

Βιογραφικό σημείωμα

Ρούμπος Ι. Χρίστος

Επίκουρος Καθηγητής

Τμήμα Γεωπονίας, Πανεπιστήμιο Πατρών

Οκτώβριος 2024

Προσωπικά στοιχεία

Όνοματεπώνυμο	Ρούμπος Χρίστος
Ημερομηνία γέννησης	23 Δεκεμβρίου 1978
Τόπος γέννησης	Βόλος, Ελλάδα
Εθνικότητα	Ελληνική
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Σύνοψη Ερευνητικής Δραστηριότητας

- **102 επιστημονικές δημοσιεύσεις** σε έγκριτα διεθνή περιοδικά, **4 κεφάλαια σε βιβλία**, **>130 ανακοινώσεις σε συνέδρια**.
- Αθροιστικό Impact Factor: >400
- Αναφορές: **1912** Google Scholar (G-index = 26, i10 = 55), **1269** Scopus (h-index = 21)
- **Associate/Topic/Review/Guest Editor** στα περιοδικά *“Journal of Insects as Food and Feed”*, *“animal”*, *“Heliyon”*, *“Insects”*, *“Sustainability”*, *“Journal of Insect Science”*, *“animal”* και *“Frontiers in Physiology [Invertebrate Physiology]”*
- Συνεργαζόμενος ερευνητής σε **>20 ερευνητικά προγράμματα**
- **Διδακτική εμπειρία** σε προπτυχιακό και μεταπτυχιακό επίπεδο
- **Διεθνές δίκτυο επιστημονικών συνεργατών** [Deutsches Institut für Lebensmitteltechnik (DIL), Germany; Inagro, Belgium; University of Wageningen, The Netherlands; USDA-ARS, USDA-APHIS, USA]
- **Εμπειρία στην υποβολή και υλοποίηση εθνικών και διεθνών ερευνητικών προγραμμάτων** (ΕΣΠΑ, LIFE, RIS-3, PRIMA, H2020, Horizon Europe, COST κα).

ΣΠΟΥΔΕΣ

2001 Πτυχίο Γεωπονίας

Τμήμα Γεωπονίας, Σχολή Γεωτεχνικών Επιστημών, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (ΑΠΘ)

2006 Διδακτορικό δίπλωμα

Rheinische Friedrich – Wilhelms University of Bonn, Institute for Plant Diseases, Department of Phytopathology and Nematology in Soil Ecosystems

2013 Μεταπτυχιακό Δίπλωμα Ειδίκευσης

Πανεπιστήμιο Θεσσαλίας, Πολυτεχνική Σχολή, Τμήμα Μηχανικών Χωροταξίας, Πολεοδομίας και Περιφερειακής Ανάπτυξης.

ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΕΜΠΕΙΡΙΑ

2024 – σήμερα Επίκουρος Καθηγητής

Πανεπιστήμιο Πατρών, Τμήμα Γεωπονίας, Μεσολόγγι, Ελλάδα

2022 – 2024 Γεωπόνος

στο Τμήμα Αγροτικής Ανάπτυξης και Ελέγχων Μαγνησίας της Διεύθυνσης Αποκεντρωμένων Υπηρεσιών Θεσσαλίας και Στερεάς Ελλάδας του Υπουργείου Αγροτικής Ανάπτυξης και Τροφίμων [ΥΠΑΑΤ]

2011 – 2024 Μεταδιδακτορικός ερευνητής

Μεταδιδακτορικός Ερευνητής και Επιστημονικός Συνεργάτης στο Εργαστήριο Εντομολογίας και Γεωργικής Ζωολογίας του Τμήματος Γεωπονίας, Φυτικής Παραγωγής και Αγροτικού Περιβάλλοντος, της Σχολής Γεωπονικών Επιστημών του Πανεπιστημίου Θεσσαλίας, στο πλαίσιο συμμετοχής σε διάφορα ερευνητικά προγράμματα, που χρηματοδοτούνται από διάφορους φορείς

2010 – 2011 Γεωπόνος

στο Περιφερειακό Κέντρο Προστασίας Φυτών και Ποιοτικού Ελέγχου Μαγνησίας στα τμήματα Φυτοπροστασίας και Ποιοτικού Ελέγχου Τροφίμων

