

Kai Roecker

List of Publications by Year in descending order

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74
papers

1,557
citations

257101

24
h-index

329751

37
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80
all docs

80
docs citations

80
times ranked

1647
citing authors

#	ARTICLE	IF	CITATIONS
1	Retrospective Analysis of Training and Its Response in Marathon Finishers Based on Fitness App Data. <i>Frontiers in Physiology</i> , 2021, 12, 669884.	1.3	4
2	Power Output and Efficiency During Supine, Recumbent, and Upright Cycle Ergometry. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 667564.	0.9	7
3	Duration-Specific Peak Acceleration Demands During Professional Female Basketball Matches. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 33.	0.9	1
4	Fact Sheet: Health Situation for Athletes in the Current Coronavirus Pandemic (SARS-CoV-2 /) Tj ETQq0 0 0 rgBT /Oyerlock 10 Tf 50 622	0.2	11
5	Validation of Wearable Sensors during Team Sport-Specific Movements in Indoor Environments. <i>Sensors</i> , 2019, 19, 3458.	2.1	18
6	Activation of respiratory muscles during respiratory muscle training. <i>Respiratory Physiology and Neurobiology</i> , 2018, 247, 126-132.	0.7	26
7	Player Monitoring in Indoor Team Sports: Concurrent Validity of Inertial Measurement Units to Quantify Average and Peak Acceleration Values. <i>Frontiers in Physiology</i> , 2018, 9, 141.	1.3	32
8	Reference-Free Adjustment of Respiratory Inductance Plethysmography for Measurements during Physical Exercise. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2836-2846.	2.5	5
9	Resting limb muscle perfusion during inspiratory muscle loading in hypoxia and normoxia. <i>Respiratory Physiology and Neurobiology</i> , 2017, 244, 1-9.	0.7	3
10	The relationship between movement speed and duration during soccer matches. <i>PLoS ONE</i> , 2017, 12, e0181781.	1.1	7
11	Postural Control in Dual-Task Situations: Does Whole-Body Fatigue Matter?. <i>PLoS ONE</i> , 2016, 11, e0147392.	1.1	17
12	Using Thorax Expansion to Detect a Ventilatory Inflection Point in the Field. <i>International Journal of Sports Medicine</i> , 2016, 37, 6-11.	0.8	3
13	Diaphragmatic fatigue during inspiratory muscle loading in normoxia and hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2016, 227, 1-8.	0.7	6
14	Predictive value of ventilatory inflection points determined under field conditions. <i>Journal of Sports Sciences</i> , 2016, 34, 787-793.	1.0	0
15	A Wearable Respiratory Monitoring Device â€” the Between-Days Variability of Calibration. <i>International Journal of Sports Medicine</i> , 2014, 36, 29-34.	0.8	13
16	Respiratory Inductance Plethysmographyâ€™A Rationale for Validity during Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 488-495.	0.2	20
17	Modified Ventilatory Response Characteristics to Exercise in Breath-Hold Divers. <i>International Journal of Sports Physiology and Performance</i> , 2014, 9, 757-765.	1.1	4
18	Studien zu kÃ¶rperlichem Training bei onkologischen Patienten: Empfehlungen zu den Erhebungsmethoden. <i>Deutsche Zeitschrift Fur Sportmedizin</i> , 2014, 2014, 304-313.	0.2	24

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19	Leistungsbegrenzung und Trainingstherapie bei chronischer Herzinsuffizienz. Deutsche Zeitschrift Fur Sportmedizin, 2014, 2014, .	0.2	1
20	Respiratory muscle function during a six-week period of normocapnic hyperpnoea training. Respiratory Physiology and Neurobiology, 2013, 188, 208-213.	0.7	9
21	Die sportmedizinische Laktatdiagnostik: Technische Rahmenbedingungen und Einsatzbereiche. Deutsche Zeitschrift Fur Sportmedizin, 2013, 2013, .	0.2	6
22	Characteristics of diaphragmatic fatigue during exhaustive exercise until task failure. Respiratory Physiology and Neurobiology, 2011, 176, 14-20.	0.7	24
23	Biometric approximation of diaphragmatic contractility during sustained hyperpnea. Respiratory Physiology and Neurobiology, 2011, 176, 90-97.	0.7	8
24	Diaphragmatic fatigue is counterbalanced during exhaustive long-term exercise. Respiratory Physiology and Neurobiology, 2010, 172, 106-113.	0.7	2
25	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
26	Posttransfusion stability of haemoglobin mass. Vox Sanguinis, 2009, 96, 119-127.	0.7	15
27	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
28	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
29	Recovery of hemoglobin mass after blood donation. Transfusion, 2008, 48, 1390-1397.	0.8	69
30	Independence of exercise-induced diaphragmatic fatigue from ventilatory demands. Respiratory Physiology and Neurobiology, 2008, 161, 101-107.	0.7	11
31	Post-exercise diaphragm shielding: A novel approach to exercise-induced diaphragmatic fatigue. Respiratory Physiology and Neurobiology, 2008, 162, 230-237.	0.7	8
32	Lung hyperinflation: foe or friend?. European Respiratory Journal, 2008, 32, 1113-1116.	3.1	25
33	Haemoglobin Mass in Cyclists during Stage Racing. International Journal of Sports Medicine, 2008, 29, 372-378.	0.8	44
34	Answer to D. BÄrning's and J.ŠM. Steinacker's Letter to the Editor "Problems with Doping in Scientific Articles". International Journal of Sports Medicine, 2008, 29, 700-700.	0.8	0
35	Cadence-Power-Relationship during Decisive Mountain Ascents at the Tour de France. International Journal of Sports Medicine, 2008, 29, 244-250.	0.8	25
36	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

