

**Dr.ir. C.A.M. van Gestel**  
**VU University Amsterdam**  
**Faculty of Earth- and Life Sciences**  
**Department of Ecological Sciences**  
**Section Animal Ecology**  
**De Boelelaan 1085**  
**1081 HV Amsterdam, The Netherlands**

### **Curriculum vitae:**

Name: Cornelis A. M. van Gestel  
Date of birth: 1956-03-27  
Place of birth: Gilze en Rijen, the Netherlands  
Position: Associate Professor of Ecotoxicology

### **Education:**

- Agricultural University, Wageningen, graduated (with distinction) 1981.  
Main subjects: Soil Protection (study on the degradation and mobility of oil components in soil; environmental aspects of landfarming)  
Microbiology (study on the nitrogen fixation by free-living cultures of *Rhizobium* spp.)
- Ph D graduation on the thesis "Earthworms in ecotoxicology", University of Utrecht, 1991.

### **Previous jobs:**

- 1981-1986: Scientific advisory work on the ecotoxicological risk assessment of pesticides (fate in soil and water, toxicity for birds, aquatic organisms, beneficial arthropods, soil organisms, etc.), Advisory Centre Toxicology, National Institute of Public Health and Environmental Protection, Bilthoven, the Netherlands. Also involved in the risk assessment of new and existing chemical substances.
- 1986-1992: Head of the Department of Soil Ecotoxicology, National Institute of Public Health and the Environment, Bilthoven, the Netherlands

### **Experiences:**

- Research on the toxicity of organic chemicals for earthworms and higher plants in relation to bioavailability in soil
- Development of toxicity tests with oribatid mites and earthworms
- Development of bioassays for the assessment of the ecological risk of polluted and decontaminated soils for earthworms, enchytraeids, higher plants and Collembola
- Research on the development of QSARs for the toxicity of organic chemicals to earthworms, Collembola and higher plants
- Research on the toxicity and bioaccumulation of heavy metals in earthworms, enchytraeids, Collembola and oribatid mites, in relation to soil properties and other biotic and abiotic variables.
- Supervision of more than 20 Ph.D. students working on the toxicity and bioaccumulation of organic chemicals (pesticides, PAH, chlorobenzenes, pharmaceuticals) and heavy metals, single and in mixtures, in earthworms, Collembola, isopods, oribatid mites and higher plants, on mechanisms of metal tolerance in soil invertebrates (e.g. studies on the role of metal-binding proteins and

the expression of genes responsible for the induction of such proteins), and on the toxicity of metals and organic chemicals to fish.

- Senior lecturer in ecology and ecotoxicology, responsible for most of the education on ecotoxicology within the Vrije Universiteit, and several PhD courses on ecotoxicology and risk assessment within the Dutch Research School SENSE.
- Lecturer in ecotoxicology and risk assessment in several international courses.
- Partner in several European projects (FP6: NoMiracle, AquaTerra, OSIRIS; FP5: MIXTOX, TME; FP4: SECOFASE, BIOPRINT.)
- Several advisory tasks, e.g. on the behaviour and side-effects of pesticides within the frame-work of the Dutch Pesticide Act, on the setting of standards for soil and water quality and on deriving criteria for soil clean-up urgency on the basis of ecotoxicological data, and within the frame-work of the Netherlands Health Council; member and vice-chair of the Dutch Advisory Group on Integrated Risk Assessment of chemicals.
- Author or co-author of over 175 papers, books and book chapters.
- Editor of *Environmental Toxicology and Chemistry* and *Applied Soil Ecology*.
- Member of the editorial boards of the journals *Ecotoxicology*, *Ecotoxicology and Environmental Safety*, and *Environmental Pollution*

