

# J-C Richard

## List of Publications by Year in descending order

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Version: 2024-02-01

123  
papers

9,673  
citations

81900

39  
h-index

37204

96  
g-index

134  
all docs

134  
docs citations

134  
times ranked

9377  
citing authors

#	ARTICLE	IF	CITATIONS
1	Remdesivir plus standard of care versus standard of care alone for the treatment of patients admitted to hospital with COVID-19 (DisCoVeRy): a phase 3, randomised, controlled, open-label trial. <i>Lancet Infectious Diseases</i> , The, 2022, 22, 209-221.	9.1	233
2	Fungal infections in mechanically ventilated patients with COVID-19 during the first wave: the French multicentre MYCOVID study. <i>Lancet Respiratory Medicine</i> , the, 2022, 10, 180-190.	10.7	161
3	Non-invasive quantification of acute macrophagic lung inflammation with [11C](R)-PK11195 using a three-tissue compartment kinetic model in experimental acute respiratory distress syndrome. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 2122-2136.	6.4	4
4	Response to PEEP in COVID-19 ARDS patients with and without extracorporeal membrane oxygenation. A multicenter case-control computed tomography study. <i>Critical Care</i> , 2022, 26, .	5.8	4
5	Imaging the acute respiratory distress syndrome: past, present and future. <i>Intensive Care Medicine</i> , 2022, 48, 995-1008.	8.2	14
6	Type I Interferon assessment in 45 minutes using the FilmArray <sup>®</sup> PCR platform in SARS-CoV-2 and other viral infections. <i>European Journal of Immunology</i> , 2021, 51, 989-994.	2.9	4
7	Pulmonary aspergillosis in critically ill patients with Coronavirus Disease 2019 (COVID-19). <i>Medical Mycology</i> , 2021, 59, 110-114.	0.7	67
8	Antibodies against type I interferon: detection and association with severe clinical outcome in COVID-19 patients. <i>Clinical and Translational Immunology</i> , 2021, 10, e1327.	3.8	79
9	Modeling SARS-CoV-2 viral kinetics and association with mortality in hospitalized patients from the French COVID cohort. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	181
10	Polyclonal expansion of TCR V $\beta$ 21.3 CD4 and CD8 T cells is a hallmark of multisystem inflammatory syndrome in children. <i>Science Immunology</i> , 2021, 6, .	11.9	105
11	Prevalence and risk factors of hemodynamic instability associated with preload-dependence during continuous renal replacement therapy in a prospective observational cohort of critically ill patients. <i>Annals of Intensive Care</i> , 2021, 11, 95.	4.6	6
12	Early nasal type I IFN immunity against SARS-CoV-2 is compromised in patients with autoantibodies against type I IFNs. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	85
13	Short- and long-term prognosis of acute critically ill patients with systemic rheumatic diseases. <i>Medicine (United States)</i> , 2021, 100, e26164.	1.0	6
14	Validation of a novel system to assess end-expiratory lung volume and alveolar recruitment in an ARDS model. <i>Intensive Care Medicine Experimental</i> , 2021, 9, 46.	1.9	0
15	Open-label randomized controlled trial of ultra-low tidal ventilation without extracorporeal circulation in patients with COVID-19 pneumonia and moderate to severe ARDS: study protocol for the VT4COVID trial. <i>Trials</i> , 2021, 22, 692.	1.6	1
16	Improving motion mask segmentation in thoracic CT with multiplanar U-nets. <i>Medical Physics</i> , 2021, , .	3.0	1
17	Gastric insufflation during cardiopulmonary resuscitation: A study in human cadavers. <i>Resuscitation</i> , 2020, 146, 111-117.	3.0	5
18	Quantitative-analysis of computed tomography in COVID-19 and non COVID-19 ARDS patients: A case-control study. <i>Journal of Critical Care</i> , 2020, 60, 169-176.	2.2	9

