Maximilian Moser

List of Publications by Year
in descending order

92 papers	2,124 citations	304368 22 h-index	264894 42 g-index
100 all docs	100 docs citations	100 times ranked	1691 citing authors

#	Article	IF	Citations
1	Driver Monitoring of Automated Vehicles by Classification of Driver Drowsiness Using a Deep Convolutional Neural Network Trained by Scalograms of ECG Signals. Energies, 2022, 15, 480.	1.6	16
2	Driver drowsiness estimation using EEG signals with a dynamical encoderâ€“decoder modeling framework. Scientific Reports, 2022, 12, 2650.	1.6	19
3	Self-Reducing Silver Ink on Polyurethane Elastomers for the Manufacture of Thin and Highly Stretchable Electrical Circuits. Chemistry of Materials, 2021, 33, 2742-2755.	3.2	18
4	Cardiorespiratory Interaction and Autonomic Sleep Quality Improve during Sleep in Beds Made from Pinus cembra (Stone Pine) Solid Wood. International Journal of Environmental Research and Public Health, 2021, 18, 9749.	1.2	5
5	Observational study of an inpatient program for musculoskeletal disorders. Medicine (United States), 2021, 100, e27594.	0.4	4
6	General and Disease-Specific Health Indicator Changes Associated with Inpatient Rehabilitation. Journal of the American Medical Directors Association, 2020, 21, 2017.e10-2017.e27.	1.2	14
7	Falls Risk, Circadian Rhythms and Melatonin: Current Perspectives . Clinical Interventions in Aging, 2020, Volume 15, 2165-2174.	1.3	12
8	Driving and tiredness: Results of the behaviour observation of a simulator study with special focus on automated driving. Transactions on Transport Sciences, 2020, 11, 51-63.	0.2	4
9	Driver Drowsiness Classification Using Data Fusion of Vehicle-based Measures and ECG Signals. , 2020, , .		11
10	Dynamical disentanglement in an analysis of oscillatory systems: an application to respiratory sinus arrhythmia. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190045.	1.6	10
11	Dynamics of Vagal Activity Due to Surgery and Subsequent Rehabilitation. Frontiers in Neuroscience, 2019, 13, 1116.	1.4	21
12	Novel approaches for the assessment of relative body weight and body fat in diagnosis and treatment of anorexia nervosa: A cross-sectional study. Clinical Nutrition, 2019, 38, 2913-2921.	2.3	18
13	Heart Rhythm Analyzed via Shapelets Distinguishes Sleep From Awake. Frontiers in Physiology, 2019, 10, 1554.	1.3	8
14	Disentangling respiratory sinus arrhythmia in heart rate variability records. Physiological Measurement, 2018, 39, 054002.	1.2	18
15	Investigation of a Micro-test for Circulatory Autonomic Nervous System Responses. Frontiers in Physiology, 2017, 8, 448.	1.3	14
16	Wood or Laminate?â€”Psychological Research of Customer Expectations. Forests, 2016, 7, 275.	0.9	13
17	Investigation of gender- and age-related preferences of men and women regarding lighting conditions for activation and relaxation. Proceedings of SPIE, 2016, , .	0.8	2
18	Biologische Rhythmen und ihre Bedeutung fÃ¼r die Osteopathie. Osteopathische Medizin, 2016, 17, 22-26.	0.2	1

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19	Evaluating Psychological Aspects of Wood and Laminate Products in Indoor Settings with Pictures. Forest Products Journal, 2015, 65, 263-271.	0.2	7
20	Effect of Mental Arithmetic on heart rate responses during Parabolic Flights: the Barcelona Zero-G Challenge. Microgravity Science and Technology, 2014, 26, 11-16.	0.7	11
21	Adaption of cardio-respiratory balance during day-rest compared to deep sleepâ€"An indicator for quality of life?. Psychiatry Research, 2014, 219, 638-644.	1.7	15
22	In vivo cardiac phase response curve elucidates human respiratory heart rate variability. Nature Communications, 2013, 4, 2418.	5.8	111
23	Cardio-autonomic control and wellbeing due to oscillating color light exposure. Physiology and Behavior, 2013, 114-115, 55-64.	1.0	18
24	More trials needed to assess sleeping pills. Nature, 2013, 493, 305-305.	13.7	3
25	Detecting Body Fatâ€"A Weighty Problem BMI versus Subcutaneous Fat Patterns in Athletes and Non-Athletes. PLoS ONE, 2013, 8, e72002.	1.1	42
26	A measure of obesity: BMI versus subcutaneous fat patterns in young athletes and nonathletes. Collegium Antropologicum, 2013, 37, 351-7.	0.1	16
27	LED Office Lighting to Promote Performance and Well-Being. Lecture Notes in Computer Science, 2011, , 68-77.	1.0	0
28	Different staining substances were used in decorative and therapeutic tattoos in a 1000-year-old Peruvian mummy. Journal of Archaeological Science, 2010, 37, 3256-3262.	1.2	20
29	Psychophysiologische Effekte atmosphÃrischer QualitÃten der Landschaft | Psychophysiological effects of landscape's atmospheric qualities. Schweizerische Zeitschrift Fur Forstwesen, 2010, 161, 97-103.	0.5	6
30	The tattoos of the Tyrolean Iceman: a light microscopical, ultrastructural and element analytical study. Journal of Archaeological Science, 2009, 36, 2335-2341.	1.2	38
31	Comparison of Respiratory Rates Derived from Heart Rate Variability, ECG Amplitude, and Nasal/Oral Airflow. Annals of Biomedical Engineering, 2008, 36, 2085-2094.	1.3	73
32	The Symphony of Life [Chronobiological Investigations]. IEEE Engineering in Medicine and Biology Magazine, 2008, 27, 29-37.	1.1	34
33	Short-term effects of pulsed electromagnetic fields after physical exercise are dependent on autonomic tone before exposure. European Journal of Applied Physiology, 2007, 101, 495-502.	1.2	20
34	Cancer and Rhythm. Cancer Causes and Control, 2006, 17, 483-487.	0.8	37
35	Why Life Oscillates â€" from a Topographical Towards a Functional Chronobiology. Cancer Causes and Control, 2006, 17, 591-599.	0.8	56
36	Prolonged asystole provoked by head-up tilt testing. Clinical Research in Cardiology, 2006, 95, 42-47.	1.5	2

