# Michaela C Kollisch-Singule

List of Publications by Year
in descending order



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|---|---|---|---|
| 36 papers | 747 citations | 566801 15 h-index | 552369 26 g-index |
| 37 all docs | 37 docs citations | 37 times ranked | 488 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The 30-year evolution of airway pressure release ventilation (APRV). Intensive Care Medicine Experimental, 2016, 4, 11. | 0.9 | 81 |
| 2 | Mechanical Breath Profile of Airway Pressure Release Ventilation. JAMA Surgery, 2014, 149, 1138. | 2.2 | 72 |
| 3 | Airway Pressure Release Ventilation Reduces Conducting Airway Micro-Strain in Lung Injury. Journal of the American College of Surgeons, 2014, 219, 968-976. | 0.2 | 58 |
| 4 | Acute lung injury: how to stabilize a broken lung. Critical Care, 2018, 22, 136. | 2.5 | 53 |
| 5 | Prevention and treatment of acute lung injury with time-controlled adaptive ventilation: physiologically informed modification of airway pressure release ventilation. Annals of Intensive Care, 2020, 10, 3. | 2.2 | 53 |
| 6 | Effect of Airway Pressure Release Ventilation on Dynamic Alveolar Heterogeneity. JAMA Surgery, 2016, 151, 64. | 2.2 | 49 |
| 7 | The effects of airway pressure release ventilation on respiratory mechanics in extrapulmonary lung injury. Intensive Care Medicine Experimental, 2015, 3, 35. | 0.9 | 42 |
| 8 | Predicting the response of the injured lung to the mechanical breath profile. Journal of Applied Physiology, 2015, 118, 932-940. | 1.2 | 40 |
| 9 | The role of high airway pressure and dynamic strain on ventilator-induced lung injury in a heterogeneous acute lung injury model. Intensive Care Medicine Experimental, 2017, 5, 25. | 0.9 | 38 |
| 10 | Physiology in Medicine: Understanding dynamic alveolar physiology to minimize ventilator-induced lung injury. Journal of Applied Physiology, 2017, 122, 1516-1522. | 1.2 | 37 |
| 11 | A Physiologically Informed Strategy to Effectively Open, Stabilize, and Protect the Acutely Injured Lung. Frontiers in Physiology, 2020, 11, 227. | 1.3 | 32 |
| 12 | Electroporation-Mediated Gene Delivery of Na+,K+-ATPase, and ENaC Subunits to the Lung Attenuates Acute Respiratory Distress Syndrome in a Two-Hit Porcine Model. Shock, 2015, 43, 16-23. | 1.0 | 25 |
| 13 | Excessive Extracellular ATP Desensitizes P2Y2 and P2X4 ATP Receptors Provoking Surfactant Impairment Ending in Ventilation-Induced Lung Injury. International Journal of Molecular Sciences, 2018, 19, 1185. | 1.8 | 22 |
| 14 | The time-controlled adaptive ventilation protocol: mechanistic approach to reducing ventilator-induced lung injury. European Respiratory Review, 2019, 28, 180126. | 3.0 | 21 |
| 15 | Alveolar instability (atelectrauma) is not identified by arterial oxygenation predisposing the development of an occult ventilator-induced lung injury. Intensive Care Medicine Experimental, 2015, 3, 54. | 0.9 | 19 |
| 16 | Limiting ventilator-associated lung injury in a preterm porcine neonatal model. Journal of Pediatric Surgery, 2017, 52, 50-55. | 0.8 | 19 |
| 17 | Enteral administration of bacteria fermented formula in newborn piglets: A high fidelity model for necrotizing enterocolitis (NEC). PLoS ONE, 2018, 13, e0201172. | 1.1 | 19 |
| 18 | Determining the light scattering and absorption parameters from forward-directed flux measurements in cardiac tissue. Journal of Biomedical Optics, 2017, 22, 076009. | 1.4 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Preemptive mechanical ventilation based on dynamic physiology in the alveolar microenvironment: Novel considerations of time-dependent properties of the respiratory system. Journal of Trauma and Acute Care Surgery, 2018, 85, 1081-1091. | 1.1 | 13 |
| 20 | Looking beyond macroventilatory parameters and rethinking ventilator-induced lung injury. Journal of Applied Physiology, 2018, 124, 1214-1218. | 1.2 | 12 |
| 21 | Preemptive mechanical ventilation can block progressive acute lung injury. World Journal of Critical Care Medicine, 2016, 5, 74. | 0.8 | 10 |
| 22 | Mechanical Ventilation Lessons Learned From Alveolar Micromechanics. Frontiers in Physiology, 2020, 11, 233. | 1.3 | 9 |
| 23 | Last Word on Viewpoint: Looking beyond macrovenitlatory parameters and rethinking ventilator-induced lung injury. Journal of Applied Physiology, 2018, 124, 1220-1221. | 1.2 | 2 |
| 24 | Mechanical Ventilation in Pediatric and Neonatal Patients. Frontiers in Physiology, 2021, 12, 805620. | 1.3 | 2 |
| 25 | A Ventilator Mode Cannot Set Itself, Nor Can It Be Solely Responsible for Outcomes*. Critical Care Medicine, 2022, 50, 695-699. | 0.4 | 2 |
| 26 | Assessment of Heterogeneity in Lung Structure and Function During Mechanical Ventilation: A Review of Methodologies. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2022, , . | 0.3 | 2 |
| 27 | Alveolar Overdistension Does Not Occur Even at Very High Airway Pressure. FASEB Journal, 2015, 29, 1016.1. | 0.2 | 1 |
| 28 | Nano-chemically Modified Tetracycline-3 (nCMT-3) Attenuates Acute Lung Injury via Blocking sTREM-1 Release and NLRP3 Inflammasome Activation. Shock, 2022, 57, 749-758. | 1.0 | 1 |
| 29 | Monocyte Levels Differ Between Diabetic and Non-Diabetic Patients With Peripheral Arterial Disease After Lower Extremity Revascularization. Journal of Surgical Research, 2013, 179, 337. | 0.8 | 0 |
| 30 | 712. Critical Care Medicine, 2014, 42, A1531. | 0.4 | 0 |
| 31 | 693. Critical Care Medicine, 2015, 43, 175. | 0.4 | 0 |
| 32 | Failure to Disclose Conflicts of Interest. JAMA Surgery, 2016, 151, 1190. | 2.2 | 0 |
| 33 | 1008: LOW TIDAL VOLUME DOES NOT ALWAYS REDUCE LUNG INJURY. Critical Care Medicine, 2016, 44, 328-328. | 0.4 | 0 |
| 34 | Sustained Elevation in Monocyte Levels in Diabetic Patients after Infra- Inguinal Revascularization. Journal of Vascular and Endovascular Surgery, 2018, 01, . | 0.1 | 0 |
| 35 | Reply to Drs. Monjezi and Jamaati: Dynamic alveolar mechanics are more than a soap bubble on a capillary tube. Journal of Applied Physiology, 2018, 124, 525-525. | 1.2 | 0 |
| 36 | Cervical Lymph Node Biopsy. , 2019, , 379-380. | | 0 |