

Hamzeh Izadi

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Hello! My name is Dr. Hamzeh Izadi, and I am a dedicated scientist and academic with a profound fascination for the natural world. In 2004, I earned my Ph.D. in insect physiology from the prestigious Indian Agricultural Research Institute, where I conducted groundbreaking research on the juvenile activity of oxime ethers. Throughout my extensive 26-year career in academia, I have had the privilege of working in renowned institutions and collaborating with esteemed colleagues. My research interests primarily revolve around the captivating field of insect physiology, with a particular focus on c

Current affiliation:

- Rafsanjan University of Medical Sciences from 2016

Publication Metrics

For manuscripts published from date range January 2019 - January 2024

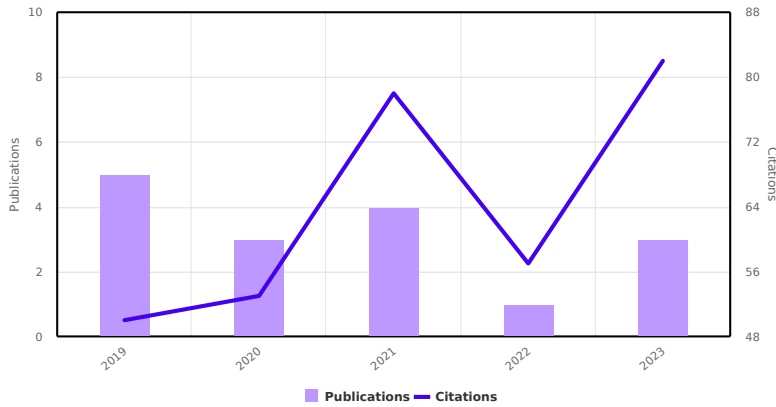
5	80
H-index	Sum of Times Cited
16	16
Total Publications	Web of Science Core Collection Publications

For all time

14	478
H-index	Sum of Times Cited
61	47
Total Publications	Web of Science Core Collection Publications

Publication Impact Over Time

Times Cited and Publications Over Time



Publishing Summary

For manuscripts published from date range January 2019 - January 2024

- | | |
|---|--|
| (4) Journal of Economic Entomology | (2) International Journal of Pest Man... |
| (2) Frontiers in Physiology | (1) Environmental Entomology |
| (1) Journal of Thermal Biology | (1) Bulletin of Entomological Resear... |
| (1) Cryobiology | (1) Zoological Studies |
| (1) Journal of Stored Products Resea... | (1) Journal of Applied Entomology |
| (1) Experimental and Applied Acarol... | |

Publications

For manuscripts published from date range January 2019 - January 2024 (16)

Times Cited
(All time)

The supercooling point depression is the leading cold tolerance strategy for the variegated ladybug, [*Hippodamia variegata* (Goezel)]

Published: Dec 2023 in Frontiers in Physiology

DOI: 10.3389/FPHYS.2023.1323701

0

Seasonal changes in supercooling capacity and main polyols in overwintering adults of *Acrosternum millierei* (Hemiptera: Pentatomidae)

Published: 2023 in International Journal of Pest Management

DOI: 10.1080/09670874.2023.2251024

0

Rhizoglyphus robini, a pest mite of saffron, is unable to resist extracellular ice formation

Published: 2023 in Experimental and Applied Acarology

DOI: 10.1007/S10493-023-00828-W

0

<p>Sub-lethal effects of <i>Metarhizium anisopliae</i> on the life table parameters of the predatory coccinellid <i>Menochilus sexmaculatus</i> Fabricius Published: Nov 2022 in Journal of Applied Entomology DOI: 10.1111/JEN.13052</p>	1
<p>Trehalose and proline failed to enhance cold tolerance of the cowpea weevil, <i>Callosobruchus maculatus</i> (F.) (Col.: Bruchidae) Published: Sep 2021 in Journal of Stored Products Research DOI: 10.1016/J.JSPR.2021.101853</p>	3
<p>Assessment of Toxicity Risk of Selected Insecticides Used in Pistachio Ecosystem on Two Egg Parasitoids (Hymenoptera: Scelionidae) of Stink Bugs (Hemiptera: Pentatomidae) Published: Aug 2021 in Journal of Economic Entomology DOI: 10.1093/JEE/TOAB129</p>	1
<p>Expanded Supercooling Capacity With No Cryoprotectant Accumulation Underlies Cold Tolerance of the European Grapevine Moth Published: Apr 2021 in Journal of Economic Entomology DOI: 10.1093/JEE/TOAB005</p>	2
<p>Lethal and Sublethal Effects of Two Commercial Insecticides on Egg Parasitoids (Hymenoptera: Scelionidae) of Green Stink Bugs (Hem: Pentatomidae) Published: Feb 2021 in Journal of Economic Entomology DOI: 10.1093/JEE/TOAA232</p>	4
<p>Simultaneous Occurrence of Diapause and Cold Hardiness in Overwintering Eggs of the Apple Oystershell Scale, <i>Lepidosaphes Malicola</i> Borchsenius (Hem.: Diaspididae) Published: Jul 2020 in Zoological Studies DOI: 10.6620/ZS.2020.59-25</p>	3
<p>Overwintering Physiology and Cold Tolerance of the Sunn Pest, <i>Eurygaster integriceps</i>, an Emphasis on the Role of Cryoprotectants Published: Apr 2020 in Frontiers in Physiology DOI: 10.3389/FPHYS.2020.00321</p>	9
<p>Induced eggplant resistance against <i>Trialeurodes vaporariorum</i> triggered by jasmonic acid, abscisic acid, and <i>Nesidiocoris tenuis</i> feeding Published: Apr 2020 in Bulletin of Entomological Research DOI: 10.1017/S0007485319000646</p>	4
<p>Cold tolerance and supercooling points of two ladybird beetles (Col.: Coccinellidae): Impact of the diet Published: Dec 2019 in Cryobiology DOI: 10.1016/J.CRYOBIOL.2019.10.197</p>	5
<p>Cold Tolerance of the <i>Tribolium castaneum</i> (Coleoptera: Tenebrionidae), Under Different Thermal Regimes: Impact of Cold Acclimation Published: Aug 2019 in Journal of Economic Entomology DOI: 10.1093/JEE/TOZ089</p>	14

