

Simon Rauch

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

797
citations

687220

13
h-index

552653

26
g-index

50
all docs

50
docs citations

50
times ranked

758
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | BNT162b2 vaccination enhances interferon-JAK-STAT-regulated antiviral programs in COVID-19 patients infected with the SARS-CoV-2 Beta variant. <i>Communications Medicine</i> , 2022, 2, . | 1.9 | 18 |
| 2 | Avalanche survival depends on the time of day of the accident: A retrospective observational study. <i>Resuscitation</i> , 2022, 174, 47-52. | 1.3 | 4 |
| 3 | Modulation of Hb-O ₂ affinity to improve hypoxemia in COVID-19 patients. <i>Clinical Nutrition</i> , 2021, 40, 38-39. | 2.3 | 26 |
| 4 | Severe traumatic brain injury and hypotension is a frequent and lethal combination in multiple trauma patients in mountain areas – an analysis of the prospective international Alpine Trauma Registry. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2021, 29, 61. | 1.1 | 8 |
| 5 | Plasma volume contraction reduces atrial natriuretic peptide after four days of hypobaric hypoxia exposure. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 320, R526-R531. | 0.9 | 4 |
| 6 | Effect of Wearing Personal Protective Equipment (PPE) on CPR Quality in Times of the COVID-19 Pandemic – A Simulation, Randomised Crossover Trial. <i>Journal of Clinical Medicine</i> , 2021, 10, 1728. | 1.0 | 19 |
| 7 | Bioelectrical Impedance Vector Analysis: A Valuable Tool to Monitor Daily Body Hydration Dynamics at Altitude. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5455. | 1.2 | 3 |
| 8 | Guidelines for Mountain Rescue During the COVID-19 Pandemic: Official Guidelines of the International Commission for Alpine Rescue. <i>High Altitude Medicine and Biology</i> , 2021, 22, 128-141. | 0.5 | 5 |
| 9 | Incidence and challenges of helicopter emergency medical service (HEMS) rescue missions with helicopter hoist operations: analysis of 11,228 daytime and nighttime missions in Switzerland. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2021, 29, 92. | 1.1 | 13 |
| 10 | Perioperative Hypothermia – A Narrative Review. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8749. | 1.2 | 46 |
| 11 | Crevasse accidents in the Swiss Alps Epidemiology and mortality of 405 victims of crevasse accidents from 2010 to 2020. <i>Injury</i> , 2021, , . | 0.7 | 2 |
| 12 | On-Site Medical Management of Avalanche Victims – A Narrative Review. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 10234. | 1.2 | 6 |
| 13 | COVID-19 Pandemic in Mountainous Areas: Impact, Mitigation Strategies, and New Technologies in Search and Rescue Operations. <i>High Altitude Medicine and Biology</i> , 2021, 22, 335-341. | 0.5 | 2 |
| 14 | Changes in Factors Regulating Serum Sodium Homeostasis During Two Ultra-Endurance Mountain Races of Different Distances: 69km vs. 121km. <i>Frontiers in Physiology</i> , 2021, 12, 764694. | 1.3 | 4 |
| 15 | Venous Pooling in Suspension Syndrome Assessed with Ultrasound. <i>Wilderness and Environmental Medicine</i> , 2020, 31, 204-208. | 0.4 | 3 |
| 16 | Can drones improve survival rates in mountain areas, providing automated external defibrillators?. <i>Resuscitation</i> , 2020, 146, 277-278. | 1.3 | 7 |
| 17 | Canyoning Accidents in Austria from 2005 to 2018. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 102. | 1.2 | 12 |
| 18 | Lung Ultrasound and Respiratory Pathophysiology in Mechanically Ventilated COVID-19 Patients – an Observational Trial. <i>SN Comprehensive Clinical Medicine</i> , 2020, 2, 1970-1977. | 0.3 | 14 |

