

**Vladimir M. Zatsiorsky, Ph.D.**

Professor of Kinesiology, Department of Kinesiology,  
The Pennsylvania State University

**Professional  
Experience**

Since July 1993, Professor of Kinesiology,  
The Pennsylvania State University  
January 1995 – September 2004, Director of the Biomechanics  
Laboratory, Penn State University  
September 1991- June 1993, Visiting Professor, Biomechanics Laboratory,  
Department of Exercise and Sport Sciences, Penn State University  
May -August 1991, Visiting Professor at UCLA, Los Angeles  
December 1990 -May 1991, Visiting Professor at the University of  
Calgary, Canada  
September 1990-December 1990, Visiting Professor at UCLA, Los  
Angeles  
June 1989, Head of the Chair of Biomechanics in the Central Institute of  
Physical Culture, Moscow  
1987-1989, Director of the All-Union Research Institute of Physical  
Culture, Moscow  
1974-1987, Head and Professor of the Biomechanics Chair in the Central  
Institute of Physical Culture, Moscow  
1960-1974, Associate Professor and Full Professor at the Central Institute  
of Physical Culture, Moscow

**Honors**

2008 Jim Hay Award from the American Society of Biomechanics  
2003 Doctor *Honoris Causa* degree from The Russian State University of  
Physical Culture (Moscow, Russian Federation)  
1999 Honorary Member, International Association of Sports Kinetics  
1999 Doctor *Honoris Causa* degree from The Academy of Physical  
Education in Wroclaw, Poland  
1999 Journal of Sports Sciences, Editorial Board, member  
1999 Fellow of the American Academy of Kinesiology and Physical  
Education  
1998 Pauline Schmitt Russel Distinguished Research Career Award  
1996 Motor Control journal, Editorial Board member  
1993 Club of Cologne member  
1992 Geoffrey Dyson Award from the International Society of  
Biomechanics in Sports  
1992 Coaching and Sport Science Journal, Editorial Board  
1989 Council member, International Society of Biomechanics  
1989 Scandinavian Journal of Sport Science and Medicine, Advisory  
Board  
1986 Journal of Sport Sciences, Advisory Board  
1985 International Journal of Sport Biomechanics, Editorial Board  
1982-2003 Medical Commission of the International Olympic  
Committee, member

1976, 1982 National Gold Medals for the Best Scientific Research in Sport, USSR  
1999 Kinesiology (Croatia), Advisory Board, member  
2000 Facta Universitatis, University of Nis (Serbia and Montenegro), Editorial Board, member

**Membership**

International Society of Biomechanics  
American Society of Biomechanics  
American Academy of Kinesiology and Physical Education, Active Fellow  
American College of Sports Medicine  
Motor Control Society

**Scientific Advisory Activity**

over 75 Ph.D. dissertations

## LIST OF PUBLICATIONS

by Vladimir M. Zatsiorsky, Ph.D.

(February 2008)

### 1. BOOKS

1. Zatsiorsky V.M. Motor abilities of athletes. Moscow, FiS Publisher, 1966 (1-st Edition) and 1970 (2-nd Edition), (In Russian)
 

Saciorskij V.M. Die Korperliche Eigenschaften des Sportlers. Sonderheft Theorie und Praxis der Korperkultur, Leipzig, 1968 (1-te Auflage), (In German)

Saciorskij V.M. Die Korperliche Eigenschaften des Sportlers. Beiheft Theorie und Praxis der Korperkultur, 1971 (2-te Auflage), (In German)

Zaciorskij V.M. Die Korperliche Eigenschaften des Sportlers. Berlin West, Munchen, Frankfurt a. M., Bartels u. Wernitz, 1973(1-te Auflage), 1975 (2-te Auflage), 1977 (3-te Auflage), (In German)

Zaciorski V.M. Kształcenie cech motorycznych sportowca. Sport i Turystyka, Warszawa, 1970 (In Polish)

Zatsiorsky V.M. Motor abilities of athletes. Sofia, Medicina i Fizkultura, 1970 (In Bulgarian)

Zatsiorsky V.M. Motor abilities of athletes. Tokyo, 1972 (1-st Edition), 1973 (2-nd Edition), 1975 (3-d Edition), 1978 (4-th Edition), (In Japanese)

