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List of Publications by Year
in descending order

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Version: 2024-02-01

223 papers	14,746 citations	23567 58 h-index	20358 116 g-index
226 all docs	226 docs citations	226 times ranked	8293 citing authors

#	Article	IF	Citations
1	Sublingual microcirculation: comparison between the 415Ânm blue light and 520Ânm green light of sidestream dark field videomicroscopes. Journal of Clinical Monitoring and Computing, 2023, 37, 297-302.	1.6	4
2	Increased Hepatic Microvascular Density, Oxygenation, and VEGF in the Hypertrophic Lobe following Portal Vein Embolization in Rabbits. European Surgical Research, 2022, 63, 9-18.	1.3	0
3	Sublingual Microcirculatory Evaluation of Extracorporeal Hemoadsorption with CytoSorbÂ® in Abdominal Sepsis: A Case Report. Blood Purification, 2022, 51, 634-638.	1.8	2
4	Hydroxyl Ethyl Starch (HES) Preserves Intrarenal Microcirculatory Perfusion Shown by Contrast-Enhanced Ultrasound (Ceus), and Renal Function in a Severe Hemodilution Model in Pigs. Shock, 2022, 57, 457-466.	2.1	4
5	Scoring the capillary leak syndrome: towards an individualized gradation of the vascular barrier injury. Annals of Intensive Care, 2022, 12, 27.	4.6	1
6	Case Report: Early Identification of Subclinical Cardiac Tamponade in a Patient With a Left Ventricular Assist Device by the Use of Sublingual Microcirculatory Imaging: A New Diagnostic Imaging Tool?. Frontiers in Cardiovascular Medicine, 2022, 9, 818063.	2.4	0
7	Morphologic Mapping of the Sublingual Microcirculation in Healthy Volunteers. Journal of Vascular Research, 2022, 59, 199-208.	1.4	5
8	Current practice and evolving concepts in septic shock resuscitation. Intensive Care Medicine, 2022, 48, 148-163.	8.2	55
9	Microcirculatory tissue perfusion during general anaesthesia and noncardiac surgery. European Journal of Anaesthesiology, 2022, 39, 582-590.	1.7	6
10	The effect of blood transfusion on sublingual microcirculation in critically ill patients: A scoping review. Microcirculation, 2021, 28, e12666.	1.8	1
11	Detection of inadequate anastomotic perfusion with handheld vital microscopy in two patients during colorectal surgery. Clinical Journal of Gastroenterology, 2021, 14, 141-145.	0.8	3
12	Microcirculatory Monitoring to Assess Cardiopulmonary Status. , 2021, , 429-441.		1
13	Veno-arterial thrombosis and microcirculation imaging in a patient with COVID-19. Respiratory Medicine Case Reports, 2021, 33, 101428.	0.4	1
14	Capillary Leukocytes, Microaggregates, and the Response to Hypoxemia in the Microcirculation of Coronavirus Disease 2019 Patients. Critical Care Medicine, 2021, 49, 661-670.	0.9	39
15	Effect of norepinephrine challenge on cardiovascular determinants assessed using a mathematical model in septic shock: a physiological study. Annals of Translational Medicine, 2021, 9, 561-561.	1.7	3
16	Microcirculatory Response to Changes in Venoarterial Extracorporeal Membrane Oxygenation Pump Flow: A Prospective Observational Study. Frontiers in Medicine, 2021, 8, 649263.	2.6	4
17	Noninvasive, in vivo assessment of the cervical microcirculation using incident dark field imaging. Microvascular Research, 2021, 135, 104145.	2.5	2
18	Cardio-Pulmonary-Renal Consequences of Severe COVID-19. CardioRenal Medicine, 2021, 11, 133-139.	1.9	10

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19	Association between serosal intestinal microcirculation and blood pressure during major abdominal surgery. Journal of Intensive Medicine, 2021, 1, 59-64.	2.1	3
