

# Lance Becker

## 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.

95  
papers

8,316  
citations

20  
h-index

91  
g-index

133  
ext. papers

10,666  
ext. citations

6  
avg, IF

5.98  
L-index

#	Paper	IF	Citations
95	Resuscitation Using ECPR During In-Hospital Cardiac Arrest (RESCUE-IHCA) Mortality Prediction Score and External Validation.. <i>JACC: Cardiovascular Interventions</i> , <b>2022</b> , 15, 237-237	5	3
94	A Multicentered Randomized Controlled Trial Comparing the Effectiveness of Pain Treatment Communication Tools in Emergency Department Patients With Back or Kidney Stone Pain.. <i>American Journal of Public Health</i> , <b>2022</b> , 112, S45-S55	5.1	0
93	Metformin-mediated mitochondrial protection post-cardiac arrest improves EEG activity and confers neuroprotection and survival benefit.. <i>FASEB Journal</i> , <b>2022</b> , 36, e22307	0.9	0
92	Monitoring the tissue perfusion during hemorrhagic shock and resuscitation: tissue-to-arterial carbon dioxide partial pressure gradient in a pig model. <i>Journal of Translational Medicine</i> , <b>2021</b> , 19, 390	8.5	0
91	Hydrogen gas with extracorporeal cardiopulmonary resuscitation improves survival after prolonged cardiac arrest in rats. <i>Journal of Translational Medicine</i> , <b>2021</b> , 19, 462	8.5	1
90	Intubated COVID-19 predictive (ICOP) score for early mortality after intubation in patients with COVID-19. <i>Scientific Reports</i> , <b>2021</b> , 11, 21124	4.9	2
89	Increased plasma disequilibrium between pro- and anti-oxidants during the early phase resuscitation after cardiac arrest is associated with increased levels of oxidative stress end-products. <i>Molecular Medicine</i> , <b>2021</b> , 27, 135	6.2	1
88	Renal Transplant Artery Inflow Stenosis Treated with Femorofemoral Bypass. <i>International Journal of Angiology</i> , <b>2021</b> , 30, 310-312	1.1	
87	Effectiveness of SARS-CoV-2 Decontamination and Containment in a COVID-19 ICU. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	2
86	Prospective analysis of SARS-CoV-2 dissemination to environmental surfaces during endoscopic procedures. <i>Endoscopy International Open</i> , <b>2021</b> , 9, E701-E705	3	3
85	Acuity patterns of heart failure among emergency departments in a large health system. <i>American Journal of Emergency Medicine</i> , <b>2021</b> , 43, 21-26	2.9	
84	Pharmacological Approach for Neuroprotection After Cardiac Arrest-A Narrative Review of Current Therapies and Future Neuroprotective Cocktail. <i>Frontiers in Medicine</i> , <b>2021</b> , 8, 636651	4.9	4
83	Mitochondrial transplantation therapy for ischemia reperfusion injury: a systematic review of animal and human studies. <i>Journal of Translational Medicine</i> , <b>2021</b> , 19, 214	8.5	7
82	A method for measuring the molecular ratio of inhalation to exhalation and effect of inspired oxygen levels on oxygen consumption. <i>Scientific Reports</i> , <b>2021</b> , 11, 12815	4.9	0
81	Increased Emergency Department Hallway Length of Stay is Associated with Development of Delirium. <i>Western Journal of Emergency Medicine</i> , <b>2021</b> , 22, 726-735	3.3	1
80	Performance of Emergency Heart Failure Mortality Risk Grade in the Emergency Department. <i>Western Journal of Emergency Medicine</i> , <b>2021</b> , 22, 672-677	3.3	2
79	Patient Preference and Risk Assessment in Opioid Prescribing Disparities: A Secondary Analysis of a Randomized Clinical Trial. <i>JAMA Network Open</i> , <b>2021</b> , 4, e2118801	10.4	2

