

Keith E Cook

List of Publications by Year in descending order

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73
papers

1,553
citations

279798
23
h-index

361022
35
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76
all docs

76
docs citations

76
times ranked

1551
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.7	80
2	A Polymethylpentene Fiber Gas Exchanger for Long-Term Extracorporeal Life Support. <i>ASAIO Journal</i> , 2005, 51, 390-397.	1.6	79
3	Achieving Ultralow Fouling under Ambient Conditions via Surface-Initiated ARGET ATRP of Carboxybetaine. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9255-9259.	8.0	79
4	Cyclic peptide FXII inhibitor provides safe anticoagulation in a thrombosis model and in artificial lungs. <i>Nature Communications</i> , 2020, 11, 3890.	12.8	61
5	Remodeling of mechanical junctions and of microtubule-associated proteins accompany cardiac connexin43 lateralization. <i>Heart Rhythm</i> , 2012, 9, 1133-1140.e6.	0.7	59
6	Development of an Implantable Artificial Lung: Challenges and Progress. <i>ASAIO Journal</i> , 2001, 47, 316-320.	1.6	54
7	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.	1.6	52
8	Zwitterionic poly-carboxybetaine coating reduces artificial lung thrombosis in sheep and rabbits. <i>Acta Biomaterialia</i> , 2019, 92, 71-81.	8.3	47
9	Thirty-Day In-Parallel Artificial Lung Testing in Sheep. <i>Annals of Thoracic Surgery</i> , 2007, 84, 1136-1143.	1.3	43
10	Hemodynamic Effects of Attachment Modes and Device Design of a Thoracic Artificial Lung. <i>ASAIO Journal</i> , 2000, 46, 42-48.	1.6	41
11	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.	0.8	39
12	Extracorporeal Support: Improves Donor Renal Graft Function After Cardiac Death. <i>American Journal of Transplantation</i> , 2010, 10, 1365-1374.	4.7	38
13	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.	1.3	38
14	The Relationships Between Air Exposure, Negative Pressure, and Hemolysis. <i>ASAIO Journal</i> , 2009, 55, 469-473.	1.6	37
15	Hemodynamic and Gas Transfer Properties of a Compliant Thoracic Artificial Lung. <i>ASAIO Journal</i> , 2005, 51, 404-411.	1.6	34
16	Extracorporeal Membrane Oxygenation With Subclavian Artery Cannulation in Awake Patients With Pulmonary Hypertension. <i>ASAIO Journal</i> , 2014, 60, 748-750.	1.6	33
17	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.	3.7	32
18	Seven-Day Artificial Lung Testing in an In-Parallel Configuration. <i>Annals of Thoracic Surgery</i> , 2007, 84, 988-994.	1.3	30

#	ARTICLE	IF	CITATIONS
19	Combination of polycarboxybetaine coating and factor XII inhibitor reduces clot formation while preserving normal tissue coagulation during extracorporeal life support. Biomaterials, 2021, 272, 120778.	11.4	28
20	Fourteen Day In Vivo Testing of a Compliant Thoracic Artificial Lung. ASAIO Journal, 2017, 63, 644-649.	1.6	27
21	Computer-Assisted Design of an Implantable, Intrathoracic Artificial Lung. Artificial Organs, 1994, 18, 813-817.	1.9	26
22	Testing of an Intrathoracic Artificial Lung in a Pig Model. ASAIO Journal, 1996, 42, M604-608.	1.6	26
23	Large Animal Model of Chronic Pulmonary Hypertension. ASAIO Journal, 2008, 54, 396-400.	1.6	26
24	Fabrication and <i>in vivo</i> thrombogenicity testing of nitric oxide generating artificial lungs. Journal of Biomedical Materials Research - Part A, 2013, 101, 3511-3519.	4.0	26
25	Design and In Vitro Assessment of an Improved, Low-Resistance Compliant Thoracic Artificial Lung. ASAIO Journal, 2012, 58, 583-589.	1.6	23
26	THE ROLE OF POROUS MEDIA IN MODELING FLUID FLOW WITHIN HOLLOW FIBER MEMBRANES OF THE TOTAL ARTIFICIAL LUNG. Journal of Porous Media, 2012, 15, 113-122.	1.9	23
27	A Low Mortality Model of Chronic Pulmonary Hypertension in Sheep. Journal of Surgical Research, 2012, 175, 44-48.	1.6	21
28	Artificial Lungs for Lung Failure. Journal of the American College of Cardiology, 2018, 72, 1640-1652.	2.8	20
29	In Vitro Fluid Mechanical Effects of Thoracic Artificial Lung Compliance. ASAIO Journal, 2005, 51, 789-794.	1.6	19
30	Veno-venous extracorporeal membrane oxygenation with interatrial shunting: A novel approach to lung transplantation for patients inÂright ventricular failure. Journal of Thoracic and Cardiovascular Surgery, 2011, 141, 537-542.e1.	0.8	19
31	In Vivo Hemodynamic Responses to Thoracic Artificial Lung Attachment. ASAIO Journal, 2005, 51, 412-425.	1.6	18
32	2-Hydroxy-5-nitrobenzyl as a Diazeniumdiolate Protecting Group: Application in NO-Releasing Polymers with Enhanced Biocompatibility. Organic Letters, 2008, 10, 4593-4596.	4.6	18
33	Pulsatile Flow and Oxygen Transport Past Cylindrical Fiber Arrays for an Artificial Lung: Computational and Experimental Studies. Journal of Biomechanical Engineering, 2008, 130, 031019.	1.3	18
34	In-Parallel Artificial Lung Attachment at High Flows in Normal and Pulmonary Hypertension Models. Annals of Thoracic Surgery, 2010, 90, 259-265.	1.3	18
35	Total Liquid Ventilation Provides Superior Respiratory Support to Conventional Mechanical Ventilation in a Large Animal Model of Severe Respiratory Failure. ASAIO Journal, 2011, 57, 1-8.	1.6	18
36	Effect of Artificial Lung Compliance on In Vivo Pulmonary System Hemodynamics. ASAIO Journal, 2006, 52, 248-256.	1.6	16

