

BIBLIOGRAFIA

Abbott, W.S. A method of computing the effectiveness of an insecticide. *Journal of Economic Entomology* 1925, 18: 265-267.

Albidens J. & Tommerson B.A., 2000. Impacts of experimental habitat fragmentation and livestock-grazing on animal communities in remnants of gimlet *Eucalyptus salubris* woodland in the Western Australian wheatbelt. I. Arthropods. *Journal of Applied Ecology* 33: 1281-1303.

Alford, J., Miller, P.H.C., Goulson, D. & Holland, J.M., 1998. Predicting susceptibility of non-target species to different insecticide application in winter wheat. In 1998 Brighton Crop Protection Conference - Pests & Diseases, pp.599-606.

Allen, R.T.(1979) The occurrence and importance of ground beetles in agricultural and surrounding habitats. In T.L. Erwin, G.E. Bell and D.R. Whitehead (eds) *Carabid Beetles: Their Evolution, Natural History and Classification*, pp. 485-506.

Altieri M.A., Letourneau D.K., 1984. Vegetation diversity and insect pest outbreaks. *CRC Critical Reviews in Plant Sciences* 2:131-169.

Altieri, M.A. 1987. *Agroecology: the scientific basis of alternative agriculture*. Westview Press, Boulder, CO.

Altieri, M.A.; Nicholls, C.I.; Ponti, L., 2003. Biodiversità e controllo dei fitofagi negli agroecosistemi, *Accademia Nazionale Italiana di Entomologia Ed.: Firenze, Italy, 2003; 223 pp.*

Ammer, U., Utschick, H., Anton, H., 1988. Die Auswirkungen von biologischem und konventionellem Landbau auf Flora und Fauna. *Forstwissenschaftliches Centralblatt* 107, 274–291.

Andersen A. N., 1999. My bioindicator or yours? Making the selection. *Journal of Insect Conservation*. 3: 61-64.

Andow D.A., 1983 Effect of agricultural diversity on insect populations. In: *Environmentally sound agriculture*, Lockeretz W. Ed., Praeger, New York., pp. 91-115

Andow D.A., 1991. A vegetational diversity and arthropod population response. *Annual Review of Entomology* 36:561-586.

Antonucci Carlo, 2007. Le Comunità dei Coleotteri Carabidi nell'agroecosistema oliveto. Tesi di Laurea in Scienze Naturali- Relatore -Pietro Brandmayr- Dip. Di Ecologia Sez. di Zoologia e Zoocenosi- A.A. 2006-2007.

Arambourg Y., 1986. *Traité d'entomologie oleicole*. Conseil Oleicole International, Madrid, 1-360.

Armstrong, G., 1995. Carabid beetle (Coleoptera: Carabidae) diversity and abundance in organic potatoes and conventionally grown seed potatoes in the north of Scotland. *Pedobiologia* 39, 231–237.

Asteraki, E.J. 1993. The potential of Carabid beetles to control slugs in grass/clover sward s. *Entomophaga* 38, 193-198.

Baccetti B., 2005. Biodiversità degli insetti e sostenibilità ambientale. *Atti XX Congresso Nazionale Italiano di Entomologia Assisi (PG)13-18 Giugno: 3-7.*

Bagnoli B., 2000. Indagini sull'impatto di dispositivi per la cattura massale di adulti di *Bactrocera oleae* sull'entomofauna utile dell'oliveto. *Prog. Reg. A.R.S.I.A. Firenze.*

Baker A.N. & Dunning, R.A.,1975. Some effects of soil type and crop density on the activity and abundance of the epigeic fauna, particularly Carabidae, in sugar beet fields. *Journal of Applied Ecology* 12, 809-18.

Basedow, TH., Borg, A., DE Clercq, R., Nijveltd, W., Scherney, F., 1976. Untersuchungen über das Vorkommen der Laufkäfer (Col.;Carabidae) auf europäischen Getreidefeldern. *Entomophaga* 21 (1), 59-72.

Beccolini G.W. & Gaston K.J. 1995. Predicting species richness of neotropical forest butterflies - itomiinae (Lepidoptera, Nymphalidae) as indicators. *Biological Conservation* 71: 77-86.

