	0.9	14
10	Nitric Oxide Attenuates the Inflammatory Effects of Air During Extracorporeal Circulation. ASAIO Journal, 2020, 66, 818-824.	0.9	5
11	Ex Vivo Heart Perfusion for 72 Hours Using Plasma Cross Circulation. ASAIO Journal, 2020, 66, 753-759.	0.9	19
12	Assessing and improving the biocompatibility of microfluidic artificial lungs. Acta Biomaterialia, 2020, 112, 190-201.	4.1	17
13	Evaluation of an Anti-Thrombotic Continuous Lactate and Blood Pressure Monitoring Catheter in an In Vivo Piglet Model undergoing Open-Heart Surgery with Cardiopulmonary Bypass. Chemosensors, 2020, 8, 56.	1.8	3
14	Enhanced Hemocompatibility and In Vivo Analytical Accuracy of Intravascular Potentiometric Carbon Dioxide Sensors via Nitric Oxide Release. Analytical Chemistry, 2020, 92, 13641-13646.	3.2	8
15	Nitric Oxide-Releasing Insert for Disinfecting the Hub Region of Tunnel Dialysis Catheters. ACS Applied Materials & Interfaces, 2020, 12, 44475-44484.	4.0	10
16	Delivery system can vary ventilatory parameters across multiple patients from a single source of mechanical ventilation. PLoS ONE, 2020, 15, e0243601.	1.1	4
17	Title is missing!. , 2020, 15, e0243601.		0
18	Title is missing!. , 2020, 15, e0243601.		0

#	ARTICLE	IF	CITATIONS
19	Title is missing!. , 2020, 15, e0243601.		0
20	Title is missing!. , 2020, 15, e0243601.		0
21	Novel Leukocyte Modulator Device Reduces the Inflammatory Response to Cardiopulmonary Bypass. ASAIO Journal, 2019, 65, 401-407.	0.9	8
22	An Early Investigation into Possible Alternatives to Stapled Hysterotomy in Open Fetal Surgery. American Journal of Perinatology, 2019, 36, 742-750.	0.6	2
23	Splenic development and injury in premature lambs supported by the artificial placenta. Journal of Pediatric Surgery, 2019, 54, 1147-1152.	0.8	14
24	Rodent Skeletal Muscle Metabolomic Changes Associated With Static Cold Storage. Transplantation Proceedings, 2019, 51, 979-986.	0.3	2
25	Long-term Effects of Hypothermic Ex Situ Perfusion on Skeletal Muscle Metabolism, Structure, and Force Generation After Transplantation. Transplantation, 2019, 103, 2105-2112.	0.5	7
26	Development of an Ex-Situ Limb Perfusion System for a Rodent Model. ASAIO Journal, 2019, 65, 167-172.	0.9	16
27	Gastrointestinal mucosal development and injury in premature lambs supported by the artificial placenta. Journal of Pediatric Surgery, 2018, 53, 1240-1245.	0.8	16
28	Mechanical Circulatory Support for the Failing Fontan: Conversion to Assisted Single Ventricle Circulation—Preliminary Observations. World Journal for Pediatric & Congenital Heart Surgery, 2018, 9, 31-37.	0.3	6
29	Ex Situ Organ Preservation. Transplantation, 2018, 102, 554-556.	0.5	7
30	Atrial Infarction-Induced Spontaneous Focal Discharges and Atrial Fibrillation in Sheep. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e005659.	2.1	23
31	Cerebral Oxygenation of Premature Lambs Supported by an Artificial Placenta. ASAIO Journal, 2018, 64, 552-556.	0.9	18
32	Evaluation of Continuous Lactate Monitoring Systems within a Heparinized In Vivo Porcine Model Intravenously and Subcutaneously. Biosensors, 2018, 8, 122.	2.3	10
33	Nitric oxide-releasing semi-crystalline thermoplastic polymers: preparation, characterization and application to devise anti-inflammatory and bactericidal implants. Biomaterials Science, 2018, 6, 3189-3201.	2.6	24
34	A small-scale, rolled-membrane microfluidic artificial lung designed towards future large area manufacturing. Biomicrofluidics, 2017, 11, 024113.	1.2	27
35	Ex Situ Perfusion of Human Limb Allografts for 24 Hours. Transplantation, 2017, 101, e68-e74.	0.5	57
36	Portable Nitric Oxide (NO) Generator Based on Electrochemical Reduction of Nitrite for Potential Applications in Inhaled NO Therapy and Cardiopulmonary Bypass Surgery. Molecular Pharmaceutics, 2017, 14, 3762-3771.	2.3	26

