

Timothy G Buchman

List of Publications by Citations

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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.

180
papers

11,635
citations

52
h-index

105
g-index

199
ext. papers

13,050
ext. citations

4.4
avg, IF

5.87
L-index

#	Paper	IF	Citations
180	Apoptotic cell death in patients with sepsis, shock, and multiple organ dysfunction. <i>Critical Care Medicine</i> , 1999 , 27, 1230-51	1.4	1014
179	Sepsis-induced apoptosis causes progressive profound depletion of B and CD4+ T lymphocytes in humans. <i>Journal of Immunology</i> , 2001 , 166, 6952-63	5.3	650
178	Genetic markers in sepsis. <i>Journal of the American College of Surgeons</i> , 2001 , 192, 106-17; quiz 145-6	4.4	505
177	High-frequency oscillatory ventilation for acute respiratory distress syndrome in adults: a randomized, controlled trial. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002 , 166, 801-8	10.2	483
176	Guidelines for the selection of anti-infective agents for complicated intra-abdominal infections. <i>Clinical Infectious Diseases</i> , 2003 , 37, 997-1005	11.6	387
175	Uncoupling of biological oscillators: a complementary hypothesis concerning the pathogenesis of multiple organ dysfunction syndrome. <i>Critical Care Medicine</i> , 1996 , 24, 1107-16	1.4	384
174	Prevention of lymphocyte cell death in sepsis improves survival in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 14541-6	11.5	382
173	A meta-analysis of prospective trials comparing percutaneous and surgical tracheostomy in critically ill patients. <i>Chest</i> , 2000 , 118, 1412-8	5.3	348
172	Differential modulation of endotoxin responsiveness by human caspase-12 polymorphisms. <i>Nature</i> , 2004 , 429, 75-9	50.4	344
171	Apoptosis in lymphoid and parenchymal cells during sepsis: findings in normal and T- and B-cell-deficient mice. <i>Critical Care Medicine</i> , 1997 , 25, 1298-307	1.4	292
170	An Interpretable Machine Learning Model for Accurate Prediction of Sepsis in the ICU. <i>Critical Care Medicine</i> , 2018 , 46, 547-553	1.4	277
169	Effect of an education program on decreasing catheter-related bloodstream infections in the surgical intensive care unit. <i>Critical Care Medicine</i> , 2002 , 30, 59-64	1.4	243
168	Inhibition of intestinal epithelial apoptosis and survival in a murine model of pneumonia-induced sepsis. <i>JAMA - Journal of the American Medical Association</i> , 2002 , 287, 1716-21	27.4	210
167	Restriction endonuclease fingerprinting of herpes simplex virus DNA: a novel epidemiological tool applied to a nosocomial outbreak. <i>Journal of Infectious Diseases</i> , 1978 , 138, 488-98	7	208
166	A prospective, randomized study comparing percutaneous with surgical tracheostomy in critically ill patients. <i>Critical Care Medicine</i> , 2001 , 29, 926-30	1.4	200
165	Experimental human endotoxemia increases cardiac regularity: results from a prospective, randomized, crossover trial. <i>Critical Care Medicine</i> , 1996 , 24, 1117-24	1.4	197
164	The community of the self. <i>Nature</i> , 2002 , 420, 246-51	50.4	167

