

## Courses Taught

### Undergraduate:

Introduction to Agronomy; Chemical Means of Plant Protection; Plant Protection Systems; Nematodes, Mites, and Rodents; General Plant Protection; Phytopathology, Entomology and Plant Protection. Graduate: Pesticide Modes of Action; Current Issues and Theoretical Foundations in Pest Management, Intellectual Property and Innovation.

### **Biography**

Specializes in plant protection, entomology, and acarology. Teaches and advises undergraduate students at Agrobiotechnology and Technology Institutes who major in plant protection, Master's students who major in integrated pest management.

S. Ya. Popov graduated from Moscow Timiryazev Agricultural Academy in 1976, majoring in plant protection. Completed postgraduate studies towards Ph.D. and D.Sc. degrees. Worked as an assistant, associate, and full professor. Spent university sabbaticals in the Netherlands and in Sweden. In 1997, successfully defended a D.Sc. dissertation entitled "Ecological Basis of Reducing Abundance and Damage of Two Major Pests of Strawberries: Strawberry Blossom Weevil and Spider Mites." Promoted to a full professor in 1999. In 2013, became a corresponding member of the Russian Academy of Natural Sciences. Served as a Chair of the Department of Chemical Plant Protection in 2001-10. Following a merger among three departments in 2010, served as a Chair of the Department of Plant Protection. In 2018, resigned from administration and returned to being a professor at the Department of Plant Protection.

Main research interests is ecology of different pest species, improving integrated pest management systems for plants, as well as developing biological and other non-chemical methods to reduce pesticide use in agriculture.

S. Ya. Popov developed general approaches to limiting pest abundance and damage based on their life strategies, created reproductive and K-factor life tables for several pest species, developed ecological foundation for managing the main pests of strawberries. Together with graduate students, he improved methodology of screening cucumber varieties for resistance to spider mites, cabbage varieties for resistance to caterpillars, and strawberry varieties to berrydamaging arthropod pests. He also conducted detailed investigations of ecology and management of spider mites in the genus *Tetranychus* in several agricultural systems. Dr. Popov is a leading expert on the strawberry blossom weevil, *Anthonomus rubi* Herbst, which is one of the most damaging pests of strawberries. K-factor life tables of the apple blossom weevil, *Anthonomus pomorum* (L.), on apple and pear trees in urbanized territories in Moscow and Tver provinces were constructed. S.Ya. Popov is a founder and a leader of a scientific school that studies phytophagous mites that works on the systematics of spider mites in the genus *Tetranychus*, as well as on studying on incorporating natural and hormonal acaricides into integrated pests management systems. Together with colleagues from the Scientific Center on Vegetables of the Russian Academy of Sciences, Dr. Popov studies physiological aspects of strawberry damage by spider mites. Instrumental thresholds of pest damage, the economic injury level (EIL) and the economic threshold (ET), were calculated using the relative electron transport rate (rETR) based on chlorophyll fluorescence detection in the leaf. He also works with undergraduate and graduate students on compiling a unique multi-year datasets on population dynamics and reproductive life tables of spider mites.

S. Ya. Popov is an active participant in international and Russian scientific meetings and conferences. He is a member of Russian Entomological Society since 1988. He was a member of Entomological Society of America since 2018 to 2022.

S. Ya. Popov published over 200 scientific works and study aids for students, including 12 books (10 as a co-author). He served as an advisor to 1 D. Sc. student, 10 Ph. D. students, and more 100 undergraduate students working on their capstone projects. He is currently continuing his advising activities. S. Ya. Popov is a member of editorial boards of the scientific journal *Izvestiya Timiryazevskoi Sel'skokhozyaistvennoi Akademii* since 2002, and a member of technical committee on standardizing approaches to plant quarantine and protection. S.Ya. Popov is a member of Writers Union of Russia.

