Veronique Billat

List of Publications by Year
in descending order

139 papers	5,818 citations	100601 38 h-index	97045 71 g-index
148 all docs	148 docs citations	148 times ranked	4443 citing authors

#	Article	IF	Citations
1	Marathon Performance Depends on Pacing Oscillations between Non Symmetric Extreme Values. International Journal of Environmental Research and Public Health, 2022, 19, 2463.	1.2	4
2	Oxygen Uptake Measurements and Rate of Perceived Exertion during a Marathon. International Journal of Environmental Research and Public Health, 2022, 19, 5760.	1.2	2
3	The Carbon Footprint of Marathon Runners: Training and Racing. International Journal of Environmental Research and Public Health, 2021, 18, 2769.	1.2	6
4	Pace Controlled by a Steady-State Physiological Variable Is Associated with Better Performance in a 3000 M Run. International Journal of Environmental Research and Public Health, 2021, 18, 7886.	1.2	0
5	Marathon-Induced Cardiac Fatigue: A Review over the Last Decade for the Preservation of the Athletesâ€™ Health. International Journal of Environmental Research and Public Health, 2021, 18, 8676.	1.2	3
6	A new field test to estimate the aerobic and anaerobic thresholds and maximum parameters. European Journal of Sport Science, 2020, 20, 437-443.	1.4	10
7	Horse-Riding Competitions Pre and Post COVID-19: Effect of Anxiety, sRPE and HR on Performance in Eventing. International Journal of Environmental Research and Public Health, 2020, 17, 8648.	1.2	11
8	Maximal Time Spent at VO2max from Sprint to the Marathon. International Journal of Environmental Research and Public Health, 2020, 17, 9250.	1.2	8
9	Race Analysis of the Worldâ€™s Best Female and Male Marathon Runners. International Journal of Environmental Research and Public Health, 2020, 17, 1177.	1.2	14
10	Determination of Submaximal and Maximal Training Zones From a 3-Stage, Variable-Duration, Perceptually Regulated Track Test. International Journal of Sports Physiology and Performance, 2020, 15, 853-861.	1.1	7
11	Detecting the marathon asymmetry with a statistical signature. Physica A: Statistical Mechanics and Its Applications, 2019, 515, 240-247.	1.2	10
12	Pacing Strategy Affects the Sub-Elite Marathonerâ€™s Cardiac Drift and Performance. Frontiers in Psychology, 2019, 10, 3026.	1.1	16
13	Humans are able to self-paced constant running accelerations until exhaustion. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 290-304.	1.2	6
14	Heavy cycling exercise at fixed heart rate prevent the decline of stroke volume and delay time to exhaustion in trained adolescents. Science and Sports, 2017, 32, e29-e35.	0.2	1
15	Case Studies in Physiology: Maximal oxygen consumption and performance in a centenarian cyclist. Journal of Applied Physiology, 2017, 122, 430-434.	1.2	23
16	Acceleration-based training: A new mode of training in senescent rats improving performance and left ventricular and muscle functions. Experimental Gerontology, 2017, 95, 71-76.	1.2	7
17	A new model of short accelerationâ€based training improves exercise performance in old mice. Scandinavian Journal of Medicine and Science in Sports, 2017, 27, 1576-1587.	1.3	6
18	Experimental testing and simulations of speed variations impact on fuel consumption of conventional gasoline passenger cars. Transportation Research, Part D: Transport and Environment, 2017, 57, 336-349.	3.2	8

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19	Validation of a Ramp Running Protocol for Determination of the True VO2max in Mice. Frontiers in Physiology, 2016, 7, 372.	1.3	32
20	Degree conditions for weakly geodesic pancyclic graphs and their exceptions. Journal of Combinatorial Optimization, 2016, 31, 912-917.	0.8	0
21	Transcriptional modulation of mitochondria biogenesis pathway at and above critical speed in mice. Molecular and Cellular Biochemistry, 2015, 405, 223-232.	1.4	10