20	The Relevance of Fluid and Blood Management Using Microcirculatory Parameters in Children Undergoing Craniofacial Surgery. Journal of Craniofacial Surgery, 2021, Publish Ahead of Print, .	0.7	0
21	Kidney Microcirculation as a Target for Innovative Therapies in AKI. Journal of Clinical Medicine, 2021, 10, 4041.	2.4	9
22	Improved Survival beyond 28 Days up to 1 Year after CytoSorb Treatment for Refractory Septic Shock: A Propensity-Weighted Retrospective Survival Analysis. Blood Purification, 2021, 50, 539-545.	1.8	19
23	Endothelial dysfunction: a therapeutic target in bacterial sepsis?. Expert Opinion on Therapeutic Targets, 2021, 25, 733-748.	3.4	12
24	Machine learning using the extreme gradient boosting (XGBoost) algorithm predicts 5-day delta of SOFA score at ICU admission in COVID-19 patients. Journal of Intensive Medicine, 2021, 1, 110-116.	2.1	22
25	Microcirculatory Response to Blood vs. Crystalloid Cardioplegia During Coronary Artery Bypass Grafting With Cardiopulmonary Bypass. Frontiers in Medicine, 2021, 8, 736214.	2.6	2
26	Leukocyte-Endothelium Interaction in the Sublingual Microcirculation of Coronary Artery Bypass Grafting Patients. Journal of Vascular Research, 2020, 57, 8-15.	1.4	3
27	Relationship of relevant factors to P(v-a)CO2/C(a-v)O2 ratio in critically ill patients. Journal of International Medical Research, 2020, 48, 030006051985463.	1.0	0
28	The vaginal microcirculation after prolapse surgery. Neurourology and Urodynamics, 2020, 39, 331-338.	1.5	4
29	Microcirculation: Physiology, Pathophysiology, and Clinical Application. Blood Purification, 2020, 49, 143-150.	1.8	120
30	Effects of Hemoadsorption with Cytosorb during Severe Rhabdomyolysis: Reply to the Letter to the Editor of Daum and Colleagues. Blood Purification, 2020, 50, 1-2.	1.8	3
31	Intraoperative Imaging Techniques to Visualize Hepatic (Micro)Perfusion: An Overview. European Surgical Research, 2020, 61, 2-13.	1.3	4
32	Assessment of sublingual microcirculation in critically ill patients: consensus and debate. Annals of Translational Medicine, 2020, 8, 793-793.	1.7	41
33	Intravenous fluid therapy in the perioperative and critical care setting: Executive summary of the International Fluid Academy (IFA). Annals of Intensive Care, 2020, 10, 64.	4.6	134
34	Novel non-invasive imaging method for baseline risk stratification in cardiac surgery patients. BMJ Case Reports, 2020, 13, e234950.	0.5	0
35	Automated Algorithm Analysis of Sublingual Microcirculation in an International Multicentral Database Identifies Alterations Associated With Disease and Mechanism of Resuscitation. Critical Care Medicine, 2020, 48, e864-e875.	0.9	35
36	Monitoring coherence between the macro and microcirculation in septic shock. Current Opinion in Critical Care, 2020, 26, 267-272.	3.2	19

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37	Successful Reduction of Creatine Kinase and Myoglobin Levels in Severe Rhabdomyolysis Using Extracorporeal Blood Purification (CytoSorbÂ®). Blood Purification, 2020, 49, 743-747.	1.8	33
38	Interpatient heterogeneity in hepatic microvascular blood flow during vascular inflow occlusion (Pringle manoeuvre). Hepatobiliary Surgery and Nutrition, 2020, 9, 271-283.	1.5	5
39	Endothelial Responses in Sepsis. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 361-370.	5.6	292
40	Microvascular Dysfunction in the Critically Ill. Critical Care Clinics, 2020, 36, 323-331.	2.6	15
41	Does monitoring the microcirculation make a difference in sepsis? Outcome?. , 2020, , 256-261.e1.		0
42	Activation of the Nitric Oxide Pathway and Acute Myocardial Infarction Complicated by Acute Kidney Injury. CardioRenal Medicine, 2020, 10, 85-96.	1.9	9