163	Cecal ligation and puncture (CLP) induces apoptosis in thymus, spleen, lung, and gut by an endotoxin and TNF-independent pathway. <i>Shock</i> , 1997 , 7, 247-53	3.4	164
162	Social Norms and Global Environmental Challenges: The Complex Interaction of Behaviors, Values, and Policy. <i>BioScience</i> , 2013 , 63, 164-175	5.7	156
161	Rapid onset of intestinal epithelial and lymphocyte apoptotic cell death in patients with trauma and shock. <i>Critical Care Medicine</i> , 2000 , 28, 3207-17	1.4	155
160	Surgeons, intensivists, and the covenant of care: Administrative models and values affecting care at the end of life. <i>Critical Care Medicine</i> , 2003 , 31, 1551-1559	1.4	147
159	Overexpression of Bcl-2 in the intestinal epithelium improves survival in septic mice. <i>Critical Care Medicine</i> , 2002 , 30, 195-201	1.4	141
158	Relationship between tracheostomy timing and duration of mechanical ventilation in critically ill patients. <i>Critical Care Medicine</i> , 2005 , 33, 2513-20	1.4	136
157	Effects of age on mortality and antibiotic efficacy in cecal ligation and puncture. <i>Shock</i> , 2003 , 19, 310-3	3.4	130
156	Targeted temperature management in critical care: a report and recommendations from five professional societies. <i>Critical Care Medicine</i> , 2011 , 39, 1113-25	1.4	128
155	The heat shock paradox: does NF-kappaB determine cell fate?. <i>FASEB Journal</i> , 2001 , 15, 270-274	0.9	128
154	Inducible nitric oxide synthase (iNOS) gene deficiency increases the mortality of sepsis in mice. <i>Surgery</i> , 1999 , 126, 438-442	3.6	111
153	Heart rate variability in critical illness and critical care. <i>Current Opinion in Critical Care</i> , 2002 , 8, 311-5	3.5	109
152	Implementation of a mandatory checklist of protocols and objectives improves compliance with a wide range of evidence-based intensive care unit practices. <i>Critical Care Medicine</i> , 2009 , 37, 2775-81	1.4	99
151	Effects of aging on the immunopathologic response to sepsis. <i>Critical Care Medicine</i> , 2009 , 37, 1018-23	1.4	92
150	Association between heart rate variability recorded on postoperative day 1 and length of stay in abdominal aortic surgery patients. <i>Critical Care Medicine</i> , 2001 , 29, 1738-43	1.4	92
149	Efficacy and safety of an insulin infusion protocol in a surgical ICU. <i>Journal of the American College of Surgeons</i> , 2006 , 202, 1-9	4.4	91
148	Early antibiotic administration but not antibody therapy directed against IL-6 improves survival in septic mice predicted to die on basis of high IL-6 levels. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 289, R1048-53	3.2	85
147	Sepsis from <i>Pseudomonas aeruginosa</i> pneumonia decreases intestinal proliferation and induces gut epithelial cell cycle arrest. <i>Critical Care Medicine</i> , 2003 , 31, 1630-7	1.4	84
146	Who should manage the dying patient?: Rescue, shame, and the surgical ICU dilemma. <i>Journal of the American College of Surgeons</i> , 2002 , 194, 665-73	4.4	83

145	Antibiotics improve survival in sepsis independent of injury severity but do not change mortality in mice with markedly elevated interleukin 6 levels. <i>Shock</i> , 2004 , 21, 121-5	3.4	81
144	Nonlinear dynamics, complex systems, and the pathobiology of critical illness. <i>Current Opinion in Critical Care</i> , 2004 , 10, 378-82	3.5	78
143	A comparison of statistical and connectionist models for the prediction of chronicity in a surgical intensive care unit. <i>Critical Care Medicine</i> , 1994 , 22, 750-62	1.4	77
142	The frequency and effects of cytochrome P450 (CYP) 2C9 polymorphisms in patients receiving warfarin. <i>Journal of the American College of Surgeons</i> , 2002 , 194, 267-73	4.4	76
141	The impact of bedside behavior on catheter-related bacteremia in the intensive care unit. <i>Archives of Surgery</i> , 2004 , 139, 131-6		71
140	Cytochrome P450 polymorphisms are associated with reduced warfarin dose. <i>Surgery</i> , 2000 , 128, 281-5	3.6	71
139	The impact of a simple, low-cost oral care protocol on ventilator-associated pneumonia rates in a surgical intensive care unit. <i>Journal of Intensive Care Medicine</i> , 2009 , 24, 54-62	3.3	69
138	Cancer causes increased mortality and is associated with altered apoptosis in murine sepsis. <i>Critical Care Medicine</i> , 2010 , 38, 886-93	1.4	67
137	Neutrophil depletion causes a fatal defect in murine pulmonary <i>Staphylococcus aureus</i> clearance. <i>Journal of Surgical Research</i> , 2008 , 150, 278-85	2.5	66
136	Comparison of intravenous/oral ciprofloxacin plus metronidazole versus piperacillin/tazobactam in the treatment of complicated intraabdominal infections. <i>Annals of Surgery</i> , 2000 , 232, 254-62	7.8	65
135	Role of apoptosis in <i>Pseudomonas aeruginosa</i> pneumonia. <i>Science</i> , 2001 , 294, 1783	33.3	62
134	Endothelial cell apoptosis is accelerated by inorganic iron and heat via an oxygen radical dependent mechanism. <i>Surgery</i> , 1997 , 122, 243-53; discussion 254	3.6	57
133	Enterocyte-specific epidermal growth factor prevents barrier dysfunction and improves mortality in murine peritonitis. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 297, G471-9	5.1	56
132	Treatment of hypophosphatemia using a protocol based on patient weight and serum phosphorus level in a surgical intensive care unit. <i>Journal of the American College of Surgeons</i> , 2004 , 198, 198-204	4.4	56
131	Physiologic stability and physiologic state. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1996 , 41, 599-605	9.4	55
130	CD4+ lymphocytes control gut epithelial apoptosis and mediate survival in sepsis. <i>FASEB Journal</i> , 2009 , 23, 1817-25	0.9	53
129	Postoperative abdominal complications in cardiopulmonary bypass patients: a case-controlled study. <i>Annals of Thoracic Surgery</i> , 1995 , 59, 1210-3	2.7	52
128	Surgeons, intensivists, and the covenant of care: administrative models and values affecting care at the end of life. <i>Critical Care Medicine</i> , 2003 , 31, 1263-70	1.4	50