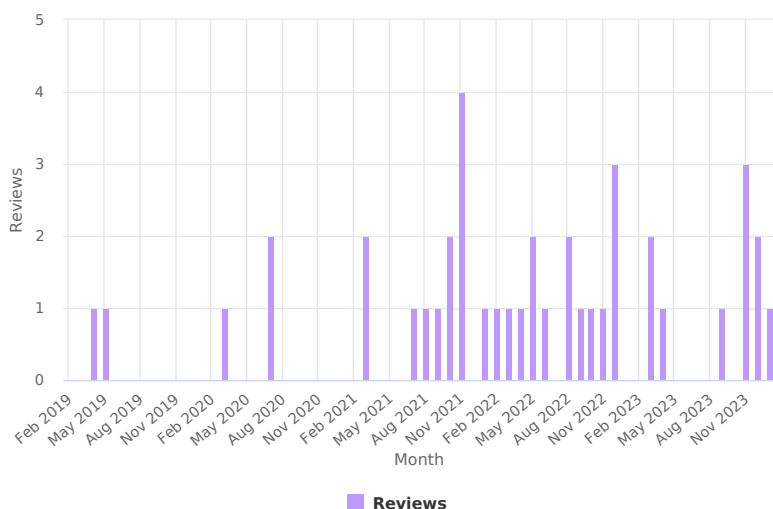
Effect of Arsenophonus Endosymbiont Elimination on Fitness of the Date Palm Hopper, *Ommatissus lybicus* (Hemiptera: Tropiduchidae) 14
 Published: Jun 2019 in Environmental Entomology
 DOI: 10.1093/EE/NVZ047

Induced resistance by jasmonic and abscisic acids and *Nesidiocoris tenuis* feeding on *Solanum lycopersicum* against *Trialeurodes vaporariorum* 5
 Published: 2019 in International Journal of Pest Management
 DOI: 10.1080/09670874.2019.1669843

Changes in biochemical contents and survival rates of two stored product moths under different thermal regimes 15
 Published: 2019 in Journal of Thermal Biology
 DOI: 10.1016/J.JTHERBIO.2018.12.022

Verified Reviews

Review Summary



Reviewer Summary

For manuscripts reviewed from date range January 2019 - January 2024

(9) Insects	(8) International Journal of Pest Man...
(4) Environmental Entomology	(4) Frontiers in Physiology
(3) Agriculture	(2) International Journal of Molecula...
(2) Biology	(2) Entomological Research
(1) Biocontrol Science and Technolo...	(1) Science Progress
(1) Entomologia Experimentalis et A...	(1) Journal of Experimental Zoology ...
(1) Journal of Crop Protection	(1) Journal of Thermal Biology
(1) Journal of Economic Entomology	

41 REVIEWS OF 30 MANUSCRIPTS

For manuscripts published from date range January 2019 - January 2024

Increased mass-rearing of queens in high royal jelly-producing honey bee colonies (*Apis mellifera ligustica*) generates smaller-sized queens but with comparable fecundity
Reviewed: Jan 2024 for Agriculture

Comparative 4D label-free quantitative proteomic analysis of *Bombus terrestris* provides insights into proteins and processes associated with diapause
2 rounds from Dec 2023 to Dec 2023 for International Journal of Molecular Sciences

Development of ethyl formate disinfestation treatment methods for the prevention of the introduction and establishment of exotic insect pests in greenhouse cultivation
2 rounds from Nov 2023 to Nov 2023 for Agriculture

Impact of diets and environmental variables on biological development of *Callosobruchus maculatus* Fabricius (Coleoptera: Chrysomelidae)
Reviewed: Nov 2023 for International Journal of Pest Management

A New Perspective to Understand the Late Season Abundance of *Delia Antiqua* (Diptera: Anthomyiidae): A Modeling Approach for the Hot Summer Effect
Reviewed: Sep 2023 for Insects