Zaciorskij V.M. Telesne vlastnosti sportovce. Praha, Universita. Karlova, 1970 (In Czech)

Zaciorski V.M. Fizicke sposobnosti sportiste. Beograd, Jugo- slovenski Zavod za Fizicku Kulturu, 1969 (In Serbo-Croatian)

Zaciorski V.M. Fizicka svojstva sportiste. Beograd, Savez za Fizicku Kulturu Jugoslavie, 1975 (In Serbo-Croatian)

Zatiorski V.M. Calitatile fizice ale sportivului. Bucuresti, Consiliul National Pentru Educatie Fizica si Sport, 1968 (In Romanian)

Zaciorskij V.M. Le quolita fisiche dello sportivo. Milano, Edizione Atletica Leggera, 1974 (In Italian)

Zaciorskij V.M. Le quolita fisiche dello sportivo. Roma, "Atletica Studi", numero speciale, 1975 (In Italian)
2. Zatsiorsky V.M. Cybernetic, mathematics, sport. Moscow, FiS Publisher, 1969 (In Russian)
 

Zatsiorsky V.M. Cybernetic, mathematics, sport. Sofia, Medizina i Fizkultura, 1969 (In Bulgarian)

Zaciorskij V.M. Kybernetik - Mathematik - Sport. "Theorie und Praxis der Korperkultur", 1971, #12; 1972, ## 1-5

- Zaciorsky V.M. Matematika, kibernetika i sport. Beograd, Partizan, 1974 (In Serbo-Croatian)
- Zaciorskij V.M. Kybernetika - matematika - sport. Praha, SPN, 1974 (In Czech)
3. Zatsiorsky V.M. Biodynamics of Sport Technique. (Author of chapters and editor), Moscow, Central Institute of Physical Culture, 1978. 234 p. (In Russian)
  4. Donskoj D.D., Zatsiorsky V.M. Biomechanics. Moscow, FiS Publisher, 1979 (In Russian)
 

Donskoj D.D., Zaciorsky V.M. Biomechanika. Beograd, Partizan, 1982 (In Serbo-Croatian)

Donskoj D.D., Zatsiorskij V.M. Biomeccanica. Roma, Societa Stampa Sportiva, 1983 (In Italian)

Donskoj D.D., Zatsiorski V.M. Biomecanica de los ejercicios fisicos. Moscu, Raduga Editorial, 1988 (In Spanish)

Donskoj D.D., Zatsiorsky V.M. Biomechanics. Peking, 1986 (In Chinese)
  5. Zatsiorsky V.M. Basis of sports metrology. Moscow, FiS Publisher, 1979 (In Russian)
 

Zatsiorsky V.M. Basis of sports metrology. Sofia, Medizina i Fizkultura, 1982 (In Bulgarian)
  6. Zatsiorsky V.M., Aruin A.S., Selujanov V.N. Biomechanics of human musculo-skeletal system. Moscow, FiS Publisher, 1981 (In Russian)
 

Saziorski W.M., Aruin A.S., Selujanow W.N. Massengeometrie des menschlichen Körpers. Theorie und Praxis der Korperkultur, 1982, #6 S. 399-412; #7, S.533-541 (In German. Chapters from the book)

Saziorski W.M., Aruin A.S., Selujanow W.N. Biomechanik des menschlichen Bewegungsapparates. Berlin, Sportverlag, 1984 (In German)
  7. Zatsiorsky V.M. Sports metrology. Moscow, FiS Publisher, 1982 (Editor and main author) (In Russian)
 

Zatsiorski V.M. Metrologia Deportiva. Libro de Texto. Editorial Planeta, Moscu, 1989. Editorial Pueblo Y Educacion, Ciudad de La Habana, 1989 (In Spanish)
  8. Zatsiorsky V.M., Aleshinsky S., Jakunin N.A. Biomechanical basis of endurance. Moscow, FiS Publisher, 1982 (In Russian)
 

Saziorski W.M., Aljeschinski S., Jakunin N.A. Biomechanische Grundlagen der Ausdauer. Berlin, Sportverlag, 1986 (In German)
  9. Aruin A.S., Zatsiorsky V.M. Occupational biomechanics. Moscow, Mashinostroenie, 1989 (In Russian)
  10. Zatsiorsky V.M. Science and Practice of Strength Training. Human Kinetics Publishers. Champaign, Illinois, 1995 (In English)

