

Performing science: From a research project to communicating results

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Jagiellonian University*

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www.cyfronet.krakow.pl/~uxlaskow

Organizational matters

- 30 hours: 5 lectures x 3 h + 3 workshops x 3 h + 6 h e-learning
- Two parts:
 - Preparing scientific publications, article reviews and grant proposals (Ryszard Laskowski)
 - Effective presentation (Marcin Czarnołęski)
- e-learning:
 - reviewing a research paper (HOMEWORK!)
 - preparing a grant proposal (HOMEWORK!)
- Evaluation:
 - scoring grant proposals
 - scoring oral presentations
 - scoring manuscript reviews
 - attending at least 24 hours out of 30

Recommended books

- Katz, M. J. (2009) *From research to manuscript: a guide to scientific writing*. Springer, 210 pp.
- Peat, J., Elliott, E., Baur, L. & Keena, V. (2002). *Scientific writing: easy when you know how*. Wiley-Blackwell, 312 pp .
- Day, R. A. & Gastel, B. (2006) *How to write and publish a scientific paper*. Greenwood, 320 pp.
- Glasman-Deal, H. (2010) *Science research writing for non-native speakers of English*. London Imperial College Press, 257 pp.

Supplementary materials

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<i>Research communication</i> <i>supplementary materials for the course</i> Only for registered students - login and password required	
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Supplementary materials for course participants

Click to download:

- [Letter from the editor - major revision](#)
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- [Habits of successful writing](#)
- [How to write a scientific article \(Carpenter\)](#)
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- [San Francisco Edit - 06: Methods](#)
- [San Francisco Edit - 07: Discussion](#)
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- [San Francisco Edit - 09: Tables & Figures](#)

PART 1:

Handling scientific information

Google Scholar – basic yet fine

<http://scholar.google.com>

Google Scholar

Articles Case law

Recommended articles

Excess zinc uptake in *Paronychiurus kimi* (Collembola) induces toxic effects at the individual and population levels

J Son, YS Lee, Y Kim, J Wee, E Ko, K Cho - Korean Journal of Environmental Biology, 2019

Genetic, epigenetic and microbiome characterisation of an earthworm species (*Octolasion lacteum*) along a radiation exposure gradient at Chernobyl

LK Newbold, A Robinson, I Rasnaca, E Lahive... - Environmental Pollution, 2019

[See all recommendations](#)

- Advantages:

- free
- easy to use
- gives access to pdfs located even on private servers

Disadvantages:

- limited search options
- Google does not maintain formal database

Google Scholar – Advanced search

× Advanced search 🔍

Find articles

with **all** of the words

with the **exact phrase**

with **at least one** of the words

without the words

where my words occur

anywhere in the article

in the title of the article

Return articles **authored by**
e.g., "PJ Hayes" or McCarthy

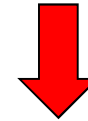
Return articles **published in**
e.g., J Biol Chem or Nature

Return articles **dated between** —
e.g., 1996

Web of Knowledge: the benchmark

- Advantages:
 - Formal database by Thomson Reuters
 - Special section for science (Web of Science)
 - Covers all important journals
 - Allows for complex queries
 - Highly customizable (lemmatization, with or without conference proceedings, timespan, etc.)
 - Recognized by universities etc.
 - Useful add-ins (EndNote, Citation Alerts, Publons)
- Disadvantages
 - Not free (but most universities have access)
 - Search limited to publications covered by the data base

http://apps.webofknowledge.com



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Web of Science

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Example: oil spill* mediterranean

Topic

Search

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Timespan

All years (1900 - 2020)


More settings

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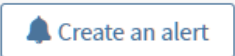
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Web of Science


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

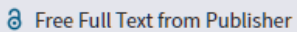


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-  Associated Data (25)





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- 1. **Environmental impacts of reduced-risk and conventional pesticide programs differ in commercial apple orchards, but similarly influence pollinator community**
By: Joshi, Neelendra K.; Leslie, Timothy; Rajotte, Edwin G.; et al.
CHEMOSPHERE Volume: 240 Article Number: UNSP 124926 Published: FEB 2020
 [View Abstract](#) 
 