Prof. Dr. S.Ya. POPOV

### SELECTED PUBLICATIONS

1. Popov S.Ya., Dmitrieva S.V. (2022) Phenology of the Apple Blossom Weevil *Anthonomus pomorum* (L.) (Coleoptera, Curculionidae) on Apple Trees in Moscow against the Backdrop of Global Warming. *Entomological Review*. 102 (7): 903–915. (In English). (Scopus). DOI: 10.1134/S0013873822070016
2. Ponomarenko E.K., Popov S.Ya., Baykov A.A., Gins M.S. Instrumental economic injury level and economic threshold of spider mite populations on strawberries. *Izvestiya of Timiryazev Agricultural Academy*. 6: 94–111. (In Russian with English Abstract). <https://doi.org/10.26897/0021-342X-2022-6-94-111>
3. Popov S.Ya., Popova T.A., Hoang Z.L., Deniskina N.F. (2022). Ecological traits of cabbage moth (*Mamestra brassicae*) in relation to IPM. Theses / XXVI International Congress of Entomology. Helsinki, Finland, July 16-23, 2022.
4. Beloshapkin S.P., Goncharova N.G., Gritsenko V.V., Zakhvatkin Yu.A., Isaichev V.V., Isaichev S.V., Kruchina S.N., Ponomareva M.S., Popov S.Ya., Solomatin V.M., Toryanskaya N.K., Tretyakov N.N. (2022) *Entomologist's Dictionary* / Ed. by Zakhvatkin Yu. A. and Isaichev V.V. Moscow, URSS Publishing House: 370 p. (In Russian).
5. Belykh G.V., Popov S.Ya., Chegodaeva O.I. (Compilers) (2021). A book about the Timiryazevites during the Great Patriotic War. Moscow: NP "Literary Republic" Publishing House: 458 p. (In Russian).
6. Popov S.Ya. A galaxy of the first entomologists of Petrovka-Timiryazevka (2021). *Achievements of Science and Technology in Agribusiness*. 35 (8): 63–66. (In Russian).
7. Popov S.Ya. A life given to entomology. On the occasion of the 80th anniversary of the birth of Professor Yu.A. Zakhvatkin (2021). *Achievements of Science and Technology in Agribusiness*. 35 (10): P. 44. (In Russian).
8. Popov S.Ya., Alyokhin A.V., Kiselyov E.D. (2021). Survival of diapausing females of two-spotted spider mite *Tetranychus urticae* Koch (Acari: Tetranychidae) submerged in water. *International Journal of Acarology*, 2021, 47 (7): 564–567. (In English). (WoS, Scopus). <https://doi.org/10.1080/01647954.2021.1976834>

9. Popov S.Ya., Alyokhin A. Gender-specific acaricidal properties and sexual transmission of spirotetramat in two-spotted spider mite *Tetranychus urticae* (Tetranychidae: Acariformes) // Journal of Economic Entomology. 2019. V. 112 (5): 2186–2192. (In English). (WoS, Scopus).

<https://doi.org/10.1093/jee/toz160>

10. Arabuli T., Negm M.W., Matsuda T., Kitashima Y., Abramishvili T., Akimov I.A., Zhovnerchuk O.V., Popov S.Ya., Gotoh T. (2019) Morphological identification of *Amphitetranychus* species (Acari: Tetranychidae) with crossbreeding, esterase zymograms and DNA barcode data. PLoS ONE 14 (9): e0221951. (In English). (WoS, Scopus).

<https://doi.org/10.1371/journal.pone.0221951>

11. Popova T. A., Petrova N.I., Popov S.Ya. 2019. Observations over the Population Dynamics of the Pests of Generative Organs of Spring Rape in the Moscow Region. Achievements of Science and Technology in Agribusiness. 33 (11): 29–33 (in Russian with English abstract).

DOI: 10.24411/0235-2451-2019-11107.

12. Dmitrieva S.V., Popov S.Ya. (2019) Biological efficacy of insecticides of different classes against the apple blossom weevil (*Anthonomus pomorum*) on apple. Zemledelie. 33 (5): 45–47. (In Russian with English abstract).

DOI: 10.24411/0044-3913-2019-10511.

13. Popov S.Ya (2018) Biological and ecological traits of strawberry blossom weevil *Anthonomus rubi* in relation to IPM and organic agriculture. Theses / 2018 ESA, ESC, and ESBC Joint Annual Meeting (Entomology 2018), November 11-14, 2018, Vancouver, British Columbia, Canada.

14. Popov S.Ya (2018) Diapause termination factors of *Tetranychus* spider mites (Acari: Tetranychidae). Theses / XV International Congress of Acarology. September 2-8, 2018 – Antalya, Turkey. Abstract book. Ed. by G.T. Sullivan and S.K. Ozman-Sullivan. P. 24.

15. Popov S.Ya (2017) Population ecology of strawberry blossom weevil, *Anthonomus rubi* Herbst (Coleoptera: Curculionidae), and approaches to limiting its damage. Monograph. Moscow “Rosinformagrotekh” Publishing House. 284 p. (In Russian with English abstract).

