

# Robert W Neumar

## List of Publications by Citations

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58  
papers

15,028  
citations

25  
h-index

72  
g-index

72  
ext. papers

17,345  
ext. citations

7  
avg, IF

5.58  
L-index

#	Paper	IF	Citations
58	Heart Disease and Stroke Statistics-2017 Update: A Report From the American Heart Association. <i>Circulation</i> , <b>2017</b> , 135, e146-e603	16.7	5568
57	Heart Disease and Stroke Statistics-2016 Update: A Report From the American Heart Association. <i>Circulation</i> , <b>2016</b> , 133, e38-360	16.7	4504
56	Part 8: adult advanced cardiovascular life support: 2010 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. <i>Circulation</i> , <b>2010</b> , 122, S729-67	16.7	1025
55	Part 7: Adult Advanced Cardiovascular Life Support: 2015 American Heart Association Guidelines Update for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. <i>Circulation</i> , <b>2015</b> , 132, S444-64	16.7	827
54	Part 1: Executive Summary: 2015 American Heart Association Guidelines Update for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. <i>Circulation</i> , <b>2015</b> , 132, S315-67	16.7	510
53	Cardiac arrest and cardiopulmonary resuscitation outcome reports: update of the Utstein Resuscitation Registry Templates for Out-of-Hospital Cardiac Arrest: a statement for healthcare professionals from a task force of the International Liaison Committee on Resuscitation (American Heart Association, European Resuscitation Council, Australian and New Zealand Council on	16.7	472
52	Regional systems of care for out-of-hospital cardiac arrest: A policy statement from the American Heart Association. <i>Circulation</i> , <b>2010</b> , 121, 709-29. <i>Circulation</i> , <b>2015</b> , 132, 1286-300	16.7	248
51	Part 4: Advanced Life Support: 2015 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations. <i>Circulation</i> , <b>2015</b> , 132, S84-145	16.7	222
50	Outcome model of asphyxial cardiac arrest in rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1995</b> , 15, 1032-9	7.3	211
49	Cross-talk between calpain and caspase proteolytic systems during neuronal apoptosis. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 14162-7	5.4	204
48	Inter-hospital variability in post-cardiac arrest mortality. <i>Resuscitation</i> , <b>2009</b> , 80, 30-4	4	202
47	Molecular mechanisms of ischemic neuronal injury. <i>Annals of Emergency Medicine</i> , <b>2000</b> , 36, 483-506	2.1	142
46	Impact of therapeutic hypothermia onset and duration on survival, neurologic function, and neurodegeneration after cardiac arrest. <i>Critical Care Medicine</i> , <b>2011</b> , 39, 1423-30	1.4	115
45	Epinephrine and sodium bicarbonate during CPR following asphyxial cardiac arrest in rats. <i>Resuscitation</i> , <b>1995</b> , 29, 249-63	4	101
44	Descriptive analysis of extracorporeal cardiopulmonary resuscitation following out-of-hospital cardiac arrest-An ELSO registry study. <i>Resuscitation</i> , <b>2017</b> , 119, 56-62	4	55
43	NIH Roundtable on Opportunities to Advance Research on Neurologic and Psychiatric Emergencies. <i>Annals of Emergency Medicine</i> , <b>2010</b> , 56, 551-64	2.1	51
42	Implementation strategies for improving survival after out-of-hospital cardiac arrest in the United States: consensus recommendations from the 2009 American Heart Association Cardiac Arrest Survival Summit. <i>Circulation</i> , <b>2011</b> , 123, 2898-910	16.7	48

41	Vasopressors during adult cardiac arrest: A systematic review and meta-analysis. <i>Resuscitation</i> , <b>2019</b> , 139, 106-121	4	43
40	Association of an Emergency Department-Based Intensive Care Unit With Survival and Inpatient Intensive Care Unit Admissions. <i>JAMA Network Open</i> , <b>2019</b> , 2, e197584	10.4	40
39	Optimal oxygenation during and after cardiopulmonary resuscitation. <i>Current Opinion in Critical Care</i> , <b>2011</b> , 17, 236-40	3.5	39
38	Intravenous vs. intraosseous administration of drugs during cardiac arrest: A systematic review. <i>Resuscitation</i> , <b>2020</b> , 149, 150-157	4	31
37	NIH Roundtable on Emergency Trauma Research. <i>Annals of Emergency Medicine</i> , <b>2010</b> , 56, 538-50	2.1	31
36	Identifying Important Gaps in Randomized Controlled Trials of Adult Cardiac Arrest Treatments: A Systematic Review of the Published Literature. <i>Circulation: Cardiovascular Quality and Outcomes</i> , <b>2016</b> , 9, 749-756	5.8	29
35	Calpain-cleaved type 1 inositol 1,4,5-trisphosphate receptor (InsP(3)R1) has InsP(3)-independent gating and disrupts intracellular Ca(2+) homeostasis. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 35998-36010	5.4	28
34	Disability-Adjusted Life Years Following Adult Out-of-Hospital Cardiac Arrest in the United States. <i>Circulation: Cardiovascular Quality and Outcomes</i> , <b>2019</b> , 12, e004677	5.8	27
33	Bundled postconditioning therapies improve hemodynamics and neurologic recovery after 17 min of untreated cardiac arrest. <i>Resuscitation</i> , <b>2015</b> , 87, 7-13	4	25
32	Early Effects of Prolonged Cardiac Arrest and Ischemic Postconditioning during Cardiopulmonary Resuscitation on Cardiac and Brain Mitochondrial Function in Pigs. <i>Resuscitation</i> , <b>2017</b> , 116, 8-15	4	20
31	Simulation training enables emergency medicine providers to rapidly and safely initiate extracorporeal cardiopulmonary resuscitation (ECPR) in a simulated cardiac arrest scenario. <i>Resuscitation</i> , <b>2019</b> , 138, 68-73	4	20
30	Is initial rhythm in OHCA a predictor of preceding no flow time? Implications for bystander response and ECPR candidacy evaluation. <i>Resuscitation</i> , <b>2018</b> , 128, 88-92	4	19
29	Anaesthetic Postconditioning at the Initiation of CPR Improves Myocardial and Mitochondrial Function in a Pig Model of Prolonged Untreated Ventricular Fibrillation. <i>Resuscitation</i> , <b>2014</b> , 85, 1745-51	4	17
28	National Institutes of Health-Funded Cardiac Arrest Research: A 10-Year Trend Analysis. <i>Journal of the American Heart Association</i> , <b>2017</b> , 6,	6	16
27	Valproic Acid Combined With Postcardiac Arrest Hypothermic-Targeted Temperature Management Prevents Delayed Seizures and Improves Survival in a Rat Cardiac Arrest Model. <i>Critical Care Medicine</i> , <b>2017</b> , 45, e1149-e1156	1.4	14
26	Use of resuscitative balloon occlusion of the aorta in a swine model of prolonged cardiac arrest. <i>Resuscitation</i> , <b>2019</b> , 140, 106-112	4	13
25	Doubling Cardiac Arrest Survival by 2020: Achieving the American Heart Association Impact Goal. <i>Circulation</i> , <b>2016</b> , 134, 2037-2039	16.7	12
24	Status report: Development of emergency medicine research since the Macy Report. <i>Annals of Emergency Medicine</i> , <b>2003</b> , 42, 66-80	2.1	11

