Ral J Gazmuri

List of Publications by Year in Descending Order

131 papers	4,964 citations	39 h-index	68 g-index
162 ext. papers	5,613 ext. citations	5.1 avg, IF	4.98 L-index

#	Paper	IF	Citations
131	Targeted Delivery of Electrical Shocks and Epinephrine, Guided by Ventricular Fibrillation Amplitude Spectral Area, Reduces Electrical and Adrenergic Myocardial Burden, Improving Survival in Swine. *Journal of the American Heart Association*, **2021**, 10, e023956	6	0
130	Enhanced Oxygen Utilization Efficiency With Concomitant Activation of AMPK-TBC1D1 Signaling Nexus in Cyclophilin-D Conditional Knockout Mice.. *Frontiers in Physiology*, **2021**, 12, 756659	4.6	
129	Septic shock patients with adequate tissue perfusion parameters still need the recommended minimal Mean Arterial Pressure: Not really. *Journal of Critical Care*, **2020**, 56, 308-310	4	
128	Constitutive cyclophilin-D ablation in mice increases exercise and cognitive-behavioral performance under normoxic and hypoxic conditions. *Physiology and Behavior*, **2020**, 219, 112828	3.5	
127	From a pressure-guided to a perfusion-centered resuscitation strategy in septic shock: Critical literature review and illustrative case. *Journal of Critical Care*, **2020**, 56, 294-304	4	7
126	Development of a work of breathing scale and monitoring need of intubation in COVID-19 pneumonia. *Critical Care*, **2020**, 24, 477	10.8	19
125	Chest compression components (rate, depth, chest wall recoil and leaning): A scoping review. *Resuscitation*, **2020**, 146, 188-202	4	26
124	Improved exercise capacity in cyclophilin-D knockout mice associated with enhanced oxygen utilization efficiency and augmented glucose uptake AMPK-TBC1D1 signaling nexus. *FASEB Journal*, **2019**, 33, 11443-11457	0.9	4
123	Epinephrine in Out-of-Hospital Cardiac Arrest. *New England Journal of Medicine*, **2019**, 380, 397-8	59.2	1
122	Sodium-Hydrogen Exchanger Isoform-1 Inhibition: A Promising Pharmacological Intervention for Resuscitation from Cardiac Arrest. *Molecules*, **2019**, 24,	4.8	10
121	A systematic review and meta-analysis of the effect of dispatcher-assisted CPR on outcomes from sudden cardiac arrest in adults and children. *Resuscitation*, **2019**, 138, 82-105	4	38
120	2019 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations. *Resuscitation*, **2019**, 145, 95-150	4	62
119	Cardiac Arrest and Cardiopulmonary Resuscitation Outcome Reports: Update of the Utstein Resuscitation Registry Template for In-Hospital Cardiac Arrest: A Consensus Report From a Task Force of the International Liaison Committee on Resuscitation (American Heart Association,	4	30
118	Abstract 257: Ventricular Fibrillation Amplitude Spectral Area to Assess the Myocardial Effect of Hemodynamic and Metabolic Interventions During Cardiac Resuscitation in a Rat Model. *Circulation*, **2019**, 140,	16.7	1
117	2019 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations: Summary From the Basic Life Support; Advanced Life Support; Pediatric Life Support; Neonatal Life Support; Education, Implementation, and Teams;	16.7	82
116	Severe Sepsis and Septic Shock Early Management Bundle Risks Aiding Vasopressor Misuse. *Critical Care Medicine*, **2019**, 47, e717	1.4	1
115	Letter by Gazmuri and Karmazyn Regarding Article, "Activation and Inhibition of Sodium-Hydrogen Exchanger Is a Mechanism That Links the Pathophysiology and Treatment of Diabetes Mellitus With That of Heart Failure". *Circulation*, **2018**, 137, 1979-1980	16.7	1