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37	Design and Evaluation of a New, Low Pressure Loss, Implantable Artificial Lung. ASAIO Journal, 1994, 40, M522-M526.	1.6	15
38	Platelet and Leukocyte Activation and Design Consequences for Thoracic Artificial Lungs. ASAIO Journal, 2002, 48, 620-630.	1.6	15
39	Inhaled Prostacyclin Following Surgical Repair of Congenital Heart Disease-A Pilot Study. Journal of Cardiac Surgery, 2005, 20, 436-439.	0.7	14
40	Nitric Oxide-Generating Silicone As a Blood-Contacting Biomaterial. ASAIO Journal, 2011, 57, 539-544.	1.6	13
41	Therapeutic Ultrasound Triggered Silk Fibroin Scaffold Degradation. Advanced Healthcare Materials, 2021, 10, 2100048.	7.6	13
42	Blood Flow Pulsatility Effects upon Oxygen Transfer in Artificial Lungs. ASAIO Journal, 2003, 49, 678-686.	1.6	12
43	Organ Donation After Cardiac Determination of Death (DCD): A Swine Model. ASAIO Journal, 2009, 55, 562-568.	1.6	12
44	Thoracic Artificial Lung Impedance Studies Using Computational Fluid Dynamics and In Vitro Models. Annals of Biomedical Engineering, 2012, 40, 628-636.	2.5	12
45	Multi-Modal, Surface-Focused Anticoagulation Using Poly(2-methoxyethylacrylate) Polymer Grafts and Surface Nitric Oxide Release. Advanced Materials Interfaces, 2014, 1, 1400012.	3.7	12
46	Cardiac Output During High Afterload Artificial Lung Attachment. ASAIO Journal, 2009, 55, 73-77.	1.6	11
47	Performance of a MedArray Silicone Hollow Fiber Oxygenator. ASAIO Journal, 2009, 55, 382-387.	1.6	11
48	72-Hour in vivo evaluation of nitric oxide generating artificial lung gas exchange fibers in sheep. Acta Biomaterialia, 2019, 90, 122-131.	8.3	11
49	The Relationship Between Pulmonary System Impedance and Right Ventricular Function in Normal Sheep. Cardiovascular Engineering (Dordrecht, Netherlands), 2009, 9, 153-160.	1.0	10
50	In-Parallel Attachment of a Low-Resistance Compliant Thoracic Artificial Lung Under Rest and Simulated Exercise. Annals of Thoracic Surgery, 2012, 94, 1688-1694.	1.3	10
51	Use of a low-resistance compliant thoracic artificial lung in the pulmonary artery to pulmonary artery configuration. Journal of Thoracic and Cardiovascular Surgery, 2013, 145, 1660-1666.	0.8	10
52	Effects of Emulsion Composition on Pulmonary Tobramycin Delivery During Antibacterial Perfluorocarbon Ventilation. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2016, 29, 251-259.	1.4	10
53	Quantification of thermal spread and burst pressure after endoscopic vessel harvesting: A comparison of 2 commercially available devices. Journal of Thoracic and Cardiovascular Surgery, 2011, 142, 203-208.	0.8	9
54	Characterization of a Reverse-Phase Perfluorocarbon Emulsion for the Pulmonary Delivery of Tobramycin. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2014, 27, 392-399.	1.4	9