22	Myostatin is a key mediator between energy metabolism and endurance capacity of skeletal muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R444-R454.	0.9	65
23	Protein Catabolism and High Lipid Metabolism Associated with Long-Distance Exercise Are Revealed by Plasma NMR Metabolomics in Endurance Horses. PLoS ONE, 2014, 9, e90730.	1.1	33
24	Effectiveness Of Self-administered Cyclist Training Program On Vo2max Between 100 And 102 Year Old. Medicine and Science in Sports and Exercise, 2014, 46, 557.	0.2	0
25	Modelling decremental ramps using 2- and 3-parameter â€œcritical powerâ€•models. Journal of Sports Sciences, 2013, 31, 731-735.	1.0	3
26	The sustainability of VO2max: effect of decreasing the workload. European Journal of Applied Physiology, 2013, 113, 385-394.	1.2	28
27	New Field Test to Track Changes of Flatwater Paddling Performance: A Preliminary Study. Perceptual and Motor Skills, 2012, 115, 933-936.	0.6	3
28	A new process for modeling heartbeat signals during exhaustive run with an adaptive estimator of its fractal parameters. Journal of Applied Statistics, 2012, 39, 1331-1351.	0.6	8
29	Skeletal muscle alterations and exercise performance decrease in erythropoietin-deficient mice: a comparative study. BMC Medical Genomics, 2012, 5, 29.	0.7	36
30	Cardiac Output and Performance during a Marathon Race in Middle-Aged Recreational Runners. Scientific World Journal, The, 2012, 2012, 1-9.	0.8	29
31	NMR metabolomics for assessment of exercise effects with mouse biofluids. Analytical and Bioanalytical Chemistry, 2012, 404, 593-602.	1.9	21
32	A new incremental test for VO2max accurate measurement by increasing VO2max plateau duration, allowing the investigation of its limiting factors. European Journal of Applied Physiology, 2012, 112, 2267-2276.	1.2	11
33	Heart Rate Regulation Processed Through Wavelet Analysis and Change Detection: Some Case Studies. Acta Biotheoretica, 2012, 60, 109-129.	0.7	16
34	Randomness and changes of heart rate and respiratory frequency during high altitude mountain ascent without acclimatization. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 1575-1590.	1.2	2
35	Comments on Point:Counterpoint: High altitude is/is not for the birds!. Journal of Applied Physiology, 2011, 111, 1520-1524.	1.2	1
36	Metabolomic By Nmr Spectroscopy For Investigation Of Metabolism After Physical Exercise In A Mouse Model. Medicine and Science in Sports and Exercise, 2010, 42, 821-822.	0.2	0

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37	Muscle Mass Induced By Myostatin Knockout Does Not Enhance The Performance In Mice. Medicine and Science in Sports and Exercise, 2010, 42, 756.	0.2	0
38	Mountaineering experience decreases the net oxygen cost of climbing Mont Blanc (4,808Âm). European Journal of Applied Physiology, 2010, 108, 1209-1216.	1.2	11
39	P3.17 Lack of myostatin impairs oxidative metabolism and exercise performance. Neuromuscular Disorders, 2010, 20, 646.	0.3	1
40	Oxygen consumption and gait variables of Arabian endurance horses measured during a field exercise test. Equine Veterinary Journal, 2010, 42, 1-5.	0.9	25
41	Differential modeling of anaerobic and aerobic metabolism in the 800-m and 1,500-m run. Journal of Applied Physiology, 2009, 107, 478-487.	1.2	56
42	Detection of changes in the fractal scaling of heart rate and speed in a marathon race. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3798-3808.	1.2	32
43	Athletes' dietary intake was closer to French RDA's than those of young sedentary counterparts. Nutrition Research, 2009, 29, 736-742.	1.3	16
44	Power law scaling behavior of physiological time series in marathon races using wavelet leaders and detrended fluctuation analysis. Proceedings of SPIE, 2009, , .	0.8	0
45	Modeling and Analysis of the Effect of Training onÂ $dot{V}O_{2}$ ÂKinetics and Anaerobic Capacity. Bulletin of Mathematical Biology, 2008, 70, 1348-1370.	0.9	23