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37	Development of a Model of Pediatric Lung Failure Pathophysiology. ASAIO Journal, 2017, 63, 216-222.	0.9	3
38	Pediatric Artificial Lung: A Low-Resistance Pumpless Artificial Lung Alleviates an Acute Lamb Model of Increased Right Ventricle Afterload. ASAIO Journal, 2017, 63, 223-228.	0.9	9
39	Normothermic Ex Vivo Heart Perfusion: Effects of Live Animal Blood and Plasma Cross Circulation. ASAIO Journal, 2017, 63, 766-773.	0.9	29
40	Large Animal Model of Pumpless Arteriovenous Extracorporeal CO <sub>2</sub> Removal Using Room Air via Subclavian Vessels. ASAIO Journal, 2016, 62, 110-113.	0.9	8
41	Achieving 12 Hour Normothermic Ex Situ Heart Perfusion: An Experience of 40 Porcine Hearts. ASAIO Journal, 2016, 62, 470-476.	0.9	31
42	The Effect of Ex Situ Perfusion in a Swine Limb Vascularized Composite Tissue Allograft on Survival up to 24 Hours. Journal of Hand Surgery, 2016, 41, 3-12.	0.7	60
43	The Implantable Pediatric Artificial Lung. ASAIO Journal, 2015, 61, 453-458.	0.9	6
44	Ex Situ Limb Perfusion System to Extend Vascularized Composite Tissue Allograft Survival in Swine. Transplantation, 2015, 99, 2095-2101.	0.5	46
45	Successful Porcine Renal Transplantation After 60 Minutes of Donor Warm Ischemia. ASAIO Journal, 2015, 61, 474-479.	0.9	6
46	An extracorporeal artificial placenta supports extremely premature lambs for 1week. Journal of Pediatric Surgery, 2015, 50, 44-49.	0.8	60
47	Invited Commentary. Annals of Thoracic Surgery, 2015, 100, 493-494.	0.7	0
48	Improved <i>in Vivo</i> Performance of Amperometric Oxygen ( $P_{iO_2}$ ) Sensing Catheters via Electrochemical Nitric Oxide Generation/Release. Analytical Chemistry, 2015, 87, 8067-8072.	3.2	29
49	A Novel Rotary Pulsatile Flow Pump for Cardiopulmonary Bypass. ASAIO Journal, 2014, 60, 322-328.	0.9	11
50	Donation After Circulatory Determination of Death. Transplantation, 2014, 98, 328-334.	0.5	103
51	<i>In Vivo</i> Testing of a Novel Blood Pump for Short-Term Extracorporeal Life Support. Annals of Thoracic Surgery, 2014, 98, 97-102.	0.7	13
52	Development of an artificial placenta V: 70h veno-venous extracorporeal life support after ventilatory failure in premature lambs. Journal of Pediatric Surgery, 2013, 48, 145-153.	0.8	35
53	A Simple, Standard Method to Characterize Pressure/Flow Performance of Vascular Access Cannulas. ASAIO Journal, 2013, 59, 24-29.	0.9	9
54	Development of an Artificial Placenta IV. ASAIO Journal, 2012, 58, 148-154.	0.9	33

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55	Quantification of thermal spread and burst pressure after endoscopic vessel harvesting: A comparison of 2 commercially available devices. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2011, 142, 203-208.	0.4	9
56	Timing of Heparin and Perfusion Temperature During Procurement of Organs with Extracorporeal Support in Donors After Circulatory Determination of Death. <i>ASAIO Journal</i> , 2011, 57, 368-374.	0.9	5
57	Extracorporeal Support: Improves Donor Renal Graft Function After Cardiac Death. <i>American Journal of Transplantation</i> , 2010, 10, 1365-1374.	2.6	38
58	Development of an artificial placenta I: pumpless arterio-venous extracorporeal life support in a neonatal sheep model. <i>Journal of Pediatric Surgery</i> , 2009, 44, 53-59.	0.8	52
59	Organ Donation After Cardiac Determination of Death (DCD): A Swine Model. <i>ASAIO Journal</i> , 2009, 55, 562-568.	0.9	12
60	Assessment of liver function during extracorporeal membrane oxygenation in the non-heart beating donor swine. <i>Transplantation Proceedings</i> , 2004, 36, 1268-1270.	0.3	19