

Citations in scientific publications

Koumanov, K., J.W. Hopmans, L.J. Schwankl, L. Andreu, and A. Tuli (1997). Application efficiency of micro-sprinkler irrigation of almond trees. *Agricultural Water Management*, 34: 247-263.

Cited in:

1. Vrugt, J.A., J.W. Hopmans and J. Šimunek (2001a). Two-dimensional root water uptake model for a sprinkler-irrigated almond tree. *Soil Science Society of America Journal* 65: 1027-1037 (impact factor).
2. Vrugt, J.A., M.T. van Wijk, J.W. Hopmans and J. Šimunek (2001b). Comparison of one, two, and three-dimensional root water uptake functions for transient water flow modeling. *Water Resources Research* 37: 2457-2470 (impact factor).
3. Iniesta, F., L. Testi, D.A. Goldhamer and E. Fereres (2008). Quantifying reductions in consumptive water use under regulated deficit irrigation in pistachio (*Pistacia vera* L.). *Agricultural Water Management* 95: 877-886 (impact factor).
4. Phogat, V., M. Mahadevan, M. Skewes and J.W. Cox (2011). Modeling soil water and soil dynamics under pulsed and continuous surface drip irrigation of almond and implications of system design. *Irrigation Science*. DOI 10.1007/s00271-011-0284-2 (impact factor).
5. Young, M.H. and J.Y. Sisson. 2002. Tensiometry. In: J. Dane and C. Topp, (eds.) *Methods of soil analysis, Part 4, SSSA Book Series: 5*. Am. Soc. Agron., Madison, WI. pp. 575-609 (книга).
6. Hopmans, J.W. and K.L. Bristow (2002). Current capabilities and future needs of root water and nutrient uptake modeling. In: Sparks D.L. (ed.) *Advances in Agronomy* 77: 103-183 (impact factor).
7. Liu, H.-J. and Y. Kang (2007). Sprinkler irrigation scheduling of winter wheat in the North China Plain using a 20 cm standard pan. *Irrigation Science* 25(2): 149-159 (impact factor).
8. De Alencar, C.A.B., F.F. da Cunha, M.M. Ramos, A.A. Soares, T. de Assunção Pizziolo, R.A. de Oliveira (2007). Análise da automação em um sistema de irrigação convencional fixo por miniaspersão. *Engenharia na Agricultura*, Viçosa, MG, v.15, n.2, 109-118.
9. Wang, H., H.-T. Wang (2009). Warm temperate forest of channels and the realization of water management measures. *Nonwood Forest Research*, 27(2):
10. Özmen, S. (2009). Effect of Different Irrigation Levels onto Plant Development, Yield and Quality of Grafted and No Grafted Watermelons under