## Publications

- **Broerse, M. and C.A.M. van Gestel (2010).** Mixture effects of nickel and chlorpyrifos on *Folsomia candida* (Collembola) explained from development of toxicity in time. *Chemosphere***79**: 953-957. [PDF file](#)
- **De Silva, P.M.C.S., A. Pathiratne and C.A.M. van Gestel (2009).** Toxicity of chlorpyrifos, carbofuran, mancozeb and their formulations to the tropical earthworm *Perionyx excavatus*. *Applied Soil Ecology*,**44**: 56-60. [PDF file](#)
- **Kolar, L., A. Jemec, C.A.M. van Gestel, J. Valant, R. Hrzenjak, N. Kozuh Erzen, P. Zidar (2010).** Toxicity of abamectin to the terrestrial isopod *Porcellio scaber* (Isopoda, Crustacea). *Ecotoxicology*,**19**: 917-927. [PDF file](#)
  
- **De Silva, P.M.C.S. and Van Gestel, C.A.M. (2009).** Development of an alternative artificial soil for earthworm toxicity testing in tropical countries. *Applied Soil Ecology*, **43**: 170-174. [PDF file](#)
- **De Silva, P.M.C.S., Pathiratne, A. and Van Gestel, C.A.M. (2009).** Influence of temperature and soil type on the toxicity of three pesticides to *Eisenia andrei*. *Chemosphere*, **76**: 1410-1415. [PDF file](#)
- **De Silva, P.M.C.S. and Van Gestel, C.A.M. (2009).** Comparative sensitivity of *Eisenia andrei* and *Perionyx excavatus* in earthworm avoidance tests using two soil types in the tropics. *Chemosphere***77**: 1609-1613. [PDF file](#)
- **Li, L.Z., Zhou, D.M., Wang, P., Jin, S.Y., Peijnenburg, W.J.G.M., Reinecke, A.J., Van Gestel, C.A.M. (2009).** Effect of cation competition on cadmium uptake from solution by the earthworm *Eisenia fetida*. *Environmental Toxicology and Chemistry* **28**: 1732-1738. [PDF file](#)
- **Diez, M., M. Simon, F. Martin, C. Dorronsoro, I. Garcia and C.A.M. van Gestel (2009).** Ambient trace element background concentrations in soils and their use in risk assessment. *Science of the Total Environment*, **407**: 4622-4632. [PDF file](#)
- **Karjalainen, A.-M., J. Kilpi-Koski, A.R. Vaisanen, Sari Penttinen, C.A.M. van Gestel and O.-P. Penttinen (2009).** Ecological risks of an old wood impregnation

mill: Application of the triad approach. *Integrated Environmental Assessment and Management*. **5**: 379-389. [PDF file](#)

- **Kools, S.A.E., M.E.Y. Boivin, A.W.G. van der Wurff, M.P. Berg, C.A.M. van Gestel and N.M. van Straalen (2009)**. Assessment of structure and function in metal polluted grasslands using Terrestrial Model Ecosystems. *Ecotoxicology and Environmental Safety*, **72**: 51-59. [PDF file](#)
- **Kuenen, F.J.A., H. Venema, C.A.M. van Gestel and H.A. Verhoef (2009)**. Extracting soil microarthropods with olive oil: A novel mechanical extraction method for mesofauna from sandy soils. *European Journal of Soil Biology*, **45**: 496-500. [PDF-file](#)
- **León Paumen, M., P. de Voogt, C.A.M. van Gestel and M.H.S. Kraak (2009)**. Comparative chronic toxicity of homo- and heterocyclic aromatic compounds to benthic and terrestrial invertebrates: Generalizations and exceptions. *Science of Total Environment* **407**: 4605-4609. [PDF file](#)
- **Natal-da-luz, T., S. Tidona, C.A.M. van Gestel, P.V. Morais and J.P. Sousa (2009)**. The use of Collembola avoidance tests to characterize sewage sludges as soil amendments. *Chemosphere* **77**: 1526-1533. [PDF file](#)
- **Van Gestel, C.A.M., J.E. Koolhaas, T. Hamers, M. van Hoppe, M. van Rovert, C. Korsman and S.A. Reinecke (2009)**. Effects of metal pollution on earthworm communities in a contaminated floodplain area: Linking biomarker, community and functional responses. *Environmental Pollution* **157**: 895-903. [PDF file](#)
- **Zidar, P., C.A.M. van Gestel and J. Strus (2009)**. Single and joint effects of Zn and Cd on *Porcellio scaber* (Crustacea, Isopoda) exposed to artificially contaminated food. *Ecotoxicology and Environmental Safety* **72**: 2075-2082. [PDF file](#)
  