Times Cited: 0
(from Web of Science Core Collection)
Usage Count 
- 2. **Persistence of pollination mutualisms under pesticides**
By: Wang, Yuanshi; Wu, Hong; Wang, Shikun
APPLIED MATHEMATICAL MODELLING Volume: 77 Pages: 861-880 Part: 1 Published: 2020
  [View Abstract](#) 
Times Cited: 0
(from Web of Science Core Collection)
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- 3. **Reduced species richness of native bees in field margins associated with neonicotinoid concentrations in non-target soils**
Times Cited: 0
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Constructing effective queries

- NOT just one keyword in one form:

~~metals~~ ~~insects~~ ~~forest~~ ~~pollution~~ ~~DNA~~

- Lemmatization, plural forms, etc. – using asterisks:

metal* insect* forest* pollut*

- Complex formulas:

(metal* OR Zn OR zinc) AND (insect* OR inverteb*) NOT...

Making good use of citations: citation network

The screenshot shows a Web of Science article page. The article title is "The neonicotinoids thiacloprid, imidacloprid, and clothianidin affect the immunocompetence of honey bees (*Apis mellifera* L.)". The authors listed are Brandt, A (Brandt, Anneli)^[1]; Gorenflo, A (Gorenflo, Anna)^[1]; Siede, R (Siede, Reinhold)^[1]; Meixner, M (Meixner, Marina)^[1]; Buchler, R (Buechler, Ralph)^[1]. The journal is "JOURNAL OF INSECT PHYSIOLOGY", Volume 86, Pages 40-47, published in MAR 2016. The article type is "Article".

On the right side of the page, there is a "Citation Network" sidebar. It shows "110 Times Cited" in the Web of Science Core Collection, with a red arrow pointing to the number. Below that, it shows "96 Cited References" with another red arrow pointing to the number. A third red arrow points from the "Citation Network" section to the "Published: MAR 2016" date in the article details.

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Web of Science logo and Clarivate Analytics logo.

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The neonicotinoids thiacloprid, imidacloprid, and clothianidin affect the immunocompetence of honey bees (*Apis mellifera* L.)

By: Brandt, A (Brandt, Anneli)^[1]; Gorenflo, A (Gorenflo, Anna)^[1]; Siede, R (Siede, Reinhold)^[1]; Meixner, M (Meixner, Marina)^[1]; Buchler, R (Buechler, Ralph)^[1]

[View Web of Science ResearcherID and ORCID](#)

JOURNAL OF INSECT PHYSIOLOGY
Volume: 86 Pages: 40-47
DOI: 10.1016/j.jinsphys.2016.01.001
Published: MAR 2016
Document Type: Article
[View Journal Impact](#)

Abstract
A strong immune defense is vital for honey bee health and colony survival. This defense can be weakened by environmental factors that may render honey bees more vulnerable to parasites and pathogens. Honey bees are frequently exposed to neonicotinoid pesticides, which are being discussed as one of the stress factors that may lead to colony failure. We investigated the sublethal effects of the neonicotinoids thiacloprid, imidacloprid, and

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96 Cited References

Making good use of citations: citation network

Cited References: 96

Showing 30 of 96 [View All in Cited References page](#)

(from Web of Science Core Collection)

- How should behavioural ecologists interpret measurements of immunity?** Times Cited: 253
By: Adamo, SA
ANIMAL BEHAVIOUR Volume: 68 Pages: 1443-1449 Part: 6 Published: DEC 2004

