

# 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	Donation After Circulatory Determination of Death. <i>Transplantation</i> , 2014, 98, 328-334.	0.5	103
2	An extracorporeal artificial placenta supports extremely premature lambs for 1week. <i>Journal of Pediatric Surgery</i> , 2015, 50, 44-49.	0.8	60
3	The Effect of Ex Situ Perfusion in a Swine Limb Vascularized Composite Tissue Allograft on Survival up to 24 Hours. <i>Journal of Hand Surgery</i> , 2016, 41, 3-12.	0.7	60
4	Ex Situ Perfusion of Human Limb Allografts for 24 Hours. <i>Transplantation</i> , 2017, 101, e68-e74.	0.5	57
5	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
6	Ex Situ Limb Perfusion System to Extend Vascularized Composite Tissue Allograft Survival in Swine. <i>Transplantation</i> , 2015, 99, 2095-2101.	0.5	46
7	Extracorporeal Support: Improves Donor Renal Graft Function After Cardiac Death. <i>American Journal of Transplantation</i> , 2010, 10, 1365-1374.	2.6	38
8	Development of an artificial placenta V: 70h veno-venous extracorporeal life support after ventilatory failure in premature lambs. <i>Journal of Pediatric Surgery</i> , 2013, 48, 145-153.	0.8	35
9	Development of an Artificial Placenta IV. <i>ASAIO Journal</i> , 2012, 58, 148-154.	0.9	33
10	Achieving 12 Hour Normothermic Ex Situ Heart Perfusion: An Experience of 40 Porcine Hearts. <i>ASAIO Journal</i> , 2016, 62, 470-476.	0.9	31
11	Improved <i>in Vivo</i> Performance of Amperometric Oxygen ( $O_2$ ) Sensing Catheters via Electrochemical Nitric Oxide Generation/Release. <i>Analytical Chemistry</i> , 2015, 87, 8067-8072.	3.2	29
12	Normothermic Ex Vivo Heart Perfusion: Effects of Live Animal Blood and Plasma Cross Circulation. <i>ASAIO Journal</i> , 2017, 63, 766-773.	0.9	29
13	A small-scale, rolled-membrane microfluidic artificial lung designed towards future large area manufacturing. <i>Biomicrofluidics</i> , 2017, 11, 024113.	1.2	27
14	Portable Nitric Oxide (NO) Generator Based on Electrochemical Reduction of Nitrite for Potential Applications in Inhaled NO Therapy and Cardiopulmonary Bypass Surgery. <i>Molecular Pharmaceutics</i> , 2017, 14, 3762-3771.	2.3	26
15	Nitric oxide-releasing semi-crystalline thermoplastic polymers: preparation, characterization and application to devise anti-inflammatory and bactericidal implants. <i>Biomaterials Science</i> , 2018, 6, 3189-3201.	2.6	24
16	Atrial Infarction-Induced Spontaneous Focal Discharges and Atrial Fibrillation in Sheep. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e005659.	2.1	23
17	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
18	Ex Vivo Heart Perfusion for 72 Hours Using Plasma Cross Circulation. <i>ASAIO Journal</i> , 2020, 66, 753-759.	0.9	19

#	ARTICLE	IF	CITATIONS
19	Cerebral Oxygenation of Premature Lambs Supported by an Artificial Placenta. <i>ASAIO Journal</i> , 2018, 64, 552-556.	0.9	18
20	Assessing and improving the biocompatibility of microfluidic artificial lungs. <i>Acta Biomaterialia</i> , 2020, 112, 190-201.	4.1	17
21	Gastrointestinal mucosal development and injury in premature lambs supported by the artificial placenta. <i>Journal of Pediatric Surgery</i> , 2018, 53, 1240-1245.	0.8	16
22	Development of an Ex-Situ Limb Perfusion System for a Rodent Model. <i>ASAIO Journal</i> , 2019, 65, 167-172.	0.9	16
23	Splenic development and injury in premature lambs supported by the artificial placenta. <i>Journal of Pediatric Surgery</i> , 2019, 54, 1147-1152.	0.8	14
24	Inflammatory Effects of Blood-Air Interface in a Porcine Cardiopulmonary Bypass Model. <i>ASAIO Journal</i> , 2020, 66, 72-78.	0.9	14
25	Low-Resistance, Concentric-Gated Pediatric Artificial Lung for End-Stage Lung Failure. <i>ASAIO Journal</i> , 2020, 66, 423-432.	0.9	14
26	Twenty-four-hour normothermic perfusion of isolated ex vivo hearts using plasma exchange. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2022, 164, 128-138.	0.4	14
27	In Vivo Testing of a Novel Blood Pump for Short-Term Extracorporeal Life Support. <i>Annals of Thoracic Surgery</i> , 2014, 98, 97-102.	0.7	13
28	Organ Donation After Cardiac Determination of Death (DCD): A Swine Model. <i>ASAIO Journal</i> , 2009, 55, 562-568.	0.9	12
29	A Novel Rotary Pulsatile Flow Pump for Cardiopulmonary Bypass. <i>ASAIO Journal</i> , 2014, 60, 322-328.	0.9	11
30	Evaluation of Continuous Lactate Monitoring Systems within a Heparinized In Vivo Porcine Model Intravenously and Subcutaneously. <i>Biosensors</i> , 2018, 8, 122.	2.3	10
31	Nitric Oxide-Releasing Insert for Disinfecting the Hub Region of Tunnel Dialysis Catheters. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 44475-44484.	4.0	10
32	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
33	A Simple, Standard Method to Characterize Pressure/Flow Performance of Vascular Access Cannulas. <i>ASAIO Journal</i> , 2013, 59, 24-29.	0.9	9
34	Pediatric Artificial Lung: A Low-Resistance Pumpless Artificial Lung Alleviates an Acute Lamb Model of Increased Right Ventricle Afterload. <i>ASAIO Journal</i> , 2017, 63, 223-228.	0.9	9
35	Tidal Flow Perfusion for the Artificial Placenta: A Paradigm Shift. <i>ASAIO Journal</i> , 2020, 66, 796-802.	0.9	9
36	Large Animal Model of Pumpless Arteriovenous Extracorporeal CO2 Removal Using Room Air via Subclavian Vessels. <i>ASAIO Journal</i> , 2016, 62, 110-113.	0.9	8

