



LIST OF PUBLICATIONS (1989 – 2007)

A) Books and Book Chapters

- 1) Weeks, J.M.; Evdokimova, G.; Ernst, W.H.O.; Scott-Fordsmand, J.; **Sousa, J.P.**; Serfeev, V.E. & Nakonieczny, M. (1999) Report of the working group on the strategy for the implementation of a biomarker biomonitoring programme in the Kola Peninsula, Russia in *Biomarkers: A Pragmatic Basis for remediation of Severe Pollution in Eastern Europe*. David B. Peakall, Colin H. Waljer and Pawel Migula (Eds.). NATO Science Series. 2. Environmental Security - Vol. 54. Kluwer Academic Publishers. The Netherlands. pp. 279-298.
- 2) Römbke, J.; Heimbach, F.; Hoy, S.; Kula, C.; Scott-Fordsmand, J.; **Sousa, J.P.**; Stephenson, G. & Weeks, J. (2003) *Effects of Plant Protection Products on Functional Endpoints in Soil (EPFES)*. SETAC Press. Pensacola, USA. 109pp.
- 3) **Sousa, J.P.** (2005). Avaliação retrospectiva do risco ambiental: Esquema de avaliação de risco para solos contaminados. In Abrantes, I. & S. Santos (eds). *Manual Prático para a Gestão Ambiental*. Verlag Dashofer, Lisboa, 8.3. -8.3.1.
- 4) Watt, A.D.; Bradshaw, R.H.W.; Young, J.; Alard, D.; Bolger, T.; Chamberlain, D.; Fernández-González, F.; Fuller, R.; Gurrea, P.; Henle, K.; Johnson, R.; Korsós, Z.; Lavelle, P.; Niemelä, J.; Nowicki, P.; Rebane, M.; Scheidegger, C.; **Sousa, J.P.**; van Swaay, C. & Vanbergen, A. (in press). Trends in biodiversity in Europe and the impact of land use change. In *Biodiversity under Threat* (eds R. Hester & R.M. Harrison). Royal Society of Chemistry.

B) Papers in journals cited in the “Journal of Citation Reports”

- 5) **Sousa, J.P.** & Gama, M.M. da (1994) Rupture in a Collembola community structure from a *Quercus rotundifolia* Lam. forest due to reforestation with *Eucalyptus globulus* Labill.. *European Journal of Soil Biology*. **30(2)**: 71-78.
- 6) **Sousa, J.P.**; Vingada, J.V.; Barrocas, H. & Gama, M.M. da. (1997) Effects of introduced exotic tree species on Collembola communities: the importance of management techniques. *Pedobiologia*. **41**: 166-174.