46	Fatigue Responses in Exercise under Control of VÂ·O2. International Journal of Sports Medicine, 2008, 29, 199-205.	0.8	4
47	Auxiliary Muscles and Slow Component during Rowing. International Journal of Sports Medicine, 2008, 29, 823-832.	0.8	3
48	Perceptual Responses in Free vs. Constant Pace Exercise. International Journal of Sports Medicine, 2008, 29, 453-459.	0.8	15
49	Stroke volume does/does not decline during exercise at maximal effort in healthy individuals. Journal of Applied Physiology, 2008, 104, 281-283.	1.2	6
50	Changes in Spring-Mass Model Parameters and Energy Cost During Track Running to Exhaustion. Journal of Strength and Conditioning Research, 2008, 22, 930-936.	1.0	42
51	Ventilatory Thresholds Assessment from Heart Rate Variability during an Incremental Exhaustive Running Test. International Journal of Sports Medicine, 2007, 28, 287-294.	0.8	81
52	Multidimensional analysis of metabolism contributions involved in running track tests. Journal of Science and Medicine in Sport, 2007, 10, 280-287.	0.6	6
53	Effect of a 24-h continuous walking race on cardiac autonomic control. European Journal of Applied Physiology, 2007, 99, 245-250.	1.2	18
54	Exercise training in normobaric hypoxia in endurance runners. I. Improvement in aerobic performance capacity. Journal of Applied Physiology, 2006, 100, 1238-1248.	1.2	129

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55	Effect of repeated exercise and recovery on heart rate variability in elite trotting horses during high intensity interval training. Equine Veterinary Journal, 2006, 38, 204-209.	0.9	19
56	Nonlinear Dynamics of Heart Rate and Oxygen Uptake in Exhaustive 10,000 m Runs: Influence of Constant vs. Freely Paced. Journal of Physiological Sciences, 2006, 56, 103-111.	0.9	33
57	Assessment of Ventilatory Thresholds from Heart Rate Variability in Well-Trained Subjects during Cycling. International Journal of Sports Medicine, 2006, 27, 959-967.	0.8	78
58	Training Content and Potential Impact on Performance. Research Quarterly for Exercise and Sport, 2006, 77, 351-361.	0.8	6
59	Objective and subjective analysis of the training content in young cyclists. Applied Physiology, Nutrition and Metabolism, 2006, 31, 118-125.	0.9	15
60	Factors Associated with Perceived Exertion and Estimated Time Limit at Lactate Threshold. Perceptual and Motor Skills, 2006, 103, 51-66.	0.6	6
61	Training Content and Potential Impact on Performance: A Comparison of Young Male and Female Endurance-Trained Runners. Research Quarterly for Exercise and Sport, 2006, 77, 351-361.	0.8	2
62	Changes in Internal Mechanical Cost during Overground Running to Exhaustion. Medicine and Science in Sports and Exercise, 2005, 37, 1180-1186.	0.2	12
63	Inter- and intrastrain variation in mouse critical running speed. Journal of Applied Physiology, 2005, 98, 1258-1263.	1.2	137
64	Multifractal analysis of heartbeat time series in human races. Applied and Computational Harmonic Analysis, 2005, 18, 329-335.	1.1	10
65	Heart rate deflection point as a strategy to defend stroke volume during incremental exercise. Journal of Applied Physiology, 2005, 98, 1660-1665.	1.2	28
66	Influence of Acetaminophen Consumption on Perceived Exertion at the Lactate Concentration Threshold. Perceptual and Motor Skills, 2005, 101, 675-683.	0.6	9
67	Acute Moderate Hypoxia Affects the Oxygen Desaturation and the Performance but not the Oxygen Uptake Response. International Journal of Sports Medicine, 2005, 26, 542-551.	0.8	16
68	Sex-Related Differences in Ratings of Perceived Exertion and Estimated Time Limit. International Journal of Sports Medicine, 2005, 26, 675-681.	0.8	23
69	Effect of Exercise Intensity and Repetition on Heart Rate Variability During Training in Elite Trotting Horse. International Journal of Sports Medicine, 2005, 26, 859-867.	0.8	32
70	Effect of a Previous Sprint on the Parameters of the Work-Time to Exhaustion Relationship in High Intensity Cycling. International Journal of Sports Medicine, 2005, 26, 583-592.	0.8	39