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37	Hodgkin's Lymphoma in an Elite Endurance Athlete. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, 401-404.	0.2	3
38	Traceability Of Increased Hemoglobin Mass After Autologous Blood Transfusion. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S269.	0.2	0
39	Adaptation of Blood Volume and Cardiac Dimensions to Endurance Training in Paraplegic Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S70-S71.	0.2	0
40	Power Output during the Tour de France. <i>International Journal of Sports Medicine</i> , 2007, 28, 756-761.	0.8	66
41	The Relation between Total Haemoglobin Mass, Heart Volume and Maximal Oxygen Uptake. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, S3.	0.2	0
42	Hb Mass Measurement Suitable to Screen for Illicit Autologous Blood Transfusions. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, 1748-1756.	0.2	39
43	Hemoglobin Mass After Blood Withdrawal And Autologous Reinfusion. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, S4.	0.2	1
44	Haemoglobin Mass in Elite Cyclists during Road Cycling Competition. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, S4.	0.2	0
45	New physiological insights into exercise-induced diaphragmatic fatigue. <i>Respiratory Physiology and Neurobiology</i> , 2007, 158, 88-96.	0.7	15
46	Phosphodiesterase 5 inhibitors lower both portal and pulmonary pressure in portopulmonary hypertension: a case report. <i>Journal of Medical Case Reports</i> , 2007, 1, 46.	0.4	24
47	Cycling power output produced during flat and mountain stages in the Giro d'Italia: A case study. <i>Journal of Sports Sciences</i> , 2007, 25, 1299-1305.	1.0	36
48	Anabolic ergogenic substance users in fitness-sports: A distinct group supported by the health care system. <i>Drug and Alcohol Dependence</i> , 2006, 81, 11-19.	1.6	115
49	Comment on Point:Counterpoint "In health and in a normoxic environment, $\dot{V}_{\text{O}_2 \text{ max}}$ is/is not limited primarily by cardiac output and locomotor muscle blood flow". <i>Journal of Applied Physiology</i> , 2006, 100, 1086-1086.	1.2	3
50	Power Output during Stage Racing in Professional Road Cycling. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, 147-151.	0.2	82
51	Longitudinal Physiological Follow-Up of a "Tour de France" Winner. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, S232-S233.	0.2	0
52	Power Output in Professional Cyclists during the Tour de France. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, S230-s231.	0.2	0
53	Scientific considerations for physiological evaluations of elite athletes. <i>Journal of Applied Physiology</i> , 2005, 99, 1630-1631.	1.2	12
54	Gas Exchange Measurements with High Temporal Resolution: The Breath-by-Breath Approach. <i>International Journal of Sports Medicine</i> , 2005, 26, S11-S18.	2.7	32

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55	Determining Anaerobic Capacity Using Treadmill Ergometry. International Journal of Sports Medicine, 2005, 26, 563-568.	0.8	5
56	Hypertrophic Cardiomyopathy -Sports-Related Aspects of Diagnosis, Therapy, and Sports Eligibility. International Journal of Sports Medicine, 2004, 25, 20-26.	0.8	12
57	Heart-Rate Recommendations: Transfer Between Running and Cycling Exercise?. International Journal of Sports Medicine, 2003, 24, 173-178.	0.8	45
58	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
59	Heart rate prescriptions from performance and anthropometrical characteristics. Medicine and Science in Sports and Exercise, 2002, 34, 881-887.	0.2	29
60	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
61	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
62	Increase Characteristics of the Cumulated Excess-CO ₂ and the Lactate Concentration During Exercise. International Journal of Sports Medicine, 2000, 21, 419-423.	0.8	26
63	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
64	Muscular Fatigue, Maximum Strength and Stress Reactions of the Shoulder Musculature in Paraplegics. International Journal of Sports Medicine, 1999, 20, 487-493.	0.8	10
65	Endurance Training in Females: Changes in β^2 -Endorphin and ACTH. International Journal of Sports Medicine, 1998, 19, 260-264.	0.8	25
66	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
67	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
68	Right ventricular apical view – A new window for doppler echocardiography of aortic valve stenosis. Clinical Cardiology, 1995, 18, 329-333.	0.7	0
69	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
70	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
71	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
72	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

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73	Relative functional buffering capacity in 400-meter runners, long-distance runners and untrained individuals. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1994, 68, 430-434.	1.2	27
74	Transcutaneous Monitoring of PO ₂ and PCO ₂ During Running – A Noninvasive Determination of Gas Transport. , 1987, 220, 61-66.		3