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37	Novel Leukocyte Modulator Device Reduces the Inflammatory Response to Cardiopulmonary Bypass. <i>ASAIO Journal</i> , 2019, 65, 401-407.	0.9	8
38	Enhanced Hemocompatibility and <i>In Vivo</i> Analytical Accuracy of Intravascular Potentiometric Carbon Dioxide Sensors via Nitric Oxide Release. <i>Analytical Chemistry</i> , 2020, 92, 13641-13646.	3.2	8
39	A pumpless artificial lung without systemic anticoagulation: The Nitric Oxide Surface Anticoagulation system. <i>Journal of Pediatric Surgery</i> , 2022, 57, 26-33.	0.8	8
40	Ex Situ Organ Preservation. <i>Transplantation</i> , 2018, 102, 554-556.	0.5	7
41	Long-term Effects of Hypothermic Ex Situ Perfusion on Skeletal Muscle Metabolism, Structure, and Force Generation After Transplantation. <i>Transplantation</i> , 2019, 103, 2105-2112.	0.5	7
42	The Implantable Pediatric Artificial Lung. <i>ASAIO Journal</i> , 2015, 61, 453-458.	0.9	6
43	Successful Porcine Renal Transplantation After 60 Minutes of Donor Warm Ischemia. <i>ASAIO Journal</i> , 2015, 61, 474-479.	0.9	6
44	Mechanical Circulatory Support for the Failing Fontan: Conversion to Assisted Single Ventricle Circulation—Preliminary Observations. <i>World Journal for Pediatric &amp; Congenital Heart Surgery</i> , 2018, 9, 31-37.	0.3	6
45	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
46	Nitric Oxide Attenuates the Inflammatory Effects of Air During Extracorporeal Circulation. <i>ASAIO Journal</i> , 2020, 66, 818-824.	0.9	5
47	Hepatic Function in Premature Lambs Supported by the Artificial Placenta and Total Parenteral Nutrition. <i>ASAIO Journal</i> , 2022, 68, 949-955.	0.9	5
48	Delivery system can vary ventilatory parameters across multiple patients from a single source of mechanical ventilation. <i>PLoS ONE</i> , 2020, 15, e0243601.	1.1	4
49	Prolonged (≥24 Hours) Normothermic (32 °C) Ex Vivo Organ Perfusion: Lessons From the Literature. <i>Transplantation</i> , 2021, 105, 986-998.	0.5	4
50	Development of a Model of Pediatric Lung Failure Pathophysiology. <i>ASAIO Journal</i> , 2017, 63, 216-222.	0.9	3
51	A Model of Pediatric End-Stage Lung Failure in Small Lambs <20 kg. <i>ASAIO Journal</i> , 2020, 66, 572-579.	0.9	3
52	Evaluation of an Anti-Thrombotic Continuous Lactate and Blood Pressure Monitoring Catheter in an <i>In Vivo</i> Piglet Model undergoing Open-Heart Surgery with Cardiopulmonary Bypass. <i>Chemosensors</i> , 2020, 8, 56.	1.8	3
53	An Early Investigation into Possible Alternatives to Stapled Hysterotomy in Open Fetal Surgery. <i>American Journal of Perinatology</i> , 2019, 36, 742-750.	0.6	2
54	Rodent Skeletal Muscle Metabolomic Changes Associated With Static Cold Storage. <i>Transplantation Proceedings</i> , 2019, 51, 979-986.	0.3	2

#	ARTICLE	IF	CITATIONS
55	Invited Commentary. <i>Annals of Thoracic Surgery</i> , 2015, 100, 493-494.	0.7	0
56	Title is missing!. , 2020, 15, e0243601.		0
57	Title is missing!. , 2020, 15, e0243601.		0
58	Title is missing!. , 2020, 15, e0243601.		0
59	Title is missing!. , 2020, 15, e0243601.		0
60	Seven-Day In Vivo Testing of a Novel, Low-Resistance, Pumpless Pediatric Artificial Lung for Long-Term Support. <i>Journal of Pediatric Surgery</i> , 2022, , .	0.8	0