78	The standardized method and clinical experience may improve the reliability of visually assessed capillary refill time. <i>American Journal of Emergency Medicine</i> , <b>2021</b> , 44, 284-290	2.9	5
77	An early experience on the effect of solid organ transplant status on hospitalized COVID-19 patients. <i>American Journal of Transplantation</i> , <b>2021</b> , 21, 2522-2531	8.7	18
76	Evaluation of accuracy of capillary refill index with pneumatic fingertip compression. <i>Journal of Clinical Monitoring and Computing</i> , <b>2021</b> , 35, 135-145	2	8
75	Evaluation of the Quality of Chest Compression with Oxyhemoglobin Level by Near-Infrared Spectroscopy in a Rat Asphyxia Cardiac Arrest Model. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1269, 265-269	3.6	2
74	Assessment of Cerebral Blood Oxygenation by Near-Infrared Spectroscopy before and after Resuscitation in a Rat Asphyxia Cardiac Arrest Model. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1269, 311-315	3.6	0
73	Effect of Adrenaline on Cerebral Blood Oxygenation Measured byNIRS in a Rat Asphyxia Cardiac Arrest Model. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1269, 277-281	3.6	
72	The evaluation of pituitary damage associated with cardiac arrest: An experimental rodent model. <i>Scientific Reports</i> , <b>2021</b> , 11, 629	4.9	2
71	Brain monitoring using near-infrared spectroscopy to predict outcome after cardiac arrest: a novel phenotype in a rat model of cardiac arrest. <i>Journal of Intensive Care</i> , <b>2021</b> , 9, 4	7	0
70	Extracorporeal Cardiopulmonary Resuscitation in Adults. Interim Guideline Consensus Statement From the Extracorporeal Life Support Organization. <i>ASAIO Journal</i> , <b>2021</b> , 67, 221-228	3.6	38
69	The interplay between bystander cardiopulmonary resuscitation and ambient temperature on neurological outcome after cardiac arrest: A nationwide observational cohort study. <i>Resuscitation</i> , <b>2021</b> , 164, 46-53	4	0
68	Understanding physiologic phospholipid maintenance in the context of brain mitochondrial phospholipid alterations after cardiac arrest. <i>Mitochondrion</i> , <b>2021</b> , 60, 112-120	4.9	1
67	Cardiopulmonary resuscitation in special circumstances. <i>Lancet, The</i> , <b>2021</b> , 398, 1257-1268	40	1
66	Effect of Adrenaline on Cerebral Blood Oxygenation Measured byNIRS in a Rat Asphyxia Cardiac Arrest Model. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1269, 39-43	3.6	1
65	Bilateral Spontaneous Pneumothorax in a COVID-19 and HIV-Positive Patient: A Case Report.. <i>Frontiers in Medicine</i> , <b>2021</b> , 8, 698268	4.9	0
64	Time to intra-arrest therapeutic hypothermia in out-of-hospital cardiac arrest patients and its association with neurologic outcome: a propensity matched sub-analysis of the PRINCESS trial. <i>Intensive Care Medicine</i> , <b>2020</b> , 46, 1361-1370	14.5	8
63	Mechanical, Team-Focused, Video-Reviewed Cardiopulmonary Resuscitation Improves Return of Spontaneous Circulation After Emergency Department Implementation. <i>Journal of the American Heart Association</i> , <b>2020</b> , 9, e014420	6	5
62	Potential impacts of a novel integrated extracorporeal-CPR workflow using an interventional radiology and immediate whole-body computed tomography system in the emergency department. <i>BMC Cardiovascular Disorders</i> , <b>2020</b> , 20, 23	2.3	2
61	Identification of tetranectin-targeting monoclonal antibodies to treat potentially lethal sepsis. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	12