- 7) Pinto, C.; **Sousa, J.P.**, Graça, M.A. & Gama, M.M. da. (1997) Forest soil Collembola. Do tree introductions make a difference? *Pedobiologia*. **41**: 207-214.
- 8) Gama, M.M. da; **Sousa, J.P.**; Seabra, C. & Barrocas, H. (1997) Endemic and rare Collembola distribution in High Endemism Areas of South-Portugal: A case study. *European Journal of Soil Biology*. **33(3)**: 129-140.
- 9) **Sousa, J.P.**; Vingada, J.V.; Loureiro, S., Gama, M.M. da & Soares, A.M.V.M. (1998) Effects of introduced exotic tree species on growth, consumption and assimilation rates of the soil detritivore *Porcellio dilatatus* (Crustacea: Isopoda). *Applied Soil Ecology*. **9(1-3)**: 399-403.
- 10) Amorim, M.J.; **Sousa, J.P.**; Nogueira, A.J.A. & Soares, A.M.V.M. (1999). Comparison of chronic toxicity of Lindane (γ -HCH) to *Enchytraeus albidus* in two soil types: The influence of soil pH. *Pedobiologia*. **43**: 635-640.
- 11) Ribeiro, S.; Guilhermino, L.; **Sousa, J.P.** & Soares, A.M.V.M. (1999) A Novel Bioassay Based on Acetylcholinesterase and Lactate Dehydrogenase Activities to evaluate the Toxicity of Chemicals to soil Isopods. *Ecotoxicology and Environmental Safety*. **44(3)**: 287-293.
- 12) Gama, M.M. da; **Sousa, J. P.**; Ferreira, C. & Barrocas, H.M. (2000) Analysis of the distribution of endemic and rare arthropods in high endemism areas of Algarve - South Portugal. *Pedobiologia*. **44**: 386-401.
- 13) **Sousa, J.P.**; Loureiro, S.; Pieper, S.; Frost, M.; Kratz, W. Nogueira, A.J.A. & Soares; A.M.V.M. (2000). Soil and plant diet exposure routes and toxicokinetics of lindane in a terrestrial isopod. *Environmental Toxicology and Chemistry*. **19(10)**: 2557-2563.
- 14) Caseiro, I.; Santos, S; **Sousa, J.P.**; Nogueira, A.J.A. & Soares, A.M.V.M. (2000) Optimization of culture conditions of *Porcellio dilatatus* (Crustacea: Isopoda) for laboratory test development. *Ecotoxicology and Environmental Safety*. **47**: 285-291.
- 15) Ribeiro, S.; **Sousa, J.P.**; Nogueira, A.J.A. & Soares, A.M.V.M. (2001) Effect of Endosulfan and Parathion on Energy Reserves and Physiological Parameters of the Terrestrial Isopod *Porcellio dilatatus*. *Ecotoxicology and Environmental Safety*. **49**: 131-138.
- 16) Amorim, M.; **Sousa, J.P.**; Nogueira, A.J.A. & Soares, A.M.V.M. (2002) Bioavailability and toxicokinetics of ^{14}C -Lindane (γ -HCH) in the Enchytraeid *Enchytraeus albidus* in two soil types: the ageing effect. *Archives of Environmental Contamination and Toxicology*. **43**: 221-228.



- 17) Amorim, M.; **Sousa, J.P.**; Nogueira, A.J.A. & Soares, A.M.V.M. (2002) Bioaccumulation and elimination of ¹⁴C-Lindane by *Enchytraeus albidus* in artificial (OECD) and a natural soil. *Chemosphere*. **49**: 323-329.
- 18) Loureiro, S.; **Sousa, J.P.**; Nogueira, A.J.A. & Soares, A.M.V.M. (2002) Assimilation Efficiency and Toxicokinetics of ¹⁴C-Lindane in the Terrestrial Isopod *Porcellionides pruinosus*: the Role of Isopods in Degradation of Persistent Soil Pollutants. *Ecotoxicology*. **11**: 481-490.
- 19) Ponge, J.-F.; Gillet, S.; Dubs, F.; Fedoroff, E.; Haese, L.; **Sousa, J.P.** & Lavelle, P. (2003). Collembolan communities as indicators of land use intensification. *Soil Biology and Biochemistry*. **35**: 813-826.
- 20) Santos, S.; **Sousa, J.P.**; Frost, M. & Soares, A.M.V.M. (2003). Time dependent toxicokinetics of [¹⁴C]Lindane in the terrestrial isopod *Porcellionides pruinosus*. *Environmental Toxicology and Chemistry*. **22**: 2221-2227.
- 21) **Sousa, J.P.**; Rodrigues, J.M.L.; Loureiro, S.; Soares, A.M.V.M.; Jones, S.E.; Forster, B. & Van Gestel, C.A.M. (2004) Ring-Testing and Field-Validation of a Terrestrial Model Ecosystem (TME) - An Instrument for Testing Potentially Harmful Substances: Effects of Carbendazim on Soil Microbial Parameters. *Ecotoxicology*. **13(1-2)**: 43-60.
- 22) Forster, B.; Van Gestel, C.A.M.; Koolhaas, J.E.; Nentwig, G.; Rodrigues, J.M.L.; **Sousa, J.P.**; Jones, S.E. & Knacker, T. (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(1-2)**: 129-141.
- 23) Pardal, M.A.; Cardoso, P.G.; **Sousa, J.P.**; Marques, J.C. & Raffaelli, D. (2004) Assessing environmental quality: a novel approach. *Marine Ecology Progress Series*. **267**: 1-8.
- 24) Natal da Luz, T.; Ribeiro, R. & **Sousa, J.P.** (2004) Avoidance tests with collembola and earthworms as early screening tools for site specific assessment of polluted soils. *Environmental Toxicology and Chemistry*. **23(9)**: 2188-2193.
- 25) **Sousa, J.P.**; Gama, M.M. da; Pinto, C.; Keating, A.; Calhã, C.; Lemos, M.; Castro, C.; Luz, T.; Leitão, P. & Dias, S. (2004) Effects of land-use on Collembola diversity patterns in Mediterranean landscape. *Pedobiologia*. **48(5-6)**: 609-622.