127	Nitric oxide inhibits stress-induced endothelial cell apoptosis. <i>Critical Care Medicine</i> , 1998 , 26, 1500-9	1.4	49
126	Epidermal growth factor treatment decreases mortality and is associated with improved gut integrity in sepsis. <i>Shock</i> , 2008 , 30, 36-42	3.4	48
125	Sepsis gene expression profiling: murine splenic compared with hepatic responses determined by using complementary DNA microarrays. <i>Critical Care Medicine</i> , 2002 , 30, 2711-21	1.4	46
124	Improved extubation rates and earlier liberation from mechanical ventilation with implementation of a daily spontaneous-breathing trial protocol. <i>Journal of the American College of Surgeons</i> , 2008 , 206, 489-95	4.4	44
123	Multicenter implementation of a consensus-developed, evidence-based, spontaneous breathing trial protocol. <i>Critical Care Medicine</i> , 2008 , 36, 2753-62	1.4	43
122	Recovery at the edge of error: debunking the myth of the infallible expert. <i>Journal of Biomedical Informatics</i> , 2011 , 44, 413-24	10.2	42
121	The role of heat shock protein 70 in mediating age-dependent mortality in sepsis. <i>Journal of Immunology</i> , 2011 , 186, 3718-25	5.3	42
120	p53-dependent and -independent pathways of apoptotic cell death in sepsis. <i>Journal of Immunology</i> , 2000 , 164, 3675-80	5.3	42
119	Surgeons, intensivists, and the covenant of care: administrative models and values affecting care at the end of life--Updated. <i>Critical Care Medicine</i> , 2003 , 31, 1551-7; discussion 1557-9	1.4	41
118	Biologically variable ventilation improves gas exchange and respiratory mechanics in a model of severe bronchospasm. <i>Critical Care Medicine</i> , 2007 , 35, 1749-55	1.4	40
117	Injury in the era of genomics. <i>Shock</i> , 2001 , 15, 165-70	3.4	40
116	Stress-induced fractal rearrangement of the endothelial cell cytoskeleton causes apoptosis. <i>Surgery</i> , 1998 , 124, 362-371	3.6	39
115	Pyrrolidine dithiocarbamate activates the heat shock response and thereby induces apoptosis in primed endothelial cells. <i>Shock</i> , 1998 , 10, 1-6	3.4	39
114	In-hospital mortality after cardiac surgery: patient characteristics, timing, and association with postoperative length of intensive care unit and hospital stay. <i>Annals of Thoracic Surgery</i> , 2014 , 97, 1220-37	3.7	37
113	Molecular biology of multiple organ dysfunction syndrome: injury, adaptation, and apoptosis. <i>Surgical Infections</i> , 2000 , 1, 207-13; discussion 214-5	2	37
112	Antibiotics improve survival and alter the inflammatory profile in a murine model of sepsis from <i>Pseudomonas aeruginosa</i> pneumonia. <i>Shock</i> , 2003 , 19, 408-14	3.4	36
111	Genetic research and testing in critical care: surrogates' perspective. <i>Critical Care Medicine</i> , 2006 , 34, 986-94	1.4	35
110	Molecular diagnostics in sepsis: from bedside to bench. <i>Journal of the American College of Surgeons</i> , 2006 , 203, 585-598	4.4	34