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19	Impact of advance directives on the variability between intensivists in the decisions to forgo life-sustaining treatment. <i>Critical Care</i> , 2020, 24, 672.	5.8	6
20	Type I IFN immunoprofiling in COVID-19 patients. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 146, 206-208.e2.	2.9	234
21	Software for CT-image Analysis to Assist the Choice of Mechanical-Ventilation Settings in Acute Respiratory Distress Syndrome. <i>Lecture Notes in Computer Science</i> , 2020, , 48-58.	1.3	3
22	Recruitability and effect of PEEP in SARS-Cov-2-associated acute respiratory distress syndrome. <i>Annals of Intensive Care</i> , 2020, 10, 55.	4.6	87
23	Transpulmonary pressures in obese and non-obese COVID-19 ARDS. <i>Annals of Intensive Care</i> , 2020, 10, 129.	4.6	9
24	Protracted viral shedding and viral load are associated with ICU mortality in Covid-19 patients with acute respiratory failure. <i>Annals of Intensive Care</i> , 2020, 10, 167.	4.6	20
25	Formal guidelines: management of acute respiratory distress syndrome. <i>Annals of Intensive Care</i> , 2019, 9, 69.	4.6	478
26	Voxel-wise assessment of lung aeration changes on CT images using image registration: application to acute respiratory distress syndrome (ARDS). <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 1945-1953.	2.8	3
27	A Simple Method to Assess Lung Recruitability at the Bedside for Patients with Acute Respiratory Distress Syndrome. , 2019, , .		0
28	Feasibility and safety of ultra-low tidal volume ventilation without extracorporeal circulation in moderately severe and severe ARDS patients. <i>Intensive Care Medicine</i> , 2019, 45, 1590-1598.	8.2	27
29	Noninvasive quantification of macrophagic lung recruitment during experimental ventilation-induced lung injury. <i>Journal of Applied Physiology</i> , 2019, 127, 546-558.	2.5	4
30	New physiological insights in ventilation during cardiopulmonary resuscitation. <i>Current Opinion in Critical Care</i> , 2019, 25, 37-44.	3.2	23
31	Low ventilation associated with chest compression, an old observation that requires new physiological interpretation. <i>American Journal of Emergency Medicine</i> , 2019, 37, 1212-1213.	1.6	1
32	Accuracy of PO.1 measurements performed by ICU ventilators: a bench study. <i>Annals of Intensive Care</i> , 2019, 9, 104.	4.6	26
33	Noninvasive Treatment of Hypoxemic Respiratory Failure. <i>Critical Care Medicine</i> , 2018, 46, 330-331.	0.9	0
34	Hemodynamic effects of extended prone position sessions in ARDS. <i>Annals of Intensive Care</i> , 2018, 8, 120.	4.6	22
35	Effects of positive end-expiratory pressure strategy in supine and prone position on lung and chest wall mechanics in acute respiratory distress syndrome. <i>Annals of Intensive Care</i> , 2018, 8, 86.	4.6	20
36	Hypoxemia in the ICU: prevalence, treatment, and outcome. <i>Annals of Intensive Care</i> , 2018, 8, 82.	4.6	53

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37	How Ventilation Is Delivered During Cardiopulmonary Resuscitation: An International Survey. <i>Respiratory Care</i> , 2018, 63, 1293-1301.	1.6	25
38	A tree-matching algorithm: Application to airways in CT images of subjects with the acute respiratory distress syndrome. <i>Medical Image Analysis</i> , 2017, 35, 101-115.	11.6	6
39	Lung Recruitment Assessment. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 195, 1275-1276.	5.6	0
40	Effect of end-inspiratory plateau pressure duration on driving pressure. <i>Intensive Care Medicine</i> , 2017, 43, 587-589.	8.2	7
41	Predicting Extubation Outcome by Cough Peak Flow Measured Using a Built-in Ventilator Flow Meter. <i>Respiratory Care</i> , 2017, 62, 1505-1519.	1.6	33
42	Lung Segmentation by Cascade Registration. <i>Irbm</i> , 2017, 38, 266-280.	5.6	4
43	Change in cardiac output during Trendelenburg maneuver is a reliable predictor of fluid responsiveness in patients with acute respiratory distress syndrome in the prone position under protective ventilation. <i>Critical Care</i> , 2017, 21, 295.	5.8	42
44	Intensive alveolar recruitment strategy in the post-cardiac surgery setting: one PEEP level may not fit all. <i>Journal of Thoracic Disease</i> , 2017, 9, 2288-2292.	1.4	2
45	Assessment of clinical criteria for sepsis "was the cart put before the horse?". <i>Journal of Thoracic Disease</i> , 2016, 8, E816-E818.	1.4	6
46	Airway Segmentation, Skeletonization, and Tree Matching to Improve Registration of 3D CT Images with Large Opacities in the Lungs. <i>Lecture Notes in Computer Science</i> , 2016, , 395-407.	1.3	1
47	Management of neutropenic patients in the intensive care unit (NEWBORNS EXCLUDED) recommendations from an expert panel from the French Intensive Care Society (SRLF) with the French Group for Pediatric Intensive Care Emergencies (GFRUP), the French Society of Anesthesia and Intensive Care (SFAR), the French Society of Hematology (SFH), the French Society for Hospital Hygiene (SF2H), and the French Infectious Diseases Society (SPILF). <i>Annals of Intensive Care</i> , 2016, 6, 90.	4.6	27
48	Prevalence and risk factors of hypotension associated with preload-dependence during intermittent hemodialysis in critically ill patients. <i>Critical Care</i> , 2016, 20, 44.	5.8	37
49	Ventilator-associated pneumonia in ARDS patients: the impact of prone positioning. A secondary analysis of the PROSEVA trial. <i>Intensive Care Medicine</i> , 2016, 42, 871-878.	8.2	67
50	Hemophagocytic Lymphohistiocytosis in Intensive Care Unit. <i>Medicine (United States)</i> , 2015, 94, e2318.	1.0	48
51	Assessment of fluid responsiveness during prone position in ards. a validation study. <i>Intensive Care Medicine Experimental</i> , 2015, 3, .	1.9	0
52	Preparation of an intensive care unit in France for the reception of a confirmed case of Ebola virus infection. <i>Anaesthesia, Critical Care &amp; Pain Medicine</i> , 2015, 34, 349-355.	1.4	9
53	Open lung biopsy in nonresolving ARDS frequently identifies diffuse alveolar damage regardless of the severity stage and may have implications for patient management. <i>Intensive Care Medicine</i> , 2015, 41, 222-230.	8.2	85
54	Preload dependence indices to titrate volume expansion during septic shock: a randomized controlled trial. <i>Critical Care</i> , 2015, 19, 5.	5.8	71