114	2017 American Heart Association Focused Update on Adult Basic Life Support and Cardiopulmonary Resuscitation Quality: An Update to the American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. *Circulation*, **2018**, 137, e7-e13	16.7	69
113	Characterization of mitochondrial injury after cardiac arrest (COMICA). *Resuscitation*, **2017**, 113, 56-62	4	19
112	REANIMACIÓN CARDIOPULMONAR INTRA-HOSPITALARIA DEL PACIENTE ADULTO. *Revista Médica Clínica Las Condes*, **2017**, 28, 228-238	0.2	0
111	Circulatory collapse, right ventricular dilatation, and alveolar dead space: A triad for the rapid diagnosis of massive pulmonary embolism. *American Journal of Emergency Medicine*, **2017**, 35, 936.e1-936.e4	2.9	3
110	Real-Time Ventricular Fibrillation Amplitude-Spectral Area Analysis to Guide Timing of Shock Delivery Improves Defibrillation Efficacy During Cardiopulmonary Resuscitation in Swine. *Journal of the American Heart Association*, **2017**, 6,	6	9
109	2017 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations Summary. *Circulation*, **2017**, 136, e424-e440	16.7	60
108	2017 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations Summary. *Resuscitation*, **2017**, 121, 201-214	4	70
107	Early and sustained vasopressin infusion augments the hemodynamic efficacy of restrictive fluid resuscitation and improves survival in a liver laceration model of hemorrhagic shock. *Journal of Trauma and Acute Care Surgery*, **2017**, 82, 317-327	3.3	5
106	Plasma Cytochrome c Detection Using a Highly Sensitive Electrochemiluminescence Enzyme-Linked Immunosorbent Assay. *Biomarker Insights*, **2017**, 12, 1177271917746972	3.5	6
105	opening of the mitochondrial permeability transition pore in a rat model of ventricular fibrillation and closed-chest resuscitation. *American Journal of Translational Research (discontinued)*, **2017**, 9, 3345-3359	3	2
104	Adherence to Evidence-Base Endotracheal Intubation Practice Patterns by Intensivists and Emergency Department Physicians. *Journal of Acute Medicine*, **2017**, 7, 47-53	0.4	
103	Ventricular Fibrillation Waveform Changes during Controlled Coronary Perfusion Using Extracorporeal Circulation in a Swine Model. *PLoS ONE*, **2016**, 11, e0161166	3.7	7
102	Cytochrome C in Patients with Septic Shock. *Shock*, **2016**, 45, 512-7	3.4	3
101	Adverse postresuscitation myocardial effects elicited by buffer-induced alkalemia ameliorated by NHE-1 inhibition in a rat model of ventricular fibrillation. *Journal of Applied Physiology*, **2016**, 121, 1160-1168	3.7	4
100	Cyclophilin-D: a resident regulator of mitochondrial gene expression. *FASEB Journal*, **2015**, 29, 2734-48	0.9	17
99	A Rat Model of Ventricular Fibrillation and Resuscitation by Conventional Closed-chest Technique. *Journal of Visualized Experiments*, **2015**,	1.6	4
98	Part 5: Adult Basic Life Support and Cardiopulmonary Resuscitation Quality: 2015 American Heart Association Guidelines Update for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. *Circulation*, **2015**, 132, S414-35	16.7	601
97	Part 3: Adult Basic Life Support and Automated External Defibrillation: 2015 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations. *Circulation*, **2015**, 132, S51-83	16.7	149

96	Ubiquinol (reduced Coenzyme Q10) in patients with severe sepsis or septic shock: a randomized, double-blind, placebo-controlled, pilot trial. *Critical Care*, **2015**, 19, 275	10.8	22
95	Part 3: Adult basic life support and automated external defibrillation: 2015 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science with Treatment Recommendations. *Resuscitation*, **2015**, 95, e43-69	4	157
94	Vasopressin Infusion with Small-Volume Fluid Resuscitation during Hemorrhagic Shock Promotes Hemodynamic Stability and Survival in Swine. *PLoS ONE*, **2015**, 10, e0130134	3.7	6