109	Age disproportionately increases sepsis-induced apoptosis in the spleen and gut epithelium. <i>Shock</i> , 2004 , 22, 364-8	3.4	34
108	Prevalence and Impact of Unknown Diabetes in the ICU. <i>Critical Care Medicine</i> , 2015 , 43, e541-50	1.4	33
107	Pharmacoepidemiology of QT-interval prolonging drug administration in critically ill patients. <i>Pharmacoepidemiology and Drug Safety</i> , 2008 , 17, 971-81	2.6	33
106	Interleukin-1 receptor antagonist as therapy for inflammatory disorders. <i>Expert Opinion on Biological Therapy</i> , 2001 , 1, 301-8	5.4	33
105	Streptococcus pneumoniae and Pseudomonas aeruginosa pneumonia induce distinct host responses. <i>Critical Care Medicine</i> , 2010 , 38, 223-41	1.4	32
104	In vivo, in vitro, in silico. <i>Critical Care Medicine</i> , 2004 , 32, 2159-60	1.4	31
103	High-dose exogenous iron following cecal ligation and puncture increases mortality rate in mice and is associated with an increase in gut epithelial and splenic apoptosis. <i>Critical Care Medicine</i> , 2004 , 32, 1178-85	1.4	31
102	Association between lymphotoxin-alpha (tumor necrosis factor-beta) intron polymorphism and predisposition to severe sepsis is modified by gender and age. <i>Critical Care Medicine</i> , 2010 , 38, 181-93	1.4	30
101	A new safety event reporting system improves physician reporting in the surgical intensive care unit. <i>Journal of the American College of Surgeons</i> , 2006 , 202, 881-7	4.4	30
100	Mechanisms of decreased intestinal epithelial proliferation and increased apoptosis in murine acute lung injury. <i>Critical Care Medicine</i> , 2005 , 33, 2350-7	1.4	30
99	Induction of translational thermotolerance in liver of thermally stressed rats. <i>FEBS Journal</i> , 1993 , 218, 413-20		30
98	Innovative Interdisciplinary Strategies to Address the Intensivist Shortage. <i>Critical Care Medicine</i> , 2017 , 45, 298-304	1.4	28
97	Effectiveness of Minocycline and Rifampin vs Chlorhexidine and Silver Sulfadiazine-Impregnated Central Venous Catheters in Preventing Central Line-Associated Bloodstream Infection in a High-Volume Academic Intensive Care Unit: A Before and after Trial. <i>Journal of the American College of Surgeons</i> , 2015 , 221, 739-47	4.4	28
96	The turn team: a novel strategy for reducing pressure ulcers in the surgical intensive care unit. <i>Journal of the American College of Surgeons</i> , 2013 , 216, 373-9	4.4	27
95	The relationship between the surgeon and the intensivist in the surgical intensive care unit. <i>Surgical Clinics of North America</i> , 2006 , 86, 1351-7	4	27
94	Multi-scale symbolic entropy analysis provides prognostic prediction in patients receiving extracorporeal life support. <i>Critical Care</i> , 2014 , 18, 548	10.8	26
93	Thiol reducing agents modulate induced apoptosis in porcine endothelial cells. <i>Shock</i> , 1994 , 2, 79-83	3.4	26
92	Tracheostomy protocol: experience with development and potential utility. <i>Critical Care Medicine</i> , 2008 , 36, 1742-8	1.4	25