- Çukurova Conditions. *Ph.D Thesis*, Dept. of Natural and Applied Sciences, University of Çukurova, 115 pp.
- 11.Vrugt, J.A. (2004). Towards Improved Treatment of Parameter Uncertainty in Hydrologic Modeling. *Ph.D. Thesis*, University of Amsterdam, The Netherlands, 253 pp. (ISBN: 90-76894-46-9).
 - 12.Da Silva, A.J.P. (2009). Variáveis de eficiência, manejo de irrigação e de produção da bananeira cultivar BRS Tropical sob diferentes sistemas de microaspersão e gotejamento. *Dissertação Mestre em Ciências*. Universidade de São Paulo, Escola Superior de Agricultura “Luis de Queiros”, 72 pp.
 - 13.Derdall, E. (2008). Best Management Practices of a Solar Powered Mini-Pivot for Irrigation of High Value Crops. *M.Sc. Thesis, Department of Agricultural and Bioresource Engineering, University of Saskatchewan, Canada*, 114 pp.
 - 14.Joubert, J. (2007). The Effect of Different Water and Nutrient Management Strategies on the Calcium Content in Apple Fruit. *M.Sc. Thesis, Dept. of Agricultural Science, University of Stellenbosch, South Africa*, 172 pp.
 - 15.Ghrab, M., K Gargouri, H. Bentaher (2003). Influence de l'irrigation goutte a goutte par des eaux chargées sur un sol léger. In Camarda D. and Grassini L. (Eds.). *Local resources and global trades: Environments and agriculture in the Mediterranean region. Bari: CIHEAM-IAMB (Options Méditerranéennes: Série A. Séminaires Méditerranéens; n. 57): 63-67.*
 - 16.Hanson B., J. Hopmans, A. Gardenas, J. Simunek (2005). Agricultural water use and sustainability.
http://hopmans.lawr.ucdavis.edu/3_irrigation_water_management.htm
 - 17.Kanber, R., P. Steduto, M. Unlü, Y. Aydyn, B. Ozekici, Ö. Cetinkökü, S. Ozmen. 2003. Growth, yield and periodicity of pistachio under different water and nutritional levels: investigation in the Southeastern Anatolia project region (GAP). In Hamdy A. (ed.). *Regional Action Programme (RAP): Water resources management and water saving in irrigated agriculture (WASIA PROJECT)*. Bari: CIHEAM-IAMB, 2003. p. 183-201.
 - 18.Liu, H.-J. and Y. Kang (2004). Sprinkler Irrigation Scheduling Using 20 cm Standard Pan. Paper No 042093, *ASAE Annual Meeting*, Ottawa, Canada August 1-4, 2004, 13pp.
 - 19.Young, M.H. and J.B Sisson. 2002. Tensiometry. In: Young M.H., *Introduction to Vadoze Zone Hydrology*. Geology – 719, University of Nevada Las Vegas, pp. 1-34.
 - 20.Edstrom, J. and L. Schwankl. 1998. Micro-irrigation system comparison for almonds. In: *Proceedings of the 19th annual Irrigation Association international exposition and technical conference*, San Diego, CA. Irrigation Assn., Falls Church, Va. Pp. 63-70.

Schwankl, L.J., J.P. Edstrom, J.W. Hopmans, L. Andreu, and **K.S. Koumanov** (1999). Microsprinklers wet larger soil volume; boost almond yield, tree growth. *California Agriculture* 53(2): 39-43.

Cited in:

21. Romero P., P. Botia, F. Garcia (2004). Effects of regulated deficit irrigation under subsurface drip irrigation conditions on vegetative development and yield of mature almond trees. *Plant and Soil* 260(1-2): 169–181 (impact factor).
22. Schwankl L.J., B.R. Hanson (2007). Surface drip irrigation. In: *Microirrigation for Crop Production* (F.R. Lamm, J.E. Ayars and F.S. Nakayama Eds.), 431-472 (книга).
23. Wichelns, D. (2006). Economic implications of microirrigation. In: *Microirrigation for Crop Production* (F.R. Lamm, J.E. Ayars and F.S. Nakayama Eds.), Elsevier B.V., 221-258 (книга).
24. Bryla, D.R., E. Dickson, R. Shenk, R.S. Johnson, C.H. Criososto and T.J. Trout (2005). Influence of irrigation method on patterns of soil and tree water status and its relation to yield and fruit quality in peach. *HortScience* 40(7): 2118-2124.
25. Edstrom J.P. and L.J. Schwankl (2002). Microirrigation of almonds. *Acta Hort.* 591: 5005-5008.
26. Edstrom, J.P., R.D. Meyer, Jiayou Deng (2008). Potassium fertilizer application in drip and micro-jet irrigated almonds. *Acta Hort.* (ISHS) 792:257-263
27. Murray, M. and Edstrom, J.P. 2009. The Leslie J. Nickels estate: challenging the paradigm of funding public research and extension. *Acta Hort.* (ISHS) 832:153-160
28. Hanson B., J. Hopmans, A. Gardenas, J. Simunek (2005). Agricultural water use and sustainability.
http://hopmans.lawr.ucdavis.edu/3_irrigation_water_management.htm.
29. Mammen, G. 2010. Performance Evaluation of Clay Emitter for Bush Pepper (*Piper nigrum* L.). *Ph.D. Thesis*, Department of Soil, Water, Land Engineering and Management, Vaugh School of Agricultural Engineering and Technology, Sam Higginbottom Institute of Agriculture, Technology & Sciences, Allahabad, India, 127 pp.
30. Smart, D.R., K.M. Scow and K. Hristova (2010). The role of microbial community function in spatial and temporal variation of nitrous oxide gas emissions from California perennial cropping systems. *Kearney Foundation of Soil Science: Understanding and Managing Soil-Ecosystem Functions Across Spatial and Temporal Scales*, 2006-2011 Mission, 6 pp.
31. Smart, D.R., M. Mar Alsina, M.W. Wolff, M.G. Matiassek, D.L. Schellenberg, J.P. Edstrom, P.H. Brown and K.M. Scow (2011). N₂O emissions and water management in California perennial crops. In: Guo, L., et al. (eds.)