60	Towards Personalized Closed-Loop Mechanical CPR: A Model Relating Carotid Blood Flow to Chest Compression Rate and Duration. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 1253-1262	5	0
59	Agreement between actual and synthesized right-sided and posterior electrocardiographic leads in identifying ischemia. <i>American Journal of Emergency Medicine</i> , <b>2020</b> , 38, 1346-1351	2.9	0
58	A walk through the progression of resuscitation medicine. <i>Annals of the New York Academy of Sciences</i> , <b>2020</b> ,	6.5	4
57	Plasma metabolomics supports the use of long-duration cardiac arrest rodent model to study human disease by demonstrating similar metabolic alterations. <i>Scientific Reports</i> , <b>2020</b> , 10, 19707	4.9	7
56	Near-Infrared Spectroscopy Assessments of Regional Cerebral Oxygen Saturation for the Prediction of Clinical Outcomes in Patients With Cardiac Arrest: A Review of Clinical Impact, Evolution, and Future Directions. <i>Frontiers in Medicine</i> , <b>2020</b> , 7, 587930	4.9	8
55	Let Sleeping Patients Lie, avoiding unnecessary overnight vitals monitoring using a clinically based deep-learning model. <i>Npj Digital Medicine</i> , <b>2020</b> , 3, 149	15.7	3
54	Supervised Machine Learning Applied to Automate Flash and Prolonged Capillary Refill Detection by Pulse Oximetry. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 564589	4.6	0
53	Advances in the Approaches Using Peripheral Perfusion for Monitoring Hemodynamic Status. <i>Frontiers in Medicine</i> , <b>2020</b> , 7, 614326	4.9	3
52	Traumatic and hemorrhagic complications after extracorporeal cardiopulmonary resuscitation for out-of-hospital cardiac arrest. <i>Resuscitation</i> , <b>2020</b> , 157, 225-229	4	4
51	Quantitative estimation of nerve fiber engagement by vagus nerve stimulation using physiological markers. <i>Brain Stimulation</i> , <b>2020</b> , 13, 1617-1630	5.1	16
50	Effect of Ascorbic Acid, Corticosteroids, and Thiamine on Organ Injury in Septic Shock: The ACTS Randomized Clinical Trial. <i>JAMA - Journal of the American Medical Association</i> , <b>2020</b> , 324, 642-650	27.4	83
49	Vagus Nerve Stimulation and the Cardiovascular System. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2020</b> , 10,	5.4	11
48	Presenting Characteristics, Comorbidities, and Outcomes Among 5700 Patients Hospitalized With COVID-19 in the New York City Area. <i>JAMA - Journal of the American Medical Association</i> , <b>2020</b> , 323, 2052-2059	27.4	5108
47	Inhaled Gases as Therapies for Post-Cardiac Arrest Syndrome: A Narrative Review of Recent Developments. <i>Frontiers in Medicine</i> , <b>2020</b> , 7, 586229	4.9	0
46	Tissue-Specific Metabolic Profiles After Prolonged Cardiac Arrest Reveal Brain Metabolome Dysfunction Predominantly After Resuscitation. <i>Journal of the American Heart Association</i> , <b>2019</b> , 8, e012809	6	18
45	Enhanced Macrophage Pannexin 1 Expression and Hemichannel Activation Exacerbates Lethal Experimental Sepsis. <i>Scientific Reports</i> , <b>2019</b> , 9, 160	4.9	20
44	A pilot study of respiratory rate derived from a wearable biosensor compared with capnography in emergency department patients. <i>Open Access Emergency Medicine</i> , <b>2019</b> , 11, 103-108	1.9	8
43	Does training level affect the accuracy of visual assessment of capillary refill time?. <i>Critical Care</i> , <b>2019</b> , 23, 157	10.8	9