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55	Hemodynamic Design Requirements for In-Series Thoracic Artificial Lung Attachment in a Model of Pulmonary Hypertension. ASAIO Journal, 2012, 58, 426-431.	1.6	8
56	Effects of fluorosurfactant structure and concentration on drug availability and biocompatibility in water-in-perfluorocarbon emulsions for pulmonary drug delivery. Colloid and Polymer Science, 2017, 295, 2413-2422.	2.1	7
57	De novo lung biofabrication: clinical need, construction methods, and design strategy. Translational Research, 2019, 211, 1-18.	5.0	6
58	Left Pulmonary Artery Ligation and Chronic Pulmonary Artery Banding Model for Inducing Right Ventricular Pulmonary Hypertension in Sheep. ASAIO Journal, 2021, 67, e44-e48.	1.6	6
59	Timing of Heparin and Perfusion Temperature During Procurement of Organs with Extracorporeal Support in Donors After Circulatory Determination of Death. ASAIO Journal, 2011, 57, 368-374.	1.6	5
60	Long-Term Animal Model of Venovenous Extracorporeal Membrane Oxygenation with Atrial Septal Defect as a Bridge to Lung Transplantation. ASAIO Journal, 2013, 59, 558-563.	1.6	5
61	Advancing Front Oxygen Transfer Model for the Design of Microchannel Artificial Lungs. ASAIO Journal, 2020, 66, 1054-1062.	1.6	5
62	A Large Animal Model for Pulmonary Hypertension and Right Ventricular Failure: Left Pulmonary Artery Ligation and Progressive Main Pulmonary Artery Banding in Sheep. Journal of Visualized Experiments, 2021, , .	0.3	5
63	THORACIC ARTIFICIAL LUNG (TAL) DEVELOPMENT: DETERMINING THE MOST SUITABLE FIBER FOR TAL. ASAIO Journal, 2005, 51, 51A.	1.6	4
64	Lung Physiology During ECS Resuscitation of DCD Donors Followed by In Situ Assessment of Lung Function. ASAIO Journal, 2009, 55, 388-394.	1.6	4
65	Establishment and evaluation of a rat model of extracorporeal membrane oxygenation (ECMO) thrombosis using a 3D-printed mock-oxygenator. Journal of Translational Medicine, 2021, 19, 179.	4.4	4
66	Progression Toward Decompensated Right Ventricular Failure in the Ovine Pulmonary Hypertension Model. ASAIO Journal, 2022, 68, e29-e33.	1.6	4
67	Pulmonic Valve Function During Thoracic Artificial Lung Attachment. ASAIO Journal, 2008, 54, 197-202.	1.6	3
68	Effects of Fluorosurfactant Structure and Concentration on Drug Availability and Biocompatibility in Water-in-Perfluorocarbon Emulsions for Pulmonary Drug Delivery. Colloid and Polymer Science, 2017, 295, 2413-2422.	2.1	3
69	In vitro evaluation of lysophosphatidic acid delivery via reverse perfluorocarbon emulsions to enhance alveolar epithelial repair. Colloids and Surfaces B: Biointerfaces, 2018, 169, 411-417.	5.0	2
70	Extracorporeal Artificial Organs and Therapeutic Devices. , 2020, , 1051-1077.		2
71	Hematological changes during short-term tidal flow extracorporeal life support. Perfusion (United) Tj ETQq1 1 0.784314 rgBT /Overlook	1.0	1
72	HEMODYNAMIC EFFECTS OF IN-PARALLEL ARTIFICIAL LUNG IMPLANTATION IN HEALTHY AND HYPERTENSIVE SHEEP. ASAIO Journal, 2005, 51, 51A.	1.6	1

#	ARTICLE	IF	CITATIONS
73	Right ventricular myocardial energetic model for evaluating right heart function in pulmonary arterial hypertension. Physiological Reports, 2022, 10, e15136.	1.7	1