Understanding Greenhouse Gas Emissions from Agricultural Management, ACS Symposium Series, American Chemical Society, pp. 227-255.

32. Sne M. (2011). Sprinkler Irrigation: Technology and Application. *Scribd network*, 273 pp. (book)

Koumanov, K.S., J.W. Hopmans and L.J. Schwankl (2004). Soil water dynamics in the root zone of a micro-sprinkler irrigated almond tree. *Acta Horticulturae (ISHS)* 664:369-375.

Cited in:

33. Nelson P.N., M. Banabas, D.R. Scotter and M.J. Webb (2006). Using soil water depletion to measure spatial distribution of root activity in oil palm (*Elaeis guineensis* Jacq.) plantations. *Plant and Soil* 286(1-2): 109-121 (impact factor).

34. Banabas, M, (2007). Study of Nitrogen Loss Pathways in Oil Palm (*Elaeis Guineensis* Jacq.) Growing Agro-Ecosystems on Volcanic Ash Soils in Papua New Guinea. *Ph.D. Thesis, Massey University, Palmerston North, new Zealand*, 327 pp.

35. Hanson B., J. Hopmans, A. Gärdenäs, J. Šimůnek (2005). Agricultural water use and sustainability.
http://hopmans.lawr.ucdavis.edu/3_irrigation_water_management.htm

Koumanov, K.S., J.W. Hopmans and L.J. Schwankl (2006). Spatial and temporal distribution of root water uptake of an almond tree under microsprinkler irrigation. *Irrigation Science* 24(4): 267-278.

Cited in:

36. Iniesta, F., L. Testi, D.A. Goldhamer and E. Fereres (2008). Quantifying reductions in consumptive water use under regulated deficit irrigation in pistachio (*Pistacia vera* L.). *Agricultural Water Management* 95: 877-886 (impact factor).

37. Phogat, V., M. Mahadevan, M. Skewes and J.W. Cox (2011). Modeling soil water and soil dynamics under pulsed and continuous surface drip irrigation of almond and implications of system design. *Irrigation Science*. DOI 10.1007/s00271-011-0284-2 (impact factor).

38. Ezzaouani, A., C. Valancogne, P. Pieri, T. Amalak, J.-P. Gaudillère. 2007. Water economy by Italia grapevines under different irrigation treatments in a mediterranean climate. *J. Int. Sci. Vigne Vin*. 41(3): 131-139 (impact factor).

