

# John J Marini

## List of Publications by Year in Descending Order

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**Version:** 2024-04-26

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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.

118  
papers

18,801  
citations

40  
h-index

137  
g-index

161  
ext. papers

22,507  
ext. citations

7  
avg, IF

6.81  
L-index

#	Paper	IF	Citations
118	Static and Dynamic Measurements of Compliance and Driving Pressure: A Pilot Study.. <i>Frontiers in Physiology</i> , <b>2022</b> , 13, 773010	4.6	
117	Mechanical power thresholds during mechanical ventilation: An experimental study.. <i>Physiological Reports</i> , <b>2022</b> , 10, e15225	2.6	1
116	Mechanisms of oxygenation responses to proning and recruitment in COVID-19 pneumonia. <i>Intensive Care Medicine</i> , <b>2021</b> , 48, 56	14.5	6
115	COVID-19 pneumonia: pathophysiology and management. <i>European Respiratory Review</i> , <b>2021</b> , 30,	9.8	9
114	Intracycle power and ventilation mode as potential contributors to ventilator-induced lung injury. <i>Intensive Care Medicine Experimental</i> , <b>2021</b> , 9, 55	3.7	1
113	Prevalence and outcome of silent hypoxemia in COVID-19. <i>Minerva Anestesiologica</i> , <b>2021</b> , 87, 325-333	1.9	22
112	Intra-cycle power: is the flow profile a neglected component of lung protection?. <i>Intensive Care Medicine</i> , <b>2021</b> , 47, 609-611	14.5	5
111	The authors respond. <i>Respiratory Care</i> , <b>2021</b> , 66, 887	2.1	
110	Paradoxically Improved Respiratory Compliance With Abdominal Compression in COVID-19 ARDS. <i>Chest</i> , <b>2021</b> , 160, 1739-1742	5.3	6
109	Conceptual simplicity in pursuit of precision. <i>Intensive Care Medicine</i> , <b>2021</b> , 47, 920-921	14.5	1
108	The impact of fluid status and decremental PEEP strategy on cardiac function and lung and kidney damage in mild-moderate experimental acute respiratory distress syndrome. <i>Respiratory Research</i> , <b>2021</b> , 22, 214	7.3	3
107	Reply to Tobin : Respiratory Drive Measurements Do Not Signify Conjectural Patient Self-inflicted Lung Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2021</b> , 203, 143-144	10.2	3
106	Elastic Power of Mechanical Ventilation in Morbid Obesity and Severe Hypoxemia. <i>Respiratory Care</i> , <b>2021</b> , 66, 626-634	2.1	2
105	COVID-19 and ARDS: the baby lung size matters. <i>Intensive Care Medicine</i> , <b>2021</b> , 47, 133-134	14.5	13
104	Pathophysiology of COVID-19-associated acute respiratory distress syndrome. <i>Lancet Respiratory Medicine</i> , <b>2021</b> , 9, e1	35.1	13
103	"Established" Respiratory Treatment in Acute Respiratory Distress Syndrome: Scientific Rigor or a Square Peg in a Round Hole?. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2021</b> , 203, 779	10.2	
102	Improving lung compliance by external compression of the chest wall. <i>Critical Care</i> , <b>2021</b> , 25, 264	10.8	6