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55	Early Hepatic Dysfunction Is Associated with a Worse Outcome in Patients Presenting with Acute Respiratory Distress Syndrome: A Post-Hoc Analysis of the ACURASYS and PROSEVA Studies. PLoS ONE, 2015, 10, e0144278.	2.5	42
56	The impact of patient positioning on pressure ulcers in patients with severe ARDS: results from a multicentre randomised controlled trial on prone positioning. Intensive Care Medicine, 2014, 40, 397-403.	8.2	145
57	Mechanisms of the effects of prone positioning in acute respiratory distress syndrome. Intensive Care Medicine, 2014, 40, 1634-1642.	8.2	90
58	Reliability of the nitrogen washin-washout technique to assess end-expiratory lung volume at variable PEEP and tidal volumes. Intensive Care Medicine Experimental, 2014, 2, 10.	1.9	11
59	Extracorporeal life support for patients with acute respiratory distress syndrome: report of a Consensus Conference. Annals of Intensive Care, 2014, 4, 15.	4.6	76
60	Prone Positioning in the Acute Respiratory Distress Syndrome. New England Journal of Medicine, 2013, 369, 979-981.	27.0	71
61	An attempt to validate the modification of the American-European consensus definition of acute lung injury/acute respiratory distress syndrome by the Berlin definition in a university hospital. Intensive Care Medicine, 2013, 39, 2161-2170.	8.2	105
62	Prone Positioning in Severe Acute Respiratory Distress Syndrome. New England Journal of Medicine, 2013, 368, 2159-2168.	27.0	3,084
63	Nitrogen washout/washin, helium dilution, and computed tomography in the assessment of end-expiratory lung volume. Critical Care, 2013, 17, 453.	5.8	1
64	Evaluation of Recruited Lung Volume at Inspiratory Plateau Pressure With PEEP Using Bedside Digital Chest X-ray in Patients With Acute Lung Injury/ARDS. Respiratory Care, 2013, 58, 416-423.	1.6	33
65	Noninvasive Quantitative Assessment of Pulmonary Blood Flow with <sup>18</sup> F-FDG PET. Journal of Nuclear Medicine, 2013, 54, 1653-1660.	5.0	5
66	<i>Candida albicans</i> and non- <i>Candida albicans</i> fungemia in an institutional hospital during a decade. Medical Mycology, 2013, 51, 33-37.	0.7	44
67	Panton-Valentine leukocidin-positive <i>Staphylococcus aureus</i> necrotising pneumonia complicating pandemic A(H1N1) influenza infection. BMJ Case Reports, 2013, 2013, bcr2013010227-bcr2013010227.	0.5	1
68	Pink skin, urine and effluent fluid after cyanide poisoning. Journal of Medical Disorders, 2013, 1, 3.	0.2	3
69	Comparison of Alpha 200 and CoughAssist as Intermittent Positive Pressure Breathing Devices: A Bench Study. Respiratory Care, 2012, 57, 1129-1136.	1.6	9
70	Expiratory Flow-Volume Loop Profile and Patient Outcome in Chronic Obstructive Pulmonary Disease in Acute Respiratory Failure: A Prospective Observational Study in a Single Intensive Care Unit. Respiration, 2012, 84, 27-35.	2.6	2
71	Interest of a simple on-line screening registry for measuring ICU burden related to an influenza pandemic. Critical Care, 2012, 16, R118.	5.8	16
72	Comparison of Two Correction Methods for Absolute Values of Esophageal Pressure in Patients With Acute Hypoxemic Respiratory Failure, Mechanically Ventilated in Intensive Care Unit. Respiratory Care, 2012, 57, 2045-51.	1.6	21