- 26) Engenheiro, E.L.; Hankard, P.K.; **Sousa, J.P.**; Lemos, M.; Weeks, J.M. & Soares, A.M.V.M. (2005) Influence of dimethoate on acetylcholinesterase activity and locomotor function in terrestrial isopods. *Environmental Toxicology and Chemistry*. **24(3)**: 603-609.
- 27) Pereira, R.; **Sousa, J.P.**; Ribeiro, R. & Gonçalves, F. (2006) Microbial indicators in mine soils (S. Domingos Mine, Portugal). *Soil & Sediment Contamination*. **15**: 147-167.
- 28) Ponge, J.-F.; Dubs, F.; Gillet, S.; **Sousa, J.P.** & Lavelle, P. (2006) Decreased biodiversity in soil springtail communities: the importance of dispersal and landuse history in heterogeneous landscapes. *Soil Biology and Biochemistry*. **38(5)**: 1158-1161.
- 29) **Sousa, J.P.**; Bolger, T.; Gama, M.M.; Lukkari, T.; Ponge, J.-F.; Simón, C.; Traser, G.; Vanbergen, A.J.; Brennan, A.; Dubs, F.; Ivitis, E.; Keating, A.; Stofer, S. & Watt, A.D. (2006) Changes in Collembola richness and diversity along a gradient of land-use intensity: a pan European study. *Pedobiologia*. **50**: 147-156.
- 30) Römbke, J.; **Sousa, J.P.**; Schouten, T. & Riepert, F. (2006) Monitoring of soil organisms: a set of standardised field methods proposed by ISO. *European Journal of Soil Biology*. **42**: S61-S64.
- 31) Lopes, I.; Moreira-Santos, M.; Silva, E.M.; **Sousa, J.P.**; Guilhermino, L.; Soares, A.M.V.M. & Ribeiro, R. (2007) In situ assays with tropical cladocerans to evaluate edge-of-field pesticide runoff toxicity. *Chemosphere*. **67**:2250-2256.
- 32) Gonçalves, M.T.; Gonçalves, S.C.; Portugal, A.; Silva, S.; **Sousa, J.P.** & Freitas, H. (2007) Testing the defence hypothesis of nickel hyperaccumulation in *Alyssum pintodasilvae* against a herbivore and a detritivore. *Plant and Soil*. **293**: 177-188.
- 33) Domene, X.; Natal-da-Luz, T.; Alcañiz, J.M.; Andrés, P. & Sousa, J.P. (2007) Feeding Inhibition in the Soil Collembolan *Folsomia candida* as an Endpoint for the Estimation of Organic Waste Ecotoxicity. *Environmental Toxicology and Chemistry*. **26(7)**: 1538-1544.
- 34) Vanbergen, A.J.; Watt, A.D.; Mitchell, R.; Truscott, A.-M.; Palmer, S.C.F.; Ivits, E.; Eggleton, P.; Jones, H. & **Sousa, J.P.** (2007) Scale-specific correlations between habitat heterogeneity and soil fauna diversity along a landscape structure gradient. *Oecologia*. **153**: 713-725
- 35) Diogo, J.B.; Natal-da-Luz, T.; **Sousa, J.P.**; Vogt, C. & Nowak, C. (2007) Tolerance of genetically characterized *Folsomia candida* strains to phenmedipham exposure - a comparison between reproduction and avoidance tests. *Journal of Soils and Sediments*. **7(6)**: 388-392.