101	Personalized mechanical ventilation in acute respiratory distress syndrome. <i>Critical Care</i> , <b>2021</b> , 25, 250	10.8	22
100	Role of total lung stress on the progression of early COVID-19 pneumonia. <i>Intensive Care Medicine</i> , <b>2021</b> , 47, 1130-1139	14.5	12
99	Physiology of PEEP and Auto-PEEP <b>2021</b> , 177-188		
98	Dorsal Push and Abdominal Binding Improve Respiratory Compliance and Driving Pressure in Prone Coronavirus Disease 2019 Acute Respiratory Distress Syndrome <b>2021</b> , 3, e0593		1
97	Prone position in ARDS patients: why, when, how and for whom. <i>Intensive Care Medicine</i> , <b>2020</b> , 46, 2385-2396	14.5	85
96	Elastic power but not driving power is the key promoter of ventilator-induced lung injury in experimental acute respiratory distress syndrome. <i>Critical Care</i> , <b>2020</b> , 24, 284	10.8	6
95	What have we learned from animal models of ventilator-induced lung injury?. <i>Intensive Care Medicine</i> , <b>2020</b> , 46, 2377-2380	14.5	6
94	"Less is More" in mechanical ventilation. <i>Intensive Care Medicine</i> , <b>2020</b> , 46, 780-782	14.5	9
93	COVID-19 phenotypes: leading or misleading?. <i>European Respiratory Journal</i> , <b>2020</b> , 56,	13.6	9
92	Estimating the Damaging Power of High-Stress Ventilation. <i>Respiratory Care</i> , <b>2020</b> , 65, 1046-1052	2.1	1
91	Management of COVID-19 Respiratory Distress. <i>JAMA - Journal of the American Medical Association</i> , <b>2020</b> , 323, 2329-2330	27.4	54 <sup>0</sup>
90	Spontaneous breathing, transpulmonary pressure and mathematical trickery. <i>Annals of Intensive Care</i> , <b>2020</b> , 10, 88	8.9	23
89	COVID-19: scientific reasoning, pragmatism and emotional bias. <i>Annals of Intensive Care</i> , <b>2020</b> , 10, 134	8.9	5
88	Does Iso-mechanical Power Lead to Iso-lung Damage?: An Experimental Study in a Porcine Model. <i>Anesthesiology</i> , <b>2020</b> , 132, 1126-1137	4.3	17
87	Static and Dynamic Contributors to Ventilator-induced Lung Injury in Clinical Practice. Pressure, Energy, and Power. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2020</b> , 201, 767-774	10.2	45
86	Physiological and quantitative CT-scan characterization of COVID-19 and typical ARDS: a matched cohort study. <i>Intensive Care Medicine</i> , <b>2020</b> , 46, 2187-2196	14.5	93
85	Time Course of Evolving Ventilator-Induced Lung Injury: The "Shrinking Baby Lung". <i>Critical Care Medicine</i> , <b>2020</b> , 48, 1203-1209	1.4	17
84	Thinking forward: promising but unproven ideas for future intensive care. <i>Critical Care</i> , <b>2019</b> , 23, 197	10.8	1

83	Evolving concepts for safer ventilation. <i>Critical Care</i> , <b>2019</b> , 23, 114	10.8	10
82	Driving Pressure: Defining the Range. <i>Respiratory Care</i> , <b>2019</b> , 64, 883-889	2.1	3
81	Understanding Lactatemia in Human Sepsis. Potential Impact for Early Management. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2019</b> , 200, 582-589	10.2	52
80	Positive End-expiratory Pressure and Mechanical Power. <i>Anesthesiology</i> , <b>2019</b> , 130, 119-130	4.3	51
79	Gradually Increasing Tidal Volume May Mitigate Experimental Lung Injury in Rats. <i>Anesthesiology</i> , <b>2019</b> , 130, 767-777	4.3	14
78	Acute Lobar Atelectasis. <i>Chest</i> , <b>2019</b> , 155, 1049-1058	5.3	7
77	Positional effects on the distributions of ventilation and end-expiratory gas volume in the asymmetric chest-a quantitative lung computed tomographic analysis. <i>Intensive Care Medicine Experimental</i> , <b>2018</b> , 6, 9	3.7	1
76	PEEP titration: the effect of prone position and abdominal pressure in an ARDS model. <i>Intensive Care Medicine Experimental</i> , <b>2018</b> , 6, 3	3.7	17
75	Dissipation of energy during the respiratory cycle: conditional importance of ergotrauma to structural lung damage. <i>Current Opinion in Critical Care</i> , <b>2018</b> , 24, 16-22	3.5	14
74	Conditional Hemodynamic Tolerance to Decremental Recruitment of the "Open Lung". <i>Critical Care Medicine</i> , <b>2018</b> , 46, 1694-1695	1.4	0
73	Physiology-guided management of hemodynamics in acute respiratory distress syndrome. <i>Annals of Translational Medicine</i> , <b>2018</b> , 6, 353	3.2	10
72	Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock: 2016. <i>Intensive Care Medicine</i> , <b>2017</b> , 43, 304-377	14.5	3178
71	Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock: 2016. <i>Critical Care Medicine</i> , <b>2017</b> , 45, 486-552	1.4	1683
70	Respiratory support in patients with acute respiratory distress syndrome: an expert opinion. <i>Critical Care</i> , <b>2017</b> , 21, 240	10.8	62
69	Seven unconfirmed ideas to improve future ICU practice. <i>Critical Care</i> , <b>2017</b> , 21, 315	10.8	3
68	Time-sensitive therapeutics. <i>Critical Care</i> , <b>2017</b> , 21, 317	10.8	2
67	The intensive care medicine research agenda for airways, invasive and noninvasive mechanical ventilation. <i>Intensive Care Medicine</i> , <b>2017</b> , 43, 1352-1365	14.5	26
66	The future of mechanical ventilation: lessons from the present and the past. <i>Critical Care</i> , <b>2017</b> , 21, 183	10.8	92