71	Newspaper Coverage of Women's Sports During the 2000 Sydney Olympic Games. Research Quarterly for Exercise and Sport, 2005, 76, 212-223.	0.8	38
72	Newspaper Coverage of Women's Sports During the 2000 Sydney Olympic Games: Belgium, Denmark, France, and Italy. Research Quarterly for Exercise and Sport, 2005, 76, .	0.8	1

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73	INFLUENCE OF ACETAMINOPHEN CONSUMPTION ON PERCEIVED EXERTION AT THE LACTATE CONCENTRATION THRESHOLD. Perceptual and Motor Skills, 2005, 101, 675.	0.6	1
74	Energetics of Middle-Distance Running Performances in Male and Female Junior Using Track Measurements. The Japanese Journal of Physiology, 2004, 54, 125-135.	0.9	11
75	Influence of Aerobic Fitness Level on Measured and Estimated Perceived Exertion During Exhausting Runs. International Journal of Sports Medicine, 2004, 25, 270-277.	0.8	39
76	Eccentric Cycle Exercise: Training Application of Specific Circulatory Adjustments. Medicine and Science in Sports and Exercise, 2004, 36, 1900-1906.	0.2	73
77	Effect of Exercise Intensity on Relationship between &OV0312;O2max and Cardiac Output. Medicine and Science in Sports and Exercise, 2004, 36, 1357-1363.	0.2	73
78	The critical power model for intermittent exercise. European Journal of Applied Physiology, 2004, 91, 303-307.	1.2	88
79	Cardiac output and oxygen release during very high-intensity exercise performed until exhaustion. European Journal of Applied Physiology, 2004, 93, 9-18.	1.2	18
80	Training effect on performance, substrate balance and blood lactate concentration at maximal lactate steady state in master endurance-runners. Pflugers Archiv European Journal of Physiology, 2004, 447, 875-883.	1.3	56
81	Changes in Physiological and Stroke Parameters During a Maximal 400-m Free Swimming Test in Elite Swimmers. Applied Physiology, Nutrition, and Metabolism, 2004, 29, S17-S31.	1.7	61
82	Heart Rate Variability during Exercise Performed below and above Ventilatory Threshold. Medicine and Science in Sports and Exercise, 2004, 36, 594-600.	0.2	87
83	Difference in Mechanical and Energy Cost between Highly, Well, and Nontrained Runners. Medicine and Science in Sports and Exercise, 2004, 36, 1440-1446.	0.2	43
84	Use of Lumbar Point for the Estimation of Potential and Kinetic Mechanical Power in Running. Journal of Applied Biomechanics, 2004, 20, 324-331.	0.3	7
85	Whichever the Initial Training Status, any Increase in Velocity at Lactate Threshold Appears as a Major Factor in Improved Time to Exhaustion at the Same Severe Velocity After Training. Archives of Physiology and Biochemistry, 2003, 111, 167-176.	1.0	30
86	The Effects of Interval Training on Oxygen Pulse and Performance in Supra-threshold Runs. Archives of Physiology and Biochemistry, 2003, 111, 202-210.	1.0	32
87	The Concept of Maximal Lactate Steady State. Sports Medicine, 2003, 33, 407-426.	3.1	268
88	Pulmonary Hemodynamics during a Strenuous Intermittent Exercise in Healthy Subjects. Medicine and Science in Sports and Exercise, 2003, 35, 1866-1874.	0.2	34
89	Training and Bioenergetic Characteristics in Elite Male and Female Kenyan Runners. Medicine and Science in Sports and Exercise, 2003, 35, 297-304.	0.2	154
90	Influence of Acute Moderate Hypoxia on Time to Exhaustion at vVË™O2max in Unacclimatized Runners. International Journal of Sports Medicine, 2003, 24, 9-14.	0.8	15

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91	INFLUENCE OF THE TYPE OF TRAINING SPORT PRACTISED ON PSYCHOLOGICAL AND PHYSIOLOGICAL PARAMETERS DURING EXHAUSTING ENDURANCE EXERCISES. Perceptual and Motor Skills, 2003, 97, 1150.	0.6	2
92	The Ratio HLa : RPE as a Tool to Appreciate Overreaching in Young High-Level Middle-Distance Runners. International Journal of Sports Medicine, 2002, 23, 16-21.	0.8	16
93	Effect of Training on the Physiological Factors of Performance in Elite Marathon Runners (Males and) Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	51