- The Global Stock of Domesticated Honey Bees Is Growing Slower Than Agricultural Demand for Pollination** Times Cited: 396
By: Aizen, Marcelo A.; Harder, Lawrence D.
CURRENT BIOLOGY Volume: 19 Issue: 11 Pages: 915-918 Published: JUN 9 2009
- Brain, physiological and behavioral modulation induced by immune stimulation in honeybees (Apis mellifera): A potential mediator of social immunity?** Times Cited: 13
By: Alaux, Cedric; Kemper, Nele; Kretzschmar, Andre; et al.
BRAIN BEHAVIOR AND IMMUNITY Volume: 26 Issue: 7 Pages: 1057-1060 Published: OCT 2012
- Interactions between Nosema microspores and a neonicotinoid weaken honeybees (Apis mellifera)** Times Cited: 288
By: Alaux, Cedric; Brunet, Jean-Luc; Dussaubat, Claudia; et al.
ENVIRONMENTAL MICROBIOLOGY Volume: 12 Issue: 3 Pages: 774-782 Published: MAR 2010
- Immune defence reaction in bumble-bee workers after a previous challenge and parasitic coinfection** Times Cited: 33
By: Allander, K; Schmid-Hempel, P
FUNCTIONAL ECOLOGY Volume: 14 Issue: 6 Pages: 711-717 Published: DEC 2000

SCOPUS: next to the benchmark

- Advantages:
 - Formal data base by Elsevier
 - Claims to be “the largest abstract and citation database of peer-reviewed literature”
 - Covers all important journals
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 - Customizable
 - Recognized by some universities etc.
 - Useful add-ins (Analyze Results)
- Disadvantages
 - Not free (but most universities have access)
 - Search limited to publications covered by the data base

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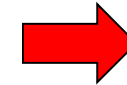
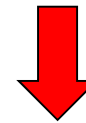
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E.g., "Cognitive architectures" AND robots

