

Keith E Cook

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

1,553
citations

279701

23
h-index

360920

35
g-index

76
all docs

76
docs citations

76
times ranked

1551
citing authors

#	ARTICLE	IF	CITATIONS
1	Progression Toward Decompensated Right Ventricular Failure in the Ovine Pulmonary Hypertension Model. <i>ASAIO Journal</i> , 2022, 68, e29-e33.	0.9	4
2	Right ventricular myocardial energetic model for evaluating right heart function in pulmonary arterial hypertension. <i>Physiological Reports</i> , 2022, 10, e15136.	0.7	1
3	Left Pulmonary Artery Ligation and Chronic Pulmonary Artery Banding Model for Inducing Right Ventricular Pulmonary Hypertension in Sheep. <i>ASAIO Journal</i> , 2021, 67, e44-e48.	0.9	6
4	Therapeutic Ultrasound Triggered Silk Fibroin Scaffold Degradation. <i>Advanced Healthcare Materials</i> , 2021, 10, 2100048.	3.9	13
5	Establishment and evaluation of a rat model of extracorporeal membrane oxygenation (ECMO) thrombosis using a 3D-printed mock-oxygenator. <i>Journal of Translational Medicine</i> , 2021, 19, 179.	1.8	4
6	Combination of polycarboxybetaine coating and factor XII inhibitor reduces clot formation while preserving normal tissue coagulation during extracorporeal life support. <i>Biomaterials</i> , 2021, 272, 120778.	5.7	28
7	A Large Animal Model for Pulmonary Hypertension and Right Ventricular Failure: Left Pulmonary Artery Ligation and Progressive Main Pulmonary Artery Banding in Sheep. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	5
8	Cyclic peptide FXII inhibitor provides safe anticoagulation in a thrombosis model and in artificial lungs. <i>Nature Communications</i> , 2020, 11, 3890.	5.8	61
9	Advancing Front Oxygen Transfer Model for the Design of Microchannel Artificial Lungs. <i>ASAIO Journal</i> , 2020, 66, 1054-1062.	0.9	5
10	Extracorporeal Artificial Organs and Therapeutic Devices. , 2020, , 1051-1077.		2
11	Zwitterionic poly-carboxybetaine coating reduces artificial lung thrombosis in sheep and rabbits. <i>Acta Biomaterialia</i> , 2019, 92, 71-81.	4.1	47
12	De novo lung biofabrication: clinical need, construction methods, and design strategy. <i>Translational Research</i> , 2019, 211, 1-18.	2.2	6
13	72-Hour in vivo evaluation of nitric oxide generating artificial lung gas exchange fibers in sheep. <i>Acta Biomaterialia</i> , 2019, 90, 122-131.	4.1	11
14	Artificial Lungs for Lung Failure. <i>Journal of the American College of Cardiology</i> , 2018, 72, 1640-1652.	1.2	20
15	In vitro evaluation of lysophosphatidic acid delivery via reverse perfluorocarbon emulsions to enhance alveolar epithelial repair. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 411-417.	2.5	2
16	Achieving Ultralow Fouling under Ambient Conditions via Surface-Initiated ARGET ATRP of Carboxybetaine. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9255-9259.	4.0	79
17	Fourteen Day In Vivo Testing of a Compliant Thoracic Artificial Lung. <i>ASAIO Journal</i> , 2017, 63, 644-649.	0.9	27
18	Effects of fluorosurfactant structure and concentration on drug availability and biocompatibility in water-in-perfluorocarbon emulsions for pulmonary drug delivery. <i>Colloid and Polymer Science</i> , 2017, 295, 2413-2422.	1.0	7