42	Challenges and Inconsistencies in Using Lyso-phosphatidic Acid as a Biomarker for Ovarian Cancer. <i>Cancers</i> , <b>2019</b> , 11,	6.6	12
41	Low temperature increases capillary blood refill time following mechanical fingertip compression of healthy volunteers: prospective cohort study. <i>Journal of Clinical Monitoring and Computing</i> , <b>2019</b> , 33, 259-267	2	11
40	Combination of cardiac and thoracic pump theories in rodent cardiopulmonary resuscitation: a new method of three-side chest compression. <i>Intensive Care Medicine Experimental</i> , <b>2019</b> , 7, 62	3.7	6
39	Recent advances in personalizing cardiac arrest resuscitation. <i>F1000Research</i> , <b>2019</b> , 8,	3.6	5
38	Relative Ratios Enhance the Diagnostic Power of Phospholipids in Distinguishing Benign and Cancerous Ovarian Masses. <i>Cancers</i> , <b>2019</b> , 12,	6.6	4
37	Comparison of point-of-care peripheral perfusion assessment using pulse oximetry sensor with manual capillary refill time: clinical pilot study in the emergency department. <i>Journal of Intensive Care</i> , <b>2019</b> , 7, 52	7	8
36	Increased access to urgent care centers decreases low acuity diagnoses in a nearby hospital emergency department. <i>American Journal of Emergency Medicine</i> , <b>2019</b> , 37, 486-488	2.9	10
35	Increased Survival Time With SS-31 After Prolonged Cardiac Arrest in Rats. <i>Heart Lung and Circulation</i> , <b>2019</b> , 28, 505-508	1.8	9
34	Blood refill time: Clinical bedside monitoring of peripheral blood perfusion using pulse oximetry sensor and mechanical compression. <i>American Journal of Emergency Medicine</i> , <b>2018</b> , 36, 2310-2312	2.9	7
33	Comprehensive analysis of phospholipids in the brain, heart, kidney, and liver: brain phospholipids are least enriched with polyunsaturated fatty acids. <i>Molecular and Cellular Biochemistry</i> , <b>2018</b> , 442, 187-201	4.2	53
32	Comparing phospholipid profiles of mitochondria and whole tissue: Higher PUFA content in mitochondria is driven by increased phosphatidylcholine unsaturation. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2018</b> , 1093-1094, 147-157	3.2	5
31	Effect of compression waveform and resuscitation duration on blood flow and pressure in swine: One waveform does not optimally serve. <i>Resuscitation</i> , <b>2018</b> , 131, 55-62	4	6
30	Ascorbic acid, corticosteroids, and thiamine in sepsis: a review of the biologic rationale and the present state of clinical evaluation. <i>Critical Care</i> , <b>2018</b> , 22, 283	10.8	68
29	The role of decreased cardiolipin and impaired electron transport chain in brain damage due to cardiac arrest. <i>Neurochemistry International</i> , <b>2018</b> , 120, 200-205	4.4	11
28	Dissociated Oxygen Consumption and Carbon Dioxide Production in the Post-Cardiac Arrest Rat: A Novel Metabolic Phenotype. <i>Journal of the American Heart Association</i> , <b>2018</b> , 7,	6	13
27	Potential of lysophosphatidylinositol as a prognostic indicator of cardiac arrest using a rat model. <i>Biomarkers</i> , <b>2017</b> , 22, 755-763	2.6	7
26	Adult out-of-hospital cardiac arrest in philadelphia from 2008-2012: An epidemiological study. <i>Resuscitation</i> , <b>2017</b> , 115, 17-22	4	3
25	Association of Public Health Initiatives With Outcomes for Out-of-Hospital Cardiac Arrest at Home and in Public Locations. <i>JAMA Cardiology</i> , <b>2017</b> , 2, 1226-1235	16.2	46

