Hermann Brugger

List of Publications by Year
in descending order

125 papers	6,700 citations	136740 32 h-index	66788 78 g-index
126 all docs	126 docs citations	126 times ranked	4389 citing authors

#	Article	IF	Citations
1	Simulated Acute Hypobaric Hypoxia Effects on Cognition in Helicopter Emergency Medical Service Personnel â€“ A Randomized, Controlled, Single-Blind, Crossover Trial. Human Factors, 2024, 66, 404-423.	2.1	3
2	Extracorporeal Life Support in Accidental Hypothermia with Cardiac Arrestâ€”A Narrative Review. ASAIO Journal, 2022, 68, 153-162.	0.9	24
3	Accidental Hypothermia: 2021 Update. International Journal of Environmental Research and Public Health, 2022, 19, 501.	1.2	63
4	Induced Hypothermia as Cold as 3Â°C in Humans: Forgotten Cases Rediscovered. High Altitude Medicine and Biology, 2022, 23, 105-113.	0.5	4
5	Prevention of Hypothermia in the Aftermath of Natural Disasters in Areas at Risk of Avalanches, Earthquakes, Tsunamis and Floods. International Journal of Environmental Research and Public Health, 2022, 19, 1098.	1.2	11
6	Low Ambient Temperature Exposition Impairs the Accuracy of a Non-invasive Heat-Flux Thermometer. Frontiers in Physiology, 2022, 13, 830059.	1.3	1
7	Hypothermia Induced Impairment of Platelets: Assessment With Multiplate vs. ROTEMâ€”An In Vitro Study. Frontiers in Physiology, 2022, 13, 852182.	1.3	7
8	Avalanche survival depends on the time of day of the accident: A retrospective observational study. Resuscitation, 2022, 174, 47-52.	1.3	4
9	Effects of hypothermia, hypoxia, and hypercapnia on brain oxygenation and hemodynamic parameters during simulated avalanche burial: a porcine study. Journal of Applied Physiology, 2021, 130, 237-244.	1.2	7
10	Hypoxia and hypercapnia effects on cerebral oxygen saturation in avalanche burial: A pilot human experimental study. Resuscitation, 2021, 158, 175-182.	1.3	18
11	Reply to letter: Adaptation to the 2017 ICAR MEDCOM Avalanche Victim Resuscitation Checklist. Resuscitation, 2021, 160, 66-67.	1.3	0
12	Extreme Cooling Rates in Avalanche Victims: Case Report and Narrative Review. High Altitude Medicine and Biology, 2021, 22, 235-240.	0.5	17
13	Severe traumatic brain injury and hypotension is a frequent and lethal combination in multiple trauma patients in mountain areas â€“ an analysis of the prospective international Alpine Trauma Registry. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2021, 29, 61.	1.1	8
14	European Resuscitation Council Guidelines 2021: Cardiac arrest in special circumstances. Resuscitation, 2021, 161, 152-219.	1.3	364
15	Plasma volume contraction reduces atrial natriuretic peptide after four days of hypobaric hypoxia exposure. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 320, R526-R531.	0.9	4
16	Effects of Climate Change on Avalanche Accidents and Survival. Frontiers in Physiology, 2021, 12, 639433.	1.3	27
17	A Prospective Evaluation of the Acute Effects of High Altitude on Cognitive and Physiological Functions in Lowlanders. Frontiers in Physiology, 2021, 12, 670278.	1.3	18
18	Bioelectrical Impedance Vector Analysis: A Valuable Tool to Monitor Daily Body Hydration Dynamics at Altitude. International Journal of Environmental Research and Public Health, 2021, 18, 5455.	1.2	3