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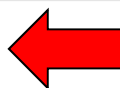
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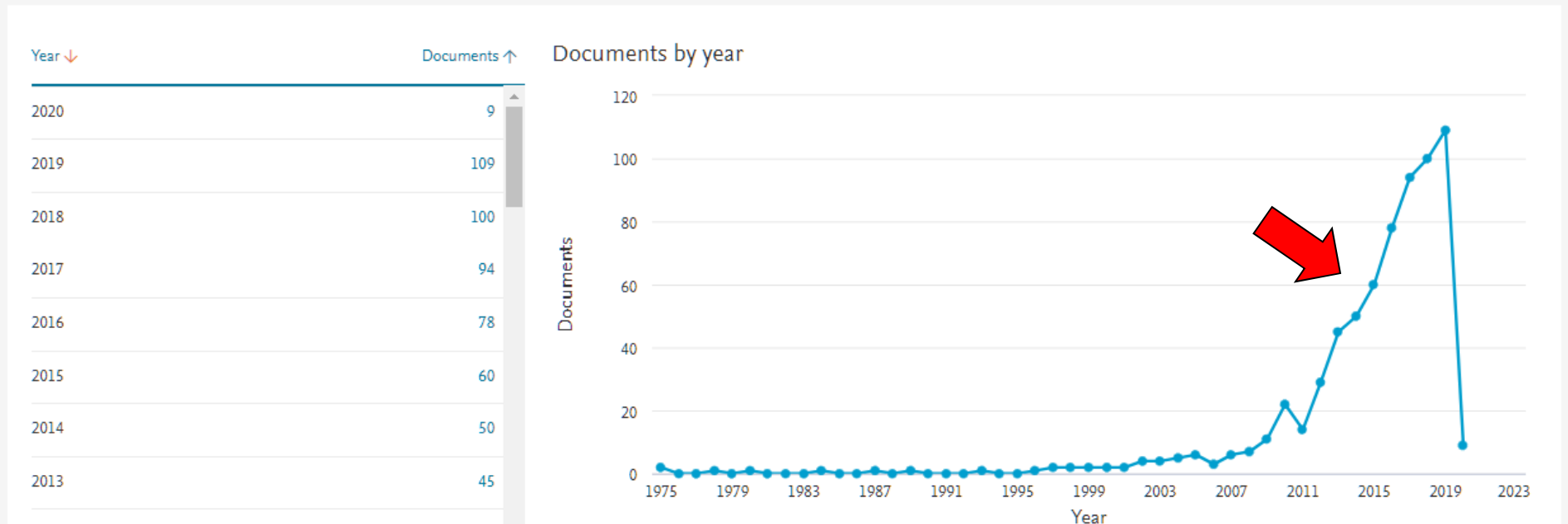
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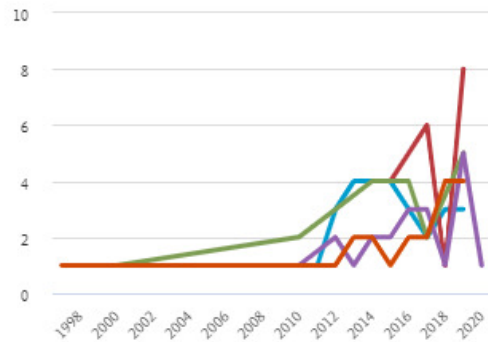
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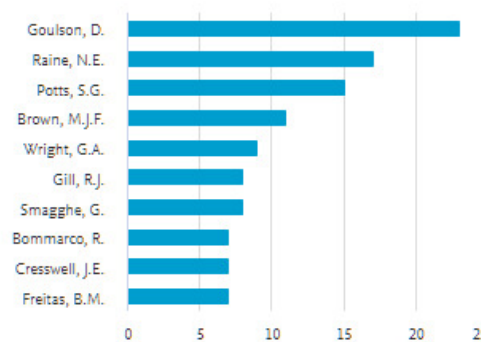
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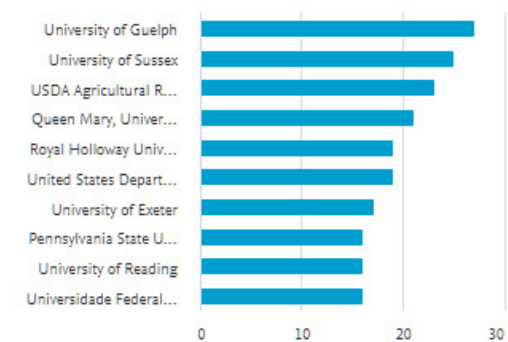
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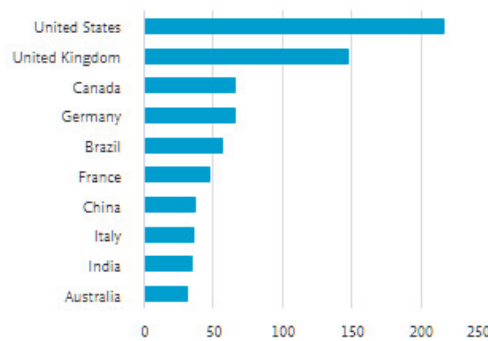
Documents by author



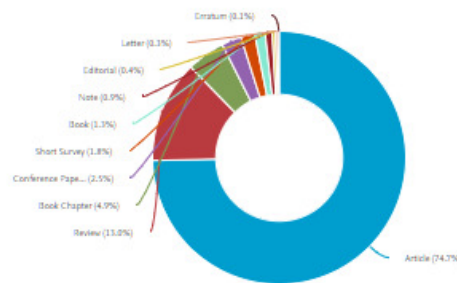
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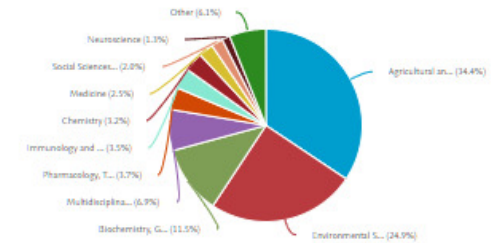
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Managing your references