93	Estrogen fails to facilitate resuscitation from ventricular fibrillation in male rats. *American Journal of Translational Research (discontinued)*, **2015**, 7, 522-34	3	5
92	Vitamin C compromises cardiac resuscitability in a rat model of ventricular fibrillation. *American Journal of Therapeutics*, **2014**, 21, 352-7	1	11
91	Effects of intraosseous erythropoietin during hemorrhagic shock in swine. *PLoS ONE*, **2014**, 9, e110908	3.7	4
90	Targeting Mitochondria During CPR **2014**, 129-142		
89	LUCAS 2 device, compression depth, and the 2010 cardiopulmonary resuscitation guidelines. *American Journal of Emergency Medicine*, **2013**, 31, 1154.e1-2	2.9	6
88	High-dose erythropoietin during cardiac resuscitation lessens postresuscitation myocardial stunning in swine. *Translational Research*, **2013**, 162, 110-21	11	17
87	Erythropoietin facilitates resuscitation from ventricular fibrillation by signaling protection of mitochondrial bioenergetic function in rats. *American Journal of Translational Research (discontinued)*, **2013**, 5, 316-26	3	14
86	Protecting mitochondrial bioenergetic function during resuscitation from cardiac arrest. *Critical Care Clinics*, **2012**, 28, 245-70	4.5	29
85	Clinically plausible hyperventilation does not exert adverse hemodynamic effects during CPR but markedly reduces end-tidal PCO *Resuscitation*, **2012**, 83, 259-64	4	47
84	AVE4454B--a novel sodium-hydrogen exchanger isoform-1 inhibitor--compared less effective than cariporide for resuscitation from cardiac arrest. *Translational Research*, **2011**, 157, 71-80	11	14
83	Part 7: CPR techniques and devices: 2010 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. *Circulation*, **2010**, 122, S720-8	16.7	162
82	Part 5: Adult basic life support: 2010 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations. *Circulation*, **2010**, 122, S298-324	16.7	137
81	Cariporide given during resuscitation promotes return of electrically stable and mechanically competent cardiac activity. *Resuscitation*, **2010**, 81, 106-10	4	27
80	Reply to Letter to the Editor by Faybik, Peter MD, Lahner, Daniel MD, and Schramm, Wolfgang MD entitled An outlasting error of Ernest Henry Starling for at least 83 years in the medical literature *Resuscitation*, **2010**, 81, 1584-1585	4	5
79	Activation of caspase-3 may not contribute to postresuscitation myocardial dysfunction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 296, H1164-74	5.2	11

78	Erythropoietin facilitates the return of spontaneous circulation and survival in victims of out-of-hospital cardiac arrest. *Resuscitation*, **2009**, 80, 631-7	4	39
77	Cardiopulmonary resuscitation: from flying blind to flying right. *Critical Care Medicine*, **2008**, 36, 357-9	1.4	1
76	Targeting mitochondria for resuscitation from cardiac arrest. *Critical Care Medicine*, **2008**, 36, S440-6	1.4	54
75	In-vivo external sensor for mitochondrial injury: Circulating cytochrome c **2008**,		1
74	Scientific knowledge gaps and clinical research priorities for cardiopulmonary resuscitation and emergency cardiovascular care identified during the 2005 International Consensus Conference on ECC [corrected] and CPR science with treatment recommendations: a consensus statement from the International Liaison Committee on Resuscitation (American Heart Association, Australian Resuscitation Council, European Resuscitation Council, Heart and Stroke Foundation of Canada, InterAmerican Heart Foundation, Resuscitat. *Circulation*, **2007**, 116, 2501-12	16.7	39