Belcari A. Dagnino A. , 1995. Preliminary analysis of the insects caught by a Malaise trap in an olive grove in northern Tuscany. *Agricoltura Mediterranea* 125:184-192.

Belfiore T., Brandmayr P., Scalercio S., Condello L. & Iannotta N., 2005. Diversità ed entità dell'entomocenosi in oliveto trattato e naturale. Riassunti del VI Convegno Nazionale sulla Biodiversità, L'Agrobiodiversità per la qualificazione delle filiere produttive, Catania 30 marzo-2 aprile 2005: 59.

Belfiore T., Brandmayr P., Scalercio S., Condello L. e Iannotta N., 2006. Diversità ed entità dell'entomocenosi in oliveto trattato e naturale. *Italus Hortus*, 13 (2): 173-176.

Bertrandi F.& T. Zetto Brandmayr T., 1991. Osservazioni sulla dieta e cenni sulla bionomia del genere *Harpalus* Latreille. (Coleoptera Carabidae). *Ber.Nat.Med. Verien Innsbruck*, 78: 145-155.

Blake S., Foster G.N., Fischer G.E.J., & Ligertwood G.L. 1996. Effects of management practices on the ground beetles faunas of newly established wildflower meadows in southern Scotland. *Annales Zoologici Fennici* 33: 139-147.

Bohac, J. Staphylinid beetles as bioindicators. *Agriculture, Ecosystems and Environment* **1999**, 74, 357-372.

Booij, C.J.H., Noorlander, J., 1992. Farming systems and insect predators. *Agric. Ecosyst. Environ.* 40, 125-135.

Brandmayr P., 1982 . Entomocenosi come indicatori delle modificazioni antropiche del paesaggio e pianificazione del territorio : esempi basati sullo studio di popolamenti a Coleotteri Carabidi .Relaz. Simp. "Entomologia e qualità dell'ambiente". Atti XII Congr. Naz. ital.entomol., Roma, 1980: 263-283.

Brandmayr P., 1983 – The main axes of the coenoclineal continuum for macroptery to brachyptery in Carabid communities of the temperate zone. *Report 4th Symp. Carab.* 81: 147-169.

Brandmayr P.,1983. Entomocenosi come indicatori delle modificazioni antropiche del paesaggio e pianificazione del territorio: esempi basati sullo studio di popolamenti a Coleotteri Carabidi . Relazione simp. "Entomologia e qualità dell'ambiente ".Atti 126 Congr. naz. ital. entomol., Roma 1980: 263-283.

Brandmayr P. Colombetta G., 1981. Criteri possibili per una valutazione quantitativa del carattere primario e della capacità di ricostruzione spontanea di popolamenti indicatori a Coleotteri Geoadefagi del Carso Triestino. Atti I Convegno di Entomologia dei Territori Carsici: 183-188.

Brandmayr P. and Brunello Zanitti C., 1982. Le comunità a Coleotteri Carabidi di alcuni Quercocarpineti della bassa pianura del Friuli. Quaderni sulla "Struttura delle Zoocenosi Terrestri". 4. I boschi della Pianura Padano-Veneta: 69-124.

Brandmayr P., Pizzolotto R., 1994. I Coleotteri Carabidi come indicatori delle condizioni dell'ambiente ai fini della conservazione. Atti XVII Cong. Naz. Ital. di Entomologia, Udine 13-18 Giugno 1994:439-444.

Brandmayr P., Bonacci T., Gangale C., Gatti L., Gatti G. & Scalercio S., 1999. Il Progetto Flora: metodi e primi risultati del censimento della biodiversità floristica ed entomofaunistica di un uliveto a conduzione biologica naturale del promontorio di Copanello. Atti del Seminario "Metodi e Sistemi Innovativi dell'Olivicoltura Biologica e Sostenibile: Stato della Ricerca e della Sperimentazione", Rende, 14-16 aprile 1999: 103-105.