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19	Clinical staging of accidental hypothermia: The Revised Swiss System. Resuscitation, 2021, 162, 182-187.	1.3	43
20	Assessment of Psychotic Symptoms in Individuals Exposed to Very High or Extreme Altitude: A Field Study. High Altitude Medicine and Biology, 2021, 22, 369-378.	0.5	5
21	Highâ€throughput determination of oxygen dissociation curves in a microplate readerâ€"A novel, quantitative approach. Physiological Reports, 2021, 9, e14995.	0.7	6
22	Reply to: Revised Swiss System for clinical staging of accidental hypothermia â€“ At which core temperatures are patients at high risk of cardiac arrest?. Resuscitation, 2021, 165, 186-187.	1.3	1
23	On-Site Medical Management of Avalanche Victimsâ€"A Narrative Review. International Journal of Environmental Research and Public Health, 2021, 18, 10234.	1.2	6
24	CPR with restricted patient access using alternative rescuer positions: a randomised cross-over manikin study simulating the CPR scenario after avalanche burial. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2021, 29, 129.	1.1	6
25	COVID-19 Pandemic in Mountainous Areas: Impact, Mitigation Strategies, and New Technologies in Search and Rescue Operations. High Altitude Medicine and Biology, 2021, 22, 335-341.	0.5	2
26	Long-Term Sequelae of Frostbiteâ€"A Scoping Review. International Journal of Environmental Research and Public Health, 2021, 18, 9655.	1.2	27
27	Is there any reason for prone cardiopulmonary resuscitation in avalanche victims?. Resuscitation, 2021, 167, 198-199.	1.3	1
28	Are mobile ECMO teams necessary to treat severe accidental hypothermia?. Resuscitation, 2021, 158, 301-302.	1.3	1
29	Resuscitation of an Unconscious Victim of Accidental Hypothermia in 1805. Wilderness and Environmental Medicine, 2021, 32, 548-553.	0.4	0
30	Effect of Acute Exposure to Altitude on the Quality of Chest Compressionâ€Only Cardiopulmonary Resuscitation in Helicopter Emergency Medical Services Personnel: A Randomized, Controlled, Singleâ€Blind Crossover Trial. Journal of the American Heart Association, 2021, 10, e021090.	1.6	7
31	Effects of Carbon Dioxide and Temperature on the Oxygen-Hemoglobin Dissociation Curve of Human Blood: Implications for Avalanche Victims. Frontiers in Medicine, 2021, 8, 808025.	1.2	4
32	Cerebral Autoregulation Is Impaired During Deep Hypothermiaâ€"A Porcine Multimodal Neuromonitoring Study. Therapeutic Hypothermia and Temperature Management, 2020, 10, 122-127.	0.3	11
33	Venous Pooling in Suspension Syndrome Assessed with Ultrasound. Wilderness and Environmental Medicine, 2020, 31, 204-208.	0.4	3
34	Data and methods to calculate cut-off values for serum potassium and core temperature at hospital admission for extracorporeal rewarming of avalanche victims in cardiac arrest. Data in Brief, 2020, 28, 104913.	0.5	1
35	Can drones improve survival rates in mountain areas, providing automated external defibrillators?. Resuscitation, 2020, 146, 277-278.	1.3	7
36	Induced Hypothermia to 4.2Â°C with Neurologically Intact Survival: A Forgotten Case Series. Wilderness and Environmental Medicine, 2020, 31, 367-370.	0.4	4

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37	Hypothermia-Associated Coagulopathy: A Comparison of Viscoelastic Monitoring, Platelet Function, and Real Time Live Confocal Microscopy at Low Blood Temperatures, an in vitro Experimental Study. Frontiers in Physiology, 2020, 11, 843.	1.3	25
38	Lower Incidence of COVID-19 at High Altitude: Facts and Confounders. High Altitude Medicine and Biology, 2020, 21, 217-222.	0.5	68
39	Efficacy of warming systems in mountain rescue: an experimental manikin study. International Journal of Biometeorology, 2020, 64, 2161-2169.	1.3	1
40	Letter to the Editor: COVID-19 Lung Injury Is Different From High Altitude Pulmonary Edema. High Altitude Medicine and Biology, 2020, 21, 204-205.	0.5	8
41	To compare the incomparable: COVID-19 pneumonia and high-altitude disease. European Respiratory Journal, 2020, 55, 2001362.	3.1	14
42	Drone delivery of AED's and personal protective equipment in the era of SARS-CoV-2. Resuscitation, 2020, 152, 1-2.	1.3	12
43	Aviation Sports Crashes in the Austrian Mountains: A 10-Year Retrospective Study. Wilderness and Environmental Medicine, 2020, 31, 165-173.	0.4	5
44	Reconsidering the air pocket around mouth and nose as a positive outcome predictor in completely buried avalanche victims. Resuscitation, 2020, 152, 208-209.	1.3	4
45	In reply:. Annals of Emergency Medicine, 2019, 74, 168.	0.3	0
46	Transcription Factors Regulation in Human Peripheral White Blood Cells during Hypobaric Hypoxia Exposure: an in-vivo experimental study. Scientific Reports, 2019, 9, 9901.	1.6	25
47	Going to Altitude with a Preexisting Psychiatric Condition. High Altitude Medicine and Biology, 2019, 20, 207-214.	0.5	9
48	Sudden Cardiac Arrest and Cardiopulmonary Resuscitation with Automated External Defibrillator in the Austrian Mountains: A Retrospective Study. High Altitude Medicine and Biology, 2019, 20, 392-398.	0.5	7
49	Extrication Times During Avalanche Companion Rescue: A Randomized Single-Blinded Manikin Study. High Altitude Medicine and Biology, 2019, 20, 245-250.	0.5	8
50	Development of a Self-Administered Questionnaire to Detect Psychosis at High Altitude: The HAPSY Questionnaire. High Altitude Medicine and Biology, 2019, 20, 352-360.	0.5	1
51	Low incidence of avalanche victims in cardiac arrest calls for multi-centre studies and registries for the validation of resuscitation guidelines. Resuscitation, 2019, 144, 195-196.	1.3	4
52	In Reply to Lorenzati et al. Wilderness and Environmental Medicine, 2019, 30, 103-104.	0.4	0
53	The integration of prehospital standard operating procedures and in-hospital HOPE score for management of hypothermic patients in cardiac arrest. Resuscitation, 2019, 141, 212-213.	1.3	5
54	Cut-off values of serum potassium and core temperature at hospital admission for extracorporeal rewarming of avalanche victims in cardiac arrest: A retrospective multi-centre study. Resuscitation, 2019, 139, 222-229.	1.3	27