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37	Why Life Oscillates - Biological Rhythms and Health. , 2006, 2006, 424-8.		16
38	Why Life Oscillates - Biological Rhythms and Health. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
39	Time Course of Well-Being after a Three-Week Resort-Based Respite from Occupational and Domestic Demands: Carry-Over, Contrast and Situation Effects. Journal of Leisure Research, 2004, 36, 293-309.	1.0	28
40	Oscillations of heart rate and respiration synchronize during poetry recitation. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H579-H587.	1.5	80
41	An Analytic Approach to the Liebau Problem of Valveless Pumping. Cardiovascular Engineering (Dordrecht, Netherlands), 2004, 4, 201-207.	1.0	24
42	Effects of speech therapy with poetry on heart rate rhythmicity and cardiorespiratory coordination. International Journal of Cardiology, 2002, 84, 77-88.	0.8	43
43	Changes of respiratory sinus arrhythmia during the menstrual cycle depend on average heart rate. European Journal of Applied Physiology, 2002, 87, 309-314.	1.2	8
44	Pumping by Beating on a Tube. , 2002, , .		0
45	Relative Timing Of Inspiration And Expiration Affects Respiratory Sinus Arrhythmia. Clinical and Experimental Pharmacology and Physiology, 2000, 27, 601-606.	0.9	110
46	309. Age and parasympatholytic property of tricyclic antidepressants. Biological Psychiatry, 2000, 47, S93-S94.	0.7	0
47	Influence of age on the parasympatholytic property of tricyclic antidepressants. Psychiatry Research, 1999, 85, 199-207.	1.7	26
48	A medical report from the stone age?. Lancet, The, 1999, 354, 1023-1025.	6.3	120
49	Increased heart rate in depressed subjects in spite of unchanged autonomic balance?. Journal of Affective Disorders, 1998, 48, 115-124.	2.0	120
50	Autonomic regulation of circulation and cardiac contractility during a 14-month space flight. Acta Astronautica, 1998, 42, 159-173.	1.7	15
51	Nervousness and pain sensitivity: I. A positive correlation. Psychiatry Research, 1998, 79, 51-53.	1.7	16
52	Nervousness and pain sensitivity: II. Changed relation in ex-addicts as a predictor for early relapse. Psychiatry Research, 1998, 79, 55-58.	1.7	20
53	Circadian rhythm of the soluble p-75TNF-receptor in humans: a possible explanation for the circadian kinetics of TNF-alpha effects. Journal of Neuroimmunology, 1998, 90, 75.	1.1	0
54	Circadian rhythm of the soluble p75 tumor necrosis factor (sTNF-R75) receptor in humans--a possible explanation for the circadian kinetics of TNR-alpha effects. International Immunology, 1998, 10, 1393-1396.	1.8	18