- **Drobne, D., M. Blazic, C.A.M. van Gestel, V. Lešer, P. Zidar, A. Jemec and P. Trebše (2008)**. Toxicity of imidacloprid to the terrestrial isopod *Porcellio scaber* (Isopoda, Crustacea). *Chemosphere* **71**: 1326-2334. [PDF file](#)
- **Kolar, L., N. Kozuh Erzen, L. Hogerwerf, C.A.M. van Gestel (2008)** Toxicity of abamectin and doramectin to soil invertebrates. *Environ. Pollut.* **151**: 182-189. [PDF file](#)
- **León Paumen, M., E. Borgman, M.H.S. Kraak, C.A.M. van Gestel and W. Admiraal (2008)** Life cycle responses of the midge *Chironomus riparius* to polycyclic aromatic compound exposure. *Environ. Pollut.* **152**: 225-232. [PDF file](#)
- **León Paumen, M., P. Stol, Th.L. ter Laak, M.H.S. Kraak, C.A.M. van Gestel and W. Admiraal (2008)** Chronic exposure of the Oligochaete *Lumbriculus variegatus* to polycyclic aromatic compounds (PACs): Bioavailability and effects on reproduction. *Environ. Sci. Technol.* **42**: 3434-3440. [PDF file](#)
- **Leon Paumen, M., E. Steenbergen, M.H.S. Kraak, N.M. van Straalen and C.A.M. van Gestel (2008)**. Multigeneration exposure of the springtails *Folsomia candida* to Phenanthrene: from dose – response relationships to threshold concentrations. *Environ. Sci. Technol.* **42**: 6985-6990. [PDF file](#)
- **Rozema, J., M.J.M. Notten, R. Aerts, C.A.M. van Gestel, P.H.F. Hobbelen, T.H.M. Hamers (2008)**. Do high levels of diffuse and chronic metal pollution in sediments of Rhine and Meuse floodplains affect structure and functioning of terrestrial ecosystems. *Science of the total environment*, **406**: 443-448. [PDF file](#)
- **D. Suchayo, N.M. van Straalen, A. Krave and C.A.M. van Gestel (2008)** Acute toxicity of pesticides to the tropical freshwater shrimp *Caridina laevis*. *Ecotox. Environ. Saf.* **69**: 421-427. [PDF file](#)