- 36) Antunes, S.C.; Pereira, R.; **Sousa, J.P.**; Santos, M.C. & Gonçalves, F. (in press). Spatial and temporal distribution of litter arthropods in different vegetation covers of Porto Santo island (Madeira archipelago, Portugal). *European Journal of Soil Biology*.
- 37) Natal da Luz, T.; Amorim, M.J.; Roembke, J. & **Sousa, J.P.** (in press) Avoidance tests with earthworms and springtails: defining the minimum exposure time to observe a significant response. *Ecotoxicology and Environmental Safety*.
- 38) Natal da Luz, T.; Roembke, J. & **Sousa, J.P.** (in press) Avoidance tests in site specific risk assessment - the influence of soil properties on the avoidance response of collembolans and earthworms. *Environmental Toxicology and Chemistry*.
- 39) Martins da Silva, P.; Aguiar, C.A.S.; Niemela, J.; **Sousa, J.P.** & Serrano, A.R.M. (in press) Diversity patterns of ground-beetles (Coleoptera: Carabidae) along a gradient of land-use intensification: A two-year monitoring study in a Mediterranean landscape. *Agriculture Ecosystems and Environment*.

C) Papers in other journals cited in the “ISI Master Journal List”

- 40) Gama, M.M. da, Vasconcelos, T.M. & **Sousa, J.P.** (1994) Collembola Diversity in Portuguese Autochthonous and Allochthonous Forests. *Acta Zoologica Fennica*. **195**: 44-46.
- 41) Gama, M.M. da; **Sousa, J.P.** & Vasconcelos, T.M. (1994) Comparison of Collembolan Populations from Portuguese Forests of *Quercus rotundifolia* Lam. and *Eucalyptus globulus* Labill.. in *Professor Germano da Fonseca Sacarrão, Arquivos do Museu Bocage*. Lisboa 201-214.
- 42) Gama, M.M. da; **Sousa, J.P.** & Vasconcelos, T.M. (1995) Comparison of Collembolan population structure from Portuguese forests of *Pinus pinaster* Aiton and *Eucalyptus globulus* Labill. *Bulletin Entomologique de Pologne*. **64 (1-2)**: 77-89.
- 43) Gama, M.M. da; **Sousa, J.P.**; Seabra, C. & Barrocas, H.M. (1998) Analysis of Collembolan communities in high endemism areas of Algarve with particular emphasis to endemic or rare species. *Revista de Biologia*. **16(1-4)**: 67-86.
- 44) Deharveng, L.; Dalens, H.; Drugmand D.; Simon-Benito, J.C.; Gama, M.M. da; **Sousa, J.P.**; Gers, C. & Bedos, A. (2000) Endemism mapping and biodiversity conservation in Western Europe: an Arthropod Perspective. *Belgian Journal of Entomology*. **2**: 59-75.



- 45) Gama, M.M. da; **Sousa, J. P.**; Ferreira, C. & Barrocas, H.M. (2000) Endemic and rare Arthropod species in High Endemism Areas (HEA) of Algarve (South Portugal). *Belgian Journal of Entomology*. **2**: 87-98.
- 46) **Sousa, J. P.**; Gama, M.M. da; Ferreira, C. & Barrocas, H.M. (2000) Effect of Eucalyptus plantations on Collembola communities in Portugal: a review. *Belgian Journal of Entomology*. **2**: 187-201.