91	Effect of chlorhexidine/silver sulfadiazine-impregnated central venous catheters in an intensive care unit with a low blood stream infection rate after implementation of an educational program: a before-after trial. <i>Surgical Infections</i> , 2007 , 8, 445-54	2	25
90	Bcl-2 inhibits gut epithelial apoptosis induced by acute lung injury in mice but has no effect on survival. <i>Shock</i> , 2003 , 20, 437-43	3.4	24
89	Morbidity and timing of colostomy closure in trauma patients. <i>Injury</i> , 1993 , 24, 438-40	2.5	24
88	Comparing the information seeking strategies of residents, nurse practitioners, and physician assistants in critical care settings. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2014 , 21, e249-56	8.6	22
87	National estimates of hospitalization charges for the acute care of traumatic brain injuries. <i>Brain Injury</i> , 2003 , 17, 983-90	2.1	21
86	Novel representation of physiologic states during critical illness and recovery. <i>Critical Care</i> , 2010 , 14, 127	10.8	20
85	Generating Signals with Multiscale Time Irreversibility: The Asymmetric Weierstrass Function. <i>Complexity</i> , 2011 , 16, 29-38	1.6	19
84	Is there a role for growth hormone therapy in refractory critical illness?. <i>Current Opinion in Critical Care</i> , 2008 , 14, 438-44	3.5	19
83	Role of CuZn superoxide dismutase in regulating lymphocyte apoptosis during sepsis. <i>Critical Care Medicine</i> , 2000 , 28, 1701-8	1.4	19
82	Heart Rate Variability in Intensive Care. <i>Journal of Intensive Care Medicine</i> , 1998 , 13, 252-265	3.3	18
81	Heat shock-induced cell death in murine microvascular endothelial cells depends on priming with tumor necrosis factor-alpha or interferon-gamma. <i>Shock</i> , 1994 , 2, 320-3	3.4	17
80	Myocardial transcriptional profiles in a murine model of sepsis: evidence for the importance of age. <i>Pediatric Critical Care Medicine</i> , 2008 , 9, 530-5	3	16
79	Families' perceptions of surgical intensive care. <i>Journal of the American College of Surgeons</i> , 2003 , 196, 977-83	4.4	16
78	Examination of non-clinical factors affecting tracheostomy practice in an academic surgical intensive care unit. <i>Critical Care Medicine</i> , 2009 , 37, 3070-8	1.4	15
77	Surgeons and their patients near the end of life. <i>Critical Care Medicine</i> , 2010 , 38, 995-6	1.4	15
76	Reduced red blood cell transfusion in cardiothoracic surgery after implementation of a novel clinical decision support tool. <i>Journal of the American College of Surgeons</i> , 2014 , 219, 1028-36	4.4	14
75	Intestine-specific overexpression of IL-10 improves survival in polymicrobial sepsis. <i>Shock</i> , 2008 , 29, 483-94	3.4	14
74	Toward optimal display of physiologic status in critical care: I. Recreating bedside displays from archived physiologic data. <i>Journal of Critical Care</i> , 2011 , 26, 105.e1-9	4	13

73	Using "off-the-shelf" tools for terabyte-scale waveform recording in intensive care: computer system design, database description and lessons learned. <i>Computer Methods and Programs in Biomedicine</i> , 2011 , 103, 151-60	6.9	13
72	Evaluation of the applicability, efficacy, and safety of a thromboembolic event prophylaxis guideline designed for quality improvement of the traumatically injured patient. <i>Journal of Trauma</i> , 2005 , 58, 731-9		13
71	Hepatic heat shock and acute-phase gene expression are induced simultaneously after celiotomy in the anesthetized pig. <i>Anesthesiology</i> , 1995 , 83, 850-9	4.3	13
70	Using Incentives to Improve Resource Utilization: A Quasi-Experimental Evaluation of an ICU Quality Improvement Program. <i>Critical Care Medicine</i> , 2016 , 44, 162-70	1.4	13
69	Extreme warfarin sensitivity in siblings associated with multiple cytochrome P450 polymorphisms. <i>American Journal of Hematology</i> , 2001 , 67, 144-6	7.1	12
68	Template-directed dye-terminator incorporation with fluorescence polarization detection for analysis of single nucleotide polymorphisms implicated in sepsis. <i>Journal of Molecular Diagnostics</i> , 2002 , 4, 209-15	5.1	12
67	Myocardial infarction as a complication of injury. <i>Journal of the American College of Surgeons</i> , 2000 , 190, 665-70	4.4	12
66	Intensive Care Unit Telemedicine: Innovations and Limitations. <i>Critical Care Clinics</i> , 2019 , 35, 497-509	4.5	11
65	Patient-care time allocation by nurse practitioners and physician assistants in the intensive care unit. <i>Critical Care</i> , 2012 , 16, R27	10.8	11
64	Prescribing patterns of hydrocortisone in septic shock: a single-center experience of how surviving sepsis guidelines are interpreted and translated into bedside practice. <i>Critical Care Medicine</i> , 2013 , 41, 2310-7	1.4	11
63	Implementation of a mandatory checklist of protocols and objectives improves compliance with a wide range of evidence-based intensive care unit practices. <i>Critical Care Medicine</i> , 2009 , 37, 2775-2781	1.4	11
62	Predicting clinical physiology: a Markov chain model of heart rate recovery after spontaneous breathing trials in mechanically ventilated patients. <i>Journal of Critical Care</i> , 2009 , 24, 347-61	4	11
61	Autonomic information flow improves prognostic value of heart rate patterns after abdominal aortic surgery. <i>Journal of Critical Care</i> , 2008 , 23, 255-62	4	11
60	Cardiorespiratory dynamics during transitions between mechanical and spontaneous ventilation in intensive care. <i>Complexity</i> , 2008 , 13, 40-59	1.6	11
59	Iron dysregulation combined with aging prevents sepsis-induced apoptosis. <i>Journal of Surgical Research</i> , 2005 , 128, 37-44	2.5	11
58	Coagulation inhibitors in the treatment of sepsis. <i>Expert Opinion on Investigational Drugs</i> , 2002 , 11, 69-74	5.9	11
57	The price of a miracle. <i>Journal of the American College of Surgeons</i> , 2012 , 214, 25-6	4.4	10
56	Feasibility and economic impact of dedicated hospice inpatient units for terminally ill ICU patients. <i>Critical Care Medicine</i> , 2014 , 42, 1074-80	1.4	10