- Minimum requirements:
 - bibliographic database of your reprints/pdfs
 - searchable database
 - generating reference lists for articles
- Better also:
 - database entries linked to the respective files
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 - networking
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<input type="checkbox"/>	★	Original article On the origin and properties of scent marks deposited at the food ... Rncira M, Araua S, Ucchib R, et. al. in <i>Apidologie</i> (2004)	15/11/19
<input type="checkbox"/>	★	Multiple routes of pesticide exposure for honey bees living near agricultural fields Krupke C, Hunt G, Eitzer B, et. al. in <i>PLoS ONE</i> (2012)	15/11/19
<input type="checkbox"/>	★	Differential insecticide susceptibility of the Neotropical stingless bee <i>Melipona qu...</i> Del Sarto M, Oliveira E, Guedes R, et. al. in <i>Apidologie</i> (2014)	15/11/19
<input type="checkbox"/>	★	Effects of 'inactive' ingredients on bees Mullin C in <i>Current Opinion in Insect Science</i> (2015)	15/11/19
<input type="checkbox"/>	★	Oral toxicity of fipronil insecticide against the stingless bee <i>Melipona scutellaris</i> (... Lourenço C, Carvalho S, Malaspina O, et. al. in <i>Bulletin of Environmental Contamination and Toxicology...</i>	15/11/19
<input type="checkbox"/>	★	The formulation makes the honey bee poison Mullin C, Chen J, Fine J, et. al. in <i>Pesticide Biochemistry and Physiology</i> (2015)	15/11/19
<input type="checkbox"/>	★	Predicting effects on aquatic organisms from fluctuating or pulsed exposure to pe... Ashauer R, Boxall A, Brown C in <i>Environmental Toxicology and Chemistry</i> (2006)	15/11/19
<input type="checkbox"/>	★	Impact of Thiamethoxam on Honey Bee Queen (<i>Apis mellifera carnica</i>) Reproducti... Gajger I, Sakač M, Gregorc A in <i>Bulletin of Environmental Contamination and Toxicology</i> (2017)	15/11/19
<input type="checkbox"/>	★	Guidance on the risk assessment of plant protection products on bees (<i>Apis melli...</i> in <i>EFSA Journal</i> (2016)	15/11/19
<input type="checkbox"/>	★	Plant volatile aldehydes as natural insecticides against stored-product beetles	15/11/19

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Filter by Authors

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- Abdel-Lateif, H. M.
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- Belden, J B
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- Bindesbøl, Anne-Mette

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★	●	📄	Authors	Title	Year	Published In	Added
☆	●	📄	Abdel-Lateif, H. M.; Do...	Interaction between temperature and cadmium toxicity in the isopod Porcellio scaber	1998	Functional Ecology	25-06-10
☆	●	📄	Baas, J.; Stefanowicz, ...	Model-based experimental design for assessing effects of mixtures of chemicals.	2010	Environmental pollution	12-12-10
☆	●	📄	Backhaus, Thomas; Alt...	Predictability of the toxicity of a multiple mixture of dissimilarly acting chemicals to <i>Vibrio fischeri</i>	2000	Environmental Toxicology an...	25-02-11
☆	●	📄	Bednarska, A. J.; Lask...	Environmental conditions enhance toxicant effects in larvae of the ground beetle <i>Pterostichus oblongopunctatus</i>	2009	Environmental Pollution	25-06-10
☆	●	📄	Bednarska, A. J.; Lask...	Effects of nickel and temperature on the ground beetle <i>Pterostichus oblongopunctatus</i> (Coleopter...	2008	Ecotoxicology	25-06-10
☆	●	📄	Bednarska, A. J.; Portk...	Combined effect of environmental pollutants (nickel, chlorpyrifos) and temperature on the ground beet...	2009	Environmental Toxicology an...	25-06-10
☆	●	📄	Bindesbøl, A.M.; Bayle...	Impacts of heavy metals, polyaromatic hydrocarbons, and pesticides on freeze tolerance ...	2009	Environmental Toxicology an...	mar 7
☆	●	📄	Bindesbøl, Anne-Mette...	Stress synergy between environmentally realistic levels of copper and frost in the earthworm Dendr...	2005	Environmental toxicology an...	25-06-10
☆	●	📄	Brecken-Folse, J A; Ma...	Acute toxicity of 4-nitrophenol, 2,4-dinitrophenol, terbufos and trichlorfon to grass shrimp (<i>Palaemo...</i>	1994	Environmental Toxicology an...	25-06-10
☆	●	📄	Bryant, V; Newbery, D...	Effect of temperature and salinity on the toxicity of nickel and zinc to two estuarine invertebrates (<i>Cor...</i>	1985	Marine Ecology Progress Series	25-05-11
☆	●	📄	Bryant, V; Newbery, D...	Effect of temperature and salinity on the toxicity of nickel and zinc to two estuarine invertebrates (<i>Cor...</i>	1985	Marine Ecology Progress Series	25-06-10
☆	●	📄	Chang, Xiaoli; Zhai, Ba...	Effects of temperature stress and pesticide exposure on fluctuating asymmetry and mortality ...	2007	Ecotoxicology and environm...	25-06-10
☆	●	📄	Chen, Celia Y; Hathawa...	Multiple stress effects of Vision herbicide, pH, and food on zooplankton and larval amphibian species ...	2004	Environmental Toxicology an...	02-03-11
☆	●	📄	Cooney, J.D.; Beaucha...	Effects of temperature and nutritional state on the acute toxicity of acridine to the calanoid copepod...	1983	Environmental Toxicology an...	02-03-11
☆	●	📄	Donker, M. H.; Abdel-L...	Temperature, Physiological Time, and Zinc Toxicity in the Isopod <i>Porcellio Scaber</i>	1998	Environmental Toxicology an...	25-06-10
☆	●	📄	Forget, J; Pavillon, J F...	Mortality and LC50 values for several stages of the marine copepod <i>Tigriopus brevicornis</i> (Müller) exp...	1998	Ecotoxicology and environm...	25-06-10
☆	●	📄	Forget, J; Pavillon, J F...	Joint Action of Pollutant Combinations (Pesticides...	1999	Environmental	25-06-10