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55	Wilderness Medical Society Clinical Practice Guidelines forÂthe Out-of-Hospital Evaluation and Treatment of Accidental Hypothermia: 2019 Update. Wilderness and Environmental Medicine, 2019, 30, S47-S69.	0.4	60
56	Intercultural Competence of Western Teachers for Nepalese Rescuers. High Altitude Medicine and Biology, 2019, 20, 22-27.	0.5	0
57	Hypothermic Cardiac Arrest With Full Neurologic Recovery After Approximately Nine Hours of Cardiopulmonary Resuscitation: Management and Possible Complications. Annals of Emergency Medicine, 2019, 73, 52-57.	0.3	25
58	Reported Resuscitation of a Hypothermic Avalanche Victim With Assisted Ventilation in 1939. Wilderness and Environmental Medicine, 2018, 29, 275-277.	0.4	2
59	Management of Multi-Casualty Incidents in Mountain Rescue: Evidence-Based Guidelines of the International Commission for Mountain Emergency Medicine (ICAR MEDCOM). High Altitude Medicine and Biology, 2018, 19, 131-140.	0.5	31
60	Pre-hospital times and clinical characteristics of severe trauma patients: A comparison between mountain and urban/suburban areas. American Journal of Emergency Medicine, 2018, 36, 1749-1753.	0.7	25
61	The STAR Data Reporting Guidelines for Clinical High Altitude Research. High Altitude Medicine and Biology, 2018, 19, 7-14.	0.5	18
62	Clinical recommendations for high altitude exposure of individuals with pre-existing cardiovascular conditions. European Heart Journal, 2018, 39, 1546-1554.	1.0	131
63	Implementation of a mechanical CPR device in a physician staffed HEMS â€“ a prospective observational study. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2018, 26, 36.	1.1	10
64	The 2018 Lake Louise Acute Mountain Sickness Score. High Altitude Medicine and Biology, 2018, 19, 4-6.	0.5	324
65	Knowledge of the Avalanche Victim Resuscitation Checklist and Utility of a Standardized Lecture in Italy. Wilderness and Environmental Medicine, 2018, 29, 56-60.	0.4	7
66	Isolated psychosis during exposure to very high and extreme altitude â€“ characterisation of a new medical entity. Psychological Medicine, 2018, 48, 1872-1879.	2.7	24
67	Research in High-Altitude and Mountain Emergency Medicine: Is Methodology Key?. High Altitude Medicine and Biology, 2018, 19, 1-3.	0.5	6
68	Accidental hypothermia. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 157, 547-563.	1.0	34
69	On-Site Treatment of Snow Avalanche Victims: From Bench to Mountainside. High Altitude Medicine and Biology, 2018, 19, 307-315.	0.5	14
70	About Autoresuscitation in Accidental Hypothermia. American Journal of Medicine, 2018, 131, e479.	0.6	0
71	Lightning accidents in the Austrian alps â€“ a 10-year retrospective nationwide analysis. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2018, 26, 74.	1.1	17
72	Accidental hypothermia in recreational activities in the mountains: A narrative review. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 2464-2472.	1.3	16