- **Van Gestel, C.A.M. (2008).** Physico-chemical and biological parameters determine metal bioavailability. *Science of the total environment*, **406**: 385-395. [PDF file](#)
- **Van Straalen, N.M. and C.A.M. van Gestel (2008).** A stress ecology framework for comprehensive risk assessment of diffuse pollution. *Science of the total environment*, **406**: 479-483. [PDF file](#)
- **M.I. Zorn, C.A.M. van Gestel, E. Morrien, M. Wagenaar and H. Eijsackers (2008)** Flooding responses of three earthworm species, *Allolobophora chlorotica*, *Aporrectodea caliginosa* and *Lumbricus rubellus*, in a laboratory-controlled environment. *Soil Biol. Biochem.* **40**: 587-593. [PDF file](#)
- **Zorn, M.I., C.A.M. van Gestel, H.J.P. Eijsackers (2008).** Metal redistribution by surface casting of four earthworm species in Sandy and loamy clay soils. *Science of the total environment*, **406**: 396-400. [PDF file](#)
- **J. Baas, B.P.P. van Houte, C.A.M. van Gestel and S.A.L.M. Kooijman (2007)** Modeling the effects of binary mixtures on survival in time. *Environ. Toxicol. Chem.* **26**(6): 1320-1327. [PDF file](#)
- **E.A.J. Bleeker and C.A.M. van Gestel (2007)** Effects of spatial and temporal variation in metal availability on earthworms in floodplain soils of the river Dommel, The Netherlands. *Environ. Pollut.* **148**: 824-832. [PDF file](#)
- **P.H.F. Hobbelen and C.A.M. van Gestel (2007)** Using dynamic energy budget modeling to predict the influence of temperature and food density on the effect of Cu on earthworm mediated litter consumption. *Ecol. Model.* **202**: 373-384. [PDF file](#)
- **T. Jager, T. Crommentuijn, C.A.M. van Gestel, S.A.L.M. Kooijman (2007)** Chronic exposure to chlorpyrifos reveals two modes of action in the sprintail *Folsomia candida*. *Environ. Pollut.* **145**: 452-458. [PDF file](#)
- **S.A.L.M. Kooijman, J. Baas, D. Bontje, M. Broerse, T. Jager, C.A.M. van Gestel and B. van Hattum (2007)** Scaling relationships based on partition coefficients and body sizes have similarities and interactions. *SAR QSAR Environ. Res.* **18**(3-4): 315-330. [PDF file](#)
- **A.J. Löhr, T. de Kort, N.M. van Straalen and C.A.M. van Gestel (2007)** Unraveling the causes of the toxicity of extremely acid waters of volcanic origin. *Environ. Int.* **33**: 743-749. [PDF file](#)
- **T. Moser, J. Römbke, H.-J. Schallnass and C.A.M. van Gestel (2007)** The use of the multivariate Principal Response Curve (PRC) for community level analysis: a case study on the effects of carbendazim on enchytraeids in Terrestrial Model Ecosystems (TME). *Ecotoxicology* **16**: 573-583. [PDF file](#)
- **L.E. Sverdrup, S.B. Hagen, P.H. Krogh and C.A.M. van Gestel (2007)** Benzo(a)pyrene shows low toxicity to three species of terrestrial plants, two soil invertebrates, and soil-nitrifying bacteria. *Ecotoxicol. Environ. Saf.* **66**: 362-368. [PDF file](#)
- **K. Veltman, M.A.J. Huijbregts, M.G. Vijver, W.J.G.M. Peijnenburg, P.H.F. Hobbelen, J.E. Koolhaas, C.A.M. van Gestel, P.C.J. van Vliet and A.J. Hendriks (2007)** Metal accumulation in the earthworm *Lumbricus rubellus*. Model predictions compared to field data. *Environ. Pollut.* **146**: 428-436. [PDF file](#)
- **M.G. Vijver, J.P.M. Vink, C.J.H. Miermans and C.A.M. van Gestel (2007)** Metal accumulation in earthworms inhabiting floodplain soils. *Environ. Pollut.* **148**: 132-140. [PDF file](#)
- **S.T.J. Droge, M. León Paumen, E.A.J. Bleeker, M.H.S. Kraak and C.A.M. van Gestel (2006)** Chronic toxicity of polycyclic aromatic compounds to the springtail *Folsomia candida* and the enchytraeid *Enchytraeus crypticus*. *Environ. Toxicol. Chem.* **25**(9): 2423-2431. [PDF file](#)
- **T. Hamers, J.H.J. van den Berg, C.A.M. van Gestel, F.-J. van Schooten and A.J. Murck (2006)** Risk assessment of metals and organic pollutants for

herbivorous and carnivorous small mammal food chains in a polluted floodplain (Biesbosch, The Netherlands). *Environ. Pollut.* **144**: 581-595. [PDF file](#)