39. Sokalska, D.I., D.Z. Haman, A. Szewczuk, J. Sobota and D. Dereń (2009). Spatial root distribution of mature apple trees under drip irrigation system. *Agricultural Water Management* 96: 917-924 (impact factor).
40. Srayeddin, I., C. Doussan (2009). Estimation of the spatial variability of root water uptake of maize and sorghum at the field scale by electrical resistivity tomography. *Plant and Soil* 319(1-2): 185-207 (impact factor).
41. Garré, S., M. Javaux, J. Vanderborght, L. Pagès, and H. Vereecken (2011). Three-dimensional electrical resistivity tomography to monitor root zone water dynamics. *Vadose Zone Journal* 10: 412-424. (impact factor)
42. Bufon, V.B. (2010). Optimizing Subsurface Drip Irrigation Design and Management with Hydrus-2D/3D Model. Ph.D. *Dissertation*, Texas Tech University, 161 pp.
43. Garré, S. (2010). Non-invasive monitoring of water and solute fluxes in a cropped soil. *Inaugural-Dissertation zur Erlangung des Grades Doktor der Agrarwissenschaften*, Rheinischen Friedrich-Wilhelms-Universität, Bonn, 132 pp.
44. Garré, S. (2010). Non-invasive monitoring of water and solute fluxes in a cropped soil. *Forschungszentrum Jülich, Reihe Energie & Umwelt*, Band 92, 145 pp.
45. Ma, L., P. Wu and Y. Wang (2012). Spatial distribution of roots in a dense jujube plantation in the semiarid hilly region of the Chinese Loess Plateau. *Plant and Soil* 354(1-2): 57-68. (impact factor)

Koumanov, K.S., I Tsareva, K. Kolev, G. Kornov (2009). Fertigation of primocane-fruited raspberry – leaf and soil nutrient content between applications. *Acta Hort. (ISHS)* 825:341-348.

Cited in:

46. Krawiec P., R. Rybczyński (2010). Efektywność fertygacji w malinach odmian powtarzających. *Acta Agrophysica* 16(2): 347-358.
47. Kristensen, L., L. Huselius (2010). Hallonplantans fysiologi och näringsbehov – en litteraturgenomgång. *Landskap Trädgård Jordbruk Rapportserie, Fakulteten för landskapsplanering, trädgårds – och jordbruksvetenskap, Sveriges lantbruksuniversitet*:11: 33 pp.
48. Krawiec, P., A. Grenda, R. Rybczyński (2011)., Wpływ fertygacji według programu Yara na plon i jakość owoców maliny powtarzającej. *Targi Sadownictwa i Warzywnictwa 2011*, materiały konferencyjne, Agrosimex, Warszawa, 5-6 stycznia 2011, pp. 34-41.

Rankova, Z., **K. Koumanov**, K. Kolev, S. Shilev (2009). Herbigation in a cherry orchard – efficiency of pendimethalin. *Acta Hort. (ISHS)* 825:459-464.

Cited in:

49.Kviklys, D. (2009). Investigation of selective herbicides in stone fruit tree nursery. *Sodninkystè ir daržininkystè. Scientific Articles* 28(4): 45-50.

50.Kviklys, D. (2009). Tolerance of apple propagation material to herbicides. *Sodninkystè ir daržininkystè. Scientific Articles* 28(3): 109-115.

Rankova, Z., **K.Koumanov** (2004). Efficiency of some soil herbicides in a raspberry plantation under drip irrigation. *Jugoslovensko voćarstvo* 38(147-148): 163-169.

Cited in:

51.Stanković-Kalezić, R., V. Jovanović, V. Janjić, L. Radivojević, L. Šantrić and J. Gajić-Umiljendić (2012). Contribution to the study of weed species in raspberry plantations in Serbia. *Acta Hort. (ISHS)* 946: 303-308.

Koumanov, K.S. (2002). Towards improving of water management in fruit-tree plantations under micro-irrigation. *ICID 18th Congress*. Paper Q50.1/P1.02. 21-28 July, Montreal, Canada, 12 pp.

Cited in:

52.Nix, S. (2002). Vegetasi pohon & rain-water management. <http://images.soemarno.multiply.multiplycontent.com/attachment/0/S-33TQooCzYAAF9QGbE1/TREES%20AND%20THEIR%20ROLE%20IN%20WATER%20MANAGEMENT.ppt?nmid=324426708#339,66,Slide 66>

Koumanov, K., M. Moteva and V. Kazandjiev (in print). Estimation of the evapotranspiration of a peach orchard from meteorological data – easy or complicated?. *Journal of Mountain Agriculture on the Balkans* 13(6): 1621-1634.

