

J-C Richard

List of Publications by Year in descending order

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123
papers

9,673
citations

81743

39
h-index

37111

96
g-index

134
all docs

134
docs citations

134
times ranked

9377
citing authors

#	ARTICLE	IF	CITATIONS
1	Prone Positioning in Severe Acute Respiratory Distress Syndrome. <i>New England Journal of Medicine</i> , 2013, 368, 2159-2168.	13.9	3,084
2	Influence of Tidal Volume on Alveolar Recruitment. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 163, 1609-1613.	2.5	824
3	Formal guidelines: management of acute respiratory distress syndrome. <i>Annals of Intensive Care</i> , 2019, 9, 69.	2.2	478
4	Noninvasive Versus Conventional Mechanical Ventilation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 163, 874-880.	2.5	452
5	Pressure-Volume Curves and Compliance in Acute Lung Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1999, 159, 1172-1178.	2.5	371
6	Benefits and risks of success or failure of noninvasive ventilation. <i>Intensive Care Medicine</i> , 2006, 32, 1756-1765.	3.9	300
7	Increased use of noninvasive ventilation in French intensive care units. <i>Intensive Care Medicine</i> , 2006, 32, 1747-1755.	3.9	268
8	Type I IFN immunoprofiling in COVID-19 patients. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 146, 206-208.e2.	1.5	234
9	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.	4.6	233
10	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.	2.5	212
11	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, .	3.3	181
12	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.	2.5	175
13	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.	5.2	161
14	The impact of patient positioning on pressure ulcers in patients with severe ARDS: results from a multicentre randomised controlled trial on prone positioning. <i>Intensive Care Medicine</i> , 2014, 40, 397-403.	3.9	145
15	The feasibility of early physical activity in intensive care unit patients: a prospective observational one-center study. <i>Respiratory Care</i> , 2010, 55, 400-7.	0.8	113
16	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. <i>Intensive Care Medicine</i> , 2013, 39, 2161-2170.	3.9	105
17	Polyclonal expansion of TCR \hat{V}^2 21.3 ⁺ CD4 ⁺ and CD8 ⁺ T cells is a hallmark of multisystem inflammatory syndrome in children. <i>Science Immunology</i> , 2021, 6, .	5.6	105
18	Mechanisms of the effects of prone positioning in acute respiratory distress syndrome. <i>Intensive Care Medicine</i> , 2014, 40, 1634-1642.	3.9	90

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19	Electrical impedance tomography compared to positron emission tomography for the measurement of regional lung ventilation: an experimental study. <i>Critical Care</i> , 2009, 13, R82.	2.5	88
20	Recruitability and effect of PEEP in SARS-Cov-2-associated acute respiratory distress syndrome. <i>Annals of Intensive Care</i> , 2020, 10, 55.	2.2	87
21	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.	3.9	85
22	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, .	4.2	85
23	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.	1.7	79
24	Extracorporeal life support for patients with acute respiratory distress syndrome: report of a Consensus Conference. <i>Annals of Intensive Care</i> , 2014, 4, 15.	2.2	76
25	Prone Positioning in the Acute Respiratory Distress Syndrome. <i>New England Journal of Medicine</i> , 2013, 369, 979-981.	13.9	71
26	Preload dependence indices to titrate volume expansion during septic shock: a randomized controlled trial. <i>Critical Care</i> , 2015, 19, 5.	2.5	71
27	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.	3.9	67
28	Pulmonary aspergillosis in critically ill patients with Coronavirus Disease 2019 (COVID-19). <i>Medical Mycology</i> , 2021, 59, 110-114.	0.3	67
29	Effects of prone position and positive end-expiratory pressure on lung perfusion and ventilation*. <i>Critical Care Medicine</i> , 2008, 36, 2373-2380.	0.4	66
30	Hypoxemia in the ICU: prevalence, treatment, and outcome. <i>Annals of Intensive Care</i> , 2018, 8, 82.	2.2	53
31	Performance of the CoughAssist Insufflation-Exsufflation Device in the Presence of an Endotracheal Tube or Tracheostomy Tube: A Bench Study. <i>Respiratory Care</i> , 2011, 56, 1108-1114.	0.8	52
32	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. <i>Respiratory Care</i> , 2009, 54, 847-854.	0.8	51
33	Hemophagocytic Lymphohistiocytosis in Intensive Care Unit. <i>Medicine (United States)</i> , 2015, 94, e2318.	0.4	48
34	Inhaled Bronchodilator Administration During Mechanical Ventilation: How to Optimize It, and For Which Clinical Benefit?. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2008, 21, 85-96.	0.7	46
35	Efficacy and safety of recruitment maneuvers in acute respiratory distress syndrome. <i>Annals of Intensive Care</i> , 2011, 1, 9.	2.2	46
36	<i>Candida albicans</i> and non- <i>Candida albicans</i> fungemia in an institutional hospital during a decade. <i>Medical Mycology</i> , 2013, 51, 33-37.	0.3	44