2007 – 2009 Εκπόνηση Γεωτεχνικών και Γεωπονικών μελετών

Ελεύθερος επαγγελματίας με αντικείμενο τις γεωτεχνικές και γεωπονικές μελέτες

2003 – 2005 Επιστημονικό Επικουρικό Προσωπικό

στο Institute for Plant Diseases, Rheinische Friedrich – Wilhelms University of Bonn,
Πανεπιστήμιο της Βόννης, Γερμανία

ΞΕΝΕΣ ΓΛΩΣΣΕΣ

Αγγλικά	Certificate of Proficiency in English
Γερμανικά	Zertifikat Deutsch als Fremdsprache
Γαλλικά	Certificat de Langue Francaise

ΥΠΟΤΡΟΦΙΕΣ

1996	Υποτροφία του ΙΚΥ για Εισαγωγικές για Α.Ε.Ι. εξετάσεις
1997-1998	Υποτροφία του ΙΚΥ για Προπτυχιακές σπουδές
2000-2001	Υποτροφία του ΙΚΥ για Προπτυχιακές σπουδές
2002-2003	Υποτροφία DAAD Υποτροφία του Γερμανικού Κράτους (DAAD – Deutscher Akademischer Austauschdienst) για Μεταπτυχιακή έρευνα
2007	Υποτροφία του Ινστιτούτου Τεχνολογίας & Διαχείρισης Αγροοικοσυστημάτων (ΙΤΕΔΑ) για μεταδιδακτορική έρευνα
2008-2009	Υποτροφία του ΙΚΥ για Μεταδιδακτορική έρευνα

ΕΡΕΥΝΗΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ (επιλεγμένα από >20 ερευνητικά προγράμματα)

1. CIPROMED - Circular and Inclusive utilisation of alternative PROteins in the MEDiterranean value chains. PRIMA Section 1 Call 2022.

2. ADVAGROMED - Advanced agroecological approaches based on the integration of insect farming with local field practices in Mediterranean countries. PRIMA, Section 2 Multi topics Call 2021.
3. AWARE - Aquaponics from WAstewater Reclamation, Horizon 2021-2027.
4. LIFE eGYMER - Using smart traps and pheromones to control the gypsy moth: ecofriendly control in practice. LIFE+Environment.
5. LIFE Pisa - Innovative eco friendly traps for the control of Pine Lepidoptera in urban and recreational places”.
6. Αξιολόγηση της συνδυασμένης εντομοκτόνου δράσης εντομοπαθογόνων μυκήτων και αδρανών υλών εναντίον εντόμων αποθηκευμένων προϊόντων”, στο πλαίσιο της πράξης “Εκπόνηση σχεδίων Ερευνητικών και Τεχνολογικών Αναπτυξιακών έργων Καινοτομίας (ΑγροΕΤΑΚ).
7. Ολοκληρωμένη διαχείριση των εντομολογικών και μικροβιολογικών κινδύνων κατά την επεξεργασία, αποθήκευση και μεταφορά της σταφίδας, με τη χρήση μη-χημικών, οικολογικά συμβατών μεθόδων: αειφορία στην πράξη” – ΠΑΒΕΤ 2013
8. Αξιοποίηση των εντόμων ως εναλλακτική πηγή θρεπτικών συστατικών υψηλής διαιτητικής αξίας σε ιχθυοτροφές - FISHECT”, στο πλαίσιο του έργου “Μεταδιδακτορικές Υποτροφίες του Ιδρύματος Σταύρος Νιάρχος στο Πανεπιστήμιο Θεσσαλίας” του Πανεπιστημίου Θεσσαλίας.

ΕΚΠΑΙΔΕΥΤΙΚΗ ΕΜΠΕΙΡΙΑ

Υδρόβια Εντομολογία, Ζωολογία, Οικολογία, Ειδική Φυτοπροστασία [Φυτών Μεγάλης Καλλιέργειας], Γεωργική Φαρμακολογία

ΚΡΙΤΗΣ σε διεθνή περιοδικά

Από το 2009 έως και σήμερα ήμουν κριτής >130 επιστημονικών εργασιών σε >40 έγκριτα διεθνή επιστημονικά περιοδικά. Αναλυτικότερα, έχω υπάρξει κριτής εργασιών στα παρακάτω διεθνή περιοδικά:

Agricultural Systems, Agriculture, Agronomy, Animal Nutrition, Animals, Antioxidants, Arthropoda, Biocontrol Science and Technology, Biology, Brazilian Archives of Biology and Technology, Bulletin of Insectology, Crop Protection, Entomology, European Journal of Plant Pathology, Experimental and Applied Acarology, Food Research International, Foods, Frontiers in Sustainable Food Systems, Frontiers in Veterinary Science, Genes, Heliyon, Insects, Industrial Crops and Products, International Journal of Food properties, International Journal of Pest Management, Journal of Agricultural and Urban Entomology, Journal of Animal and Feed Sciences, Journal of Applied Entomology, Journal of Economic Entomology, Journal of Insects as Food and Feed, Journal of Insect Science, Journal of Invertebrate Pathology, Journal of Pest Science, Journal of Phytopathology, Journal of Stored Products Research, Microorganisms, Pathogens, Pest Management Science, Physiological Entomology, Plants, Scientific Reports, Sustainability, Waste Management, Pakistan Journal of Nematology

ASSOCIATE/TOPIC/SPECIAL ISSUE EDITOR/EDITORIAL BOARD MEMBER



Associate Editor στο περιοδικό *“Journal of Insects as Food and Feed”*

Από τον Ιούνιο του 2022 είμαι **Associate Editor** για το περιοδικό *“Journal of Insects as Food and Feed”* (Wageningen Academic Publishers) στα παρακάτω αντικείμενα: **insect mass production, insect rearing, waste streams**



Associate Editor στο περιοδικό *“Heliyon”*

Από τον Σεπτέμβριο του 2023 είμαι **Associate Editor** στο περιοδικό *“Heliyon”* (CellPress) στο Section *“Agriculture”* στα παρακάτω αντικείμενα: **plant parasitic nematodes, crop protection, stored-product insects management, post-harvest entomology, insect rearing, insects as Food and Feed**



Αναπληρωτής Subject Editor στο περιοδικό “*animal*”

Από τον Οκτώβριο του 2024 είμαι **Αναπληρωτής Subject Editor** στο περιοδικό “*animal*” (Elsevier) στο Section “*Insects*”



Topic Editor στο περιοδικό “*Insects*”

Από τον Μάρτιο του 2020 είμαι **Topic Editor** στο περιοδικό “*Insects*” (MDPI) για τα ακόλουθα αντικείμενα: **edible insects, insect farming, insects as food and feed, stored-product insects, post-harvest entomology**



Topic Editor στο περιοδικό “*Sustainability*”

Από τον Ιούνιο του 2020 είμαι **Topic Editor** στο περιοδικό “*Sustainability*” (MDPI) για τα ακόλουθα αντικείμενα: **edible insects, insect farming, insects as food and feed, stored-product insects, post-harvest entomology**



Review Editor στο “*Frontiers in Physiology: Invertebrate Physiology*”

Από τον Μάρτιο του 2021 είμαι **Review Editor** στο περιοδικό “*Frontiers in Physiology : Invertebrate Physiology*”



Guest Editor σε Special Issue για το περιοδικό “*Journal of Insect Science*”

Από τον Σεπτέμβριο του 2019 μέχρι τον Φεβρουάριο του 2021 ήμουν Guest Editor για ένα Ειδικό τεύχος [Special Issue] για το περιοδικό “*Journal of Insect Science*” (Oxford Academic, Entomological Society of America) με τίτλο:

“Insects for Food and Feed: if you can’t beat them, eat them!”

<https://academic.oup.com/jinsectscience/pages/call-for-papers-insects-as-food-and-feed>



sustainability

Leading Guest Editor σε **Special Issue** για το περιοδικό **“Sustainability”**

Από τον Μάρτιο του 2021 μέχρι τον Μάιο του 2022 ήμουν Guest Editor για ένα Ειδικό τεύχος [Special Issue] για το περιοδικό **“Sustainability”** (MDPI) με τον τίτλο: **“Sustainable Insect Farming: Feed the Future”**

https://www.mdpi.com/journal/sustainability/special_issues/insect_farming_future



insects

Leading Guest Editor σε **Special Issue** για το περιοδικό **“Insects”**

Από τον Αύγουστο του 2023 ήμουν **Leading Guest Editor** σε ένα Ειδικό τεύχος [Special Issue] για το περιοδικό **“Insects”** (MDPI) με τίτλο: **“Chemical and Non-chemical Control in Stored Product Protection: Modern Methods for Old Problems”**

