Kai Roecker

List of Publications by Year
in descending order

74 papers	1,557 citations	257101 24 h-index	329751 37 g-index
80 all docs	80 docs citations	80 times ranked	1647 citing authors

#	Article	IF	Citations
1	Predicting competition performance in long-distance running by means of a treadmill test. Medicine and Science in Sports and Exercise, 1998, 30, 1552-1557.	0.2	126
2	Anabolic ergogenic substance users in fitness-sports: A distinct group supported by the health care system. Drug and Alcohol Dependence, 2006, 81, 11-19.	1.6	115
3	Ventilatory, Lactate-Derived and Catecholamine Thresholds During Incremental Treadmill Running: Relationship and Reproducibility. International Journal of Sports Medicine, 1999, 20, 122-127.	0.8	85
4	Power Output during Stage Racing in Professional Road Cycling. Medicine and Science in Sports and Exercise, 2006, 38, 147-151.	0.2	82
5	Recovery of hemoglobin mass after blood donation. Transfusion, 2008, 48, 1390-1397.	0.8	69
6	Power Output during the Tour de France. International Journal of Sports Medicine, 2007, 28, 756-761.	0.8	66
7	Normal Values of Isokinetic Maximum Strength, the Strength/Velocity Curve, and the Angle at Peak Torque of All Degrees of Freedom in the Shoulder. International Journal of Sports Medicine, 1994, 15, S19-S25.	0.8	53
8	Heart-Rate Recommendations: Transfer Between Running and Cycling Exercise?. International Journal of Sports Medicine, 2003, 24, 173-178.	0.8	45
9	Haemoglobin Mass in Cyclists during Stage Racing. International Journal of Sports Medicine, 2008, 29, 372-378.	0.8	44
10	Evaluation of Stress Responses to Interval Training at Low and Moderate Altitudes. Medicine and Science in Sports and Exercise, 2003, 35, 263-269.	0.2	41
11	Hb Mass Measurement Suitable to Screen for Illicit Autologous Blood Transfusions. Medicine and Science in Sports and Exercise, 2007, 39, 1748-1756.	0.2	39
12	Reproducibility of Isokinetic Peak Torque and Angle at Peak Torque in the Shoulder Joint. International Journal of Sports Medicine, 1994, 15, S26-S31.	0.8	38
13	Metabolic reaction after concentric and eccentric endurance-exercise of the knee and ankle. Medicine and Science in Sports and Exercise, 2001, 33, 791-795.	0.2	36
14	Cycling power output produced during flat and mountain stages in the Giro d'Italia: A case study. Journal of Sports Sciences, 2007, 25, 1299-1305.	1.0	36
15	Gas Exchange Measurements with High Temporal Resolution: The Breath-by-Breath Approach. International Journal of Sports Medicine, 2005, 26, S11-S18.	2.7	32
16	Player Monitoring in Indoor Team Sports: Concurrent Validity of Inertial Measurement Units to Quantify Average and Peak Acceleration Values. Frontiers in Physiology, 2018, 9, 141.	1.3	32
17	Heart rate prescriptions from performance and anthropometrical characteristics. Medicine and Science in Sports and Exercise, 2002, 34, 881-887.	0.2	29
18	Relative functional buffering capacity in 400-meter runners, long-distance runners and untrained individuals. European Journal of Applied Physiology and Occupational Physiology, 1994, 68, 430-434.	1.2	27