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19	Effects of Fluorosurfactant Structure and Concentration on Drug Availability and Biocompatibility in Water-in-Perfluorocarbon Emulsions for Pulmonary Drug Delivery. <i>Colloid and Polymer Science</i> , 2017, 295, 2413-2422.	1.0	3
20	Multimodal, Biomaterial-Focused Anticoagulation via Superlow Fouling Zwitterionic Functional Groups Coupled with Anti-Platelet Nitric Oxide Release. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500646.	1.9	32
21	Effects of Emulsion Composition on Pulmonary Tobramycin Delivery During Antibacterial Perfluorocarbon Ventilation. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2016, 29, 251-259.	0.7	10
22	Characterization of a Reverse-Phase Perfluorocarbon Emulsion for the Pulmonary Delivery of Tobramycin. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2014, 27, 392-399.	0.7	9
23	Achieving One-Step Surface Coating of Highly Hydrophilic Poly(Carboxybetaine Methacrylate) Polymers on Hydrophobic and Hydrophilic Surfaces. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400071.	1.9	80
24	Extracorporeal Membrane Oxygenation With Subclavian Artery Cannulation in Awake Patients With Pulmonary Hypertension. <i>ASAIO Journal</i> , 2014, 60, 748-750.	0.9	33
25	Multi-Modal, Surface-Focused Anticoagulation Using Poly(2-methoxyethylacrylate) Polymer Grafts and Surface Nitric Oxide Release. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400012.	1.9	12
26	Use of a low-resistance compliant thoracic artificial lung in the pulmonary artery to pulmonary artery configuration. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2013, 145, 1660-1666.	0.4	10
27	Long-Term Animal Model of Venovenous Extracorporeal Membrane Oxygenation with Atrial Septal Defect as a Bridge to Lung Transplantation. <i>ASAIO Journal</i> , 2013, 59, 558-563.	0.9	5
28	Fabrication and <i>in vivo</i> thrombogenicity testing of nitric oxide generating artificial lungs. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3511-3519.	2.1	26
29	Design and In Vitro Assessment of an Improved, Low-Resistance Compliant Thoracic Artificial Lung. <i>ASAIO Journal</i> , 2012, 58, 583-589.	0.9	23
30	Hemodynamic Design Requirements for In-Series Thoracic Artificial Lung Attachment in a Model of Pulmonary Hypertension. <i>ASAIO Journal</i> , 2012, 58, 426-431.	0.9	8
31	In-Parallel Attachment of a Low-Resistance Compliant Thoracic Artificial Lung Under Rest and Simulated Exercise. <i>Annals of Thoracic Surgery</i> , 2012, 94, 1688-1694.	0.7	10
32	Remodeling of mechanical junctions and of microtubule-associated proteins accompany cardiac connexin43 lateralization. <i>Heart Rhythm</i> , 2012, 9, 1133-1140.e6.	0.3	59
33	A Low Mortality Model of Chronic Pulmonary Hypertension in Sheep. <i>Journal of Surgical Research</i> , 2012, 175, 44-48.	0.8	21
34	THE ROLE OF POROUS MEDIA IN MODELING FLUID FLOW WITHIN HOLLOW FIBER MEMBRANES OF THE TOTAL ARTIFICIAL LUNG. <i>Journal of Porous Media</i> , 2012, 15, 113-122.	1.0	23
35	Thoracic Artificial Lung Impedance Studies Using Computational Fluid Dynamics and In Vitro Models. <i>Annals of Biomedical Engineering</i> , 2012, 40, 628-636.	1.3	12
36	Total Liquid Ventilation Provides Superior Respiratory Support to Conventional Mechanical Ventilation in a Large Animal Model of Severe Respiratory Failure. <i>ASAIO Journal</i> , 2011, 57, 1-8.	0.9	18

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37	Nitric Oxide-Generating Silicone As a Blood-Contacting Biomaterial. <i>ASAIO Journal</i> , 2011, 57, 539-544.	0.9	13
38	Veno-venous extracorporeal membrane oxygenation with interatrial shunting: A novel approach to lung transplantation for patients in right ventricular failure. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2011, 141, 537-542.e1.	0.4	19
39	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
40	Use of Venovenous Extracorporeal Membrane Oxygenation and an Atrial Septostomy for Pulmonary and Right Ventricular Failure. <i>Annals of Thoracic Surgery</i> , 2011, 91, 144-149.	0.7	38
41	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
42	In-Parallel Artificial Lung Attachment at High Flows in Normal and Pulmonary Hypertension Models. <i>Annals of Thoracic Surgery</i> , 2010, 90, 259-265.	0.7	18
43	Extracorporeal Support: Improves Donor Renal Graft Function After Cardiac Death. <i>American Journal of Transplantation</i> , 2010, 10, 1365-1374.	2.6	38
44	Lung Physiology During ECS Resuscitation of DCD Donors Followed by In Situ Assessment of Lung Function. <i>ASAIO Journal</i> , 2009, 55, 388-394.	0.9	4
45	The Relationships Between Air Exposure, Negative Pressure, and Hemolysis. <i>ASAIO Journal</i> , 2009, 55, 469-473.	0.9	37
46	Cardiac Output During High Afterload Artificial Lung Attachment. <i>ASAIO Journal</i> , 2009, 55, 73-77.	0.9	11
47	The Relationship Between Pulmonary System Impedance and Right Ventricular Function in Normal Sheep. <i>Cardiovascular Engineering (Dordrecht, Netherlands)</i> , 2009, 9, 153-160.	1.0	10
48	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
49	Performance of a MedArray Silicone Hollow Fiber Oxygenator. <i>ASAIO Journal</i> , 2009, 55, 382-387.	0.9	11
50	Organ Donation After Cardiac Determination of Death (DCD): A Swine Model. <i>ASAIO Journal</i> , 2009, 55, 562-568.	0.9	12
51	2-Hydroxy-5-nitrobenzyl as a Diazeniumdiolate Protecting Group: Application in NO-Releasing Polymers with Enhanced Biocompatibility. <i>Organic Letters</i> , 2008, 10, 4593-4596.	2.4	18
52	Pulsatile Flow and Oxygen Transport Past Cylindrical Fiber Arrays for an Artificial Lung: Computational and Experimental Studies. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 031019.	0.6	18
53	Large Animal Model of Chronic Pulmonary Hypertension. <i>ASAIO Journal</i> , 2008, 54, 396-400.	0.9	26
54	Pulmonic Valve Function During Thoracic Artificial Lung Attachment. <i>ASAIO Journal</i> , 2008, 54, 197-202.	0.9	3