Brandmayr, P.; Zetto, T.; Pizzolotto, R. I Coleotteri Carabidi per la valutazione ambientale e la conservazione della biodiversità, APAT, Manuali e Linee Guida, 34; I.G.E.R. srl: Roma, Italy, 2005; 240 pp.

- Bridgham S.D. 1998. Chronic effects of 2,2'-dichlorobiphenyl on reproduction, mortality, growth and respiration of *Daphia pulex*. Archives of Environmental Contamination and Toxicology 17: 731-740.
- Briggs (1965). Biology of some ground beetles (Coleoptera, Carabidae) injurious to strawberries. Bulletin of Entomological Research 56: 79-93.
- Brown Jr. K. S., 1997. Diversity, disturbance and sustainable use of Neotropical forest: insect as indicators for conservation monitoring. Journal of Insect Conservation. 1: 25-42.
- Brown Jr. K. S., Lawton J. H., Shires S.W., 1983. Effects of insecticides on invertebrate predator and their cereal aphid (Hemiptera: Aphididae) prey: laboratory experiments. Environmental Entomology 12: 1747-50.
- Büchs W., 2003. Biotic indicators for biodiversity and sustainable agriculture, - introduction and background. Agriculture Ecosystems and Environment 98: 1-16
- Büchs W., Harenberg, A. & Zimmermann, J., 1997. The invertebrate ecology of farmland as a mirror of the intensity of the impact of man? - an approach to interpreting results of field experiments carried out in different crop management intensities of a sugar beet and an oil seed rape rotation including set-aside. Biological Agriculture and Horticulture 15, 83-108.
- Burn A.J., 1989. Long term effects of pesticides on natural enemies of cereal crop pest. Pesticides and Non-Target Invertebrates (P.C. Jepson Ed.), pp. 117-193. Intercept Ltd., Wimborne, UK.
- Chiverton, P.A. 1988. Searching behaviour and cereal aphids consumption by *Bembidion lampros* and *Pterostichus cupreus*, in relation to temperature and prey density. Entomol. Exp. Appl. 47, 173-182.
- Cilgi T., and Jepson P.C., 1992. The use of tracers to estimate the exposure of beneficial insects to direct pesticide spraying in cereals. Annals of Applied Biology 121: 239-247.
- Cirio U., 1997. Productos agroquímicos e impacto ambiental en olivicultura. Olivae, 65: 32-39.
- Clark, M.S., Luna, J.M., Stone, N.D., Yongman, R.R. 1994. Generalist predator consumption of armyworm (Lepidoptera: Noctuidae) and effect of predator removal on damage in no-till corn. Environ. Entomol. 23, 617-622.
- Clarke, K.R. & Warwick, R.M., 2001. Change in marine communities: an approach to statistical analysis and interpretation, 2nd edition. PRIMER-E Plymouth, UK, 172 pp.
- Collins N.M., Thomas J.A. 1991. The conservation of insects and their habitats. Academic Press Limited. The Royal Entomological Society of London. London: 450pp.
- Crovetti A., Belcari A., Raspi A., 1996. La difesa fitosanitaria. Sviluppo di metodologie e salvaguardia della produzione e dell'ambiente. Enciclopedia Mondiale dell'Olivio. Consiglio oleico internazionale. Madrid. Spagna. 225-230.
- Croy P., (1987) Faunistisch-ökologische untersuchungen der carabiden im emfeld eines industriellen balungsgebietes. Entomologische Nachrichten und Berichte 31: 1-9.
- Davies K.F. & Margules C.R. 1998. Effects of habitat fragmentation on carabid beetles: experimental evidence. Journal of animal Ecology 67: 460-471.
- DE Clercq R. & Pietrazko R. 1983. Epigeal arthropods in relation to predation of cereal aphids. In R. Cavallo (ed) Aphid Antagonist, pp. 88-92. Rotterdam: Balkema.
- Delri G., Lentini A., Satta A., 2002. protezione integrata e impegno di *Bacillus thuringiensis* in olivicultura. Atti convegno su "la difesa dai fitofagi in condizioni di olivicultura biologica" Spoleto 29-30 ottobre 2002, 5-22.
- Delrio G., 1993. Difesa dell'olivo dai parassiti animali. Atti convegno su "Tecniche, norme e qualità in olivicultura" Potenza, 15-17 Dicembre 1993, 391-418.
- Den Boer P.J., Den Boer -Daanje W., 1990. On life-history tactics in carabid beetles: are there only spring and autumn breeders? In: Stork, N.E. (Ed.), The role of Ground Beetles in Ecological and Environmental Studies, Intercept, Andover, pp. 247-258.