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55	5200-Year-Old Acupuncture in Central Europe?. , 1998, 282, 239f-239.		51
56	Major depression and cardiac autonomic control. Biological Psychiatry, 1997, 42, 914-919.	0.7	104
57	Persistent analgesia in former opiate addicts is resistant to blockade of endogenous opioids. Biological Psychiatry, 1997, 42, 962-964.	0.7	19
58	Effects of an eight-day space flight on microvibration and physiological tremor. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1997, 273, R86-R92.	0.9	11
59	Decreased nociceptive sensitivity: a biological risk marker for opiate dependence?. Addiction, 1997, 92, 163-166.	1.7	11
60	Decreased nociceptive sensitivity: a biological risk marker for opiate dependence?. , 1997, 92, 163.		1
61	Factors influencing cardiac vagal tone in depressed patients. Biological Psychiatry, 1996, 39, 526.	0.7	2
62	Instrumentation for assessment of tremor, skin vibrations, and cardiovascular variables in MIR space missions. IEEE Transactions on Biomedical Engineering, 1996, 43, 328-333.	2.5	20
63	Long-term imprisonment leads to cognitive impairment. Forensic Science International, 1996, 82, 121-127.	1.3	15
64	Die Bedeutung physikalischer Eigenschaften des Blutes fÃ¼r die optimale Kreislaufregulation. Biomedizinische Technik, 1996, 41, 50-51.	0.9	0
65	Phaseâ€•and frequency coordination of cardiac and respiratory function. Biological Rhythm Research, 1995, 26, 100-111.	0.4	42
66	Heart rate variability as a prognostic tool in cardiology. A contribution to the problem from a theoretical point of view.. Circulation, 1994, 90, 1078-1082.	1.6	103
67	Pain sensitivity in former opioid addicts. Lancet, The, 1994, 344, 1031-1032.	6.3	27
68	Affective disorders. Journal of Interdisciplinary Cycle Research, 1993, 24, 299-300.	0.2	0
69	Cardiovascular and respiratory functions. Journal of Interdisciplinary Cycle Research, 1993, 24, 251-251.	0.2	0
70	Neue optische, mechanische und optomechanische Pulssensoren fÃ¼r die nichtinvasive Pulskurvenaufzeichnung an den Akren und groÃŸen Arterien. Biomedizinische Technik, 1992, 37, 167-169.	0.9	0
71	Nature and rate of vascular refilling during hemodialysis and ultrafiltration. Kidney International, 1992, 42, 1425-1433.	2.6	129
72	Cardiovascular Monitoring in Microgravity â€" The Experiments PULSTRANS and SLEEP. , 1992, , 167-189.		6

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73	Experiment MIKROVIB â€" Investigation of Tremors in Microgravity. , 1992, , 85-107.		1
74	The Measurement of Blood Density to Investigate Protein Deposition at the blood/hollow Fiber Membrane Interface during Ultrafiltration. International Journal of Artificial Organs, 1991, 14, 424-429.	0.7	3
75	Methods in clinical hemorheology: The continuous measurement of arterial blood density and blood sound speed in man. Biorheology, 1990, 27, 895-902.	1.2	6
76	Blood flow and blood volume determinations in aorta and in coronary circulation by density dilution. Basic Research in Cardiology, 1988, 83, 577-589.	2.5	12
77	Influence of tonicity on the viscoelastic properties of blood during isovolemic dilution. Basic Research in Cardiology, 1987, 82, 388-395.	2.5	2
78	Analysis of coronary-sinus-occlusion pressure by iterating the convolution integral. Journal of Biomedical Engineering, 1986, 8, 56-61.	0.7	2
79	Fluid and protein shifts after postural changes in humans. American Journal of Physiology - Heart and Circulatory Physiology, 1986, 250, H68-H75.	1.5	37
80	Inflow, outflow and pressures in the coronary circulation. , 1986, , 15-26.		5
81	Arteriovenous Difference of the Blood Density in the Coronary Circulation. Journal of Biomechanical Engineering, 1985, 107, 34-40.	0.6	14
82	Effects of pressure-controlled intermittent coronary sinus occlusion on regional ischemic myocardial function. Journal of the American College of Cardiology, 1985, 5, 939-947.	1.2	52
83	Indirect Determination of Fluid Filtration and Reabsorption in the Microcirculation of the Myocardium - Indirekte Bestimmung der Filtration und Reabsorption in der Mikrozirkulation des Myokards. Biomedizinische Technik, 1984, 29, 108-116.	0.9	4
84	Time Optimal Binary Test Signal Sequences for the Analysis of the Respiration Control System in Babies - Die Anwendung zeitoptimaler Testsignal-Sequenzen fÃ¼r die Analyse der Atemregulation bei SÃuglingen. Biomedizinische Technik, 1984, 29, 77-81.	0.9	0
85	The Arteriovenous Density Gradient as an Index for Myocardial Function. , 1984, , 497-507.		10
86	Optimization of Pressure Controlled Intermittent Coronary Sinus Occlusion Intervals by Density Measurement. , 1984, , 529-536.		14
87	Enhancement of Washout Induced by Pressure Controlled Intermittent Coronary Sinus Occlusion (PICSO) in the Canine and Human Heart. , 1984, , 537-548.		12
88	Wave Reflections and Pressure Flow Relations in the Coronary Circulation. , 1984, , 60-72.		5
89	The Application of the Continuous Recording of Blood Density for Hemodynamic Measurements. , 1982, , 431-439.		1
90	Determination of cardiac output and of transcapillary fluid exchange by continuous recording of blood density. Basic Research in Cardiology, 1980, 75, 501-509.	2.5	13

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91	Die Bestimmung des kolloidosmotischen Drucks aus der Plasmadichte mittels der Biegeschwingermethode. Clinical Chemistry and Laboratory Medicine, 1980, 18, .	1.4	5
92	The Application of the Density Dilution Method for the Observation of Fast Osmotic Fluid Shifts in the Lung Circulation. Biomedizinische Technik, 1980, 25, 139-143.	0.9	3