23	Aerosol generation during chest compression and defibrillation in a swine cardiac arrest model. <i>Resuscitation</i> , <b>2021</b> , 159, 28-34	4	10
22	Extracorporeal Cardiopulmonary Resuscitation for Refractory Out-of-Hospital Cardiac Arrest (EROCA): Results of a Randomized Feasibility Trial of Expedited Out-of-Hospital Transport. <i>Annals of Emergency Medicine</i> , <b>2021</b> , 78, 92-101	2.1	10
21	Combined intra- and post-cardiac arrest hypothermic-targeted temperature management in a rat model of asphyxial cardiac arrest improves survival and neurologic outcome compared to either strategy alone. <i>Resuscitation</i> , <b>2016</b> , 107, 94-101	4	9
20	Brain injury after cardiac arrest. <i>Lancet, The</i> , <b>2021</b> , 398, 1269-1278	40	9
19	Mitochondrial fission and mitophagy are independent mechanisms regulating ischemia/reperfusion injury in primary neurons. <i>Cell Death and Disease</i> , <b>2021</b> , 12, 475	9.8	6
18	Machine learning model for predicting out-of-hospital cardiac arrests using meteorological and chronological data. <i>Heart</i> , <b>2021</b> ,	5.1	4
17	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
16	Machine learning-based classification of mitochondrial morphology in primary neurons and brain. <i>Scientific Reports</i> , <b>2021</b> , 11, 5133	4.9	3
15	Future Vision for ILCOR and Its Role in the Global Resuscitation Community. <i>Circulation</i> , <b>2018</b> , 138, 1085-1087	10.87	3
14	Global brain ischemia and reperfusion	236-281	2
13	The importance of developing global emergency medicine research network. <i>American Journal of Emergency Medicine</i> , <b>2019</b> , 37, 744-745	2.9	2
12	The Association of Fire or Police First Responder Initiated Interventions with Out of Hospital Cardiac Arrest Survival.. <i>Resuscitation</i> , <b>2022</b> ,	4	2
11	Dose optimization of early high-dose valproic acid for neuroprotection in a swine cardiac arrest model. <i>Resuscitation Plus</i> , <b>2020</b> , 1-2, 100007	1.4	1
10	Enhancing Prehospital Outcomes for Cardiac Arrest (EPOC) study: sequential mixed-methods study protocol in Michigan, USA. <i>BMJ Open</i> , <b>2020</b> , 10, e041277	3	1
9	The Process of Team Building Among Content Experts and Methodologists: An Example From an Emergency Medical Services Research Investigation Kick-Off Meeting. <i>International Journal of Qualitative Methods, The</i> , <b>2020</b> , 19, 160940692095511	3.3	1
8	Variation in pre-hospital outcomes after out-of-hospital cardiac arrest in Michigan. <i>Resuscitation</i> , <b>2021</b> , 158, 201-207	4	1
7	Rapid Treatment with Intramuscular Magnesium Sulfate During Cardiopulmonary Resuscitation Does Not Provide Neuroprotection Following Cardiac Arrest.. <i>Molecular Neurobiology</i> , <b>2022</b> , 59, 1872	6.2	0
6	The Design of an Adaptive Clinical Trial to Evaluate the Efficacy of Extra-Corporeal Membrane Oxygenation for Out-of-Hospital Cardiac Arrest. <i>Resuscitation</i> , <b>2021</b> , 158, 185-192	4	0

- 5 Prehospital Tibial Intraosseous Drug Administration is Associated with Reduced Survival Following Out of Hospital Cardiac Arrest: A study for the CARES Surveillance Group. *Resuscitation*, **2021**, 167, 261-266 4 ○
- 4 Extracorporeal cardiopulmonary resuscitation for out-of-hospital cardiac arrest - who, when, and where?. *Current Opinion in Critical Care*, **2022**, 28, 276-283 3-5 ○
- 3 Future Directions: Management of Sudden Cardiac Death. *Cardiac Electrophysiology Clinics*, **2017**, 9, 785-790 4
- 2 Bringing it all together: brain-oriented postresuscitation critical care 902-918
- 1 Post-cardiac Arrest Management **2020**, 9-20