

Steffen Schulz

List of Publications by Year in descending order

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61
papers

1,930
citations

331670

21
h-index

254184

43
g-index

64
all docs

64
docs citations

64
times ranked

2006
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods derived from nonlinear dynamics for analysing heart rate variability. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 277-296.	3.4	435
2	Autonomy of Autonomic Dysfunction in Major Depression. Psychosomatic Medicine, 2009, 71, 852-860.	2.0	167
3	Non-linear complexity measures of heart rate variability in acute schizophrenia. Clinical Neurophysiology, 2007, 118, 2009-2015.	1.5	131
4	Cardiovascular and cardiorespiratory coupling analyses: a review. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120191.	3.4	130
5	The altered complexity of cardiovascular regulation in depressed patients. Physiological Measurement, 2010, 31, 303-321.	2.1	77
6	Autonomic Dysfunction in Unaffected First-Degree Relatives of Patients Suffering From Schizophrenia. Schizophrenia Bulletin, 2010, 36, 1050-1058.	4.3	70
7	Spinal tumor necrosis factor $\hat{\pm}$ neutralization reduces peripheral inflammation and hyperalgesia and suppresses autonomic responses in experimental arthritis: A role for spinal tumor necrosis factor $\hat{\pm}$ during induction and maintenance of peripheral inflammation. Arthritis and Rheumatism, 2010, 62, 1308-1318.	6.7	67
8	The interaction between pupil function and cardiovascular regulation in patients with acute schizophrenia. Clinical Neurophysiology, 2008, 119, 2209-2213.	1.5	65
9	Influence of Age on Linear and Nonlinear Measures of Autonomic Cardiovascular Modulation. Annals of Noninvasive Electrocardiology, 2010, 15, 165-174.	1.1	48
10	The Phrenic Component of Acute Schizophrenia – A Name and Its Physiological Reality. PLoS ONE, 2012, 7, e33459.	2.5	48
11	Gender-dependent impact of major depression on autonomic cardiovascular modulation. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2011, 35, 1131-1138.	4.8	45
12	Correlations between the autonomic modulation of heart rate, blood pressure and the pupillary light reflex in healthy subjects. Journal of the Neurological Sciences, 2009, 279, 9-13.	0.6	41
13	Influence of Olanzapine on QT Variability and Complexity Measures of Heart Rate in Patients With Schizophrenia. Journal of Clinical Psychopharmacology, 2008, 28, 694-698.	1.4	40
14	Cardiovascular coupling analysis with high-resolution joint symbolic dynamics in patients suffering from acute schizophrenia. Physiological Measurement, 2013, 34, 883-901.	2.1	39
15	Increased QT variability in patients with anorexia nervosa – An indicator for increased cardiac mortality?. International Journal of Eating Disorders, 2010, 43, 743-750.	4.0	38
16	Nonlinear relationship between electrodermal activity and heart rate variability in patients with acute schizophrenia. Psychophysiology, 2011, 48, 1323-1332.	2.4	38
17	Exercise Reveals the Interrelation of Physical Fitness, Inflammatory Response, Psychopathology, and Autonomic Function in Patients With Schizophrenia. Schizophrenia Bulletin, 2013, 39, 1139-1149.	4.3	37
18	Central- and autonomic nervous system coupling in schizophrenia. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150178.	3.4	35

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19	Short-term vs. long-term heart rate variability in ischemic cardiomyopathy risk stratification. <i>Frontiers in Physiology</i> , 2013, 4, 364.	2.8	34
20	Analyses of Heart Rate, Respiration and Cardiorespiratory Coupling in Patients with Schizophrenia. <i>Entropy</i> , 2015, 17, 483-501.	2.2	32
21	Reduced cardio-respiratory coupling in acute alcohol withdrawal. <i>Drug and Alcohol Dependence</i> , 2008, 98, 210-217.	3.2	25
22	The relation of autonomic function to physical fitness in patients suffering from alcohol dependence. <i>Drug and Alcohol Dependence</i> , 2013, 132, 505-512.	3.2	21
23	Autonomic regulation during quiet and active sleep states in very preterm neonates. <i>Frontiers in Physiology</i> , 2012, 3, 61.	2.8	20
24	Reduced cardio-respiratory coupling after treatment with nortriptyline in contrast to S-citalopram. <i>Journal of Affective Disorders</i> , 2010, 127, 266-273.	4.1	19
25	Altered Autonomic Regulation as a Cardiovascular Risk Marker for Patients With Sudden Sensorineural Hearing Loss. <i>Otology and Neurotology</i> , 2014, 35, 1720-1729.	1.3	17
26	Analysis of maternalâ€“fetal heart rate coupling directions with partial directed coherence. <i>Biomedical Signal Processing and Control</i> , 2016, 30, 25-30.	5.7	17
27	Multivariate assessment of the central-cardiorespiratory network structure in neuropathological disease. <i>Physiological Measurement</i> , 2018, 39, 074004.	2.1	17
28	High-resolution joint symbolic analysis to enhance classification of the cardiorespiratory system in patients with schizophrenia and their relatives. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140098.	3.4	13
29	Does parasympathetic modulation prior to ECT treatment influence therapeutic outcome?. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2010, 34, 1174-1180.	4.8	12
30	Autonomic modulation in healthy first-degree relatives of patients with major depressive disorder. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2011, 35, 1723-1728.	4.8	12
31	Altered Causal Coupling Pathways within the Central-Autonomic-Network in Patients Suffering from Schizophrenia. <i>Entropy</i> , 2019, 21, 733.	2.2	12
32	The influence of negative mood on heart rate complexity measures and baroreflex sensitivity in healthy subjects. <i>Indian Journal of Psychiatry</i> , 2010, 52, 42.	0.7	11
33	Alterations in Maternalâ€“Fetal Heart Rate Coupling Strength and Directions in Abnormal Fetuses. <i>Frontiers in Physiology</i> , 2019, 10, 482.	2.8	11
34	Diverse autonomic regulation of pupillary function and the cardiovascular system during alcohol withdrawal. <i>Drug and Alcohol Dependence</i> , 2016, 159, 142-151.	3.2	10
35	Endothelial dysfunction during acute alcohol withdrawal syndrome. <i>Drug and Alcohol Dependence</i> , 2011, 119, 113-122.	3.2	8
36	Quantification of compensatory processes of postnatal hypoxia in newborn piglets applying short-term nonlinear dynamics analysis. <i>BioMedical Engineering OnLine</i> , 2011, 10, 88.	2.7	8