24	Cyclosporine for Reperfusion Injury After Cardiac Arrest: Too Little Too Late?. <i>JAMA Cardiology</i> , <b>2016</b> , 1, 566-7	16.2	1
23	Video-Only Cardiopulmonary Resuscitation Education for High-Risk Families Before Hospital Discharge: A Multicenter Pragmatic Trial. <i>Circulation: Cardiovascular Quality and Outcomes</i> , <b>2016</b> , 9, 740-748	5.8	26
22	The effects of early high-volume hemofiltration on prolonged cardiac arrest in rats with reperfusion by cardiopulmonary bypass: a randomized controlled animal study. <i>Intensive Care Medicine Experimental</i> , <b>2016</b> , 4, 25	3.7	6
21	The Responses of Tissues from the Brain, Heart, Kidney, and Liver to Resuscitation following Prolonged Cardiac Arrest by Examining Mitochondrial Respiration in Rats. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2016</b> , 2016, 7463407	6.7	24
20	DHA-supplemented diet increases the survival of rats following asphyxia-induced cardiac arrest and cardiopulmonary bypass resuscitation. <i>Scientific Reports</i> , <b>2016</b> , 6, 36545	4.9	6
19	Strategies to Improve Survival From Cardiac Arrest: A Report From the Institute of Medicine. <i>JAMA - Journal of the American Medical Association</i> , <b>2015</b> , 314, 223-4	27.4	38
18	Developing dual hemofiltration plus cardiopulmonary bypass in rodents. <i>Journal of Surgical Research</i> , <b>2015</b> , 195, 196-203	2.5	2
17	Public knowledge of automatic external defibrillators in a large U.S. urban community. <i>Resuscitation</i> , <b>2015</b> , 92, 101-6	4	23
16	Phospholipid alterations in the brain and heart in a rat model of asphyxia-induced cardiac arrest and cardiopulmonary bypass resuscitation. <i>Molecular and Cellular Biochemistry</i> , <b>2015</b> , 408, 273-81	4.2	25
15	Volume infusion cooling increases end-tidal carbon dioxide and results in faster and deeper cooling during intra-cardiopulmonary resuscitation hypothermia induction. <i>Intensive Care Medicine Experimental</i> , <b>2015</b> , 3, 37	3.7	2
14	Cardiac arrest: resuscitation and reperfusion. <i>Circulation Research</i> , <b>2015</b> , 116, 2041-9	15.7	76
13	Developing a kinematic understanding of chest compressions: the impact of depth and release time on blood flow during cardiopulmonary resuscitation. <i>BioMedical Engineering OnLine</i> , <b>2015</b> , 14, 102	4.1	9
12	Impact of the 2010 resuscitation guidelines training on layperson chest compressions. <i>World Journal of Emergency Medicine</i> , <b>2015</b> , 6, 270-6	1.9	6
11	Improved outcome of extracorporeal cardiopulmonary resuscitation for out-of-hospital cardiac arrest--a comparison with that for extracorporeal rescue for in-hospital cardiac arrest. <i>Resuscitation</i> , <b>2014</b> , 85, 1219-24	4	143
10	Extracorporeal life support as rescue strategy for out-of-hospital and emergency department cardiac arrest. <i>Resuscitation</i> , <b>2014</b> , 85, 1527-32	4	96
9	Examination of physiological function and biochemical disorders in a rat model of prolonged asphyxia-induced cardiac arrest followed by cardio pulmonary bypass resuscitation. <i>PLoS ONE</i> , <b>2014</b> , 9, e112012	3.7	15
8	Defibrillation in the movies: a missed opportunity for public health education. <i>Resuscitation</i> , <b>2014</b> , 85, 1795-8	4	4
7	Using a mobile app and mobile workforce to validate data about emergency public health resources. <i>Emergency Medicine Journal</i> , <b>2014</b> , 31, 545-548	1.5	3

6	Incidence of treated cardiac arrest in hospitalized patients in the United States. <i>Critical Care Medicine</i> , <b>2011</b> , 39, 2401-6	1.4	321
5	Effects of compression depth and pre-shock pauses predict defibrillation failure during cardiac arrest. <i>Resuscitation</i> , <b>2006</b> , 71, 137-45	4	509
4	Chest compression rates during cardiopulmonary resuscitation are suboptimal: a prospective study during in-hospital cardiac arrest. <i>Circulation</i> , <b>2005</b> , 111, 428-34	16.7	547
3	Intra-arrest cooling improves outcomes in a murine cardiac arrest model. <i>Circulation</i> , <b>2004</b> , 109, 2786-91	16.7	299
2	Resuscitation after cardiac arrest: a 3-phase time-sensitive model. <i>JAMA - Journal of the American Medical Association</i> , <b>2002</b> , 288, 3035-8	27.4	411
1	COVID-19-Associated Portal Vein Thrombosis Post-Cholecystitis. <i>International Journal of Angiology</i> ,	1.1	