16. Popov S.Ya. (2017) Chemosterilants. Great Russian Encyclopedia. 34: P. 26. (In Russian).

17. Popov S.Ya. (2017) Plant species habitat loyalty on the example of Novoannisky plant phytocenose. Ecology and environmental protection. Materials of the All-Russian scientificpractical Conference. Russia, Volgograd region, Novoannynsky agricultural college. P. 34–37. (In Russian).

18. Popov S.Ya. (2017) Oviposition behavior and reproduction of strawberry blossom weevil *Anthonomus rubi* (Coleoptera: Curculionidae) / XV congress of the Russian entomological society. Russia, Novosibirsk, July 31– August 7, 2017. Materials of the congress. Garamond: 402–403. (In English).

19. Popov S.Ya., Dmitrieva S.V. (2017) K-factor life tables of apple blossom weevil (*Anthonomus pomorum*) populations on apple and pear trees in urbanized territories / XV

congress of the Russian entomological society. Russia, Novosibirsk, July 31– August 7, 2017. Materials of the congress. Garamond: 399–400. (In Russian).

20. Popov S.Ya., Popova T.A. New approaches to conception of economic threshold in integrated pest management / XV congress of the Russian entomological society. Russia, Novosibirsk, July 31– August 7, 2017. Materials of the congress. Garamond: 400–401. (In Russian).

21. Popov S.Ya., Alyokhin A. (2017) Age and gender-dependent mortality of common spider mite, *Tetranychus urticae*, treated by spirotetramat (Movento Energy SC) / Entomology 2017, ESA's 65th Annual Meeting, November 5-8, 2017, Denver, Colorado, USA.

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23. Popov S.Ya., Ponomarenko E.K. (2016) Prognostic estimation of strawberry varieties for resistance (susceptibility) to strawberry spider mite. Izvestiya of Timiryazev Agricultural Academy. 5: 55–67. (In Russian with English abstract).

24. Popov S.Ya., Ponomarenko E.K., Gins M.S., Baykov A.A. (2016) An analysis of various parameters of chlorophyll fluorescence in strawberry leaves damaged by atlantic spider mite *Tetranychus atlanticus* [McGregor]. Plodovodstvo i yagodovodstvo Rossii. 46: 323–329. (In Russian with English abstract).

25. Konoplev N.D., Ignatov A.N., Popov S.Ya. (2016) The evolutionary path and diversity of insect and mite bacterial symbionts. Agrokhimiya. 3: 69–80. (In Russian with English abstract).

26. Konoplev N.D., Ignatov A.N., Popov S.Ya. (2016) Screening of spider mites of the genus *Tetranychus* (Acari: Tetranychidae) for the presence of bacterial symbionts. Izvestiya of Timiryazev Agricultural Academy. 4: 41–50. (In Russian with English abstract).

27. Popov S.Ya. (2016) Outstanding scientist and politician Karl Lindemann, Russian German. Vestnik RAEN. 2: 103–109. (In Russian with English abstract).

28. Ponomarenko E.K., Popov S.Ya., Baykov A.A., Gins M.S. (2015) Instrumental assessment of damage to fruit-bearing strawberries by spider mites. Seleksiya i semenovodstvo. 46: 468–474. (In Russian with English abstract).

29. Popov S.Ya., Karachevtsev Z.Yu. (2014) Methodological basis for the development of rapid evaluation test on acceptance (non-acceptance) of a new food source by the spider mites. Izvestiya of Timiryazev Agricultural Academy. 2: 96–102. (In Russian with English abstract).

30. Popov S.Ya., Karachevtsev Z.Yu. (2013) Integrated assessment of spider mite's preference (rejection) for non-standard food sources. Zashita i Karantin Rasteniy. 9: 28–29. (In Russian with English abstract).

31. Baykov A.A., Karavaev V.A., Popov S.Ya., Kvitka A.Yu., Levykina I.P., Solntsev M.K., Tikhonov A.N. (2013) Luminescence characteristics of strawberry leaves at early stages of injury by spider mite. Biophysics. 58 (2): 234–239. (In English). (Scopus).