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19	Increase Characteristics of the Cumulated Excess-CO2 and the Lactate Concentration During Exercise. International Journal of Sports Medicine, 2000, 21, 419-423.	0.8	26
20	Activation of respiratory muscles during respiratory muscle training. Respiratory Physiology and Neurobiology, 2018, 247, 126-132.	0.7	26
21	Endurance Training in Females: Changes in Î²-Endorphin and ACTH. International Journal of Sports Medicine, 1998, 19, 260-264.	0.8	25
22	Lung hyperinflation: foe or friend?. European Respiratory Journal, 2008, 32, 1113-1116.	3.1	25
23	Cadence-Power-Relationship during Decisive Mountain Ascents at the Tour de France. International Journal of Sports Medicine, 2008, 29, 244-250.	0.8	25
24	Phosphodiesterase 5 inhibitors lower both portal and pulmonary pressure in portopulmonary hypertension: a case report. Journal of Medical Case Reports, 2007, 1, 46.	0.4	24
25	Characteristics of diaphragmatic fatigue during exhaustive exercise until task failure. Respiratory Physiology and Neurobiology, 2011, 176, 14-20.	0.7	24
26	Studien zu kÃ¶rperlichem Training bei onkologischen Patienten: Empfehlungen zu den Erhebungsmethoden. Deutsche Zeitschrift Fur Sportmedizin, 2014, 2014, 304-313.	0.2	24
27	Characteristics of the respiratory mechanical and muscle function of competitive breath-hold divers. European Journal of Applied Physiology, 2008, 103, 469-475.	1.2	22
28	Respiratory Inductance Plethysmographyâ€"A Rationale for Validity during Exercise. Medicine and Science in Sports and Exercise, 2014, 46, 488-495.	0.2	20
29	Validation of Wearable Sensors during Team Sport-Specific Movements in Indoor Environments. Sensors, 2019, 19, 3458.	2.1	18
30	Total haemoglobin mass but not cardiac volume adapts to long-term endurance exercise in highly trained spinal cord injured athletes. European Journal of Applied Physiology, 2009, 105, 779-785.	1.2	17
31	Postural Control in Dual-Task Situations: Does Whole-Body Fatigue Matter?. PLoS ONE, 2016, 11, e0147392.	1.1	17
32	Echocardiographic Findings in Endurance Athletes with Hypertrophic Non-Obstructive Cardiomyopathy (HNCM) Compared to Non-Athletes with HNCM and to Physiological Hypertrophy (Athlete's Heart). International Journal of Sports Medicine, 1994, 15, 273-277.	0.8	16
33	The Cardiocirculatory Reaction to Isokinetic Exercises in Dependence on the Form of Exercise and Age. International Journal of Sports Medicine, 1994, 15, S50-S55.	0.8	15
34	New physiological insights into exercise-induced diaphragmatic fatigue. Respiratory Physiology and Neurobiology, 2007, 158, 88-96.	0.7	15
35	Postâ€transfusion stability of haemoglobin mass. Vox Sanguinis, 2009, 96, 119-127.	0.7	15
36	A Wearable Respiratory Monitoring Device â€“ the Between-Days Variability of Calibration. International Journal of Sports Medicine, 2014, 36, 29-34.	0.8	13

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37	Hypertrophic Cardiomyopathy -Sports-Related Aspects of Diagnosis, Therapy, and Sports Eligibility. International Journal of Sports Medicine, 2004, 25, 20-26.	0.8	12
38	Scientific considerations for physiological evaluations of elite athletes. Journal of Applied Physiology, 2005, 99, 1630-1631.	1.2	12
39	Independence of exercise-induced diaphragmatic fatigue from ventilatory demands. Respiratory Physiology and Neurobiology, 2008, 161, 101-107.	0.7	11
40	Fact Sheet: Health Situation for Athletes in the Current Coronavirus Pandemic (SARS-CoV-2 /) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	0.2	11
41	Muscular Fatigue, Maximum Strength an Stress Reactions of the Shoulder Musculature in Paraplegics. International Journal of Sports Medicine, 1999, 20, 487-493.	0.8	10
42	Respiratory muscle function during a six-week period of normocapnic hyperpnoea training. Respiratory Physiology and Neurobiology, 2013, 188, 208-213.	0.7	9
43	Magnetic resonance imaging of the lumbar spine and blood volume in professional cyclists. European Journal of Applied Physiology, 2008, 102, 411-416.	1.2	8
44	Post-exercise diaphragm shielding: A novel approach to exercise-induced diaphragmatic fatigue. Respiratory Physiology and Neurobiology, 2008, 162, 230-237.	0.7	8
45	Biometric approximation of diaphragmatic contractility during sustained hyperpnea. Respiratory Physiology and Neurobiology, 2011, 176, 90-97.	0.7	8
46	First-pass effect of an intravenous bolus of [13C]bicarbonate displayed breath-by-breath. Journal of Applied Physiology, 2001, 90, 2181-2187.	1.2	7
47	The relationship between movement speed and duration during soccer matches. PLoS ONE, 2017, 12, e0181781.	1.1	7
48	Power Output and Efficiency During Supine, Recumbent, and Upright Cycle Ergometry. Frontiers in Sports and Active Living, 2021, 3, 667564.	0.9	7
49	Diaphragmatic fatigue during inspiratory muscle loading in normoxia and hypoxia. Respiratory Physiology and Neurobiology, 2016, 227, 1-8.	0.7	6
50	Die sportmedizinische Laktatdiagnostik: Technische Rahmenbedingungen und Einsatzbereiche. Deutsche Zeitschrift Fur Sportmedizin, 2013, 2013, .	0.2	6
51	Determining Anaerobic Capacity Using Treadmill Ergometry. International Journal of Sports Medicine, 2005, 26, 563-568.	0.8	5
52	Reference-Free Adjustment of Respiratory Inductance Plethysmography for Measurements during Physical Exercise. IEEE Transactions on Biomedical Engineering, 2017, 64, 2836-2846.	2.5	5
53	Modified Ventilatory Response Characteristics to Exercise in Breath-Hold Divers. International Journal of Sports Physiology and Performance, 2014, 9, 757-765.	1.1	4
54	Retrospective Analysis of Training and Its Response in Marathon Finishers Based on Fitness App Data. Frontiers in Physiology, 2021, 12, 669884.	1.3	4