Elucidating the Effect of Temperature Stress on the Protein Content, Total Antioxidant Capacity and Antioxidant Enzyme Activities in *Tetranychus Urticae* (Acari: Tetranychidae)
2 rounds from Mar 2023 to Apr 2023 for Insects

Thermal biology and overwintering behavior of the red sunflower seed weevil (Coleoptera: Curculionidae)
2 rounds from Dec 2022 to Mar 2023 for Environmental Entomology

Reproductive response of the predator *Tenuisvalvae notata* (Mulsant) (Coleoptera: Coccinellidae) to temperatures outside their ideal thermal range
Reviewed: Dec 2022 for Biocontrol Science and Technology

Insect Freeze-Tolerance Downunder: The Microbial Connection
2 rounds from Nov 2022 to Dec 2022 for Insects

Differentiation of Developmental Pathways Results in Different Life-History Patterns between the High and Low Latitudinal Populations in the Asian Corn Borer
Reviewed: Oct 2022 for Insects

COMBINED EFFECT OF CARBON DIOXIDE, NITROGEN, AND OXYGEN MODIFIED ATMOSPHERE ON MORTALITY OF *Tribolium castaneum* (HERBST) (COLEOPTERA: TENEBRIONIDAE)
Reviewed: Sep 2022 for Science Progress

Innovative feedstocks for optimal mass production of the edible long-horned grasshopper, *Ruspolia differens*
Reviewed: Aug 2022 for Frontiers in Physiology

Flight Performance of Pollen Starved Honey Bees and Compensation of Early Life Pollen Deprivation
Reviewed: Aug 2022 for Frontiers in Physiology

Gradually Increasing the Temperature Reduces the Diapause Termination Time of *Trichogramma dendrolimi* While Increasing Parasitoid Performance
Reviewed: Jun 2022 for Insects

Effect of X-ray irradiation on development, flight, and reproduction of *Spodoptera litura*
Reviewed: May 2022 for *Frontiers in Physiology*

Overwintering characteristics of *Clanis bilineata tsingtauca* larvae (Lepidoptera: Sphingidae)
Reviewed: May 2022 for *Entomologia Experimentalis et Applicata*

Characterization of three heat shock protein 70 genes from *Pieris melete* and their expression patterns in response to temperature stress and pupal diapause
Reviewed: Apr 2022 for *Insects*

Exploring cold hardiness within a butterfly clade: supercooling ability and polyol pro-files in European Satyrinae
Reviewed: Mar 2022 for *Insects*

Induced resistance of pistachio tree against *Agonoscena pistaciae* Burckhardt and Lauterer (Hemiptera: Psyllidae): integrated application of sodium silicate and phytohormones
3 rounds from Oct 2021 to Feb 2022 for *International Journal of Pest Management*

The effect of pine trees surrounding wheat fields on the infestation of wheat sunn pest, *Eurygaster integriceps* in Shahr-e-Rey/Tehran region
Reviewed: Jan 2022 for *International Journal of Pest Management*

Suppression of glycerol biosynthesis-related genes decreases the effect of rapid cold hardening in *Helicoverpa assulta*
2 rounds from Nov 2021 to Nov 2021 for *Entomological Research*

Metabolic Response of Aphid *Cinara tujafilina* to Cold Stress
2 rounds from Mar 2021 to Nov 2021 for *Biology*

Identification and Functional Characterization of Antifreeze Protein and its Mutants in *Dendroctonus armandi* (Coleoptera: Curculionidae: Scolytinae) Larvae under Cold Stress
2 rounds from Aug 2021 to Oct 2021 for *Environmental Entomology*

Involvement of 20-hydroxyecdysone on feeding behavior and carbohydrate metabolizing enzymes in the adult stage of the red flour beetle, *Tribolium castaneum*
2 rounds from Jul 2021 to Sep 2021 for *International Journal of Pest Management*

Changes in amino acid and lipophilic profiles of *Chilo partellus* (Swinhoe) larvae due to diapause
Reviewed: Mar 2021 for *Journal of Experimental Zoology Part A: Ecological Genetics and Physiology*

Roles of the PTP61F Gene in Regulating Energy Metabolism of *Tribolium castaneum* (Coleoptera: Tenebrionidae)
Reviewed: Jul 2020 for *Frontiers in Physiology*

Morphological response of the red palm weevil, *Rhynchophorus ferrugineus*, to a transient low temperature analyzed by computer tomography and holographic microscopy
Reviewed: Jul 2020 for *Journal of Thermal Biology*

Impact of Four Different Diets on the *Ephestia kuehniella* (Zeller, 1879) Pupal and Larval Total Protein and Digestive α -amylase Activity
Reviewed: Mar 2020 for *Journal of Crop Protection*

Impact of Kaolin Particle Film on Pistachio Psylla (*Agonoscena pistaciae* Burckhardt & Lauterer) - a Field Study
Reviewed: May 2019 for *International Journal of Pest Management*