32. Popov S.Ya. (2013) Taxonomic status of some spider mites species of the genus *Tetranychus* (Acari, Tetranychidae) and reproductive barriers in crossings between morphologically adjacent and distant species. In: Ecological aspects in control of insect and mite populations: collection of works. Russian Timiryazev State Agrarian University, Moscow: 224–259. (In Russian with English abstract).
33. Popov S.Ya. (2013) Diapause termination factors of the atlantic spider mite (*Tetranychus atlanticus* McGregor). In: Ecological aspects in control of insect and mite populations: collection of works. Moscow, Russian Timiryazev State Agrarian University, Moscow: 135–160. (In Russian with English abstract).
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35. Popov S.Ya., Denisov A.D. (2011) Monitoring of the strawberry fields for pest population densities. *Zaschita i Karantin Rasteniy*. 11: 37–40. (In Russian with English abstract).
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37. Popov S.Ya. (2010) Results and perspectives of agricultural acarology development in Russia. *AGRO XXI*. 10–12: 3–6. (In Russian with English abstract).
38. Sokolov M. S., Popov S.Ya. (2010) Chronic stagnation of biological plant protection – a threat to food security in Russia / Biological plant protection as the basis for stabilizing agroecosystems. Proceedings of the Internat. Sci. and Pract. Conference devoted to the 50-th Anniversary of All-Russian Research Institute of Biological Plant Protection. 6: 41–47 (In Russian with English abstract).
39. Popov S.Ya., Hummel E. (2009) Experience with mode of action of NeemAzal T/S and Trifolio S-forte formulations against the spider mite (*Tetranychus atlanticus* McGregor) under laboratory conditions. In: Biological Control of Plant, Medical and Veterinary Pests (R. Strang & H. Kleeberg, eds.). Lahnau: Trifolio-M GmbH. Wetzlar, Germany: 263–271. (In English).
40. Onatskiy K.N., Popov S.Ya. (2009) A research of bioinsect-acaricide NeemAzal T/S action mode against *Tetranychus* spider mites on cucumber in glasshouses. *Achievements of Science and Technology in Agribusiness*. 12: 23–25. (In Russian with English abstract).
41. Popov S.Ya., Slotin V.V., Borisov A.V., Kondryakov A.V. (2009) Cucumber hybrids and varieties resistance to the spider mite *Tetranychus atlanticus* McGregor evaluation. *Izvestiya of Timiryazev Agricultural Academy*. 3: 110–122. (In Russian with English abstract).
42. Popov S.Ya., Kondryakov A.V. (2008) Reproductive tables of predatory phytoseiid mites (*Phytoseiulus persimilis*, *Galendromus occidentalis*, and *Neoseiulus cucumeris*). *Entomol. Rev.* 88 (6): 658–665. (In English). (WoS, Scopus).
43. Burbentsov S.A., Popov S.Ya. (2007) Resistance of spider mites of genus *Tetranychus* to acaricide flumite. *Achievements of Science and Technology in Agribusiness*. 1: 21–23. (In Russian with English abstract).

44. Mitrofanov V.I., Vadeev Yu.M., Man'ko A.V., Myttus E.R., Popov S.Ya., Khodakov G.V., Khaustov A.A., Yagodinskaya L.P. (2007) Information factors of pathosystems organisation and their coevolution on an example of regulation of ontogenesis and reproduction of Acari and Insecta and synchronization of their phylogenesis with Angiospermae. Report No.1. Vestnik Zoologii 41 (1): 3–11. (In Russian with English abstract).
45. Mitrofanov V.I., Vadeev Yu.M., Man'ko A.V., Myttus E.R., Popov S.Ya., Khodakov G.V., Khaustov A.A., Yagodinskaya L.P. (2007) Information factors of pathosystems organisation and their coevolution on an example of regulation of ontogenesis and reproduction of Acari and Insecta and synchronization of their phylogenesis with Angiospermae. Report No.2. Vestnik Zoologii 41 (5): 387–403. (In Russian with English abstract).
46. Gritsenko V.V., Orekhov D.A., Popov S.Ya., Stroikov Yu.M., Tretyakov N.N., Shkalikov V.A. (2005) Plant protection / Ed. by Professor S.Ya. Popov. Moscow, "Mir" Publishing House: 488 p. (In Russian).
47. Popov S.Ya., Burbentsov S.A. (2005) Detection of fumigated effect of acaricide flumite (flufenzine) on eggs of spider mite. Doklady of TSKhA. 211: 183–185. (In Russian with English abstract).
48. Popov S.Ya., Burbentsov S.A. (2005) Effect of hormonal acaricide flumite on development of spider mite *Tetranychus atlanticus* McGregor. Gavrish. 3: 18–20. (In Russian with English abstract).
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50. Ekbohm B., Popov S.Y.A. (2004) Host plant affects pollen beetle (*Meligethes aeneus*) egg size. Physiological Entomology. 29:118–122. (In English). (WoS, Scopus).
51. Popov S.Ya. (2004) The toxic effect of acaricide flumite on egg-laying females of spider mite *Tetranychus atlanticus* McGregor. Agrokhimiya. 10: 48–52. (In Russian with English abstract).
52. Popov S.Ya. (2004) Use of hormonal acaricides in ecological programmes of integrated pest management: risk and dividends. In: Materials of International scientific and production conference "Chemical method of plant protection. Status and prospect of raising ecological safety". St.-Petersburg, 6-10 December 2004. S-Pb, VIZR: 252–254. (In Russian with English abstract).
53. Popov S.Ya. (2003) Long-term characteristics of seasonal development of spider mites of the genus *Tetranychus* Dufour, 1832 (Acariformes, Tetranychidae) on strawberry in Moscow province. Entomologicheskoe Obozrenie 82 (1): 71–85. (In Russian with English abstract).
54. Popov S.Ya. (2003) Principles of limiting the population and injuring effect of Arthropoda-pest based on the study of their life strategies. Agrokhimiya. 1: 74–90. (In Russian with English abstract).