https://www.mdpi.com/journal/insects/special_issues/Y9124BB6DO

ΔΗΜΟΣΙΕΥΣΕΙΣ

I. ΚΕΦΑΛΑΙΑ ΣΕ ΒΙΒΛΙΑ

1. Athanassiou C.G., Rumbos C.I. 2018. “Emerging Pests in Durable Stored Products“. In: *Recent Advances in Stored Product Protection*, Athanassiou C.G., Arthur F.A. (Eds.), pp. 211-227.
2. Shahina F., Salma J., Rumbos C.I., Athanassiou C.G. 2017. Control of Stored Grain Pests by Entomopathogenic Nematodes. In: *Biocontrol Agents: Entomopathogenic and Slug Parasitic Nematodes*, Abd-Elgawad M.M.M., Askary T.H., Coupland J. (Eds.), pp. 208-222.
3. Rumbos I.C., Athanassiou G.C. 2023. Feed additives for insect production. In: *Sustainable Use of Feed Additives in Livestock*, Giannenas I., Arsenos G. (Eds.), Springer. In press.

4. Psarianos M., Baliota G., Rumbos C.I., Athanassiou C.G., Ojha S., Schlüter O. 2023. Insect processing for chitin production. In: *Sustainable Use of Feed Additives in Livestock*, Garcia-Vaquero M., Alvarez C. (Eds.), Elsevier. In press.

II. ΕΠΙΣΤΗΜΟΝΙΚΕΣ ΔΗΜΟΣΙΕΥΣΕΙΣ

1. Rumbos C., Sikora R.A., Kiewnick S. 2003. Risk assessment of biocontrol products: A semi selective medium for improving quantitative isolation of *Paecilomyces lilacinus* (strain 251) from soil. *Communications in Agricultural and Applied Biological Sciences* 68, 145-148.
2. Kiewnick S., Rumbos C. and R. A. Sikora 2005. Risikoabschätzung von biologischen Pflanzenschutzmitteln Persistenz von *Paecilomyces lilacinus* Stamm 251 unter Freilandbedingungen (Risk assessment of biological control products). *Gesunde Pflanzen* 57, 163-166. <https://doi.org/10.1007/s10343-005-0077-8>
3. Rumbos C., Reimann S., Kiewnick S and Sikora R. A. 2006. Interactions of *Paecilomyces lilacinus* strain 251 with the mycorrhizal fungus *Glomus intraradices*: implications for *Meloidogyne incognita* control on tomato. *Biocontrol Science and Technology* 16, 981-986. <https://doi.org/10.1080/09583150600937667>
4. Rumbos C. and Kiewnick S. 2006. Effect of plant species on the persistence of *Paecilomyces lilacinus* strain 251 and root colonization by the fungus. *Plant and Soil* 283, 25-31. <https://doi.org/10.1007/s11104-005-6804-1>
5. Rumbos C., Mendoza A., Kiewnick S. and Sikora R.A. 2007. Effect of *Paecilomyces lilacinus* strain 251 on the survival and virulence of entomopathogenic nematodes under laboratory conditions. *Nematologia Mediterranea* 35, 103-107.
6. Rumbos C., Mendoza A., Sikora R. and Kiewnick S. 2008. Persistence of the nematophagous fungus *Paecilomyces lilacinus* strain 251 in soil under controlled conditions. *Biocontrol Science and Technology* 18, 1041-1050. <https://doi.org/10.1080/09583150802526979>)