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37	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.	2.5	42
38	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. <i>PLoS ONE</i> , 2015, 10, e0144278.	1.1	42
39	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.	1.2	41
40	Prevalence and risk factors of hypotension associated with preload-dependence during intermittent hemodialysis in critically ill patients. <i>Critical Care</i> , 2016, 20, 44.	2.5	37
41	Imaging Pulmonary Gene Expression with Positron Emission Tomography. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003, 167, 1257-1263.	2.5	34
42	Evaluation of Recruited Lung Volume at Inspiratory Plateau Pressure With PEEP Using Bedside Digital Chest X-ray in Patients With Acute Lung Injury/ARDS. <i>Respiratory Care</i> , 2013, 58, 416-423.	0.8	33
43	Predicting Extubation Outcome by Cough Peak Flow Measured Using a Built-in Ventilator Flow Meter. <i>Respiratory Care</i> , 2017, 62, 1505-1519.	0.8	33
44	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.	2.2	27
45	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.	3.9	27
46	Accuracy of PO.1 measurements performed by ICU ventilators: a bench study. <i>Annals of Intensive Care</i> , 2019, 9, 104.	2.2	26
47	How Ventilation Is Delivered During Cardiopulmonary Resuscitation: An International Survey. <i>Respiratory Care</i> , 2018, 63, 1293-1301.	0.8	25
48	Imaging the spatial distribution of transgene expression in the lungs with positron emission tomography. <i>Gene Therapy</i> , 2003, 10, 2074-2080.	2.3	24
49	Sigmoidal equation for lung and chest wall volume-pressure curves in acute respiratory failure. <i>Journal of Applied Physiology</i> , 2003, 95, 2064-2071.	1.2	23
50	Alveolar recruitment assessed by positron emission tomography during experimental acute lung injury. <i>Intensive Care Medicine</i> , 2006, 32, 1889-1894.	3.9	23
51	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. <i>Respiratory Care</i> , 2011, 56, 953-960.	0.8	23
52	New physiological insights in ventilation during cardiopulmonary resuscitation. <i>Current Opinion in Critical Care</i> , 2019, 25, 37-44.	1.6	23
53	Hemodynamic effects of extended prone position sessions in ARDS. <i>Annals of Intensive Care</i> , 2018, 8, 120.	2.2	22
54	Comparison of Two Correction Methods for Absolute Values of Esophageal Pressure in Patients With Acute Hypoxemic Respiratory Failure, Mechanically Ventilated in Intensive Care Unit. <i>Respiratory Care</i> , 2012, 57, 2045-51.	0.8	21