55. Popov S.Ya., Dorozhkina L.A., Kalinin V.A. (2003) Bases of chemical plant protection / Ed. by Professor S.Ya. Popov. Moscow, "Art-Lion" Publishing House. 208 p. (In Russian).

56. Popov S.Ya., Slotin V.V. (2001) Resistance of wild species of *Cucumis* genus to spider mite *Tetranychus atlanticus* McGregor. *Izvestiya of Timiryazev Agricultural Academy*. 3: 125–140. (In Russian with English abstract).

57. Popov S.Ya. (2000) The temperature developmental curves of the Atlantic spider mite *Tetranychus atlanticus* McGregor (Tetranychidae). *Entomologicheskoe Obozrenie* 79 (3): 550–556. (In Russian with English abstract).

58. Popov S.Ya., Slotin V.V. (2000) Comparing the methods of cucumber plants estimation on resistance to spider mites by their biological parameters. *Izvestiya of Timiryazev Agricultural Academy*. 3: 85–99. (In Russian with English abstract).

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60. Popov S.Ya. (1998) Methodical approaches to field estimation of damage in fruit and small fruit varieties by phytophagous mites. In: Actual questions of theory and practice of fruit and small fruit protection against pests under polystructural agriculture. Moscow, RASKhN, VSTISP: 173–177. (In Russian with English abstract).

61. Popov S.Ya. (1997) Diapause in spider mites in glasshouses. *Gavrish*. 1: 9–15. (In Russian with English abstract).

62. Popov S.Ya. (1996) Trophical relations of the strawberry blossom weevil, *Anthonomus rubi* Herbst (Coleoptera, Curculionidae). *Entomologicheskoe Obozrenie*. 75 (2): 263–273. (In Russian with English abstract).

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67. Popov S.Ya. (1996) Possibility of monitoring the population density of the strawberry blossom weevil, *Anthonomus rubi* Herbst (Coleoptera, Curculionidae), on strawberry by two

methods: counting clipped buds and using pheromones. *Entomol. Rev.* 75 (9): 104–109. (In English).

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72. Mitrofanov V.I., Popov S.Ya., Kulman V.N. (1994) Efficiency of combined use of pheromons and acaricides to control spider mites on agricultural crops. *Izvestiya of Timiryazev Agricultural Academy.* 1: 146–152. (In Russian with English abstract).

73. Beloshapkin S.P., Goncharova N.G., Gritsenko V.V., Zakhvatkin Yu.A., Isaichev V.V., Isaichev S.V., Kruchina S.N., Ponomareva M.S., Popov S.Ya., Solomatin V.M., Toryanskaya N.K., Tretyakov N.N. (1992) *Entomologist's Dictionary* / Ed. by Zakhvatkin Yu.A. and Isaichev V.V. Moscow, “Niva Rossii” Publishing House: 334 p. (In Russian).

74. Popov S.Ya. (1991) Parasitoids of strawberry weevil *Anthonomus rubi* Hbst. and their role in reducing its damage in strawberry fields. *Materials of XII International Symposium on Entomofauna of the Middle Europe / Kiev, 25 - 30 September 1988 / AN USSR. Institute of Zoology after I.I. Smalhausen; Kiev: Naukova Dumka: 176–180.* (In Russian and English).

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