- Zatsiorsky V.M. Krafttraining. Praxis und Wissenschaft. Aachen: Meyer & Meyer, 1996 (1st edition), 1999 (2<sup>nd</sup> edition) (In German)
- Zatsiorsky V.M. Ciência e Prática do Treinamento de Força. Sao Paulo: Phorte Editora, 1999 (In Portuguese)
11. Zatsiorsky V.M. Kinematics of Human Motion. Champaign, Illinois: Human Kinetics Publishers. 1998
- Zatsiorsky V.M. Kinematics of Human Motion. Tokyo, Japan: NAP Limited 2001 (In Japanese)
12. Zatsiorsky V.M. (ed.) Biomechanics in Sports: Performance Enhancement and Injury Prevention, Oxford, UK; Blackwell Science Ltd. 2000
- Zatsiorsky V.M (ed). Biomecânica no Esporte. Rio de Janeiro, Brazil: Guanabara Koogan, 2004 (In Portuguese)
- Zatsiorsky V.M. (ed.) Biomechanics in Sports: Performance Enhancement and Injury Prevention, Beijing, 2005 (In Chinese)
13. Latash ML, Zatsiorsky VM (eds.) (2001) Classics in Movement Science. Champaign, IL: Human Kinetics
14. Zatsiorsky V.M. (2002) Kinetics of Human Motion. Champaign, IL: Human Kinetics
15. Zatsiorsky V.M., W. Kraemer (2006) Science and Practice of Strength Training (2<sup>nd</sup> edition). Champaign, IL: Human Kinetics (also being published in German, Italian, Portuguese, Romanian, Serbian, and Japanese).

## 2. BOOK CHAPTERS

15. Zatsiorsky V.M. Training of motor abilities. In: Novikov A.D., Matveeff L.P. Theory and Methods of Physical Education, Moscow, FiS Publisher, 1967, v.1, pp.168-231, 321-324 (1-st Edition); 1976 (2-nd Edition), (In Russian)
- Methods of body building. Ibidem, 1967, v.2, pp.210-215 (1-st Edition), 1976 (2-nd Edition)
- Saziorski W.M. Training of motor abilities. In: Novikow A.D., Matveew L.P. (Hrsg.), Theorie und Praxis der Korpererziehung. Berlin, Sportverlag, 1981 (In German)
16. Zatsiorsky V.M. Scientific basis of conditioning. In: Chomenkov L.S. & Matveeff L.P. (Eds.) Sovjet system of physical education. Moscow, FiS Publisher, 1975, pp.131-146 (In Russian)
17. Zatsiorsky VM. (2003) Biomechanics of strength and strength training (2<sup>nd</sup> edition). In: P.V. Komi (ed). Strength and Power in Sport. The Encyclopaedia of Sports Medicine. An IOC Medical Commission Publication. Blackwell Science, pp. 439-487.