94	The Influence of Exercise Duration atVÌ‡O2max on the Offtransient Pulmonary Oxygen Uptake Phase During High Intensity Running Activity. Archives of Physiology and Biochemistry, 2002, 110, 383-392.	1.0	14
95	Effect of fatigue on spontaneous velocity variations in human middle-distance running: use of short-term Fourier transformation. European Journal of Applied Physiology, 2002, 87, 17-27.	1.2	19
96	Effect of training in humans on off- and on-transient oxygen uptake kinetics after severe exhausting intensity runs. European Journal of Applied Physiology, 2002, 87, 496-505.	1.2	39
97	Interval Training for Performance: A Scientific and Empirical Practice. Sports Medicine, 2001, 31, 13-31.	3.1	406
98	Interval Training for Performance: A Scientific and Empirical Practice. Sports Medicine, 2001, 31, 75-90.	3.1	121
99	La consommation de biscuits de consommation courante d'index glycÃ©mique bas avant un exercice Ã 80% permet de stabiliser la glycÃ©mie. Science and Sports, 2001, 16, 39-41.	0.2	0
100	Effect of free versus constant pace on performance and oxygen kinetics in running. Medicine and Science in Sports and Exercise, 2001, 33, 2082-2088.	0.2	36
101	The VË™O 2 slow component in swimming. European Journal of Applied Physiology, 2001, 84, 95-99.	1.2	42
102	Physical and training characteristics of top-class marathon runners. Medicine and Science in Sports and Exercise, 2001, 33, 2089-2097.	0.2	253
103	Effect of Supra-Lactate Threshold Training on the Relationship between Mechanical Stride Descriptors and Aerobic Energy Cost in Trained Runners. Archives of Physiology and Biochemistry, 2001, 109, 110-116.	1.0	29
104	Perceived Exertion Scales Attest to Both Intensity and Exercise Duration. Perceptual and Motor Skills, 2001, 93, 661-671.	0.6	37
105	Very Short (15 s - 15 s) Interval-Training Around the Critical Velocity Allows Middle-Aged Runners to Maintain VË™O2 max for 14 minutes. International Journal of Sports Medicine, 2001, 22, 201-208.	0.8	72
106	Relationship Between Run Times to Exhaustion at 90, 100, 120, and 140 % of vVË™O2max and Velocity Expressed Relatively to Critical Velocity and Maximal Velocity. International Journal of Sports Medicine, 2001, 22, 27-33.	0.8	69
107	STROKE VOLUME INCREASES IN AN ALL-OUT SEVERE CYCLING EXERCISE IN MODERATE TRAINED SUBJECTS. Medicine and Science in Sports and Exercise, 2001, 33, S18.	0.2	12
108	Maximal endurance time at &OV0312;O2max. Medicine and Science in Sports and Exercise, 2000, 32, 1496-1504.	0.2	26

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109	Intermittent runs at the velocity associated with maximal oxygen uptake enables subjects to remain at maximal oxygen uptake for a longer time than intense but submaximal runs. European Journal of Applied Physiology, 2000, 81, 188-196.	1.2	191
110	Oxygen kinetics and modelling of time to exhaustion whilst running at various velocities at maximal oxygen uptake. European Journal of Applied Physiology, 2000, 82, 178-187.	1.2	86
111	Influence of Light Additional Arm Cranking Exercise on the Kinetics of VË™O2 in Severe Cycling Exercise. International Journal of Sports Medicine, 2000, 21, 344-350.	0.8	4
112	VO2 slow component and performance in endurance sports. British Journal of Sports Medicine, 2000, 34, 83-85.	3.1	22
113	Relation entre le temps limite de course et l'intensitÃ© relative de l'exercice, exprimÃ©e en fonction de la vitesse critique et de la vitesse maximale. Science and Sports, 2000, 15, 242-244.	0.2	2
114	Calculation of times to exhaustion at 100 and 120% maximal aerobic speed. Ergonomics, 2000, 43, 160-166.	1.1	12
115	The Role of Cadence on the VË™O2 Slow Component in Cycling and Running in Triathletes. International Journal of Sports Medicine, 1999, 20, 429-437.	0.8	26