65	Management of Critical Burn Injuries: Recent Developments. <i>Korean Journal of Critical Care Medicine</i> , <b>2017</b> , 32, 9-21		5
64	Should Early Prone Positioning Be a Standard of Care in ARDS With Refractory Hypoxemia? Wrong Question-Reply. <i>Respiratory Care</i> , <b>2016</b> , 61, 1564-1565	2.1	1
63	The Effect of Compartmental Asymmetry on the Monitoring of Pulmonary Mechanics and Lung Volumes. <i>Respiratory Care</i> , <b>2016</b> , 61, 1536-1542	2.1	2
62	Is Automated Weaning Superior to Manual Spontaneous Breathing Trials?. <i>Respiratory Care</i> , <b>2016</b> , 61, 749-60	2.1	1
61	Should Early Prone Positioning Be a Standard of Care in ARDS With Refractory Hypoxemia?. <i>Respiratory Care</i> , <b>2016</b> , 61, 818-29	2.1	8
60	The "baby lung" became an adult. <i>Intensive Care Medicine</i> , <b>2016</b> , 42, 663-673	14.5	131
59	Critical care evidence--new directions. <i>JAMA - Journal of the American Medical Association</i> , <b>2015</b> , 313, 893-4	27.4	21
58	Diaphragm ultrasound as indicator of respiratory effort in critically ill patients undergoing assisted mechanical ventilation: a pilot clinical study. <i>Critical Care</i> , <b>2015</b> , 19, 161	10.8	141
57	Advances in the support of respiratory failure: putting all the evidence together. <i>Critical Care</i> , <b>2015</b> , 19 Suppl 3, S4	10.8	2
56	Impact of Chest Wall Modifications and Lung Injury on the Correspondence Between Airway and Transpulmonary Driving Pressures. <i>Critical Care Medicine</i> , <b>2015</b> , 43, e287-95	1.4	25
55	Biological Impact of Transpulmonary Driving Pressure in Experimental Acute Respiratory Distress Syndrome. <i>Anesthesiology</i> , <b>2015</b> , 123, 423-33	4.3	43
54	Drainage of pleural effusion in mechanically ventilated patients: time to measure chest wall compliance?. <i>Journal of Critical Care</i> , <b>2014</b> , 29, 808-13	4	6
53	Prone position in acute respiratory distress syndrome. Rationale, indications, and limits. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2013</b> , 188, 1286-93	10.2	231
52	Mechanical ventilation: past lessons and the near future. <i>Critical Care</i> , <b>2013</b> , 17 Suppl 1, S1	10.8	30
51	Our favorite unproven ideas for future critical care. <i>Critical Care</i> , <b>2013</b> , 17 Suppl 1, S9	10.8	3
50	Value and limitations of transpulmonary pressure calculations during intra-abdominal hypertension. <i>Critical Care Medicine</i> , <b>2013</b> , 41, 1870-7	1.4	36
49	Ventilator-associated problems related to obstructive lung disease. <i>Respiratory Care</i> , <b>2013</b> , 58, 938-49	2.1	6
48	Unproven clinical evidence in mechanical ventilation. <i>Current Opinion in Critical Care</i> , <b>2012</b> , 18, 1-7	3.5	11