## 3. SCIENTIFIC PAPERS

18. Zatsiorsky V.M., Volkov N.I., Fruktov A.L. (1959) The study of the transfer of training in race walking and running. Theory and Practice of Physical Culture, #10, pp.759-763 (In Russian)
- Saziorski W.M., Wolkov N.I., Fruktov A.L. (1961) Untersuchungen im Hinblick auf die Übertragung des Trainingszustandes vom Lauf aus das Gehen. Theorie und Praxis der Körperkultur, , Jhg.10 , H.8, S.717-723 (In German)
19. Zatsiorsky V.M. (1960) Transfer of training - one of the main problem of the theory and practice of physical education. Theory and Practice of Physical Culture., v. 23, #9, pp.652-658 (In Russian)
- Zaciorski W.M. (1961) Transfer wytrenowania - jedna z centralnych zagadnien teorii i praktyki wychowania fizycznego. Kultura Fizyczna, , R.16, s.936-942 (In Polish)
20. Zatsiorsky V.M. (1961) Investigations of transfer of training in locomotions. In: Scientific Transactions, Central Institute of Physical Culture, Moscow, 1961, pp.58-68 (In Russian)
21. Volkov N.I., Zatsiorsky V.M. (1961) About the magnitude and system of sport training load. Theory and Practice of Physical Culture. 1961, v. 24, #3, pp.212-215 (In Russian)
- Wolkov N.I., Saziorski W.M. (1961) Umfang und System der Trainingbelastung. Der Leichtathletik, #35, S.16-20, (In German)
22. Zatsiorsky V.M., Bushuev V.G. (1961) Contemporary training methods of elite weightlifters. Theory and Practice of Physical Culture. 1961, v. 24, #6, pp.443-446 (In Russian)
23. Zatsiorsky V.M. (1961) Training of motor abilities of athletes. Moscow, Central Institute of Physical Culture (In Russian)
- Zaciorski V.M. (1962) Kształcenie cech motorycznych. Lekka Atletyka, ## 76, 77, 78 (In Polish)
24. Zatsiorsky V.M., Filin V.P. (1962) Toward theoretical foundation of contemporary methods of speed training. Theory and Practice of Physical Culture, #6, pp.23-28 (In Russian)
- Zaciorski W.M., Filin W.P. (1963) Teoretyczne uzasadnienia wspolzesnej metodyki ksztaltowania szybkości ruchow. Lekka Atletyka, #10 (90), s. 8-10
25. Zatsiorsky V.M., Godik M.A. (1962) Mathematics and decathlon. Track and Field. #10, pp.28-29 (In Russian)
- Zaciorski W.M., Godik M.A.(1963) Matematyka dziesiboju. Kultura Fizyczna. R.16, ##11-12, pp.756-758 (In Polish)
26. Zatsiorsky V.M. (1962) Interrelations between maximal velocity magnitudes in voluntary movements (Part 1). Transactions of the Academy of Pedagogical Science. #6, pp.345-356 (In Russian)

27. Zatsiorsky V.M. (1963) Weight training directed to increase muscle size. Theory and Practice of Physical Culture, v.26, #2, pp.24-26 (In Russian)
28. Zaciorski W.M. (1963) Przerost roboczy miesni szkieletowych jako czynnik w zwikszaniu sily sportowcow. Kultura Fizyczna, R.16, #2, s .147-160 (In Polish)
29. Zatsiorsky V.M., Godik M.A. (1963) Main factors influencing the performance in decathlon. Theory and Practice of Physical Culture, v. **26**, #8, pp.27-30 (In Russian)
30. Bojko A.F., Volkov N.I., Zatsiorsky V.M. (1963) The study of restitution reactions in middle distance runners. Theory and Practice of Physical Culture, v. **26**, #3, pp.32-36 (In Russian)
31. Zatsiorsky V.M. (1963) Cybernetics and sport. Sport za rubezom, #20, p.15-16 (In Russian)
32. Zatsiorsky V.M., Godik M.A. (1963) Interrelations between maximal velocity magnitudes in voluntary movements (Part 2). New Studies in Pedagogical Sciences. Izvestia of the Academy of the Pedagogical Sciences, #129, pp.214-215 (In Russian)
33. Zatsiorsky V.M., Godik M.A., Yarmulnik D.N. (1963) Use of the mathematical methods for estimation of the special motor abilities of athletes. Theory and Practice of Physical Culture, v. **27**, #2, pp.33-37 (In Russian)
34. Volkov N.I., Zatsiorsky V.M. (1964) Some problems of the theory of training loads. Theory and Practice of Physical Culture, v. **27**, #6, pp.20-23 (In Russian)
35. Zatsiorsky V.M., Petrov I.F. (1964) Applied aspects of the analysis of the relations between the strength and body weight of the athletes. Theory and Practice of Physical Culture, v. **27**, #7, pp.71-73 (In Russian)
36. Zatsiorsky V.M., Matveev E.N. (1964) Force-velocity relations in throwing (as related to the selection of the training exercises). Theory and Practice of Physical Culture. v. **27**, #8, pp.24-28 (In Russian)
37. Zatsiorsky V.M, Arestov Ju.M. (1964) Experimental investigations of the correlation between age, morphological and functional features in 11-15 year boys. New Investigations in Pedagogical Sciences. Izvestia of the Academy of Pedagogical Science of the RSFSR, #33, pp.211-216 (In Russian)
- Zatsiorski V.M., Arestov Yu.M. (1964) Experimentálne sledovanie korelacnich zavislosty mezi vekem, morfologickým i funkcnymi ukazateli u 11-15 letych chlapcu. Teorie a praxe telesne vychovy, R.**12**, #3, s.112-116 (In Czech)
38. Zatsiorsky V.M., Arestov Ju.M (1964) Multiple correlation between exercise performance and the age, weight and height of 11-15 years boys. New Investigations in Pedagogical Sciences. Izvestia of Academy of Pedagogical Sciences. # 136, pp.123-128 (In Russian)