Cited in:

53. Kazandjiev, V., P. Ristevski and V. Georgieva (2010). Climate change and agroclimatic resources on the end of twentieth century in Bulgaria and Macedonia. *BALWOIS*, Ohrid, Republic of Macedonia, 25-29 May 2010, 15 pp.

Koumanov, K. (2000). Temperature regime of the root zone of a peach tree under drip-irrigation. *Plant Science* 37: 39-43 (summary in English).

Cited in:

54. Fomenko, T.G. (2009). Optimization of the Apple Nutrition under Drip irrigation on Krasnodar Vertisol. Ph.D Thesis, Krasnodar, 140 pp. (in Russian)

Koumanov, K. and D. Davidov (1998). Evapotranspiration of a peach plantation with grassed interlines under micro-sprinkler irrigation. *Proceedings of the Research Institute for Irrigation, Drainage and Hydraulic Engineering at the Agricultural Academy, Sofia*, Vol. 25: 190-196 (summary in English).

Cited in:

55. Z. Popova, D. Shopova (2001). Monitoring of evapotranspiration and drainage in lysimeters on Chromic Luvisols. *Proceedings: National Conference with International Participation "90 Years Soil Science in Bulgaria"*, Soil Science Institute "N. Pushkarov", Sofia.

Koumanov, K. (1997). Investigations on micro-sprinkler irrigation of peach. *Ph.D. Thesis*, Higher Testimonial Committee at the Council of Ministers, Sofia, Bulgaria, 177pp. (summary in English).

Cited in:

56. Chehlarova-Simeonova, S.A. (2000). Investigation on the uniformity of distribution of the application rate under microsprinkling. *Agricultural Engineering* №4. (summary in English)
57. Chehlarova-Simeonova, S.A. (2000). Improving and extending of the methods of microsprinkler evaluation in Bulgaria. *Proceedings: Jubilee scientific Session – 50 years NIMEA “Technique and Technologies for Growing, Harvesting and Cultivation of Agricultural Crops”*, p. 111. (summary in English)
58. Popova, Z.D. (2007). Prognosis and optimization of the irrigation regime, the yields and the environmental impact using simulation models. DAS Dissertation, Soil Science Institute „N. Pushkarov”, 331 pp (summary in English).
59. Da Silva, A.J.P. (2009). Variáveis de eficiência, manejo de irrigação e de produção da bananeira cultivar BRS Tropical sob diferentes sistemas de microaspersão e gotejamento. *Dissertação Mestre em Ciências*. Universidade de São Paulo, Escola Superior de Agricultura “Luis de Queiros”, 72 pp.

Dzhuvinov, V., **K. Koumanov**, S. Gandev, V. Arnaudov and I. Slavov (2004). Walnut. *FAO—Fruitgrowing Institute-Plovdiv TCP/BUL/0166(3001)*, Plovdiv 2004, 49 pp. (in Bulgarian).

Cited in:

60. Mitrović M., R Miletić and M. Rakićević (2011). Properties of French walnut cultivars grown under environmental conditions of the Čačak region. *Contemporary Agriculture* 60(1-2): 116-121.

Koumanov, K. (1998). Evaporation of a peach plantation and amount of the additionally consumed by a sod mulch water under micro-sprinkler irrigation. *Plant Science*, 35: 225-228 (summary in English).

Cited in:

61. Gospodinova, M. (2007). Irrigation of Fruit Crops. NCAS-Sofia and Fruitgrowing Institute – Plovdiv, 50 pp. (in Bulgarian)

Dimitrov, D., **K. Koumanov** (1999). Economical effectiveness of the peach production under microsprinkler irrigation and perennial grassing

of the interlines. *Agricultural Economics and Management*, 7: 24-26 (summary in English).