47	Experimental intra-abdominal hypertension attenuates the benefit of positive end-expiratory pressure in ventilating effusion-compressed lungs*. <i>Critical Care Medicine</i> , <b>2012</b> , 40, 2176-81	1.4	8
46	Prone positioning for ARDS: defining the target <b>2012</b> , 405-407		
45	Impact of pressure profile and duration of recruitment maneuvers on morphofunctional and biochemical variables in experimental lung injury. <i>Critical Care Medicine</i> , <b>2011</b> , 39, 1074-81	1.4	33
44	Spontaneously regulated vs. controlled ventilation of acute lung injury/acute respiratory distress syndrome. <i>Current Opinion in Critical Care</i> , <b>2011</b> , 17, 24-9	3.5	39
43	Dynamic hyperinflation and auto-positive end-expiratory pressure: lessons learned over 30 years. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2011</b> , 184, 756-62	10.2	88
42	Safer ventilation of the injured lung: one step closer. <i>Critical Care</i> , <b>2010</b> , 14, 192	10.8	5
41	Can we prevent the spread of focal lung inflammation?. <i>Critical Care Medicine</i> , <b>2010</b> , 38, S574-81	1.4	3
40	Semi-quantitative tracking of intra-airway fluids by computed tomography. <i>Clinical Physiology and Functional Imaging</i> , <b>2009</b> , 29, 406-13	2.4	7
39	Acoustic monitoring--super sonics?. <i>Critical Care</i> , <b>2009</b> , 13, 162	10.8	1
38	Lung stress and strain during mechanical ventilation for acute respiratory distress syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2008</b> , 178, 346-55	10.2	480
37	How best to recruit the injured lung?. <i>Critical Care</i> , <b>2008</b> , 12, 159	10.8	4
36	Lung injury--settle for a sketch or design a blueprint?. <i>Critical Care Medicine</i> , <b>2008</b> , 36, 2922-5	1.4	1
35	Propagation prevention: a complementary mechanism for "lung protective" ventilation in acute respiratory distress syndrome. <i>Critical Care Medicine</i> , <b>2008</b> , 36, 3252-8	1.4	45
34	Surviving Sepsis Campaign: international guidelines for management of severe sepsis and septic shock: 2008. <i>Critical Care Medicine</i> , <b>2008</b> , 36, 296-327	1.4	6589
33	The pulmonary artery catheter: in medio virtus. <i>Critical Care Medicine</i> , <b>2008</b> , 36, 3093-6	1.4	100
32	Surviving Sepsis Campaign: international guidelines for management of severe sepsis and septic shock: 2008. <i>Intensive Care Medicine</i> , <b>2008</b> , 34, 17-60	14.5	1302
31	Monitoring the mechanically ventilated patient. <i>Critical Care Clinics</i> , <b>2007</b> , 23, 575-611	4.5	8
30	Mechanical ventilation in the acute respiratory distress syndrome 2006. <i>Journal of Organ Dysfunction</i> , <b>2007</b> , 3, 224-231		1