73	Limiting sarcolemmal Na+ entry during resuscitation from ventricular fibrillation prevents excess mitochondrial Ca2+ accumulation and attenuates myocardial injury. *Journal of Applied Physiology*, **2007**, 103, 55-65	3.7	37
72	Scientific knowledge gaps and clinical research priorities for cardiopulmonary resuscitation and emergency cardiovascular care identified during the 2005 International Consensus Conference on ECC and CPR Science with Treatment Recommendations. A consensus statement from the International Liaison Committee on Resuscitation; the American Heart Association Emergency Cardiovascular Care Committee; the Stroke Council; and the Cardiovascular Nursing Council. *Resuscitation*, **2007**, 75, 400-11	4	38
71	CO2: friend or foe?. *Critical Care Medicine*, **2007**, 35, 1788-9	1.4	
70	Zoniporide preserves left ventricular compliance during ventricular fibrillation and minimizes postresuscitation myocardial dysfunction through benefits on energy metabolism. *Critical Care Medicine*, **2007**, 35, 2329-36	1.4	55
69	Myocardial protection by erythropoietin during resuscitation from ventricular fibrillation. *American Journal of Therapeutics*, **2007**, 14, 361-8	1	24
68	Circulating levels of cytochrome c after resuscitation from cardiac arrest: a marker of mitochondrial injury and predictor of survival. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 292, H767-75	5.2	70
67	The case for sodium-hydrogen exchanger isoform-1 inhibition during cardiac resuscitation remains strong. *Critical Care Medicine*, **2006**, 34, 1580-2; author reply 1582	1.4	7
66	Cariporide minimizes adverse myocardial effects of epinephrine during resuscitation from ventricular fibrillation. *Critical Care Medicine*, **2005**, 33, 2599-605	1.4	47
65	Cariporide Potentiates the Effects of Epinephrine and Vasopressin by Nonvascular Mechanisms During Closed-Chest Resuscitation. *Chest*, **2005**, 127, 1327-1334	5.3	2
64	Cariporide enables hemodynamically more effective chest compression by leftward shift of its flow-depth relationship. *American Journal of Physiology - Heart and Circulatory Physiology*, **2005**, 288, H2904-11	5.2	39
63	Cariporide potentiates the effects of epinephrine and vasopressin by nonvascular mechanisms during closed-chest resuscitation. *Chest*, **2005**, 127, 1327-34	5.3	21
62	POSSIBLE NEUROPROTECTIVE EFFECTS OF ZONIPORIDE DURING RESUSCITATION FROM CARDIAC ARREST. *Critical Care Medicine*, **2004**, 32, A57	1.4	2
61	Sodium-hydrogen exchange inhibition during ventricular fibrillation: Beneficial effects on ischemic contracture, action potential duration, reperfusion arrhythmias, myocardial function, and resuscitability. *Circulation*, **2003**, 107, 1804-9	16.7	80

60	Myocardial protection during resuscitation from cardiac arrest. *Current Opinion in Critical Care*, **2003**, 9, 199-204	3.5	9
59	Optimal timing for electrical defibrillation after prolonged untreated ventricular fibrillation. *Critical Care Medicine*, **2003**, 31, 2022-8	1.4	49
58	Capnography during cardiac resuscitation: a clue on mechanisms and a guide to interventions. *Critical Care*, **2003**, 7, 411-2	10.8	11
57	Myocardial Effects of Sodium-Hydrogen Exchange Inhibition during Resuscitation from Ventricular Fibrillation. *Progress in Experimental Cardiology*, **2003**, 375-388		1
56	NHE-1 Inhibition: A Potential New Treatment for Resuscitation from Cardiac Arrest **2003**, 291-308		1
55	Myocardial protection during ventricular fibrillation by inhibition of the sodium-hydrogen exchanger isoform-1. *Critical Care Medicine*, **2002**, 30, S166-71	1.4	24