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55	Breath-by-Breath Measurements for the Analysis of Exogenous Glucose Oxidation During Intense Endurance Exercise Using [13C]-Isotopes. International Journal of Sports Medicine, 1996, 17, 480-486.	0.8	3
56	Comment on Point:Counterpoint â€œIn health and in a normoxic environment, VÌ‡o2 max is/is not limited primarily by cardiac output and locomotor muscle blood flowâ€• Journal of Applied Physiology, 2006, 100, 1086-1086.	1.2	3
57	Hodgkin's Lymphoma in an Elite Endurance Athlete. Medicine and Science in Sports and Exercise, 2008, 40, 401-404.	0.2	3
58	Using Thorax Expansion to Detect a Ventilatory Inflection Point in the Field. International Journal of Sports Medicine, 2016, 37, 6-11.	0.8	3
59	Resting limb muscle perfusion during inspiratory muscle loading in hypoxia and normoxia. Respiratory Physiology and Neurobiology, 2017, 244, 1-9.	0.7	3
60	Transcutaneous Monitoring of PO2 and PCO2 During Running â€" A Noninvasive Determination of Gas Transport. , 1987, 220, 61-66.		3
61	Diaphragmatic fatigue is counterbalanced during exhaustive long-term exercise. Respiratory Physiology and Neurobiology, 2010, 172, 106-113.	0.7	2
62	Hemoglobin Mass After Blood Withdrawal And Autologous Reinfusion. Medicine and Science in Sports and Exercise, 2007, 39, S4.	0.2	1
63	Duration-Specific Peak Acceleration Demands During Professional Female Basketball Matches. Frontiers in Sports and Active Living, 2020, 2, 33.	0.9	1
64	Leistungsbegrenzung und Trainingstherapie bei chronischer Herzinsuffizienz. Deutsche Zeitschrift Fur Sportmedizin, 2014, 2014, .	0.2	1
65	Right ventricular apical viewâ€"A new window for doppler echocardiography of aortic valve stenosis. Clinical Cardiology, 1995, 18, 329-333.	0.7	0
66	The Relation between Total Haemoglobin Mass, Heart Volume and Maximal Oxygen Uptake. Medicine and Science in Sports and Exercise, 2007, 39, S3.	0.2	0
67	Haemoglobin Mass in Elite Cyclists during Road Cycling Competition. Medicine and Science in Sports and Exercise, 2007, 39, S4.	0.2	0
68	Answer to D. BÃ¶ning's and J.â€ŠM. Steinacker's Letter to the Editor â€œProblems with Doping in Scientific Articles?â€• International Journal of Sports Medicine, 2008, 29, 700-700.	0.8	0
69	Estimating The Benefit Of Additional Features Of A Cycling Training Computer System. Medicine and Science in Sports and Exercise, 2008, 40, S176.	0.2	0
70	Predictive value of ventilatory inflection points determined under field conditions. Journal of Sports Sciences, 2016, 34, 787-793.	1.0	0
71	Longitudinal Physiological Follow-Up of a â€œTour de Franceâ€•Winner. Medicine and Science in Sports and Exercise, 2006, 38, S232-S233.	0.2	0
72	Power Output in Professional Cyclists during the Tour de France. Medicine and Science in Sports and Exercise, 2006, 38, S230-s231.	0.2	0

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73	Traceability Of Increased Hemoglobin Mass After Autologous Blood Transfusion. Medicine and Science in Sports and Exercise, 2008, 40, S269.	0.2	0
74	Adaptation of Blood Volume and Cardiac Dimensions to Endurance Training in Paraplegic Athletes. Medicine and Science in Sports and Exercise, 2008, 40, S70-S71.	0.2	0