Cited in:

62. Manolova, V. (2005). Investments and Efficiency in Fruitgrowing. *LAX advertising*, 156 pp. (in Bulgarian)

Zhivondov, A., **K. Koumanov**, V. Dzhuvinov, V. Bozhkova, K. Kolev, Z. Rankova, V. Manolova and V. Arnaudov (2006). Efficient and environmentally friendly fruit production. Proceedings, *First International Symposium "Ecological Approaches Towards the Production of Safety Food"*, Association "Regional Science and Technology Unions – Plovdiv", 19-20 October 2006, Plovdiv: 41-48. (summary in English).

Cited in:

63. Zhivondov, A., V. Manolova and Z. Rankova (2007). Sustainable development of Bulgarian fruit growing in European membership conditions. Proceedings: 2-nd International Symposium "Ecological Approaches Towards the Production of Safety Food", Association "Regional Science and Technology Unions – Plovdiv", pp. 13-18.

64. Zhivondov, A., Z. Rankova and K. Dragoyski (2009). Organic Fruit-Growing in Bulgaria – state and perspectives. *Journal of Mountain Agriculture on the Balkans* 12(4): 900-910.

Zhivondov, A., V. Manolova, Z. Rankova, V. Bozhkova, V. Dzhuvinov, K. Koumanov, S. Masheva, M. Mihov, G. Antonova, E. Nacheva, G. Pevicharova, D. Kostova, N. Koteva, L. Krusteva, T. Georgiev, D. Strelkova, S. Vitkova, S. Buchvarova, A. Rusenov, S. Tsoneva, K. Lambrev, A. Bozhinova (2008). Strategy for developing of fruit and vegetable production in Republic of Bulgaria for during the period 2009-2013. MAF-Agricultural Academy, 80 pp.

Cited in:

65.Dinkova, H., D. Georgiev and M. Georgieva (2012). Vegetative and reproductive characteristics of the apple cultivar Remo in the conditions of the Central Balkan Mountains. *Journal of Mountain Agriculture on the Balkans* 15(2): 466-474.

Dzhuvinov, V., K. Kolev, **K. Koumanov**, Z. Rankova, I. Slavov (2006). Intensive Growing of Cherries. *PrintX Ltd.*, Plovdiv. 56 pp. (in Bulgarian).

Cited in:

66.Dinkova, H., K. Dragoyski, B. Stefanova (2009). Advantages and disadvantages in growing of late-ripening cherries under the conditions of the region of Central Balkan mountains, *Acta Hort.* 825: 237-243.

67.Papachatzis A., Lichev V., 2008. Rootstocks for the Sweet Cherry. II. Hybrids and Branches of Ornamental Types of the Genus Prunus. *Plant Sciences* 45: 387-392. (summary in English)

68.Sotirov, D.K. (2008). Field Investigation of Cherry (*Prunus avium*) Cultivar/Rootstock combinations. *Ph.D. Thesis*, Institute of Agriculture – Kyustendil, 181pp.

Dzhuvinov, V., **K. Koumanov**, H. Kutinkova, Z. Rankova (2008). Ecological Production of Apple Fruit. The Belgium Experience Applied in Bulgaria. *PrintX Ltd.*, Plovdiv, 20 pp. (in Bulgarian).

Cited in:

69.Zhivondov, A., Z. Rankova and K. Dragoyski (2009). Organic Fruit-Growing in Bulgaria – state and perspectives. *Journal of Mountain Agriculture on the Balkans* 12(4): 900-910.

Dzhuvinov, V., **K. Koumanov**, V. Bozhkova, I. Lecheva and V. Popov (2007). Integrated Pome Fruit Production (Apple and Pear). Basic Principles and Rules. *Printex Ltd.*, Plovdiv, 48 pp. (in Bulgarian).

Cited in:

70. Rankova, Z., M. Tityanov and T. Tonev (2011). Agrotechnical approaches for maintaining the soil surface in the fruit plantations in a good agrotechnical and ecological condition. *9th EWRS Workshop on Physical and Cultural Weed Control, Samsun, Turkey, 28–30 March, 50-54.*

Recapitulation:

1. Citations Total	70
2. Citations in international editions	58
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2.1. <i>impact factor journals</i>	15
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4. Cited publications	20

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