29	Limitations of clinical trials in acute lung injury and acute respiratory distress syndrome. <i>Current Opinion in Critical Care</i> , <b>2006</b> , 12, 25-31	3.5	8
28	Partitioning the work-sparing effects of partial ventilatory support in airflow obstruction. <i>Critical Care</i> , <b>2004</b> , 8, 101-2	10.8	0
27	Reluctant horses at the digital river. <i>Critical Care</i> , <b>2004</b> , 8, 313-4	10.8	1
26	Ventilatory management of acute respiratory distress syndrome: a consensus of two. <i>Critical Care Medicine</i> , <b>2004</b> , 32, 250-5	1.4	146
25	Mechanical ventilation in sepsis-induced acute lung injury/acute respiratory distress syndrome: an evidence-based review. <i>Critical Care Medicine</i> , <b>2004</b> , 32, S548-53	1.4	99
24	Intercomparison of recruitment maneuver efficacy in three models of acute lung injury. <i>Critical Care Medicine</i> , <b>2004</b> , 32, 2371-7	1.4	77
23	Advances in the understanding of acute respiratory distress syndrome: summarizing a decade of progress. <i>Current Opinion in Critical Care</i> , <b>2004</b> , 10, 265-71	3.5	7
22	Extremely High-Pressure Lung Recruitment Maneuver May Be Life Saving in the Most Severe Cases of Acute Lung Injury/Acute Respiratory Distress Syndrome: The author replies. <i>Critical Care Medicine</i> , <b>2004</b> , 32, 1442	1.4	1
21	Effect of core body temperature on ventilator-induced lung injury. <i>Critical Care Medicine</i> , <b>2004</b> , 32, 144-9	1.4	79
20	Relative importance of stretch and shear in ventilator-induced lung injury. <i>Critical Care Medicine</i> , <b>2004</b> , 32, 302-4	1.4	28
19	Transient hemodynamic effects of recruitment maneuvers in three experimental models of acute lung injury. <i>Critical Care Medicine</i> , <b>2004</b> , 32, 2378-84	1.4	120
18	Bench-to-bedside review: microvascular and airspace linkage in ventilator-induced lung injury. <i>Critical Care</i> , <b>2003</b> , 7, 435-44	10.8	57
17	The pragmatics of prone positioning. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2002</b> , 165, 1359-63	10.2	100
16	Oscillations and noise: inherent instability of pressure support ventilation?. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2002</b> , 165, 47-53	10.2	33
15	Pulmonary microvascular fracture in a patient with acute respiratory distress syndrome. <i>Critical Care Medicine</i> , <b>2002</b> , 30, 2368-70	1.4	24
14	Relative roles of vascular and airspace pressures in ventilator-induced lung injury. <i>Critical Care Medicine</i> , <b>2001</b> , 29, 1593-8	1.4	56
13	Prone positioning attenuates and redistributes ventilator-induced lung injury in dogs. <i>Critical Care Medicine</i> , <b>2000</b> , 28, 295-303	1.4	551
12	Effects of mean airway pressure and tidal excursion on lung injury induced by mechanical ventilation in an isolated perfused rabbit lung model. <i>Critical Care Medicine</i> , <b>1999</b> , 27, 1533-41	1.4	52

11	Influence of prone position on the extent and distribution of lung injury in a high tidal volume oleic acid model of acute respiratory distress syndrome. <i>Critical Care Medicine</i> , <b>1997</b> , 25, 16-27	1.4	177
10	Implications of a biphasic two-compartment model of constant flow ventilation for the clinical setting. <i>Journal of Critical Care</i> , <b>1994</b> , 9, 114-23	4	33
9	A general mathematical model for respiratory dynamics relevant to the clinical setting. <i>The American Review of Respiratory Disease</i> , <b>1993</b> , 147, 14-24		65
8	A NONLINEAR MATHEMATICAL MODEL OF PRESSURE PRESET VENTILATION: DESCRIPTION AND LIMITING VALUES FOR KEY OUTCOME VARIABLES. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>1993</b> , 03, 839-859	3.5	5
7	Breath-stacking increases the depth and duration of chest expansion by incentive spirometry. <i>The American Review of Respiratory Disease</i> , <b>1990</b> , 141, 343-6		46
6	In vitro versus in vivo comparison of endotracheal tube airflow resistance. <i>The American Review of Respiratory Disease</i> , <b>1989</b> , 140, 10-6		206
5	Should PEEP be used in airflow obstruction?. <i>The American Review of Respiratory Disease</i> , <b>1989</b> , 140, 1-3		155
4	External work output and force generation during synchronized intermittent mechanical ventilation. Effect of machine assistance on breathing effort. <i>The American Review of Respiratory Disease</i> , <b>1988</b> , 138, 1169-79		200
3	Bedside estimation of the inspiratory work of breathing during mechanical ventilation. <i>Chest</i> , <b>1986</b> , 89, 56-63	5.3	69
2	The inspiratory workload of patient-initiated mechanical ventilation. <i>The American Review of Respiratory Disease</i> , <b>1986</b> , 134, 902-9		262
1	The inspiratory work of breathing during assisted mechanical ventilation. <i>Chest</i> , <b>1985</b> , 87, 612-8	5.3	244