- Zatsiorski V.M., Arestov Yu.M. (1964) Mnohonasobni korelacni zavislosti vysledku telovychovnych vykonu na veku, vase i vyske u 11-15 letych chlapcu. Teorie a praxe telesne vychovy, R.12, #5, s.220-223 (In Czech)
39. Zatsiorsky V.M., Lavkin E.P., Solovjeva G.V. (1964) Mathematical modelling of the skill acquisition process. Materials of the 2-nd Conference on Physical Education of the School Children. Moscow, pp.49-56 (In Russian)
40. Volkov N.A., Zatsiorsky V.M. (1964) Blood lactate kinetics at strenuous physical exercise. Acta biologica et medica Germanica, Bd.13, #5, pp.267-280 (In Russian)
41. Zatsiorsky V.M. (1965) Cybernetics in physical education. Theory and Practice of Physical Culture. v. 28, #5, p.20 and #4, p.12 (In Russian)
- Saciorski W.M. (1966) Kybernetik und Korpererziehung. Theorie und Praxis der Korperkultur. Jhg.15, #7, S.625; #9, S. 786; #10, S. 878 (In German)
- Zatsiorski V.M. (1969) Cibernetica si educatia fizica. In: Cibernetica si Sport. Bucuresti, 1969, s.117-151 (In Rumanian)
42. Zatsiorsky V.M., Volkov N.I., Kulik N.G. (1965) Two types of endurance indices. Theory and Practice of Physical Culture. #2, pp.21-23 (In Russian)
- Zaciorski W.M., Wolkov N.I., Kulik N.G. (1965) O dwoch typach wskaznikow wytrymalosci. Materialy Szkoleniowe. #6(24), s.45-49. (In Polish)
43. Zatsiorsky V.M., Godik M.A. (1965) Method and the first results of the measurements of the explosive strength of the athletes. Theory and Practice of Physical Culture. v.28, #7, pp.22-24 (In Russian)
- Zaciorski W.M., Godik M.A. (1966) Metodika i pierwsze wyniki badan nad sila szybkoosciowa u sportowcow. Kultura Fizyczna, R.19, #2, ss.88-92 (In Polish)
- Saziorski W.M., Godik M.A. (1967) Methodik und erste Ergebnisse der Untersuchung der Schnellkraft bei Sportlern. In: Biomechanik sportlicher Bewegungen. Leipzig, DHFK, (In German)
44. Zatsiorsky V.M. (1965) Cybernetics and sport. In: Program Teaching and Technical Means in Sport Training. Minsk, pp.67-73 (In Russian)
45. Zatsiorsky V.M., Godik M.A. (1965) Stochastic relationships between the reaction times of the simple sensomotor tasks. In: Programming Teaching and Technical Means in Sport Training.Minsk, pp.33-39 (In Russian)
46. Zatsiorsky V.M. (1965) Transfer of training results in motor tasks. In: Coordination of Motor and Vegetative Functions during Human Physical Activity. Academy of Science of the USSR, Nauka Publishing House, Moscow-Leningrad, 1965, pp.117-133 (In Russian)
47. Zatsiorsky V.M. (1965) Interval Methods in Endurance Training. Methodical Letter. Moscow, 1965, 78 p. (In Russian)
48. Zatsiorsky V.M. (1965) Conditioning for Strength. Methodical Letter. Moscow, 89 p (In Russian)