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55	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.	2.2	20
56	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.	2.2	20
57	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.	0.4	19
58	Effect of activated protein C on pulmonary blood flow and cytokine production in experimental acute lung injury. <i>Intensive Care Medicine</i> , 2007, 33, 2199-2206.	3.9	19
59	Interest of a simple on-line screening registry for measuring ICU burden related to an influenza pandemic. <i>Critical Care</i> , 2012, 16, R118.	2.5	16
60	Comparison of PET with radioactive microspheres to assess pulmonary blood flow. <i>Journal of Nuclear Medicine</i> , 2002, 43, 1063-71.	2.8	14
61	Quantitative assessment of regional alveolar ventilation and gas volume using ¹³ N-N ₂ washout and PET. <i>Journal of Nuclear Medicine</i> , 2005, 46, 1375-83.	2.8	14
62	Imaging the acute respiratory distress syndrome: past, present and future. <i>Intensive Care Medicine</i> , 2022, 48, 995-1008.	3.9	14
63	In vivo and in vitro detection of a superantigenic toxin Vbeta signature in two forms of streptococcal toxic shock syndrome. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2009, 28, 671-676.	1.3	12
64	Quantitative analysis of acid-base disorders in patients with chronic respiratory failure in stable or unstable respiratory condition. <i>Respiratory Care</i> , 2010, 55, 1453-63.	0.8	12
65	Pericardial and pleural diffusion of voriconazole during disseminated invasive aspergillosis: report of a case with successful outcome. <i>Intensive Care Medicine</i> , 2006, 32, 939-940.	3.9	11
66	Reliability of the nitrogen washin-washout technique to assess end-expiratory lung volume at variable PEEP and tidal volumes. <i>Intensive Care Medicine Experimental</i> , 2014, 2, 10.	0.9	11
67	Assessment of airway closure from deflation lung volume-pressure curve: sigmoidal equation revisited. <i>Intensive Care Medicine</i> , 2006, 32, 894-898.	3.9	10
68	Quantitation of pulmonary transgene expression with PET imaging. <i>Journal of Nuclear Medicine</i> , 2004, 45, 644-54.	2.8	10
69	Effects of Inhaled Fenoterol and Positive End-Expiratory Pressure on the Respiratory Mechanics of Patients with Chronic Obstructive Pulmonary Disease. <i>Canadian Respiratory Journal</i> , 2005, 12, 329-335.	0.8	9
70	Comparison of Alpha 200 and CoughAssist as Intermittent Positive Pressure Breathing Devices: A Bench Study. <i>Respiratory Care</i> , 2012, 57, 1129-1136.	0.8	9
71	Preparation of an intensive care unit in France for the reception of a confirmed case of Ebola virus infection. <i>Anaesthesia, Critical Care & Pain Medicine</i> , 2015, 34, 349-355.	0.6	9
72	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.	1.0	9

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73	Transpulmonary pressures in obese and non-obese COVID-19 ARDS. <i>Annals of Intensive Care</i> , 2020, 10, 129.	2.2	9
74	Repetitive Imaging of Reporter Gene Expression in the Lung. <i>Molecular Imaging</i> , 2003, 2, 342-349.	0.7	8
75	Molecular imaging for pediatric lung diseases. <i>Pediatric Pulmonology</i> , 2004, 37, 286-296.	1.0	7
76	Effect of end-inspiratory plateau pressure duration on driving pressure. <i>Intensive Care Medicine</i> , 2017, 43, 587-589.	3.9	7
77	Assessment of clinical criteria for sepsis "was the cart put before the horse?". <i>Journal of Thoracic Disease</i> , 2016, 8, E816-E818.	0.6	6
78	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.	7.0	6
79	Impact of advance directives on the variability between intensivists in the decisions to forgo life-sustaining treatment. <i>Critical Care</i> , 2020, 24, 672.	2.5	6
80	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.	2.2	6
81	Short- and long-term prognosis of acute critically ill patients with systemic rheumatic diseases. <i>Medicine (United States)</i> , 2021, 100, e26164.	0.4	6
82	Modèles animaux de SDRA. <i>Reanimation: Journal De La Societe De Reanimation De Langue Francaise</i> , 2006, 15, 21-28.	0.1	5
83	Measurement of respiratory system resistance during mechanical ventilation. <i>Intensive Care Medicine</i> , 2007, 33, 1046-1049.	3.9	5
84	Noninvasive Quantitative Assessment of Pulmonary Blood Flow with ¹⁸ F-FDG PET. <i>Journal of Nuclear Medicine</i> , 2013, 54, 1653-1660.	2.8	5
85	Gastric insufflation during cardiopulmonary resuscitation: A study in human cadavers. <i>Resuscitation</i> , 2020, 146, 111-117.	1.3	5
86	Molecular Imaging of Enzyme Function in Lungs. <i>Methods in Enzymology</i> , 2004, 385, 315-333.	0.4	4
87	Viscoelastic properties of lungs and thoracic wall of anesthetized mechanically ventilated piglets. <i>Veterinary Anaesthesia and Analgesia</i> , 2007, 34, 331-338.	0.3	4
88	Lung Segmentation by Cascade Registration. <i>Irbm</i> , 2017, 38, 266-280.	3.7	4
89	Noninvasive quantification of macrophagic lung recruitment during experimental ventilation-induced lung injury. <i>Journal of Applied Physiology</i> , 2019, 127, 546-558.	1.2	4
90	Type I Interferon assessment in 45 minutes using the FilmArray [®] PCR platform in SARS-CoV-2 and other viral infections. <i>European Journal of Immunology</i> , 2021, 51, 989-994.	1.6	4