43	Resuscitation with PEGylated carboxyhemoglobin preserves renal cortical oxygenation and improves skeletal muscle microcirculatory flow during endotoxemia. American Journal of Physiology - Renal Physiology, 2020, 318, F1271-F1283.	2.7	6
44	Case Report: Sublingual Microcirculatory Alterations in a Covid-19 Patient With Subcutaneous Emphysema, Venous Thrombosis, and Pneumomediastinum. Frontiers in Medicine, 2020, 7, 624695.	2.6	7
45	Poor perfusion of the microvasculature in peritoneal metastases of ovarian cancer. Clinical and Experimental Metastasis, 2020, 37, 293-304.	3.3	19
46	Automated quantification of tissue red blood cell perfusion as a new resuscitation target. Current Opinion in Critical Care, 2020, 26, 273-280.	3.2	16
47	Hemodilution causes glycocalyx shedding without affecting vascular endothelial barrier permeability in rats. Journal of Clinical and Translational Research, 2020, 5, 243-252.	0.3	7
48	Assessment of hepatic microvascular flow and density in patients undergoing preoperative portal vein embolization. Hpb, 2019, 21, 187-194.	0.3	9
49	Acute Kidney Injury and Fluid Resuscitation in Septic Patients: Are We Protecting the Kidney?. Nephron, 2019, 143, 170-173.	1.8	37
50	Microcirculation in Cardiovascular Diseases. Journal of Cardiothoracic and Vascular Anesthesia, 2019, 33, 3458-3468.	1.3	20
51	Effects of fluid and norepinephrine resuscitation in a sheep model of endotoxin shock and acute kidney injury. Journal of Applied Physiology, 2019, 127, 788-797.	2.5	10
52	Assessing the Microcirculation With Handheld Vital Microscopy in Critically Ill Neonates and Children: Evolution of the Technique and Its Potential for Critical Care. Frontiers in Pediatrics, 2019, 7, 273.	1.9	17
53	The Sublingual Microcirculation Throughout Neonatal and Pediatric Extracorporeal Membrane Oxygenation Treatment: Is It Altered by Systemic Extracorporeal Support?. Frontiers in Pediatrics, 2019, 7, 272.	1.9	4
54	Hemoadsorption with CytoSorb shows a decreased observed versus expected 28-day all-cause mortality in ICU patients with septic shock: a propensity-score-weighted retrospective study. Critical Care, 2019, 23, 317.	5.8	130

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55	Physiology and technology for the ICU in vivo. Critical Care, 2019, 23, 126.	5.8	6
56	Thinking forward: promising but unproven ideas for future intensive care. Critical Care, 2019, 23, 197.	5.8	2
57	MicroTools enables automated quantification of capillary density and red blood cell velocity in handheld vital microscopy. Communications Biology, 2019, 2, 217.	4.4	67
58	Endothelial Dysfunction of the Kidney in Sepsis. , 2019, , 518-524.e3.		1
59	Effects of high PEEP and fluid administration on systemic circulation, pulmonary microcirculation, and alveoli in a canine model. Journal of Applied Physiology, 2019, 127, 40-46.	2.5	8
60	Glycocalyx Degradation Is Independent of Vascular Barrier Permeability Increase in Nontraumatic Hemorrhagic Shock in Rats. Anesthesia and Analgesia, 2019, 129, 598-607.	2.2	39
61	Recruitment of nonâ€perfused sublingual capillaries increases microcirculatory oxygen extraction capacity throughout ascent to 7126Âm. Journal of Physiology, 2019, 597, 2623-2638.	2.9	34
62	Effects of topical estrogen therapy on the vaginal microcirculation in women with vulvovaginal atrophy. Neurourology and Urodynamics, 2019, 38, 1298-1304.	1.5	19
63	Perioperative Quality Initiative consensus statement on the physiology of arterial blood pressure control in perioperative medicine. British Journal of Anaesthesia, 2019, 122, 542-551.	3.4	66