55	Tumor necrosis factor -308 polymorphism (rs1800629) is associated with mortality and ventilator duration in 1057 Caucasian patients. <i>Cytokine</i> , 2012 , 60, 249-56	4	10
54	Iron overload before cecal ligation and puncture increases mortality. <i>Shock</i> , 2003 , 20, 52-5	3.4	9
53	Random forest modeling can predict infectious complications following trauma laparotomy. <i>Journal of Trauma and Acute Care Surgery</i> , 2019 , 87, 1125-1132	3.3	9
52	Ethical considerations in the collection of genetic data from critically ill patients: what do published studies reveal about potential directions for empirical ethics research?. <i>Pharmacogenomics Journal</i> , 2010 , 10, 77-85	3.5	8
51	Robert Wood Johnson Foundation Office of Promoting Excellence in End-of-Life Care: executive summary of the report from the field. <i>Journal of the American College of Surgeons</i> , 2003 , 196, 807-15	4.4	8
50	Expression of alpha2-macroglobulin by the interaction between hepatocytes and endothelial cells in coculture. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998 , 275, R203-11	3.2	8
49	Physiologic Failure: Multiple Organ Dysfunction Syndrome 2006 , 631-640		8
48	Physiological noise versus white noise to drive a variable ventilator in a porcine model of lung injury. <i>Canadian Journal of Anaesthesia</i> , 2008 , 55, 577-86	3	7
47	Sequence makes a difference: paradoxical effects of stress in vivo. <i>Shock</i> , 2004 , 22, 229-33	3.4	7
46	Shock at the millennium. I. Walter B. Cannon and Alfred Blalock. <i>Shock</i> , 2000 , 13, 497-504	3.4	7
45	Priority queuing models for hospital intensive care units and impacts to severe case patients 2013 , 2013, 841-50	0.7	7
44	Template-directed dye-terminator incorporation with fluorescence polarization detection for analysis of single nucleotide polymorphisms associated with cardiovascular and thromboembolic disease. <i>Thrombosis Research</i> , 2003 , 111, 373-9	8.2	6
43	Factor V Leiden mutation in a patient with warfarin-associated skin necrosis. <i>Surgery</i> , 2000 , 127, 595-6	3.6	6
42	Analysis of Discrepancies Between Pulse Oximetry and Arterial Oxygen Saturation Measurements by Race and Ethnicity and Association With Organ Dysfunction and Mortality. <i>JAMA Network Open</i> , 2021 , 4, e2131674	10.4	6
41	Postreperfusion cardiac arrest and resuscitation during orthotopic liver transplantation: dynamic visualization and analysis of physiologic recordings. <i>Shock</i> , 2012 , 37, 34-8	3.4	5
40	Sedation modulates recognition of novel stimuli and adaptation to regular stimuli in critically ill adults. <i>Critical Care Medicine</i> , 2002 , 30, 609-16	1.4	5
39	Mathematical estimates of recovery after loss of activity: II. Long-range connectivity facilitates rapid functional recovery. <i>Critical Care Medicine</i> , 2008 , 36, 489-94	1.4	4
38	Shock at the millennium II. Walter B. Cannon and Lawrence J. Henderson. <i>Shock</i> , 2001 , 16, 278-84	3.4	4