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73	The Use of E-Learning in Medical Education for Mountain Rescuers Concerning Hypothermia. High Altitude Medicine and Biology, 2018, 19, 272-277.	0.5	2
74	Frostbite Injuries in the Austrian Alps: A Retrospective 11-Year National Registry Study. High Altitude Medicine and Biology, 2018, 19, 316-320.	0.5	13
75	In mountain and rural areas all CPR providers should perform chest compressions and rescue breaths for patients in cardiac arrest. Resuscitation, 2018, 127, e5.	1.3	6
76	Prehospital management and outcome of avalanche patients with out-of-hospital cardiac arrest: a retrospective study in Tyrol, Austria. European Journal of Emergency Medicine, 2017, 24, 398-403.	0.5	17
77	Avalanche Victim Resuscitation Checklist adaption to the 2015 ERC Resuscitation guidelines. Resuscitation, 2017, 113, e3-e4.	1.3	23
78	Wilderness Medical Society Practice Guidelines for Prevention and Management of Avalanche and Nonavalanche Snow Burial Accidents. Wilderness and Environmental Medicine, 2017, 28, 23-42.	0.4	60
79	Total Body Water Dynamics Estimated with Bioelectrical Impedance Vector Analysis and B-Type Natriuretic Peptide After Exposure to Hypobaric Hypoxia: A Field Study. High Altitude Medicine and Biology, 2017, 18, 384-391.	0.5	6
80	Severe Hypothermia Management in Mountain Rescue: A Survey Study. High Altitude Medicine and Biology, 2017, 18, 411-416.	0.5	22
81	Effects of snow properties on humans breathing into an artificial air pocket â€“ an experimental field study. Scientific Reports, 2017, 7, 17675.	1.6	26
82	In Reply to Drs Pasquier, Gnaegi, and Hugli. Wilderness and Environmental Medicine, 2016, 27, 534.	0.4	0
83	Avalanche Survival After Rescue With the RECCO Rescue System: A Case Report. Wilderness and Environmental Medicine, 2016, 27, 282-286.	0.4	19
84	Burial duration, depth and air pocket explain avalanche survival patterns in Austria and Switzerland. Resuscitation, 2016, 105, 173-176.	1.3	45
85	Accidental hypothermiaâ€“an update. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2016, 24, 111.	1.1	212
86	Influence of low ambient temperature on epitympanic temperature measurement: a prospective randomized clinical study. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2015, 23, 90.	1.1	30
87	Outcome of avalanche victims with out-of-hospital cardiac arrest. Resuscitation, 2015, 89, 114-118.	1.3	30
88	The Avalanche Victim Resuscitation Checklist, a new concept for the management of avalanche victims. Resuscitation, 2015, 91, e7-e8.	1.3	30
89	Hypothermia Evidence, Afterdrop, and Guidelines. Wilderness and Environmental Medicine, 2015, 26, 439-441.	0.4	5
90	Delayed and intermittent CPR for severe accidental hypothermia. Resuscitation, 2015, 90, 46-49.	1.3	69