Details Notes

Type: Journal Article

Environmental conditions enhance toxicant effects in larvae of the ground beetle *Pterostichus oblongopunctatus* (Coleoptera: Carabidae)

Authors: A. Bednarska, R. Laskowski

[View research catalog entry for this paper](#)

Journal: *Environmental Pollution*

Year: 2009

Volume: 157

Issue: 5

Pages: 1597-602

Abstract:

In natural ecosystems it is not unusual for an organism to be exposed both to chemical and physical stressful factors at the same time. Herein we present results of the study on nickel toxicity to the carabid beetle, *Pterostichus oblongopunctatus*, and effect of Ni and temperature on the beetles respiration rates. In the first part of the study (Experiment I) we measured the survival, respiration rates and internal Ni concentrations in animals exposed for 245 d at constant temperature (20 °C) to food contaminated with Ni at nominal concentrations 0; 600; 1,200; 2,400; 4,800; and 9,600 mg kg⁻¹ dry weigh (dw). The LC50 was estimated at 8,351 mg Ni kg⁻¹, with no effect on fertility. We found a significant positive correlation between...

Tags:

1 of 54 documents selected

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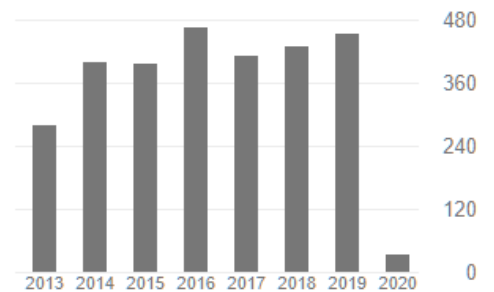
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Country

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Keywords

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▼ [Uniwersytet Jagielloński w Krakowie: Krakow, Małopolska, PL](#)

2008 to present | Professor, Head of the Ecotoxicology and Stress Ecology Group (Institute of Environmental Sciences)

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▼ [Uniwersytet Jagielloński w Krakowie: Krakow, Małopolska, PL](#)

2002 to 2008 | Professor, Deputy Director of the Institute (Institute of Environmental Sciences)

Employment

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▼ [Collegium Tarnoviensis: Tarnów, Małopolska, PL](#)

2002 to 2003 | Associate Professor (Institute of Mathematics and Natural Sciences)

Employment



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