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73	Measurement of respiratory system resistance during mechanical ventilation. , 2012, , 17-20.		0
74	Cerebral gas arterial embolism complicating bronchial biopsies with a flexible bronchoscope: a case report. Intensive Care Medicine, 2011, 37, 555-556.	8.2	2
75	Efficacy and safety of recruitment maneuvers in acute respiratory distress syndrome. Annals of Intensive Care, 2011, 1, 9.	4.6	46
76	Management and Long-Term Outcome of Patients With Chronic Neuromuscular Disease Admitted to the Intensive Care Unit for Acute Respiratory Failure: A Single-Center Retrospective Study. Respiratory Care, 2011, 56, 953-960.	1.6	23
77	Performance of the CoughAssist Insufflation-Exsufflation Device in the Presence of an Endotracheal Tube or Tracheostomy Tube: A Bench Study. Respiratory Care, 2011, 56, 1108-1114.	1.6	52
78	Lung Imaging in Acute Lung Injury and Acute Respiratory Distress Syndrome with PET. The Open Nuclear Medicine Journal, 2010, 2, 99-109.	0.2	0
79	What is and how to Manage the Acute Respiratory Distress Syndrome?. The Open Nuclear Medicine Journal, 2010, 2, 72-78.	0.2	0
80	Where the Future Goes: What do we Need to Know in the ARDS and how Lung Imaging Can Deal with this?. The Open Nuclear Medicine Journal, 2010, 2, 133-137.	0.2	0
81	The feasibility of early physical activity in intensive care unit patients: a prospective observational one-center study. Respiratory Care, 2010, 55, 400-7.	1.6	113
82	Quantitative analysis of acid-base disorders in patients with chronic respiratory failure in stable or unstable respiratory condition. Respiratory Care, 2010, 55, 1453-63.	1.6	12
83	On the Randomized Trial of Activated Protein C in Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2009, 179, 172-173.	5.6	0
84	In vivo and in vitro detection of a superantigenic toxin Vbeta signature in two forms of streptococcal toxic shock syndrome. European Journal of Clinical Microbiology and Infectious Diseases, 2009, 28, 671-676.	2.9	12
85	Thrombosis during lepirudin therapy: a case report. Intensive Care Medicine, 2009, 35, 959-960.	8.2	2
86	Electrical impedance tomography compared to positron emission tomography for the measurement of regional lung ventilation: an experimental study. Critical Care, 2009, 13, R82.	5.8	88
87	Measurement of respiratory system resistance during mechanical ventilation. , 2009, , 17-20.		1
88	Comparison of Optimal Positive End-Expiratory Pressure and Recruitment Maneuvers During Lung-Protective Mechanical Ventilation in Patients With Acute Lung Injury/Acute Respiratory Distress Syndrome. Respiratory Care, 2009, 54, 847-854.	1.6	51
89	Inhaled Bronchodilator Administration During Mechanical Ventilation: How to Optimize It, and For Which Clinical Benefit?. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2008, 21, 85-96.	1.4	46
90	Current ventilatory management of patients with acute lung injury/acute respiratory distress syndrome. Expert Review of Respiratory Medicine, 2008, 2, 119-133.	2.5	3