49. Zatsiorsky V.M. (1965) Modelling of some aspects of sport training. In: Cybernetics and Sport (Edit. by V.M. Zatsiorsky), Moscow, Central Institute of Physical Culture, pp.3-9 (In Russian)
50. Zatsiorsky V.M. (1965) Factor analysis of the peak speed-time characteristics in voluntary motor reactions. In: Cybernetics and Sport (Edit. by V.M. Zatsiorsky), Moscow, Central Institute of Physical Culture, pp.26-29 (In Russian)
51. Zatsiorsky V.M., Popov Yu.M. (1965) Path planning and path graphs in sports training. In: Cybernetics and Sport (Edit. by V.M. Zatsiorsky ). Moscow, Central Institute of Physical Culture, pp.88-93 (In Russian)
52. Zatsiorsky V.M., Lavkin E.P., Solovjeva R.P.(1965) Mathematical modelling of the learning of motor tasks (based on the Bush-Mosteller model). In: Cybernetics and Sport (Edit. by V.M. Zatsiorsky ), Moscow, Central Institute of Physical Culture, pp.94-98 (In Russian)
53. Zatsiorsky V.M., Averkovich N.V. (1965) Statistical distribution of the sports results. In: Cybernetics and Sport (Edit. by V.M. Zatsiorsky ), Moscow, Central Institute of Physical Culture, pp.72-75 (In Russian)
54. Zatsiorsky V.M. (1965) Selection of the members of the National Olympic teams in combat sports on the base of the matrices of domination. In: Cybernetics and Sport (Edit. by V.M. Zatsiorsky), Moscow, Central Institute of Physical Culture, pp.98-101(In Russian)
55. Zatsiorsky V.M., Kulik N.G. (1966) Estimation training loads by the method of summation pulsometry. Theory and Practice of Physical Culture. v.**29**, #3, pp.44-47 (In Russian)
56. Zatsiorsky V.M. Godik M.A. (1966) Human motorics as multidimensional continuum. Theory and Practice of Physical Culture. 1966, v. **29**, #8, pp.28-34 (In Russian)
57. Zatsiorsky V.M., Frolov O.P. (1966) Methods of operation research in analysis of sport tactic. Theory and Practice of Physical Culture. v. **29**, #8, pp.28-34 (In Russian)
- Zatiorski W.M., Frolov O.P. (1969) Folosirea metodelor de cercetare a operativlor pertru analiza tacticii sportive. In: Cibernetica si Sport, Bucuresti, pp.1-8 (In Rumanian)
58. Zatsiorsky V.M., Sarsania S.K. (1966) Frequency analysis of the effect of breathing on the heart rhythm. Biofizika, v.**10**, #5, pp.894-899 (In Russian)
59. Zatsiorsky V.M., Sarsania S.K. (1966) Autocorrelation analysis of the heart rate intervals in man. Biofizika, v.**10**, #5, pp.928-932 (In Russian)
60. Zatsiorsky V.M., Averkovich N.V. (1966) Factor analysis of the strength tests. Theory and Practice of Physical Culture. v.29, pp.47-49 (In Russian)
61. Zatsiorsky V.M. (1966) About mathematical foundations of the sport theory. In: Materials of scientific conference. Moscow, Central Institute of Physical Culture, pp.22-29 (In Russian)