54	Blood transfusion and the risk of nosocomial infection: an underreported complication?. *Critical Care Medicine*, **2002**, 30, 2389-91	1.4	16
53	Myocardial protection during ventricular fibrillation by reduction of proton-driven sarcolemmal sodium influx. *Translational Research*, **2001**, 137, 43-55		34
52	Transtracheal oxygenation : an alternative to endotracheal intubation during cardiac arrest. *Chest*, **2001**, 120, 1663-70	5.3	5
51	Successful ventricular defibrillation by the selective sodium-hydrogen exchanger isoform-1 inhibitor cariporide. *Circulation*, **2001**, 104, 234-9	16.7	69
50	Ventricular fibrillation waveform analysis for guiding the time of electrical defibrillation. *Critical Care Medicine*, **2001**, 29, 2395-7	1.4	6
49	A clinical decision aid was accurate for predicting survival to hospital discharge after in-hospital cardiac resuscitation. *ACP Journal Club*, **2001**, 135, 117		
48	Effects of repetitive electrical shocks on postresuscitation myocardial function. *Critical Care Medicine*, **2000**, 28, N228-32	1.4	24
47	Myocardial effects of repeated electrical defibrillations in the isolated fibrillating rat heart. *Critical Care Medicine*, **2000**, 28, 2690-6	1.4	30
46	Pressors for cardiopulmonary resuscitation: is there a new kid on the block?. *Critical Care Medicine*, **2000**, 28, 1236-8	1.4	10
45	Myocardial effects of epinephrine during ventricular fibrillation: does flow matter?. *Critical Care Medicine*, **2000**, 28, 1678-9	1.4	
44	Buffer treatment for cardiac resuscitation: putting the cart before the horse?. *Critical Care Medicine* , **1999**, 27, 875-6	1.4	7
43	Myocardial effects of ventricular fibrillation in the isolated rat heart. *Critical Care Medicine*, **1999**, 27, 1542-50	1.4	42

42	How do you spell basic life support?. *Critical Care Medicine*, **1999**, 27, 2048-50	1.4	2
41	Acidosis during cardiac arrest: a manifestation of inadequate perfusion. *Critical Care Medicine*, **1999**, 27, 2055-6	1.4	3
40	Outcome after cardiopulmonary resuscitation: is age a factor?. *Critical Care Medicine*, **1999**, 27, 2295-6	1.4	5
39	SARCOLEMMAL NA+-CA2+ EXCHANGER INHIBITION AMELIORATES POST-RESUSCITATION DIASTOLIC DYSFUNCTION. *Critical Care Medicine*, **1999**, 27, A35	1.4	2
38	Airway management during cardiopulmonary resuscitation: a shifting paradigm. *Critical Care Medicine*, **1999**, 27, 27-8	1.4	
37	Cardiac resuscitation. The search for hemodynamically more effective methods. *Chest*, **1997**, 111, 712-23	5.3	26
36	Cardiac Arrest in the Elderly. *Chest*, **1997**, 112, 1147-1148	5.3	
35	Myocardial dysfunction after successful resuscitation from cardiac arrest. *Critical Care Medicine*, **1996**, 24, 992-1000	1.4	180
34	Epinephrine increases the severity of postresuscitation myocardial dysfunction. *Circulation*, **1995**, 92, 3089-93	16.7	324
33	Effect of arrest time on the hemodynamic efficacy of precordial compression. *Critical Care Medicine*, **1995**, 23, 1233-6	1.4	15
32	Gastric intramural PCO2 as monitor of perfusion failure during hemorrhagic and anaphylactic shock. *Journal of Applied Physiology*, **1994**, 76, 572-7	3.7	101
31	Cardiopulmonary resuscitation by precordial compression but without mechanical ventilation. *American Journal of Respiratory and Critical Care Medicine*, **1994**, 150, 1709-13	10.2	78
30	Spontaneous gasping increases the ability to resuscitate during experimental cardiopulmonary resuscitation. *Critical Care Medicine*, **1994**, 22, 879-83	1.4	69
29	Augmented efficacy of external CPR by intermittent occlusion of the ascending aorta. *Circulation*, **1993**, 88, 1916-21	16.7	53