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91	Effects of prone position and positive end-expiratory pressure on lung perfusion and ventilation*. Critical Care Medicine, 2008, 36, 2373-2380.	0.9	66
92	Inhaled Bronchodilator Administration During Mechanical Ventilation: How to Optimize It, and For Which Clinical Benefit?. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2008, .	1.2	0
93	Quantitative Analysis of Acid-Base Disorders in Patients with Acute on Chronic Respiratory Failure and Acute Respiratory Distress Syndrome. A Prospective, One Center Study. The Open Clinical Chemistry Journal, 2008, 1, 27-37.	0.7	1
94	Imagerie du SDRA. , 2008, , 51-70.		1
95	Viscoelastic properties of lungs and thoracic wall of anesthetized mechanically ventilated piglets. Veterinary Anaesthesia and Analgesia, 2007, 34, 331-338.	0.6	4
96	Measurement of respiratory system resistance during mechanical ventilation. Intensive Care Medicine, 2007, 33, 1046-1049.	8.2	5
97	Effect of activated protein C on pulmonary blood flow and cytokine production in experimental acute lung injury. Intensive Care Medicine, 2007, 33, 2199-2206.	8.2	19
98	ModÃ©les animaux deÂSDRA. Reanimation: Journal De La Societe De Reanimation De Langue Francaise, 2006, 15, 21-28.	0.1	5
99	Pericardial and pleural diffusion of voriconazole during disseminated invasive aspergillosis: report of aÂcase with successful outcome. Intensive Care Medicine, 2006, 32, 939-940.	8.2	11
100	Assessment of airway closure from deflation lung volumeâ€“pressure curve: sigmoidal equation revisited. Intensive Care Medicine, 2006, 32, 894-898.	8.2	10
101	Increased use of noninvasive ventilation in French intensive care units. Intensive Care Medicine, 2006, 32, 1747-1755.	8.2	268
102	Benefits and risks of success or failure of noninvasive ventilation. Intensive Care Medicine, 2006, 32, 1756-1765.	8.2	300
103	Alveolar recruitment assessed by positron emission tomography during experimental acute lung injury. Intensive Care Medicine, 2006, 32, 1889-1894.	8.2	23
104	Effects of Inhaled Fenoterol and Positive End-Expiratory Pressure on the Respiratory Mechanics of Patients with Chronic Obstructive Pulmonary Disease. Canadian Respiratory Journal, 2005, 12, 329-335.	1.6	9
105	Nouvelles mÃ©thodes d'imagerie de la ventilation. Reanimation: Journal De La Societe De Reanimation De Langue Francaise, 2005, 14, 70-78.	0.1	0
106	Quantitative assessment of regional alveolar ventilation and gas volume using 13N-N2 washout and PET. Journal of Nuclear Medicine, 2005, 46, 1375-83.	5.0	14
107	Molecular Imaging of Enzyme Function in Lungs. Methods in Enzymology, 2004, 385, 315-333.	1.0	4
108	Effects of positive end-expiratory pressure on the sigmoid equation in experimental acute lung injury. Intensive Care Medicine, 2004, 30, 2121-2125.	8.2	3

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109	Molecular imaging for pediatric lung diseases. <i>Pediatric Pulmonology</i> , 2004, 37, 286-296.	2.0	7
110	Quantitation of pulmonary transgene expression with PET imaging. <i>Journal of Nuclear Medicine</i> , 2004, 45, 644-54.	5.0	10
111	Imaging the spatial distribution of transgene expression in the lungs with positron emission tomography. <i>Gene Therapy</i> , 2003, 10, 2074-2080.	4.5	24
112	Prevention of Endotracheal Suctioning-induced Alveolar Derecruitment in Acute Lung Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003, 167, 1215-1224.	5.6	175
113	Imaging Pulmonary Gene Expression with Positron Emission Tomography. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003, 167, 1257-1263.	5.6	34
114	Sigmoidal equation for lung and chest wall volume-pressure curves in acute respiratory failure. <i>Journal of Applied Physiology</i> , 2003, 95, 2064-2071.	2.5	23
115	Repetitive Imaging of Reporter Gene Expression in the Lung. <i>Molecular Imaging</i> , 2003, 2, 342-349.	1.4	8
116	Effects of Positive End-Expiratory Pressure and Body Position on Pulmonary Blood Flow Redistribution in Mechanically Ventilated Normal Pigs. <i>Chest</i> , 2002, 122, 998-1005.	0.8	19
117	Effect of position, nitric oxide, and almitrine on lung perfusion in a porcine model of acute lung injury. <i>Journal of Applied Physiology</i> , 2002, 93, 2181-2191.	2.5	41
118	Comparison of PET with radioactive microspheres to assess pulmonary blood flow. <i>Journal of Nuclear Medicine</i> , 2002, 43, 1063-71.	5.0	14
119	Alveolar Derecruitment at Decremental Positive End-Expiratory Pressure Levels in Acute Lung Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 164, 795-801.	5.6	212
120	Noninvasive Versus Conventional Mechanical Ventilation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 163, 874-880.	5.6	452
121	Influence of Tidal Volume on Alveolar Recruitment. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 163, 1609-1613.	5.6	824
122	Pressure-Volume Curves and Compliance in Acute Lung Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1999, 159, 1172-1178.	5.6	371
123	Cefoxitin: A Neglected Intravenous Betalactam with Interesting Perspectives. <i>Mediterranean Journal of Infection, Microbes and Antimicrobials</i> , 0, , .	0.2	0