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91	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.	3.3	4
92	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, .	2.5	4
93	Effects of positive end-expiratory pressure on the sigmoid equation in experimental acute lung injury. <i>Intensive Care Medicine</i> , 2004, 30, 2121-2125.	3.9	3
94	Current ventilatory management of patients with acute lung injury/acute respiratory distress syndrome. <i>Expert Review of Respiratory Medicine</i> , 2008, 2, 119-133.	1.0	3
95	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.	1.7	3
96	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.	1.0	3
97	Pink skin, urine and effluent fluid after cyanide poisoning. <i>Journal of Medical Disorders</i> , 2013, 1, 3.	0.2	3
98	Thrombosis during lepirudin therapy: a case report. <i>Intensive Care Medicine</i> , 2009, 35, 959-960.	3.9	2
99	Cerebral gas arterial embolism complicating bronchial biopsies with a flexible bronchoscope: a case report. <i>Intensive Care Medicine</i> , 2011, 37, 555-556.	3.9	2
100	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. <i>Respiration</i> , 2012, 84, 27-35.	1.2	2
101	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.	0.6	2
102	Measurement of respiratory system resistance during mechanical ventilation. , 2009, , 17-20.		1
103	Nitrogen washout/washin, helium dilution, and computed tomography in the assessment of end-expiratory lung volume. <i>Critical Care</i> , 2013, 17, 453.	2.5	1
104	Panton-Valentine leukocidin-positive <i>Staphylococcus aureus</i> necrotising pneumonia complicating pandemic A(H1N1) influenza infection. <i>BMJ Case Reports</i> , 2013, 2013, bcr2013010227-bcr2013010227.	0.2	1
105	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.	1.0	1
106	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.	0.7	1
107	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.	0.7	1
108	Quantitative Analysis of Acid-Base Disorders in Patients with Acute on Chronic Respiratory Failure and Acute Respiratory Distress Syndrome. A Prospective, One Center Study. <i>The Open Clinical Chemistry Journal</i> , 2008, 1, 27-37.	0.7	1

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109	Imagerie du SDRA. , 2008, , 51-70.		1
110	Improving motionâ€mask segmentation in thoracic CT with multiplanar Uâ€nets. Medical Physics, 2021, , .	1.6	1
111	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
112	On the Randomized Trial of Activated Protein C in Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2009, 179, 172-173.	2.5	0
113	Assessment of fluid responsiveness during prone position in ards. a validation study. Intensive Care Medicine Experimental, 2015, 3, .	0.9	0
114	Lung Recruitment Assessment. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 1275-1276.	2.5	0
115	Noninvasive Treatment of Hypoxemic Respiratory Failure. Critical Care Medicine, 2018, 46, 330-331.	0.4	0
116	A Simple Method to Assess Lung Recruitability at the Bedside for Patients with Acute Respiratory Distress Syndrome. , 2019, , .		0
117	Validation of a novel system to assess end-expiratory lung volume and alveolar recruitment in an ARDS model. Intensive Care Medicine Experimental, 2021, 9, 46.	0.9	0
118	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
119	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
120	What is and how to Manage the Acute Respiratory Distress Syndrome?. The Open Nuclear Medicine Journal, 2010, 2, 72-78.	0.2	0
121	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
122	Measurement of respiratory system resistance during mechanical ventilation. , 2012, , 17-20.		0
123	Cefoxitin: A Neglected Intravenous Betalactam with Interesting Perspectives. Mediterranean Journal of Infection, Microbes and Antimicrobials, 0, , .	0.2	0