- **P.H.F. Hobbelen, J.E. Koolhaas and C.A.M. van Gestel (2006)** Effects of heavy metals on the litter consumption by the earthworm *Lumbricus rubellus* in field soils. *Pedobiologia* **50**: 51-60. [PDF file](#)
- **P.H.F. Hobbelen, P.J. van den Brink, J.F. Hobbelen and C.A.M. van Gestel (2006)** Effects of heavy metals on the structure and functioning of detritivore communities in a contaminated floodplain area. *Soil Biol. Biochem.* **38**: 1596-1607. [PDF file](#)
- **P.H.F. Hobbelen, J.E. Koolhaas and C.A.M. van Gestel (2006)** Bioaccumulation of heavy metals in the earthworms *Lumbricus rubellus* and *Aporrectodea caliginosa* in relation to total and available metal concentrations in field soils. *Environ. Pollut.* **144**: 639-646. [PDF file](#)
- **C. Klok, M. Zorn, J.E. Koolhaas, H.J.P. Eijsackers and C.A.M. van Gestel (2006)** Does reproductive plasticity in *Lumbricus rubellus* improve the recovery of populations in frequently inundated river floodplains? *Soil Biol. Biochem.* **38**: 611-618. [PDF file](#)
- **L. Kolar, V. Cerkvenik Flajs, J. Kuzner, I. Marc, M. Pogacnik, A. Bidovec, C.A.M. van Gestel and N. Kozuh Erzen (2006)** Time profile of abamectin and doramectin excretion and degradation in sheep faeces. *Environ. Pollut.* **144**: 197-202. [PDF file](#)
- **L. Kolar, T. Tisler, V. Jencic, V. Cerkvenik Flajs, P. Zidar, C.A.M. van Gestel and N. Kozuh Erzen (2006)** Toxicity of avermectins to some aquatic and soil-dwelling organisms. *J. Vet. Pharmacol. Therap.* **29**: 328-329. [PDF file](#)
- **J. Kuzner, L. Kolar, T. Tisler, V. Cerkvenik Flajs, M. Pogacnik, C.A.M. van Gestel and N. Kozuh Erzen (2006)** Partial environmental assessment of two avermectins after single administration to sheep grazing pasture in the karst region. *J. Vet. Pharmacol. Therap.* **29**: 329. [PDF file](#)
- **A.J. Löhr, J. Noordijk, K. Lrianto, C.A.M. van Gestel and N.M. van Straalen (2006)** Leaf decomposition in an extremely acidic river of volcanic origin in Indonesia. *Hydrobiologia* **560**: 51-61. [PDF file](#)
- **A.J. Löhr, R. Sluik, M.M. Olaveson, N. Ivorra, C.A.M. van Gestel and N.M. van Straalen (2006)** Macroinvertebrate and algal communities in an extremely acidic river and the Kawah Ijen crater lake (pH < 0.3), Indonesia. *Arch. Hydrobiol.* **165**: 1-21.
- **M. Rutgers, K. van Gestel, C. Klok, M. Vijver and L. Posthuma (2006)** Het onderzoek en de locaties van het SSEO. *Bodem* **16**: 111-114. (in Dutch)
- **L.E. Sverdrup, R. Linjordet, G. Stømman, S.B. Hagen, C.A.M. van Gestel, Å. Frostegård and R. Sørheim (2006)** Functional and community-level soil microbial responses to zinc addition may depend on test system biocomplexity. *Chemosphere* **65**: 1747-1754. [PDF file](#)
- **K. van Gestel (2006)** Grauwsluiers en biobeschikbaarheid. *Bodem* **16**: 115-116. (in Dutch)
- **K. van Gestel (2006)** Toxicologie nu en in de toekomst: Ecotoxicologie bij de Vrije Universiteit. *TCDD* **2006**(3): 14-15. (in Dutch)
- **M.G. Vijver, C.A.M. van Gestel, N.M. van Straalen, R.P. Lanno and W.J.G.M. Peijnenburg (2006)** Biological significance of metals partitioned to subcellular fractions within earthworms (*Aporrectodea caliginosa*). *Environ. Toxicol. Chem.* **25**: 807-814. [PDF file](#)
- **M.G. Vijver, J.P.M. Vink, T. Jager, N.M. van Straalen, H.Th. Wolterbeek and C.A.M. van Gestel (2006)** Kinetics of Zn and Cd accumulation in the isopod

*Porcellio scaber* exposed to contaminated soil and/or food. *Soil Biol. Biochem.* **38**: 1554-1563. [PDF file](#)