37	Mammalian liver contains an activity which mimics bacterial chloramphenicol acetyltransferase. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1990 , 1087, 303-8		4
36	Promoting Patient- and Family-Centered Care in the Intensive Care Unit: A Dissemination Project. <i>AACN Advanced Critical Care</i> , 2017 , 28, 155-159	1	3
35	Comparison of circuit patency and exchange rates between 2 different continuous renal replacement therapy machines. <i>Journal of Critical Care</i> , 2014 , 29, 272-7	4	3
34	Sepsis through the eyes of an engineer -- why treatments have succeeded and failed. <i>Critical Reviews in Biomedical Engineering</i> , 2012 , 40, 353-61	1.1	3
33	Prediction of heart rate response to conclusion of the spontaneous breathing trial by fluctuation dissipation theory. <i>Physical Biology</i> , 2013 , 10, 016006	3	3
32	Rapid onset of hepatocyte apoptosis in a patient with trauma. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000 , 49, 542-6	9.4	3
31	Changes in non-linear and time-domain heart rate variability indices between critically ill COVID-19 and all-cause sepsis patients: a retrospective study		3
30	Filtering authentic sepsis arising in the ICU using administrative codes coupled to a SIRS screening protocol. <i>Journal of Critical Care</i> , 2017 , 39, 220-224	4	2
29	Pharmacogenomic biomarkers do not predict response to drotrecogin alfa in patients with severe sepsis. <i>Annals of Intensive Care</i> , 2018 , 8, 16	8.9	2
28	Shock: further studies with particular reference to the effects of hemorrhage. 1934. <i>Archives of Surgery</i> , 2010 , 145, 393-4		2
27	RNAi. <i>Critical Care Medicine</i> , 2005 , 33, S441-3	1.4	2
26	Is heat shock protein-72 responsible for nitric oxide's ability to block stress-induced apoptosis?. <i>Critical Care Medicine</i> , 1999 , 27, 1695	1.4	2
25	From data patterns to biological mechanism in critical illness: the role of engineering. <i>Journal of Critical Care</i> , 2014 , 29, 668	4	1
24	Peaceful rest vs rest in peace. <i>Archives of Surgery</i> , 2011 , 146, 278-9		1
23	Half empty or half full?. <i>Critical Care Medicine</i> , 2010 , 38, 1747-8	1.4	1
22	Achieving the aims of education: curricular decisions in critical care. <i>Critical Care</i> , 2008 , 12, 188	10.8	1
21	Mathematical estimation of recovery after loss of activity: I. Renal failure. <i>Journal of Trauma</i> , 2007 , 63, 232-8		1
20	Critical care: on target. <i>Critical Care Medicine</i> , 2003 , 31, 1003-5	1.4	1

19	Genetic susceptibility to hemorrhagic complications during warfarin therapy. <i>Surgery</i> , 2001 , 129, 645-6	3.6	1
18	Some like it hot. <i>Critical Care Medicine</i> , 1997 , 25, 1636	1.4	1
17	The Coronavirus Disease 2019 Pandemic Impacts Burnout Syndrome Differently Among Multiprofessional Critical Care Clinicians-A Longitudinal Survey Study. <i>Critical Care Medicine</i> , 2021 ,	1.4	1
16	Clinical Implications of Cognitive Complexity in Critical Care 2014 , 423-440		1
15	Battlefield to Bedside: Bringing Precision Medicine to Surgical Care. <i>Journal of the American College of Surgeons</i> , 2018 , 226, 1093-1102	4.4	0
14	Altered Heart Rate Variability Early in ICU Admission Differentiates Critically Ill Coronavirus Disease 2019 and All-Cause Sepsis Patients. 2021 , 3, e0570		0
13	Policies, Populations, Practices, Providers and a Patient. <i>Critical Care Medicine</i> , 2015 , 43, 2273-4	1.4	
12	Modules, modularity and adaptation: Comment on "The emergence of modularity in biological systems" by Dirk M. Lorenz, Alice Jeng, Michael W. Deem. <i>Physics of Life Reviews</i> , 2011 , 8, 163-4; discussion 167-8	2.1	
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