7. Rumbos C., Stamopoulos D., Georgoulas G. and Nikolopoulou E. 2010. Factors affecting leaf litter decomposition by *Micropterna sequax* (Trichoptera: Limnephilidae). International Review of Hydrobiology 95, 383-394. <https://doi.org/10.1002/iroh.201011236>
8. Rumbos C., Khah E.M. and Naved S. 2011. Response of local and commercial tomato cultivars and rootstocks to *Meloidogyne javanica* infestation. Australian Journal of Crop Science 5, 1388-1395.
9. Vagelas I., Rumbos C. and Tsiantos I. 2012. Variation in disease development among persian walnut cultivars, selections and crosses when inoculated with *Xanthomonas arboricola* pv. *juglandis* in Greece. Journal of Plant Pathology 94, 57-61. <http://dx.doi.org/10.4454/jpp.v94i1sup.010>
10. Rumbos C. and Athanassiou C.G. 2012. Insecticidal effect of six entomopathogenic nematode strains against *Lasioderma serricorne* (F.) (Coleoptera: Anobiidae) and *Tribolium confusum* Jacquelin du Val (Coleoptera: Tenebrionidae). Journal of Stored Products Research 50, 21-26. <https://doi.org/10.1016/j.jspr.2012.02.003>
11. Rumbos C., Dutton A.C. and Athanassiou C.G. 2013. Comparison of two pirimiphos-methyl formulations against major stored-product insect species. Journal of Stored Products Research 55, 106-115. <https://doi.org/10.1016/j.jspr.2013.08.003>
12. Rumbos C. and Kungolos A. 2014. Evaluation of water quality of a mountainous stream (Pelion, Central Greece) using benthic macroinvertebrates. Fresenius Environmental Bulletin 23, 2904-2908.
13. Rumbos C., Dutton A.C. and Athanassiou C.G. 2014. Efficacy of two formulations of pirimiphos-methyl as surface treatment against *Sitophilus granarius* (L.), *Rhyzopertha dominica* (F.) and *Tribolium confusum* Jacquelin du Val. Journal of Pest Science 87, 507-519. <https://doi.org/10.1007/s10340-014-0599-x>
14. Rumbos C.I., Sakka M., Berillis P., Athanassiou C.G. 2016. Insecticidal potential of zeolite formulations against three stored-grain insects, particle size effect, adherence to kernels and influence on test weight of grains. Journal of Stored Products Research 68, 93-101. <https://doi.org/10.1016/j.jspr.2016.05.003>

15. Athanassiou C.G., Rumbos C.I., Sakka M., Sotiroudas V. 2016. Insecticidal efficacy of phosphine fumigation at low pressure against major stored-product insect species in a commercial dried fig processing facility. *Crop Protection* 90, 177-185. <https://doi.org/10.1016/j.cropro.2016.08.017>
16. Athanassiou C.G., Chiou A., Rumbos C.I., Karagiannis A., Nikolidaki E.K., Panagopoulou E.A., Kouvelas A., Karathanos V.T. 2016. Effects of electric infrared heating with light source penetration on microbial and entomological loads of dried currants and their organoleptic characteristics. *Journal of Pest Science* 89, 931-943. <https://doi.org/10.1007/s10340-015-0727-2>
17. Athanassiou C.G., Rumbos C.I., Sakka M.K., Vayias B.J., Stephou V.K., Nakas C.T. 2016. Insecticidal effect of the combined application of spinosad, *Beauveria bassiana* and diatomaceous earth for the control of *Tribolium confusum*. *Biocontrol Science and Technology* 26, 809-819. <https://doi.org/10.1080/09583157.2016.1159657>
18. Rumbos C.I., Dutton A.C., Athanassiou C.G. 2016. Insecticidal efficacy of two pirimiphos-methyl formulations for the control of three stored-product beetle species: Effect of commodity. *Crop Protection* 80, 94-100. <https://doi.org/10.1016/j.cropro.2015.10.002>
19. Athanassiou C.G., Kavallieratos N.G., Rumbos C.I., Kontodimas D.C. 2017. Influence of temperature and relative humidity on the insecticidal efficacy of *Metarhizium anisopliae* against larvae of *Ephestia kuehniella* (Lepidoptera: Pyralidae) on wheat. *Journal of Insect Science* 17, 22. <https://doi.org/10.1093/jisesa/iew107>
20. Rumbos C.I., Athanassiou C.G. 2017. Use of entomopathogenic fungi for the control of stored-product insects: can fungi protect durable commodities? *Journal of Pest Science* 90, 839-854. <https://doi.org/10.1007/s10340-017-0849-9>
21. Ntalli N., Monokrousos N., Rumbos C., Kontea D., Zioga D., Argyropoulou M.D., Menkissoglu-Spirodi U., Tsiropoulos N.G. 2017. Greenhouse biofumigation with *Melia azedarach* controls *Meloidogyne* spp. and enhances soil biological activity. *Journal of Pest Science* 91, 29-40. <https://doi.org/10.1007/s10340-017-0909-1>
22. Athanassiou C.G., Chiou A., Rumbos C.I., Sotiroudas V., Sakka M., Nikolidaki E.K., Panagopoulou E.A., Kouvelas A., Katechaki E., Karathanos V.T. 2017. Effect of nitrogen in combination with

elevated temperatures on insects, microbes and organoleptic characteristics of stored currants. Journal of Pest Science 90, 557-567. <https://doi.org/10.1007/s10340-016-0806-z>