116	Determination of the velocity associated with the longest time to exhaustion at maximal oxygen uptake. European Journal of Applied Physiology and Occupational Physiology, 1999, 80, 159-161.	1.2	73
117	ModÃ¨les mathÃ©matiques et physiologiques de la performance humaine. Science and Sports, 1999, 14, 278-291.	0.2	5
118	Time in Human Endurance Models. Sports Medicine, 1999, 27, 359-379.	3.1	39
119	Oxygen Deficit is Related to the Exercise Time to Exhaustion at Maximal Aerobic Speed in Middle Distance Runners. Archives of Physiology and Biochemistry, 1999, 107, 280-285.	1.0	10
120	Interval training at V??O2max: effects on aerobic performance and overtraining markers. Medicine and Science in Sports and Exercise, 1999, 31, 156-163.	0.2	221
121	High Level Runners Are Able to Maintain a VO2 Steady-State Below VO2max in an All-Out Run Over Their Critical Velocity. Archives of Physiology and Biochemistry, 1998, 106, 38-45.	1.0	73
122	The VË™<scp>o</scp> ₂ slow component for severe exercise depends on type of exercise and is not correlated with time to fatigue. Journal of Applied Physiology, 1998, 85, 2118-2124.	1.2	100
123	Biomechanical Events in the Time to Exhaustion at Maximum Aerobic Speed. Archives of Physiology and Biochemistry, 1997, 105, 583-590.	1.0	24
124	Anaerobic contribution to the time to exhaustion at the minimal exercise intensity at which maximal oxygen uptake occurs in elite cyclists, kayakists and swimmers. European Journal of Applied Physiology, 1997, 76, 13-20.	1.2	73
125	Effect of Protocol on Determination of Velocity at VÌ‡O2max and on its Time to Exhaustion. Archives of Physiology and Biochemistry, 1996, 104, 313-321.	1.0	91
126	A comparison of time to exhaustion at [vdot]O2;max in elite cyclists, kayak paddlers, swimmers and runners. Ergonomics, 1996, 39, 267-277.	1.1	70

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127	Significance of the Velocity at &OV0312;O2max and Time to Exhaustion at this Velocity. Sports Medicine, 1996, 22, 90-108.	3.1	286
128	Use of Blood Lactate Measurements for Prediction of Exercise Performance and for Control of Training. Sports Medicine, 1996, 22, 157-175.	3.1	183
129	Gender effect on the relationship of time limit at 100% ??VO2max with other bioenergetic characteristics. Medicine and Science in Sports and Exercise, 1996, 28, 1049-1055.	0.2	62
130	An assessment of veering wind effects on scatterometry from the sea surface. International Journal of Remote Sensing, 1995, 16, 891-903.	1.3	2
131	Times to exhaustion at 90,100 and 105% of velocity at VÌ‡O₂max (Maximal aerobic speed) and critical speed in elite longdistance runners. Archives of Physiology and Biochemistry, 1995, 103, 129-135.	1.0	62
132	A Test to Approach Maximal Lactate Steady-State in 12-Year Old Boys and Girls. Archives of Physiology and Biochemistry, 1995, 103, 65-72.	1.0	13
133	A method for determining the maximal steady state of blood lactate concentration from two levels of submaximal exercise. European Journal of Applied Physiology and Occupational Physiology, 1994, 69, 196-202.	1.2	41
134	Times to exhaustion at 100% of velocity at $$dot V{ext{O}}_{ext{2}} $$ max and modelling of the time-limit / velocity relationship in elite long-distance runners. European Journal of Applied Physiology and Occupational Physiology, 1994, 69, 271-273.	1.2	71
135	Time to exhaustion at VO₂max and lactate steady state velocity in sub elite long-distance runners. Archives Internationales De Physiologie, De Biochimie Et De Biophysique, 1994, 102, 215-219.	0.1	31
136	Reproducibility of running time to exhaustion at &OV0312;O2max in subelite runners. Medicine and Science in Sports and Exercise, 1994, 26, 254-257.	0.2	134
137	Communique on veering wind effects on scatterometry from the sea-surface. , 0, , .		0
138	Use of a simulator for the study of the sensitivity of the signal sensed by the MERIS spectrometer. , 0, , .		1
139	Perceived Exertion Scales Attest to Both Intensity and Exercise Duration. , 0, .		5