64	Intestinal Mucosal and Serosal Microcirculation at the Planned Anastomosis during Abdominal Surgery. European Surgical Research, 2019, 60, 248-256.	1.3	9
65	Validation of noninvasive focal depth measurements to determine epithelial thickness of the vaginal wall. Menopause, 2019, 26, 1160-1165.	2.0	13
66	Quantitative assessment of liver function using hepatobiliary scintigraphy. Nuclear Medicine Communications, 2019, 40, 720-726.	1.1	4
67	Resuscitation incoherence and dynamic circulation-perfusion coupling in circulatory shock. Chinese Medical Journal, 2019, 132, 1218-1227.	2.3	4
68	Differences in capillary recruitment between cardiac surgery and septic patients after fluid resuscitation. Microvascular Research, 2019, 123, 14-18.	2.5	8
69	Alterations in intestinal serosal microcirculation precipitated by the Pringle manoeuvre. BMJ Case Reports, 2019, 12, e228111.	0.5	5
70	Preoperative right heart hemodynamics predict postoperative acute kidney injury after heart transplantation. Intensive Care Medicine, 2018, 44, 588-597.	8.2	52
71	Second consensus on the assessment of sublingual microcirculation in critically ill patients: results from a task force of the European Society of Intensive Care Medicine. Intensive Care Medicine, 2018, 44, 281-299.	8.2	305
72	Divergent Effects of Hypertonic Fluid Resuscitation on Renal Pathophysiological and Structural Parameters in Rat Model of Lower Body Ischemia/Reperfusion-Induced Sterile Inflammation. Shock, 2018, 50, 655-663.	2.1	6

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73	Model for End-Stage Liver Disease Excluding INR (MELD-XI) score is associated with hemodynamic impairment and predicts mortality in critically ill patients. European Journal of Internal Medicine, 2018, 51, 80-84.	2.2	12
74	Colloids and the Microcirculation. Anesthesia and Analgesia, 2018, 126, 1747-1754.	2.2	27
75	Effect of pneumoperitoneum and steep reverse-Trendelenburg position on mean systemic filling pressure, venous return, and microcirculation during esophagectomy. Journal of Thoracic Disease, 2018, 10, 3399-3408.	1.4	8
76	MicroDAIMON study: Microcirculatory DAIly MONitoring in critically ill patients: a prospective observational study. Annals of Intensive Care, 2018, 8, 64.	4.6	45
77	Patients with chronic mesenteric ischemia have an altered sublingual microcirculation. Clinical and Experimental Gastroenterology, 2018, Volume 11, 405-414.	2.3	5
78	A new complimentary webâ€based tool for manual analysis of microcirculation videos: Validation of the Capillary Mapper against the current gold standard <scp>AVA</scp> 3.2. Microcirculation, 2018, 25, e12505.	1.8	9
79	Dynamic Contrast-Enhanced Ultrasound Identifies Microcirculatory Alterations in Sepsis-Induced Acute Kidney Injury. Critical Care Medicine, 2018, 46, 1284-1292.	0.9	65
80	Intraoperative Incident Dark Field Imaging of the Human Peritoneal Microcirculation. Journal of Vascular Research, 2018, 55, 136-143.	1.4	10
81	Identification and quantification of human microcirculatory leukocytes using handheld video microscopes at the bedside. Journal of Applied Physiology, 2018, 124, 1550-1557.	2.5	24
82	Blood urea nitrogen (BUN) independently predicts mortality in critically ill patients admitted to ICU: A multicenter study. Clinical Hemorheology and Microcirculation, 2018, 69, 123-131.	1.7	33
83	Could resuscitation be based on microcirculation data? Yes. Intensive Care Medicine, 2018, 44, 944-946.	8.2	20