- **E. Yehouenou A. Pazou, M. Lalêyê, M. Boko, C.A.M. van Gestel, H. Ahissou, S. Akpona, B. van Hattum, K. Swart and N.M. van Straalen (2006)** Contamination of fish by organochlorine pesticide residues in the Ouémé River catchment in the Republic of Bénin. *Environ. Int.* **32**: 594-599. [PDF file](#)
- **E. Yehouenou A. Pazou, M. Lalêyê, M. Boko, C.A.M. van Gestel, H. Ahissou, S. Akpona, B. van Hattum, K. Swart and N.M. van Straalen (2006)** Organochlorine and organophosphorous pesticide residues in the Ouémé River catchment in the Republic of Bénin. *Environ. Int.* **32**: 616-623. [PDF file](#)
- **S.A.E. Kools, M. van Roover, C.A.M. van Gestel and N.M. van Straalen (2005)** Glyphosate degradation as a soil health indicator for heavy metal polluted soils. *Soil Biol. Biochem.* **37**: 1303-1307. [PDF file](#)
- **S.A.E. Kools, B. Ferwerda, C.A.M. van Gestel and N.M. van Straalen (2005)** Microbial responses to zinc in soil microcosms with and without a natural assemblage of enchytraeids. *Environ. Toxicol. Chem.* **24**(9): 2178-2184. [PDF file](#)
- **A.J. Löhner, T.A. Bogaard, A. Heikens, M.R. Hendriks, S. Sumarti, M.J. van Bergen, C.A.M. van Gestel, N.M. van Straalen, P.Z. Vroon and B. Widianarko (2005)** Natural pollution caused by the extremely acidic crater lake Kawah Ijen, East Java, Indonesia. *Environ. Sci. Pollut. Res.* **12**: 89-95. [PDF file](#)
- **N.M. van Straalen, M.H. Donker, M.G. Vijver, C.A.M. van Gestel (2005)** Bioavailability of contaminants estimated from uptake rates into soil invertebrates. *Environ. Pollut.* **136**: 409-417. [PDF file](#)
- **M.G. Vijver, H.T. Wolterbeek, J.P.M. Vink, C.A.M. van Gestel (2005)** Surface adsorption of metals onto the earthworm *Lumbricus rubellus* and the isopod *Porcellio scaber* is negligible compared to absorption in the body. *Sci. Total Environ.* **340**: 271-280. [PDF file](#)
- **M.G. Vijver, J.P.M. Vink, T. Jager, H.T. Wolterbeek, N.M. van Straalen, C.A.M. van Gestel (2005)** Biphasic elimination and uptake kinetics of Zn and Cd in the earthworm *Lumbricus rubellus* exposed to contaminated floodplain soil. *Soil Biol. Biochem.* **37**: 1843-1851. [PDF file](#)
- **M.I. Zorn, C.A.M. van Gestel and H. Eijsackers (2005)** The effect of two endogeic earthworm species on zinc distribution and availability in artificial soil columns. *Soil Biol. Biochem.* **37**: 917-925. [PDF file](#)
- **M.I. Zorn, C.A.M. van Gestel and H. Eijsackers (2005)** The effect of *Lumbricus rubellus* and *Lumbricus terrestris* on zinc distribution and availability in artificial soil columns. *Biol. Fertil. Soils* **41**: 212-215. [PDF file](#)
- **M.I. Zorn, C.A.M. van Gestel and H. Eijsackers (2005)** Species-specific earthworm population responses in relation to flooding dynamics in a Dutch floodplain soil. *Pedobiologia* **49**: 189-198. [PDF file](#)
- **M. Bongers, B. Rusch, and C.A.M. van Gestel (2004)** The effect of counterion and percolation on the toxicity of lead for the springtail *Folsomia candida* in soil. *Environ. Toxicol. Chem.* **23**(1): 195-199. [PDF file](#)
- **B. Förster, C.A.M. van Gestel, J.E. Koolhaas, G. Nentwig, J.M.L. Rodrigues, J.P. Sousa, S.E. Jones and T. Knacker (2004)** Ring-testing and field-validation of a terrestrial model ecosystem (TME) - An instrument for testing potentially harmful substances: Effects of carbendazim on organic matter breakdown and soil fauna feeding activity. *Ecotoxicology* **13**: 129-141. [PDF file](#)
- **P.H.F. Hobbelen, J.E. Koolhaas and C.A.M. van Gestel (2004)** Risk assessment of heavy metal pollution for detritivores in floodplain soils in the Biesbosch, the Netherlands, taking bioavailability into account. *Environ. Pollut.* **129**: 409-419. [PDF file](#)