28	MYOCARDIAL ENERGY METABOLISM AND POST-RESUSCITATION MYOCARDIAL DYSFUNCTION. *Critical Care Medicine*, **1993**, 21, S193	1.4	2
27	Intramyocardial hypercarbic acidosis during cardiac arrest and resuscitation. *Critical Care Medicine*, **1993**, 21, 901-6	1.4	97
26	Progressive myocardial dysfunction after cardiac resuscitation. *Critical Care Medicine*, **1993**, 21, 1046-50	1.4	129
25	Regional blood flow during closed-chest cardiac resuscitation in rats. *Journal of Applied Physiology*, **1993**, 74, 147-52	3.7	96

24	Extracorporeal circulation as an alternative to open-chest cardiac compression for cardiac resuscitation. *Chest*, **1992**, 102, 1846-52	5.3	12
23	Alkalinizing Agents for the Treatment of Cardiac Arrest **1992**, 175-195		1
22	Hypercarbic acidosis reduces cardiac resuscitability. *Critical Care Medicine*, **1991**, 19, 1177-82	1.4	65
21	Reversible impairment of myocardial contractility due to hypercarbic acidosis in the isolated perfused rat heart. *Critical Care Medicine*, **1991**, 19, 218-24	1.4	88
20	Hypothermia after cardiac arrest. *Critical Care Medicine*, **1991**, 19, 315	1.4	5
19	The HA-1A monoclonal antibody for gram-negative sepsis. *New England Journal of Medicine*, **1991**, 325, 279-83	59.2	13
18	Pulmonary ventilation/perfusion defects induced by epinephrine during cardiopulmonary resuscitation. *Circulation*, **1991**, 84, 2101-7	16.7	115
17	End-tidal carbon dioxide tension as a monitor of native blood flow during resuscitation by extracorporeal circulation. *Journal of Thoracic and Cardiovascular Surgery*, **1991**, 101, 984-988	1.5	17
16	Simultaneous aortic, jugular bulb, and right atrial pressures during cardiopulmonary resuscitation in humans. *Circulation*, **1990**, 81, 1158-9	16.7	
15	EFFECT OF DURATION OF CARDIAL ARREST ON CORONARY PERFUSION PELCOOLH AND ENDTIDAL CO2 AS FREDICTORAL OF RESUSCITABILITY. *Critical Care Medicine*, **1990**, 18, S222	1.4	2
14	HYPERCARBIA AFTER CARDIAC ARREST PRECLUDES RESUSCITABILITY. *Critical Care Medicine*, **1990**, 18, S246	1.4	2
13	EPINEPHRINE PRODUCES BOTH HYPOXEMIA AND HYPERCARBIA DURING CPR. *Critical Care Medicine*, **1990**, 18, S276	1.4	4
12	Calcium-entry blockers during porcine cardiopulmonary resuscitation. *Clinical Science*, **1990**, 78, 207-13	6.5	3
11	Increases in coronary vein CO2 during cardiac resuscitation. *Journal of Applied Physiology*, **1990**, 68, 1405-8	3.7	34
10	Buffer agents do not reverse intramyocardial acidosis during cardiac resuscitation. *Circulation*, **1990**, 81, 1660-6	16.7	129
9	The clinical rationale of cardiac resuscitation. *Disease-a-Month*, **1990**, 36, 421-68	4.4	6
8	Cardiac effects of carbon dioxide-consuming and carbon dioxide-generating buffers during cardiopulmonary resuscitation. *Journal of the American College of Cardiology*, **1990**, 15, 482-90	15.1	76
7	Myocardial acidosis associated with CO2 production during cardiac arrest and resuscitation. *Circulation*, **1989**, 80, 684-92	16.7	109

6	Arterial PCO2 as an indicator of systemic perfusion during cardiopulmonary resuscitation. *Critical Care Medicine*, **1989**, 17, 237-40	1.4	67
5	Myocardial potassium uptake during experimental cardiopulmonary resuscitation. *Critical Care Medicine*, **1989**, 17, 895-9	1.4	2
4	Incomplete global myocardial ischemia during cardiac arrest and resuscitation. *Critical Care Medicine*, **1988**, 16, 997-1001	1.4	13
3	Cardiopulmonary resuscitation in the rat. *Journal of Applied Physiology*, **1988**, 65, 2641-7	3.7	120
2	Pharmacology of cardiac arrest and reperfusion395-416		
1	Prevention and therapy of postresuscitation myocardial dysfunction829-847		