23. Athanassiou C.G., Rumbos C.I., Sakka M., Potin O., Storm C., Dillon A.B. 2017. Delivering *Beauveria bassiana* with electrostatic powder for the control of stored-product beetles. Pest Management Science 73, 1725-1736. <https://doi.org/10.1002/ps.4522>
24. Rumbos C.I., Athanassiou C.G. 2017. The use of entomopathogenic nematodes in the control of stored-product insects. Journal of Pest Science 90, 39-49. <https://doi.org/10.1007/s10340-016-0795-y>
25. Michaelakis A., Papachristos D.P., Rumbos C.I., Athanassiou C.G. 2017. Effect of the combined application of microencapsulated synthetic oviposition pheromone (MSP) with different larvicidal agents on the oviposition of *Culex pipiens* biotype *molestus*. Pest Management Science 74, 392-397. <https://doi.org/10.1002/ps.4719>
26. Rumbos C.I., Dutton A.C., Athanassiou C.G. 2018. Insecticidal effect of spinetoram and thiamethoxam applied alone or in combination for the control of major stored-product beetle species. Journal of Stored Products Research 75, 56-63. <https://doi.org/10.1016/j.jspr.2017.10.004>
27. Kavallieratos N.G., Athanassiou C.G., Boukouvala M.C., and Rumbos C.I. 2018. Acaricidal effect of three zeolite formulations on different life stages of *Tyrophagus putrescentiae* (Schrank) and *Acarus siro* L. (Sarcoptiformes: Acaridae). Journal of Stored Products Research 78, 39-44. <https://doi.org/10.1016/j.jspr.2018.05.008>
28. Colacci M., Kavallieratos N.G., Athanassiou C.G., Boukouvala M.C., Rumbos C.I., Kontodimas D.C., Pardo D., Sancho J., Benavent-Fernández E., Gálvez-Settler S., Sciarretta A., Trematerra P. 2018. Management of the pine processionary moth, *Thaumetopoea pityocampa* (Lepidoptera: Thaumetopoeidae), in urban and suburban areas: Trials with trunk barrier and adhesive barrier trap devices. Journal of Economic Entomology 111, 227-238. <https://doi.org/10.1093/jee/tox270>
29. Baliota G., Rumbos C.I., Athanassiou G.C. 2018. From lethality to mortality: exploring the “grey area” of knockdown as an efficacy indicator of different insecticides against major storage

insects using a lethality index. *Journal of Pest Science* 91, 1371–1380.
<https://doi.org/10.1007/s10340-018-0983-z>

30. Athanassiou C.G., Kavallieratos N.G., Rumbos C.I., Stavropoulos D.J., Boukouvala M.C., Nika E.P. 2018. Laboratory studies on the behavioral responses of *Tribolium confusum* and *Ephestia kuehniella* to surfaces treated with diatomaceous earth and spinosad formulations. *Journal of Pest Science* 91, 299-311. <https://doi.org/10.1007/s10340-017-0908-2>
31. Rumbos C.I., Sakka M., Schaffert S., Sterz T., Austin J.W., Bozoglou C., Klitsinaris P., Athanassiou C.G. 2018. Evaluation of Carifend®, an alpha-cypermethrin-coated polyester net, for the control of *Lasioderma serricorne* and *Ephestia elutella* in stored tobacco. *Journal of Pest Science* 91, 751-759. <https://doi.org/10.1007/s10340-017-0947-8>
32. Rumbos C.I., Dutton A.C., Tsiropoulos N.G., Athanassiou C.G. 2018. Persistence and residual toxicity of two pirimiphos-methyl formulations on wheat against three stored-product pests. *Journal of Stored Products Research* 76, 14-21. <https://doi.org/10.1016/j.jspr.2017.10.011>
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