- **T. Jager, T. Crommentuijn, C.A.M. van Gestel and S.A.L.M. Kooijman (2004)** Simultaneous modeling of multiple end points in life-cycle toxicity tests. *Environ. Sci. Technol.* **38**: 2894-2900. [PDF file](#)
- **S.E. Jones, D.J. Williams, P.J. Holliman, N. Taylor, J. Baumann, B. Förster, C.A.M. van Gestel and J.M.L. Rodrigues (2004)** Ring-testing and field-validation of a terrestrial model ecosystem (TME) - An instrument for testing potentially harmful substances: Fate of the model chemical carbendazim. *Ecotoxicology* **13**: 29-42. [PDF file](#)
- **T. Knacker, C.A.M. van Gestel, S.E. Jones, A.M.V.M. Soares, H.-J. Schallnaß, B. Förster and C.A. Edwards (2004)** Ring-testing and field-validation of a terrestrial model ecosystem (TME) - An instrument for testing potentially harmful substances: Conceptual approach and study design. *Ecotoxicology* **13**: 9-27. [PDF file](#)
- **J.E. Koolhaas, C.A.M. van Gestel, J. Römbke, A.M.V.M. Soares and S.E. Jones (2004)** Ring-testing and field-validation of a terrestrial model ecosystem (TME) - An instrument for testing potentially harmful substances: Effects of carbendazim on soil microarthropod communities. *Ecotoxicology* **13**: 75-88. [PDF file](#)
- **A. Korsloot, C.A.M. van Gestel and N.M. van Straalen (2004)** *Environmental Stress and Cellular Response in Arthropods*. CRC Press, London, Boca Raton.
- **T. Moser, C.A.M. van Gestel, S.E. Jones, J.E. Koolhaas, J.M.L. Rodrigues and J. Römbke (2004)** Ring-testing and field-validation of a terrestrial model ecosystem (TME) - An instrument for testing potentially harmful substances: Effects of carbendazim on enchytraeids. *Ecotoxicology* **13**: 89-103. [PDF file](#)
- **T. Moser, H.-J. Schallnaß, S.E. Jones, C.A.M. van Gestel, J.E. Koolhaas, J.M.L. Rodrigues and J. Römbke (2004)** Ring-testing and field-validation of a terrestrial model ecosystem (TME) - An instrument for testing potentially harmful substances: Effects of carbendazim on nematodes. *Ecotoxicology* **13**: 61-74. [PDF file](#)
- **A.J. Reinecke, C.A.M. van Gestel and S.A. Reinecke (2004)** Using biomarkers of soil organisms to determine the bioavailability of chemicals for risk assessment and management. In: *Soil Zoology for Sustainable Development in the 21st Century. A Festschrift in Honour of Prof. Samir Ghabbour on the Occasion of his 70th Birthday* (eds. S.H.S. Hanna and W.Z.A. Mikhaïl), Eigenverlag, Cairo, Egypt, pp. 427-448.
- **J. Römbke, C.A.M. van Gestel, S.E. Jones, J.E. Koolhaas, J.M.L. Rodrigues and T. Moser (2004)** Ring-testing and field-validation of a terrestrial model ecosystem (TME) - An instrument for testing potentially harmful substances: Effects of carbendazim on earthworms. *Ecotoxicology* **13**: 105-118. [PDF file](#)
- **J.J. Scott-Fordsmand, C.A.M. van Gestel and J.M. Weeks (2004)** Third International Workshop on Earthworm Ecotoxicology: Ecological, physiological and physicochemical factors in earthworm ecotoxicology. *Ecotox. Environ. Safe.* **57**: 1-3. [PDF file](#)
- **C.E. Smit, E.M. Stam, N. Baas, R. Hollander and C.A.M. van Gestel (2004)** Effects of dietary zinc exposure on the life history of the parthenogenetic springtail *Folsomia candida* (Collembola: Isotomidae). *Environ. Toxicol. Chem.* **23**(7): 1719-1724. [PDF file](#)
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