D) Papers in International peer-reviewed journals

- 47) Barrocas, H.M.; Gama, M.M. da; **Sousa, J. P.** & Ferreira, C. (1998). Impact of reforestation with *Eucalyptus globulus* Labill. on the edaphic collembolan fauna from Serra de Monchique (Algarve). *Miscel.lania Zoologica*. **21(2)**: 9-23.
- 48) Forster, B.; Jones, S.E.; Knacker, T.; Ufer, A.; **Sousa, J.P.** & Gestel, C.A.M.V. (1999) Standardization of a Terrestrial Model ecosystem (TME) for the assessment of the fate and of the effects of chemicals on the soil biocenosis. *Mitteilungen der Deutschen Bodenkundlichen Gesellschaft*. **89**: 229-232.
- 49) Gama, M.M. da; **Sousa, J.P.** e Caldeira, M.F. (2001) Filogenia das espécies Paleárticas do género *Xenylla* Tullberg, 1869 (Insecta: Collembola). *Zapateri Revista Aragonesa de Entomologia*. **9**: 53-58.

E) Papers in National peer-reviewed journals

- 50) Vasconcelos, T.M.; Gama, M.M. da e **Sousa, J.P.** (1994) Estudo Comparativo da Biodiversidade Colembológica em Povoamentos de Pinheiro bravo e Eucalipto. *Silva Lusitana*. **2(2)**: 179-191.
- 51) Seabra, C.; Gama, M. M. da; **Sousa, J. P.** & Vasconcelos, T. M. (1994) Comparative study of the Collembola communities from a *Pinus pinaster* Aiton forest and a *Eucalyptus globulos* Labill plantation. *Ciência Biológica, Ecology and Systematics*. **14(1-2)**: 19-34.
- 52) **Sousa, J.P.**; Gama, M.M. da & Ferreira, C.S. (2003) Effects of replacing oak-woods by eucalyptus on edaphic Collembola communities: does the size and type of plantation matter? *Acta Entomológica Ibérica e Macaronésica*. **1**: 1-10.



- 53) Gama, M.M. da; **Sousa, J.P.**; Vasconcelos, T.M.; Ferreira, C.S. & Barrocas, H. (2003) Changes in biodiversity patterns of soil Collembola caused by eucalyptus plantations in Portugal: a synthesis. *Acta Entomológica Ibérica e Macaronésica*. 1: 11-22.

F) Papers in Conference Proceedings

- 54) Costa, M.; Vasconcelos, C.; **Sousa, J.P.**; Natal-da-Luz, T.; Cunha, M.; Fernandes, A.; Leandro, E. & Russo, M. (2004) Avaliação da Ecotoxicidade dos Compostos de Lamas de ETAR de Efluentes Têxteis Utilizando Ensaio de Avoidance. *XI Encontro Nacional de Saneamento Básico*. De 12 a 15 de Outubro de 2004, Faro, Portugal.
- 55) Natal-da-Luz, T.; Torres, A.; Costa, M.; Russo, M. & **Sousa, J.P.** (2005) Ecotoxicidade dos biosólidos provenientes das ETARs de efluentes têxteis e dos seus compostados. *V Congresso Ibérico de Ciências Hortícolas, IV Congresso Iberoamericano de Ciências Hortícolas*. De 22 a 27 de Maio de 2005, Porto, Portugal.
- 56) Natal-da-Luz, T.; Torres, A.; Vasconcelos, C.; Costa, M.A.; Fernandes, A.; Tavares, L.; Russo, M. & **Sousa, J.P.** (2006) Valorização Agrícola de Lamas de ETAR de Tratamento de Efluentes Têxteis: Avaliação do Impacto Ecotoxicológico. *XII Simpósio Luso-Brasileiro de Engenharia Sanitária e Ambiental*. De 13 a 17 de Março de 2006, Figueira da Foz, Portugal.
- 57) Jesus, B.; Branco, R.; Natal da Luz, T.; **Sousa, J.P.** & Morais, P.V. (2006) Effect of activated sludge addition on the microbial activity of soil. *9th International Symposium on Metal Ions in Biology and Medicine*. De 21 a 24 de Maio de 2006. Lisboa, Portugal.