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55	Seven-Day Artificial Lung Testing in an In-Parallel Configuration. <i>Annals of Thoracic Surgery</i> , 2007, 84, 988-994.	0.7	30
56	Thirty-Day In-Parallel Artificial Lung Testing in Sheep. <i>Annals of Thoracic Surgery</i> , 2007, 84, 1136-1143.	0.7	43
57	Effect of Artificial Lung Compliance on In Vivo Pulmonary System Hemodynamics. <i>ASAIO Journal</i> , 2006, 52, 248-256.	0.9	16
58	Hemodynamic and Gas Transfer Properties of a Compliant Thoracic Artificial Lung. <i>ASAIO Journal</i> , 2005, 51, 404-411.	0.9	34
59	A Polymethylpentene Fiber Gas Exchanger for Long-Term Extracorporeal Life Support. <i>ASAIO Journal</i> , 2005, 51, 390-397.	0.9	79
60	THORACIC ARTIFICIAL LUNG (TAL) DEVELOPMENT: DETERMINING THE MOST SUITABLE FIBER FOR TAL. <i>ASAIO Journal</i> , 2005, 51, 51A.	0.9	4
61	Inhaled Prostacyclin Following Surgical Repair of Congenital Heart Disease-A Pilot Study. <i>Journal of Cardiac Surgery</i> , 2005, 20, 436-439.	0.3	14
62	In Vivo Hemodynamic Responses to Thoracic Artificial Lung Attachment. <i>ASAIO Journal</i> , 2005, 51, 412-425.	0.9	18
63	In Vitro Fluid Mechanical Effects of Thoracic Artificial Lung Compliance. <i>ASAIO Journal</i> , 2005, 51, 789-794.	0.9	19
64	HEMODYNAMIC EFFECTS OF IN-PARALLEL ARTIFICIAL LUNG IMPLANTATION IN HEALTHY AND HYPERTENSIVE SHEEP. <i>ASAIO Journal</i> , 2005, 51, 51A.	0.9	1
65	Hematological changes during short-term tidal flow extracorporeal life support. <i>Perfusion (United Tj ETQq1 1 0.784314 rgBT₁/Overlo</i>	0.5	1
66	Blood Flow Pulsatility Effects upon Oxygen Transfer in Artificial Lungs. <i>ASAIO Journal</i> , 2003, 49, 678-686.	0.9	12
67	Platelet and Leukocyte Activation and Design Consequences for Thoracic Artificial Lungs. <i>ASAIO Journal</i> , 2002, 48, 620-630.	0.9	15
68	Healing of a free tracheal autograft is enhanced by topical vascular endothelial growth factor in an experimental rabbit model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2001, 122, 554-561.	0.4	39
69	Development of an Implantable Artificial Lung: Challenges and Progress. <i>ASAIO Journal</i> , 2001, 47, 316-320.	0.9	54
70	Hemodynamic Effects of Attachment Modes and Device Design of a Thoracic Artificial Lung. <i>ASAIO Journal</i> , 2000, 46, 42-48.	0.9	41
71	Testing of an Intrathoracic Artificial Lung in a Pig Model. <i>ASAIO Journal</i> , 1996, 42, M604-608.	0.9	26
72	Computer-Assisted Design of an Implantable, Intrathoracic Artificial Lung. <i>Artificial Organs</i> , 1994, 18, 813-817.	1.0	26

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73	Design and Evaluation of a New, Low Pressure Loss, Implantable Artificial Lung. ASAIO Journal, 1994, 40, M522-M526.	0.9	15