84	Recruitment of sublingual microcirculation using handheld incident dark field imaging as a routine measurement tool during the postoperative de-escalation phaseâ€"a pilot study in post ICU cardiac surgery patients. Perioperative Medicine (London, England), 2018, 7, 18.	1.5	21
85	Particle tracking for the assessment of microcirculatory perfusion. Physiological Measurement, 2017, 38, 358-373.	2.1	3
86	Ultrafiltration rate is an important determinant of microcirculatory alterations during chronic renal replacement therapy. BMC Nephrology, 2017, 18, 71.	1.8	10
87	Understanding elevated Pv-aCO2 gap and Pv-aCO2/Ca-vO2 ratio in venous hyperoxia condition. Journal of Clinical Monitoring and Computing, 2017, 31, 1321-1323.	1.6	9
88	Systemic and microcirculatory effects of blood transfusion in experimental hemorrhagic shock. Intensive Care Medicine Experimental, 2017, 5, 24.	1.9	22
89	Intensive care medicine in 2050: the ICU in vivo. Intensive Care Medicine, 2017, 43, 1700-1702.	8.2	7
90	Assessment of endothelial cell function and physiological microcirculatory reserve by video microscopy using a topical acetylcholine and nitroglycerin challenge. Intensive Care Medicine Experimental, 2017, 5, 26.	1.9	23

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91	Circulating microaggregates during cardiac surgery precedes postoperative stroke. Journal of Thrombosis and Thrombolysis, 2017, 44, 14-18.	2.1	2
92	Videomicroscopic investigation of the microcirculation requires uniform definitions. Physiological Reports, 2017, 5, e13303.	1.7	0
93	A LED-based phosphorimeter for measurement of microcirculatory oxygen pressure. Journal of Applied Physiology, 2017, 122, 307-316.	2.5	4
94	The macro- and microcirculation of the kidney. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2017, 31, 315-329.	4.0	30
95	Mycophenolate mofetil improves renal haemodynamics, microvascular oxygenation, and inflammation in a rat model of supraâ€renal aortic clampingâ€mediated renal ischaemia reperfusion injury. Clinical and Experimental Pharmacology and Physiology, 2017, 44, 294-304.	1.9	13
96	Impact of microcirculatory video quality on the evaluation of sublingual microcirculation in critically ill patients. Journal of Clinical Monitoring and Computing, 2017, 31, 981-988.	1.6	20
97	Functional evaluation of sublingual microcirculation indicates successful weaning from VA-ECMO in cardiogenic shock. Critical Care, 2017, 21, 265.	5.8	58
98	Seven unconfirmed ideas to improve future ICU practice. Critical Care, 2017, 21, 315.	5.8	6
99	Personalized physiological medicine. Critical Care, 2017, 21, 308.	5.8	25
100	Blood Transfusions Correct Anemia and Improve Tissue Oxygenation in Surgical and Critically ill Patients. Turkish Journal of Anaesthesiology and Reanimation, 2017, 45, 119-121.	0.8	4
101	The Endothelium in Sepsis. Shock, 2016, 45, 259-270.	2.1	453
102	Blood transfusion improves renal oxygenation and renal function in sepsis-induced acute kidney injury in rats. Critical Care, 2016, 20, 406.	5.8	32
103	Monitoring microcirculation in critical illness. Current Opinion in Critical Care, 2016, 22, 444-452.	3.2	56
104	Intestinal and sublingual microcirculation are more severely compromised in hemodilution than in hemorrhage. Journal of Applied Physiology, 2016, 120, 1132-1140.	2.5	22
105	Intravenous Fluids in AKI: A Mechanistically Guided Approach. Seminars in Nephrology, 2016, 36, 53-61.	1.6	4
106	Why and when the microcirculation becomes disassociated from the macrocirculation. Intensive Care Medicine, 2016, 42, 1645-1646.	8.2	7
107	Adaptation of the Cutaneous Microcirculation in Preterm Neonates. Microcirculation, 2016, 23, 468-474.	1.8	13
