

Klaus U Klein

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

813
citations

516710

16
h-index

526287

27
g-index

74
all docs

74
docs citations

74
times ranked

1190
citing authors

#	ARTICLE	IF	CITATIONS
1	Impaired cerebrovascular autoregulation in patients with severe sepsis and sepsis-associated delirium. <i>Critical Care</i> , 2012, 16, R181.	5.8	108
2	Intermittent Hypoxia Causes Inflammation and Injury to Human Adult Cardiac Myocytes. <i>Anesthesia and Analgesia</i> , 2016, 122, 373-380.	2.2	52
3	Understanding Cellular Redox Homeostasis: A Challenge for Precision Medicine. <i>International Journal of Molecular Sciences</i> , 2022, 23, 106.	4.1	51
4	Inhaled AP301 for treatment of pulmonary edema in mechanically ventilated patients with acute respiratory distress syndrome: a phase IIa randomized placebo-controlled trial. <i>Critical Care</i> , 2017, 21, 194.	5.8	41
5	Tenascin-C promotes chronic pressure overload-induced cardiac dysfunction, hypertrophy and myocardial fibrosis. <i>Journal of Hypertension</i> , 2018, 36, 847-856.	0.5	39
6	Influence of respiratory rate and end-expiratory pressure variation on cyclic alveolar recruitment in an experimental lung injury model. <i>Critical Care</i> , 2012, 16, R8.	5.8	34
7	Hyperoxia Induces Inflammation and Cytotoxicity in Human Adult Cardiac Myocytes. <i>Shock</i> , 2017, 47, 436-444.	2.1	34
8	Laparoscopic inguinal hernia repair does not impair testicular perfusion. <i>Journal of Pediatric Surgery</i> , 2008, 43, 131-135.	1.6	32
9	Intraoperative Monitoring of Cerebral Microcirculation and Oxygenation—A Feasibility Study Using a Novel Photo-Spectrometric Laser-Doppler Flowmetry. <i>Journal of Neurosurgical Anesthesiology</i> , 2010, 22, 38-45.	1.2	30
10	Measurement of Cortical Microcirculation During Intracranial Aneurysm Surgery by Combined Laser-Doppler Flowmetry and Photospectrometry. <i>Neurosurgery</i> , 2011, 69, 391-398.	1.1	29
11	Serial Measurement of Static and Dynamic Cerebrovascular Autoregulation After Brain Injury. <i>Journal of Neurosurgical Anesthesiology</i> , 2011, 23, 41-44.	1.2	26
12	Recent advances in understanding acute respiratory distress syndrome. <i>F1000Research</i> , 2018, 7, 263.	1.6	25
13	Maternal serum mitochondrial DNA (mtDNA) levels are elevated in preeclampsia — A matched case-control study. <i>Pregnancy Hypertension</i> , 2018, 14, 195-199.	1.4	24
14	The Effects of Arterial Carbon Dioxide Partial Pressure and Sevoflurane on Capillary Venous Cerebral Blood Flow and Oxygen Saturation During Craniotomy. <i>Anesthesia and Analgesia</i> , 2009, 109, 199-204.	2.2	21
15	Influence of PEEP on Cerebral Blood Flow and Cerebrovascular Autoregulation in Patients With Acute Respiratory Distress Syndrome. <i>Journal of Neurosurgical Anesthesiology</i> , 2013, 25, 162-167.	1.2	20
16	Investigating Disturbances of Oxygen Homeostasis: From Cellular Mechanisms to the Clinical Practice. <i>Frontiers in Physiology</i> , 2020, 11, 947.	2.8	18
17	Transcranial doppler and near infrared spectroscopy in the perioperative period. <i>Current Opinion in Anaesthesiology</i> , 2013, 26, 543-548.	2.0	17
18	Moderate hyperoxia induces inflammation, apoptosis and necrosis in human umbilical vein endothelial cells. <i>European Journal of Anaesthesiology</i> , 2017, 34, 141-149.	1.7	17