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91	European Resuscitation Council Guidelines for Resuscitation 2015. Resuscitation, 2015, 95, 1-80.	1.3	813
92	Cooling rate for triage decisions should exclude post-extrication cooling in avalanche victims. Resuscitation, 2015, 94, e3.	1.3	6
93	European Resuscitation Council Guidelines for Resuscitation 2015. Resuscitation, 2015, 95, 148-201.	1.3	696
94	Is Extracorporeal Rewarming Indicated in Avalanche Victims with Unwitnessed Hypothermic Cardiorespiratory Arrest?. High Altitude Medicine and Biology, 2014, 15, 500-503.	0.5	42
95	Wilderness Medical Society Practice Guidelines for the Out-of-Hospital Evaluation and Treatment of Accidental Hypothermia: 2014 Update. Wilderness and Environmental Medicine, 2014, 25, S66-S85.	0.4	78
96	Defibrillation in rural areas. American Journal of Emergency Medicine, 2014, 32, 1408-1412.	0.7	29
97	Pre-Hospital Core Temperature Measurement in Accidental and Therapeutic Hypothermia. High Altitude Medicine and Biology, 2014, 15, 104-111.	0.5	76
98	Basic life support trained nurses ventilate more efficiently with laryngeal mask supreme than with facemask or laryngeal tube suction-disposableâ€"A prospective, randomized clinical trial. Resuscitation, 2014, 85, 499-502.	1.3	31
99	Does a higher ROSC-rate with mechanical CPR lead to better survival in helicopter rescue?. Resuscitation, 2014, 85, e13.	1.3	3
100	Non-extracorporeal rewarming at a rate of 6.8Â°C per hour in a deeply hypothermic arrested patient. Resuscitation, 2014, 85, e119-e120.	1.3	24
101	The effectiveness of avalanche airbags. Resuscitation, 2014, 85, 1197-1203.	1.3	33
102	LUCAS compared to manual cardiopulmonary resuscitation is more effective during helicopter rescueâ€"a prospective, randomized, cross-over manikin study. American Journal of Emergency Medicine, 2013, 31, 384-389.	0.7	105
103	Does untreated post-cardiac-arrest fever counteract the benefit of therapeutic hypothermia?. Resuscitation, 2013, 84, 1650-1651.	1.3	2
104	Factors affecting survival from avalanche burialâ€"A randomised prospective porcine pilot study. Resuscitation, 2013, 84, 239-243.	1.3	33
105	Resuscitation of avalanche victims: Evidence-based guidelines of the international commission for mountain emergency medicine (ICAR MEDCOM). Resuscitation, 2013, 84, 539-546.	1.3	149
106	Electrical Heart Activity Recorded During Prolonged Avalanche Burial. Circulation, 2012, 125, 646-647.	1.6	22
107	Triage and survival of avalanche victims with out-of-hospital cardiac arrest in Austria between 1987 and 2009. Resuscitation, 2012, 83, e81.	1.3	4
108	Accidental Hypothermia. New England Journal of Medicine, 2012, 367, 1930-1938.	13.9	475

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109	Risk Assessment and Emergency Management of Coronary Heart Disease at Altitude. High Altitude Medicine and Biology, 2011, 12, 97-98.	0.5	7
110	Comparison of avalanche survival patterns in Canada and Switzerland. Cmaj, 2011, 183, 789-795.	0.9	92
111	Prognostic factors in avalanche resuscitation: A systematic review. Resuscitation, 2010, 81, 645-652.	1.3	72
112	European Resuscitation Council Guidelines for Resuscitation 2010 Section 8. Cardiac arrest in special circumstances: Electrolyte abnormalities, poisoning, drowning, accidental hypothermia, hyperthermia, asthma, anaphylaxis, cardiac surgery, trauma, pregnancy, electrocution. Resuscitation, 2010, 81, 1400-1433.	1.3	691
113	Causes of Death From Avalanche. Wilderness and Environmental Medicine, 2009, 20, 93-96.	0.4	15
114	Full recovery of an avalanche victim with profound hypothermia and prolonged cardiac arrest treated by extracorporeal re-warming. Resuscitation, 2008, 76, 474-480.	1.3	117
115	Rescue Missions for Totally Buried Avalanche Victims: Conclusions from 12 Years of Experience. High Altitude Medicine and Biology, 2008, 9, 229-233.	0.5	22
116	Correlation between avalanche emergencies and avalanche danger forecast in the alpine region of Tyrol. European Journal of Emergency Medicine, 2008, 15, 43-47.	0.5	13
117	Pattern And Severity of Injury in Avalanche Victims. High Altitude Medicine and Biology, 2007, 8, 56-61.	0.5	59
118	The impact of avalanche rescue devices on survival. Resuscitation, 2007, 75, 476-483.	1.3	61
119	The Impact of Avalanche Transceivers on Mortality from Avalanche Accidents. High Altitude Medicine and Biology, 2005, 6, 72-77.	0.5	37
120	Hypoxia and hypercapnia during respiration into an artificial air pocket in snow: implications for avalanche survival. Resuscitation, 2003, 58, 81-88.	1.3	78
121	The Medical On-site Treatment of Hypothermia: ICAR-MEDCOM Recommendation. High Altitude Medicine and Biology, 2003, 4, 99-103.	0.5	131
122	On-Site Treatment of Avalanche Victims ICAR-MEDCOM-Recommendation. High Altitude Medicine and Biology, 2002, 3, 421-425.	0.5	37
123	Field management of avalanche victims. Resuscitation, 2001, 51, 7-15.	1.3	158
124	On-site triage of avalanche victims with asystole by the emergency doctor. Resuscitation, 1996, 31, 11-16.	1.3	62
125	Avalanche survival chances. Nature, 1994, 368, 21-21.	13.7	127