108	Hemodynamic coherence: Its meaning in perioperative and intensive care medicine. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2016, 30, 395-397.	4.0	13

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109	Monitoring microcirculation. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2016, 30, 407-418.	4.0	40
110	Effects of N-acetylcysteine (NAC) supplementation in resuscitation fluids on renal microcirculatory oxygenation, inflammation, and function in a rat model of endotoxemia. Intensive Care Medicine Experimental, 2016, 4, 29.	1.9	17
111	Effects of a human recombinant alkaline phosphatase on renal hemodynamics, oxygenation and inflammation in two models of acute kidney injury. Toxicology and Applied Pharmacology, 2016, 313, 88-96.	2.8	30
112	The response of the microcirculation to mechanical support of the heart in critical illness. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2016, 30, 511-522.	4.0	7
113	Microcirculatory assessment of patients under VA-ECMO. Critical Care, 2016, 20, 344.	5.8	57
114	Sa2021 Patients With Chronic Gastrointestinal Ischemia Have an Altered Sublingual Microcirculation. Gastroenterology, 2016, 150, S431-S432.	1.3	1
115	A comparison of the quality of image acquisition between the incident dark field and sidestream dark field video-microscopes. BMC Medical Imaging, 2016, 16, 10.	2.7	41
116	Focal depth measurements of the vaginal wall: a new method to noninvasively quantify vaginal wall thickness in the diagnosis and treatment of vaginal atrophy. Menopause, 2016, 23, 833-838.	2.0	18
117	Microcirculatory and mitochondrial hypoxia in sepsis, shock, and resuscitation. Journal of Applied Physiology, 2016, 120, 226-235.	2.5	78
118	Changes in labial capillary density on ascent to and descent from high altitude. F1000Research, 2016, 5, 2107.	1.6	10
119	Effects of the Infusion of 4% or 20% Human Serum Albumin on the Skeletal Muscle Microcirculation in Endotoxemic Rats. PLoS ONE, 2016, 11, e0151005.	2.5	17
120	Ascorbic acid improves renal microcirculatory oxygenation in a rat model of renal I/R injury. Journal of Translational Internal Medicine, 2015, 3, 116-125.	2.5	8
121	A few of our favorite unconfirmed ideas. Critical Care, 2015, 19, S1.	5.8	12
122	Hemodynamic coherence and the rationale for monitoring the microcirculation. Critical Care, 2015, 19, S8.	5.8	354
123	The Effects of Arterial Hypertension and Age on the Sublingual Microcirculation of Healthy Volunteers and Outpatients with Cardiovascular Risk Factors. Microcirculation, 2015, 22, 485-492.	1.8	26
124	Fluid therapy and the hypovolemic microcirculation. Current Opinion in Critical Care, 2015, 21, 276-284.	3.2	29
125	Vaginal microcirculation: Non-invasive anatomical examination of the micro-vessel architecture, tortuosity and capillary density. Neurourology and Urodynamics, 2015, 34, 723-729.	1.5	20
126	Plasma Free Hemoglobin and Microcirculatory Response to Fresh or Old Blood Transfusions in Sepsis. PLoS ONE, 2015, 10, e0122655.	2.5	54

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127	International Study on Microcirculatory Shock Occurrence in Acutely Ill Patients*. Critical Care Medicine, 2015, 43, 48-56.	0.9	122
128	Similar Microcirculatory Alterations in Patients with Normodynamic and Hyperdynamic Septic Shock. Annals of the American Thoracic Society, 2015, 13, 240-7.	3.2	33
129	Effects of ketanserin on microcirculatory alterations in septic shock: An open-label pilot study. Journal of Critical Care, 2015, 30, 1156-1162.	2.2	10
130	Cytocam-IDF (incident dark field illumination) imaging for bedside monitoring of the microcirculation. Intensive Care Medicine Experimental, 2015, 3, 40.	1.9	183