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|----|--|-----|-----------|
| 19 | Mechanical chest compression devices in the helicopter emergency medical service in Switzerland. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2020, 28, 71. | 1.1 | 8 |
| 20 | Rock Climbing Emergencies in the Austrian Alps: Injury Patterns, Risk Analysis and Preventive Measures. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7596. | 1.2 | 15 |
| 21 | Endothelial function and shear stress in hypobaric hypoxia: time course and impact of plasma volume expansion in men. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H980-H994. | 1.5 | 14 |
| 22 | Reply - Letter to the editor - Nutritional interventions to modulate haemoglobin-oxygen affinity in COVID-19 patients. <i>Clinical Nutrition</i> , 2020, 39, 3842. | 2.3 | 4 |
| 23 | To compare the incomparable: COVID-19 pneumonia and high-altitude disease. <i>European Respiratory Journal</i> , 2020, 55, 2001362. | 3.1 | 14 |
| 24 | Climbing Accidentsâ€™ Prospective Data Analysis from the International Alpine Trauma Registry and Systematic Review of the Literature. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 203. | 1.2 | 25 |
| 25 | Performance Determinants in Short (68 km) and Long (121 km) Mountain Ultra-Marathon Races. <i>Sportverletzung-Sportschaden</i> , 2020, 34, 79-83. | 0.6 | 7 |
| 26 | Right ventricular myopericarditis in COVID-19: a call for regular echocardiography. <i>Minerva Anestesiologica</i> , 2020, 86, 1253-1254. | 0.6 | 4 |
| 27 | In reply:. <i>Annals of Emergency Medicine</i> , 2019, 74, 168. | 0.3 | 0 |
| 28 | Sudden Cardiac Arrest and Cardiopulmonary Resuscitation with Automated External Defibrillator in the Austrian Mountains: A Retrospective Study. <i>High Altitude Medicine and Biology</i> , 2019, 20, 392-398. | 0.5 | 7 |
| 29 | The integration of prehospital standard operating procedures and in-hospital HOPE score for management of hypothermic patients in cardiac arrest. <i>Resuscitation</i> , 2019, 141, 212-213. | 1.3 | 5 |
| 30 | The importance of pre-hospital interventions for prevention and management of witnessed hypothermic cardiac arrest. <i>Resuscitation</i> , 2019, 140, 217-218. | 1.3 | 2 |
| 31 | Suspension syndrome: a potentially fatal vagally mediated circulatory collapseâ€™ an experimental randomized crossover trial. <i>European Journal of Applied Physiology</i> , 2019, 119, 1353-1365. | 1.2 | 13 |
| 32 | Challenges of helicopter mountain rescue missions by human external cargo: need for physicians onsite and comprehensive training. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2019, 27, 17. | 1.1 | 20 |
| 33 | Hypothermic Cardiac Arrest With Full Neurologic Recovery After Approximately Nine Hours of Cardiopulmonary Resuscitation: Management and Possible Complications. <i>Annals of Emergency Medicine</i> , 2019, 73, 52-57. | 0.3 | 25 |
| 34 | Pre-hospital times and clinical characteristics of severe trauma patients: A comparison between mountain and urban/suburban areas. <i>American Journal of Emergency Medicine</i> , 2018, 36, 1749-1753. | 0.7 | 25 |
| 35 | Advanced airway management in hoist and longline operations in mountain HEMS â€™ considerations in austere environments: a narrative review This review is endorsed by the International Commission for Mountain Emergency Medicine (ICAR MEDCOM). <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> . 2018. 26, 23. | 1.1 | 23 |
| 36 | Implementation of a mechanical CPR device in a physician staffed HEMS â€™ a prospective observational study. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2018, 26, 36. | 1.1 | 10 |

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|----|---|-----|-----------|
| 37 | Pre-operative evaluation of adults undergoing elective noncardiac surgery. <i>European Journal of Anaesthesiology</i> , 2018, 35, 407-465. | 0.7 | 268 |
| 38 | Violet Code: From "Stay and Play" to the new concept "Stay Not Much and Run!" An ECLS OHCA pilot study by Helicopter Emergencies Medical Service. <i>Resuscitation</i> , 2018, 130, e4. | 1.3 | 1 |
| 39 | Lightning accidents in the Austrian alps " a 10-year retrospective nationwide analysis. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2018, 26, 74. | 1.1 | 17 |
| 40 | Indoor accidental hypothermia in the elderly: an emerging lethal entity in the 21st century. <i>Emergency Medicine Journal</i> , 2018, 35, emermed-2018-207804. | 0.4 | 5 |
| 41 | Frostbite Injuries in the Austrian Alps: A Retrospective 11-Year National Registry Study. <i>High Altitude Medicine and Biology</i> , 2018, 19, 316-320. | 0.5 | 13 |
| 42 | Physician staffed helicopter emergency medical systems can provide advanced trauma life support in mountainous and remote areas. <i>Injury</i> , 2017, 48, 20-25. | 0.7 | 30 |
| 43 | Feasibility of abiraterone acetate treatment in patients with metastatic castration-resistant prostate cancer and atrial fibrillation. <i>Prostate International</i> , 2016, 4, 54-55. | 1.2 | 0 |
| 44 | Cooling rate for triage decisions should exclude post-extrication cooling in avalanche victims. <i>Resuscitation</i> , 2015, 94, e3. | 1.3 | 6 |
| 45 | Impact of three-dimensional transesophageal echocardiography on prosthesis sizing for transcatheter aortic valve implantation. <i>Catheterization and Cardiovascular Interventions</i> , 2012, 80, 956-963. | 0.7 | 37 |