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19	Perioperative neuroprotection. <i>Bailliere's Best Practice and Research in Clinical Anaesthesiology</i> , 2010, 24, 535-549.	4.0	15
20	Systemic PaO ₂ Oscillations Cause Mild Brain Injury in a Pig Model. <i>Critical Care Medicine</i> , 2016, 44, e253-e263.	0.9	14
21	Argon Preconditioning Protects Airway Epithelial Cells against Hydrogen Peroxide-Induced Oxidative Stress. <i>European Surgical Research</i> , 2016, 57, 252-262.	1.3	13
22	Assessment of Regional Ventilation Distribution: Comparison of Vibration Response Imaging (VRI) with Electrical Impedance Tomography (EIT). <i>PLoS ONE</i> , 2014, 9, e86638.	2.5	13
23	Cerebrovascular autoregulation in critically ill patients during continuous hemodialysis. <i>Canadian Journal of Anaesthesia</i> , 2013, 60, 564-569.	1.6	12
24	Pretreatment With Argon Protects Human Cardiac Myocyte-Like Progenitor Cells from Oxygen Glucose Deprivation-Induced Cell Death by Activation of AKT and Differential Regulation of Mapkinases. <i>Shock</i> , 2018, 49, 556-563.	2.1	11
25	Brief High Oxygen Concentration Induces Oxidative Stress in Leukocytes and Platelets: A Randomized Cross-over Pilot Study in Healthy Male Volunteers. <i>Shock</i> , 2021, 56, 384-395.	2.1	11
26	Oxygen conditions oscillating between hypoxia and hyperoxia induce different effects in the pulmonary endothelium compared to constant oxygen conditions. <i>Physiological Reports</i> , 2021, 9, e14590.	1.7	11
27	A Novel Technique for Monitoring of Fast Variations in Brain Oxygen Tension Using an Uncoated Fluorescence Quenching Probe (Foxy AL-300). <i>Journal of Neurosurgical Anesthesiology</i> , 2011, 23, 341-346.	1.2	10
28	Differences in Stem Cell Processing Lead to Distinct Secretomes Secretionâ€”Implications for Differential Results of Previous Clinical Trials of Stem Cell Therapy for Myocardial Infarction. <i>Biotechnology Journal</i> , 2017, 12, 1600732.	3.5	9
29	PO ₂ oscillations induce lung injury and inflammation. <i>Critical Care</i> , 2019, 23, 102.	5.8	9
30	Real-time in-vivo imaging of pulmonary capillary perfusion using probe-based confocal laser scanning endomicroscopy in pigs. <i>European Journal of Anaesthesiology</i> , 2015, 32, 392-399.	1.7	8
31	Argon preconditioning enhances postischaemic cardiac functional recovery following cardioplegic arrest and global cold ischaemiaâ€”. <i>European Journal of Cardio-thoracic Surgery</i> , 2018, 54, 539-546.	1.4	8
32	Intermittent Hypoxia Activates Duration-Dependent Protective and Injurious Mechanisms in Mouse Lung Endothelial Cells. <i>Frontiers in Physiology</i> , 2018, 9, 1754.	2.8	8
33	Multi Frequency Phase Fluorimetry (MFPF) for Oxygen Partial Pressure Measurement: Ex Vivo Validation by Polarographic Clark-Type Electrode. <i>PLoS ONE</i> , 2013, 8, e60591.	2.5	7
34	Increased basic fibroblast growth factor release and proliferation in xenotransplanted squamous cell carcinoma after combined irradiation/anti-vascular endothelial growth factor treatment. <i>Oncology Reports</i> , 2012, 27, 1573-9.	2.6	6
35	Cerebral microemboli during extracorporeal life support: a single-centre cohort study. <i>European Journal of Cardio-thoracic Surgery</i> , 2021, 61, 172-179.	1.4	6
36	Pulmonary Edema and Prolonged Awakening after Nasal Naphazoline Application in a Transspenoidal Hypophysectomy Patient. <i>Journal of Neurosurgical Anesthesiology</i> , 2010, 22, 269.	1.2	5

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37	Oxygen-Dependent Changes in the N-Glycome of Murine Pulmonary Endothelial Cells. <i>Antioxidants</i> , 2021, 10, 1947.	5.1	4
38	Cerebral Gaseous Microemboli are Detectable During Continuous Venovenous Hemodialysis in Critically Ill Patients: An Observational Pilot Study. <i>Journal of Neurosurgical Anesthesiology</i> , 2017, 29, 236-242.	1.2	3
39	Sevoflurane-induced reduction of bispectral index does not affect human cerebral microcirculation. <i>European Journal of Anaesthesiology</i> , 2016, 33, 152-154.	1.7	1
40	Heart rate variability analysis as a possible predictor of perioperative risk in patients undergoing general surgery. , 2018, , .		1
41	Stay Tuned in Neuroanesthesia Using RSS-Feeds. <i>Journal of Neurosurgical Anesthesiology</i> , 2010, 22, 372.	1.2	0
42	Case report of a cervical intraspinal misplacement of a central venous line. <i>Journal of Anesthesia</i> , 2011, 25, 939-941.	1.7	0
43	Stay Tuned With the Literature. <i>Journal of Neurosurgical Anesthesiology</i> , 2013, 25, 90.	1.2	0
44	Perioperative Evaluation and Care of Patients With Mild to Moderate Cerebrovascular Disease: It's Time to Develop Treatment Guidelines!. <i>Journal of Neurosurgical Anesthesiology</i> , 2017, 29, 189-190.	1.2	0