131	Haemodialysis Impairs the Human Microcirculation Independent from Macrohemodynamic Parameters. Blood Purification, 2015, 40, 38-44.	1.8	18
132	Direct observation during surgery shows preservation of cerebral microcirculation in patients with traumatic brain injury. Journal of the Neurological Sciences, 2015, 353, 38-43.	0.6	11
133	Microcirculation in Acute and Chronic Kidney Diseases. American Journal of Kidney Diseases, 2015, 66, 1083-1094.	1.9	73
134	The Microcirculation of the Septic Kidney. Seminars in Nephrology, 2015, 35, 75-84.	1.6	44
135	To beta block or not to beta block; that is the question. Critical Care, 2015, 19, 339.	5.8	30
136	The renal microcirculation in sepsis. Nephrology Dialysis Transplantation, 2015, 30, 169-177.	0.7	57
137	Reproducibility of Microvascular Vessel Density Analysis in Sidestream Darkâ€Fieldâ€Derived Images of Healthy Term Newborns. Microcirculation, 2015, 22, 37-43.	1.8	18
138	Oxygenation measurement by multi-wavelength oxygen-dependent phosphorescence and delayed fluorescence: catchment depth and application in intact heart. Journal of Biophotonics, 2015, 8, 615-628.	2.3	3
139	TEMPOL has limited protective effects on renal oxygenation and hemodynamics but reduces kidney damage and inflammation in a rat model of renal ischemia/reperfusion by aortic clamping. Journal of Clinical and Translational Research, 2015, 1, 1-13.	0.3	3
140	Ischemia-Reperfusion Injury and Anesthesia. BioMed Research International, 2014, 2014, 1-3.	1.9	11
141	Dissociation between sublingual and gut microcirculation in the response to a fluid challenge in postoperative patients with abdominal sepsis. Annals of Intensive Care, 2014, 4, 39.	4.6	86
142	Increasing Mean Arterial Blood Pressure and Heart Rate With Catecholaminergic Drugs Does Not Improve the Microcirculation in Children With Congenital Diaphragmatic Hernia. Pediatric Critical Care Medicine, 2014, 15, 343-354.	0.5	19
143	A Unified Theory of Sepsis-Induced Acute Kidney Injury. Shock, 2014, 41, 3-11.	2.1	602
144	The rationale for microcirculatory guided fluid therapy. Current Opinion in Critical Care, 2014, 20, 301-308.	3.2	91

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145	The Central Role of Renal Microcirculatory Dysfunction in the Pathogenesis of Acute Kidney Injury. Nephron Clinical Practice, 2014, 127, 124-128.	2.3	28
146	Assessment of ventilation inhomogeneity during mechanical ventilation using a rapid-response oxygen sensor-based oxygen washout method. Intensive Care Medicine Experimental, 2014, 2, 14.	1.9	4
147	Early microcirculatory impairment during therapeutic hypothermia is associated with poor outcome in post-cardiac arrest children: A prospective observational cohort study. Resuscitation, 2014, 85, 397-404.	3.0	26
148	The case for 0.9% NaCl: is the undefendable, defensible?. Kidney International, 2014, 86, 1087-1095.	5.2	36
149	Factors Affecting Tissue Oxygenation in Erythrocyte Transfusions. Journal of the Turkish Anaesthesiology & Intensive Care Society - JTAICS, 2014, 42, 111-116.	0.1	1
150	Effects of dobutamine on systemic, regional and microcirculatory perfusion parameters in septic shock: a randomized, placebo-controlled, double-blind, crossover study. Intensive Care Medicine, 2013, 39, 1435-1443.	8.2	129
151	Elevated central venous pressure is associated with impairment of microcirculatory blood flow in sepsis: a hypothesis generating post hoc analysis. BMC Anesthesiology, 2013, 13, 17.	1.8	99