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37	Baroreflex Coupling Assessed by Cross-Compression Entropy. <i>Frontiers in Physiology</i> , 2017, 8, 282.	2.8	8
38	Quantification of autonomic regulation in patients with sudden sensorineural hearing loss. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 178, 9-14.	2.8	7
39	Symbolic Dynamics, Poincaré Plot Analysis and Compression Entropy Estimate Complexity in Biological Time Series. , 2017, , 45-85.		7
40	Influence of Acute Antipsychotic Treatment on Cardiorespiratory Coupling and Heart Rate Variability. <i>Cureus</i> , 2018, 10, e2066.	0.5	7
41	Detection of Liver Dysfunction Using a Wearable Electronic Nose System Based on Semiconductor Metal Oxide Sensors. <i>Biosensors</i> , 2022, 12, 70.	4.7	7
42	Risk Stratification in Idiopathic Dilated Cardiomyopathy Patients Using Cardiovascular Coupling Analysis. <i>Frontiers in Physiology</i> , 2019, 10, 841.	2.8	6
43	Time-Frequency Analysis of Cardiovascular and Cardiorespiratory Interactions During Orthostatic Stress by Extended Partial Directed Coherence. <i>Entropy</i> , 2019, 21, 468.	2.2	6
44	Effects of yoga and mindfulness practices on the autonomous nervous system in primary school children: A non-randomised controlled study. <i>Complementary Therapies in Medicine</i> , 2021, 61, 102771.	2.7	5
45	Heart rate turbulence during acute alcohol withdrawal syndrome. <i>Drug and Alcohol Dependence</i> , 2012, 122, 253-257.	3.2	4
46	Cardiovascular and cardiorespiratory coupling analysis — State of the art and future perspectives. , 2014, , .		4
47	Quantification of the Central Cardiovascular Network Applying the Normalized Short-time Partial Directed Coherence Approach in Healthy Subjects. <i>Methods of Information in Medicine</i> , 2018, 57, 129-134.	1.2	3
48	The Cardiorespiratory Network in Healthy First-Degree Relatives of Schizophrenic Patients. <i>Frontiers in Neuroscience</i> , 2020, 14, 617.	2.8	3
49	Quantification of maternal-fetal cardiac couplings in normal and abnormal pregnancies applying high resolution joint symbolic dynamics. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 802-813.	1.9	3
50	Increased QT variability index as a marker for a cardiac autonomic dysregulation in schizophrenia. , 2013, , .		2
51	Cardiorespiratory and Vascular Variability Analysis to Classify Patients with Ischemic and Dilated Cardiomyopathy*. , 2020, 2020, 2764-2767.		2
52	Randomized Pilot Trial Using External Yarrow Liver Compress Applications With Metastatic Cancer Patients Suffering From Fatigue: Evaluation of Sympathetic Modulation by Heart Rate Variability Analysis. <i>Integrative Cancer Therapies</i> , 2022, 21, 153473542210812.	2.0	2
53	T95. PREVALENCE AND CONSEQUENCES OF CARDIAC AUTONOMIC DYSFUNCTION (CADF) IN 112 UNMEDICATED PATIENTS WITH SCHIZOPHRENIA. <i>Schizophrenia Bulletin</i> , 2018, 44, S152-S152.	4.3	1
54	Cardiovascular Coupling-Based Classification of Ischemic and Dilated Cardiomyopathy Patients. , 2019, 2019, 2007-2010.		1

#	ARTICLE	IF	CITATIONS
55	AUTONOMIC DYSFUNCTION IN UNAFFECTED FIRST-DEGREE RELATIVES OF PATIENTS SUFFERING FROM SCHIZOPHRENIA. Schizophrenia Research, 2010, 117, 483.	2.0	0
56	Poster #137 THE PHRENIC COMPONENT OF ACUTE SCHIZOPHRENIA â€“ A NAME AND ITS PHYSIOLOGICAL REALITY. Schizophrenia Research, 2012, 136, S140-S141.	2.0	0
57	Physical fitness and autonomic dysbalance in schizophrenia. Biomedizinische Technik, 2012, 57, .	0.8	0
58	Altered Central Cardiovascular Network Pattern in Neuropathological Disease ;½ Application of the Three Dimensional High Resolution Joint Symbolic Dynamics. , 0, , .		0
59	Analysis of Linear and Nonlinear Central-Cardiorespiratory Coupling Pathways in Healthy Subjects. , 0, , .		0
60	Quantification of Cardiovascular Regulation Applying Heart Rate Variability Analyses for Different Warm and Moist Chest Compresses in Healthy Subjects. , 2022, 28, 268-277.		0
61	Classification of ischemic and dilated cardiomyopathy patients based on the analysis of the pulse transit time. , 2021, 2021, 5527-5530.		0