62. Zatsiorsky V.M., Frolov O.P. (1966) Quantitative assessment of the level of automatization of some voluntary movements. In: XXIth meeting in High Nervous Activity Problems. Academy of Science of the USSR, Leningrad, Nauka Publishing House, pp.48-51 (In Russian)
63. Zatsiorsky V.M., Kulik N.G. (1967) Many-day longitudinal registration of heart rhythm in athletes. Theory and Practice of Physical Culture, v. **29**, #9, pp.16-20 (In Russian)
64. Zatsiorsky V.M., Smirnov Yu.I., Micheev A.I. (1967) The effects of the isometric training at different joint angles on the strength and velocity of movements. Theory and Practice of Physical Culture, v. **30**, #11, pp.24-27 (In Russian)
65. Zatsiorsky V.M. (1967) Basics of endurance fitness and training . Coaches Thought. 1967, ##4 and 5 (In Bulgarian)
66. Zaciorskij V.M. (1967) Rozvoj vytrvalosti u sportovcov. Trener a cvicitel. R.**11**,#5, s.324-250 (In Czech)
67. Zaciorski V.M., Michailov V.V., Geselevich V.A. (1967) Untersuchung uber die Abhangigkeit der funktionellen Moglichkeiten der Sportler von ihrem Korpergewicht. Medizin und Sport, #6, S.169-173 (In German)
68. Zatsiorsky V.M., Zaporosanov V.A. (1968) The change of the athletes state as a multidimensional stochastic process (the P-factor analysis). Theory and Practice of Physical Culture, v.**31**, pp.73-76 (In Russian)
69. Zatsiorsky V.M., Smirnov Ju.I. (1968) The influence of the force gradient on the performance in speed-strength tasks. Theory and Practice of Physical Culture. 1968, v. **31**, #7, pp.63-68 (In Russian)
70. Zatsiorsky V.M., Volkov N.I., Cheremisinov V., Razumovsky E.A (1968 ) The experience in application of the mathematical theory of the extremal research design in a search of optimal methods of training. Theory and Practice of Physical Culture. v. **31**, #11, pp.26-31 (In Russian)
71. Zatsiorsky V.M., Kulik N.G., Smirnov Ju.I. (1968, 1969 ) The study of relationships between the motor abilities. Theory and Practice of Physical Culture. Part 1, v.**31**, #12, pp.35-48; Part 2.1969, v. **32**, #1, pp.2-8; Part 3. 1969, #2, pp.28-33 (In Russian)
- Zaciorskij W.M., Kulik N.G., Smirnov Ju.I. (1971) Dipendenze reciproche tra la capacita del fisico umano. Atletica Leggera. Gennaio 1971, #137 (In Italian)
- Saciorskij W.M., Kulik N.G., Smirnov Ju.I. (1970) Die Wechselbeziehungen zwischen der korperlichen Eigenschaften. Theorie und Praxis der Korperkultur. Jhg.19, #2, S.141-159 (In German)
- Zaciorski W.M., Kulik N.G., Smirnov Ju.I (1969) Zależności między cechami motorycznymi. Sport Wyczynowy, , R. **7**, #10 (In Polish)
- Zaciorskij W.M., Kulik N.G., Smirnov Ju.I. (1977) Wechselbeziehungen zwischen den motorischen Fahigkeiten. In: Rieder H.(Hrsg.) Bewegungslehre des Sports, Karl Hoffmann Verlag, Schorndorf (In German)

72. Zatsiorsky V.M., Machin A.M., Chepik V.D. (1968) The device for programming the heart frequency during physical exercise. In: Electronics and Sport. Leningrad, pp.98 -101 (In Russian)
73. Zatsiorsky V.M. (1968) Statistical analysis of the 3-dimensional matrices as a foundation to a working out of the standard programs for the investigations in the sport science. In: Computers in Sport Science. Moscow, Central Institute of Physical Culture, 1968, pp.2-5 (In Russian)
74. Zatsiorsky V.M. (1968) Autocorrelation analysis in sports medicine. In: Karpman V.L., Kukolevsky G.M.(Eds.), Heart and Sport. Moscow, Medizina Publishing House, 1968, pp.367-374 (In Russian)
75. Zatsiorsky V.M., Sarsania S.K. (1968) The study of the physiological arrhythmia of a heart. In: Parin V.V., Baevsky R.M.(Eds.), Mathematical Methods of the Heart Rhythm Analysis. Academy of Sciences of the USSR, Moscow, Nauka Publishing House, pp.21-30 (In Russian)
76. Zatsiorsky V.M., Sarsania S.K. (1968) Autocorrelation analysis of the heart rhythm. In: Civilization, Sport and Heart.Problems of Sport Medicine. Moscow, FiS Publishing House, pp.65-68 (In Russian)
77. Zatsiorsky V.M., Kulik N.G. (1968) Estimation of the training and competition load in wrestlers by the telemetric and summation registration of the heart activity. Questions of the Physical Culture. Sofia, 1968, v.13, #11, pp.674- 680 (In Bulgarian)
78. Zatsiorsky V.M., Cheremisinov V., Rasumovsky E.A., Volkov N.I. (1968) Effects of the main characteristics of physical activity on the indices of anaerobic metabolism. In: Materials of the X-th All-Union Conference on Physiology, Morphology and Biomechanics of Physical Activity. Tartu, v. 3, pp.154-158 (In Russian)
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