152	Towards integrative physiological monitoring of the critically ill: from cardiovascular to microcirculatory and cellular function monitoring at the bedside. Critical Care, 2013, 17, S5.	5.8	26
153	Physiological Biomarkers of Acute Kidney Injury: A Conceptual Approach to Improving Outcomes. Contributions To Nephrology, 2013, 182, 65-81.	1.1	45
154	Why Rudolph's nose is red: observational study. BMJ, The, 2012, 345, e8311-e8311.	6.0	10
155	The effects of conventional extracorporeal circulation versus miniaturized extracorporeal circulation on microcirculation during cardiopulmonary bypass-assisted coronary artery bypass graft surgery. Interactive Cardiovascular and Thoracic Surgery, 2012, 15, 364-370.	1.1	26
156	Comparison of Different Methods for the Calculation of the Microvascular Flow Index. Critical Care Research and Practice, 2012, 2012, 1-6.	1.1	28
157	Acute Effects of Balanced Versus Unbalanced Colloid Resuscitation on Renal Macrocirculatory and Microcirculatory Perfusion During Endotoxemic Shock. Shock, 2012, 37, 205-209.	2.1	23
158	Quantitative assessment of the microcirculation in healthy volunteers and in patients with septic shock*. Critical Care Medicine, 2012, 40, 1443-1448.	0.9	236
159	Red blood cell transfusion compared with gelatin solution and no infusion after cardiac surgery: effect on microvascular perfusion, vascular density, hemoglobin, and oxygen saturation. Transfusion, 2012, 52, 2452-2458.	1.6	33
160	Clinical review: Clinical imaging of the sublingual microcirculation in the critically ill - where do we stand?. Critical Care, 2012, 16, 224.	5.8	78
161	Clinical review: Circulatory shock - an update: a tribute to Professor Max Harry Weil. Critical Care, 2012, 16, 239.	5.8	73
162	Comments on Reinhart et al.: consensus statement of the ESICM task force on colloid volume therapy in critically ill patients. Intensive Care Medicine, 2012, 38, 1556-1557.	8.2	9

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163	Comparison of the Effects of Sevoflurane, Isoflurane, and Desflurane on Microcirculation in Coronary Artery Bypass Graft Surgery. Journal of Cardiothoracic and Vascular Anesthesia, 2012, 26, 791-798.	1.3	35
164	Microcirculation follows macrocirculation in heart and gut in the acute phase of hemorrhagic shock and isovolemic autologous whole blood resuscitation in pigs. Transfusion, 2012, 52, 1552-1559.	1.6	29
165	The role of renal hypoperfusion in development of renal microcirculatory dysfunction in endotoxemic rats: reply to Ji et al.. Intensive Care Medicine, 2012, 38, 336-336.	8.2	1
166	The Pathogenesis of Acute Kidney Injury and the Toxic Triangle of Oxygen, Reactive Oxygen Species and Nitric Oxide. Contributions To Nephrology, 2011, 174, 119-128.	1.1	85
167	The microcirculatory response to compensated hypovolemia in a lower body negative pressure model. Microvascular Research, 2011, 82, 374-380.	2.5	32
168	Quantitative Imaging of Microcirculatory Response During Nitroglycerin-Induced Hypotension. Journal of Cardiothoracic and Vascular Anesthesia, 2011, 25, 140-144.	1.3	12
169	Distinct Alterations in Sublingual Microcirculatory Blood Flow and Hemoglobin Oxygenation in On-Pump and Off-Pump Coronary Artery Bypass Graft Surgery. Journal of Cardiothoracic and Vascular Anesthesia, 2011, 25, 784-790.	1.3	64
170	Persistent low microcirculatory vessel density in nonsurvivors of sepsis in pediatric intensive care*. Critical Care Medicine, 2011, 39, 8-13.	0.9	126
171	Direct observation of human microcirculation during decompressive craniectomy after stroke*. Critical Care Medicine, 2011, 39, 1126-1129.	0.9	49
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