Desender K., Dufrene M. and Maelfait J.P. 1994b. Carabid Beetles. Ecology and Evolution. Kluwer Academic Publishers, Dordrecht, the Netherlands.

Downie, I.S.; Wilson, W.L.; Abernethy, V.J.; McCracken, D.I.; Foster, G.N.; Ribera, I.; Murphy, K.J.; Waterhouse, A. The impact of different agricultural land-uses on epigeal spider diversity in Scotland. *Journal of Insect Conservation* 1999, 3, 273-286.

Dritschilo, W., Erwin, T.L., 1982. Responses in abundance and diversity of cornfield carabid communities to differences in farm practices. *Ecology* 63, 900-904.

Dritschilo, W., Wanner, D., 1980. Ground beetle abundance in organic and conventional corn fields. *Environ. Entomol.* 9, 629-631.

Duelli P., Obrist M. 1998. In search of the best correlates for local organismal biodiversity in cultivated areas. *Biodiversity and Conservation* 7:297-309.

Duelli P., Obrist M.K., Schmatz D. R., 1999. Biodiversity evaluation in agricultural landscapes: above-ground insect. *Agriculture, Ecosystems and Environment* 74:33-64.

Dufrene M. & Legendre P. 1997. Species assemblages and indicator species: the need for a flexible asymmetrical approach. *Ecological Monographs* 67:345-366.

Edwards, C.A., Sunderland, K.D. & GEORGE, K.S.(1979) Studies of polyphagous predators of cereal aphids. *Journal of Applied Ecology* 16,811-23.

Edwards, C.A., George K.S., 1977. Carabids & cereal aphids, Report Rothamsted Experimental Station for 1976, p.131

Epstein D. L., Zack R. S., Brunner J. F., Gut L. and Brown J. J., 2001. Ground Beetle Activity in Apple Orchards under Reduced Pesticide Management Regimes. *Biological Control* 2001, 21 (2), 97-104.

Eyre M., Lott D.A. & Garside A. 1996. Assessing the potential for environmental monitoring using ground beetles (Coleoptera:Carabidae) with riverside & Scottish data. *Annales Zoologici Fennici* 33: 157-163.

Eyre M.D. & Luff M.L. 1990. A preliminary classification of European grassland habitats using carabid beetles. In: Stork N.E. (ed.), *The role of Ground beetles in Ecological & Environmental Studies*. Intercept, Oxford, UK, pp. 227-236.

F. Talarico, A. Giglio, A. Mazzei, M.G. Novello, M.Romeo, T.Zetto & P. Brandmayr (2005). Studio della variabilità morfometrica di popolazioni di Carabidi in Oliveti.

Fald, A. & Purvis, G. (1998) Field observations on the lifecycles & seasonal activity patterns of temperate carabid beetles (Coleoptera:Carabidae) inhabiting arable land. *Pedobiologia* 42,171-83.

Ferrari C., 2001. Biodiversità, dall'analisi alla gestione. Ed Zanichelli, Bologna.

Finch S., Elliot, M.S. 1994. Predation of cabbage root fly eggs by carabidae.

Finch S., Skinner, G., 1988. Mortality of the immature stages of the cabbage root fly. In: Cavalloro, R., Pelereys, C. (Ed), *Progress on Pest Management in field vegetables*, AA Balkema, Rotterdam, pp.45-48.

Flint M.A., Roberts P.A., 1988. Using crop diversity to manage pest problems: some California examples. *American Journal of Alternative Agriculture* 3:164-167.

Floate K.D., Elliot R. H., Doane J.F., Gillot C., 1989. Field bioassay to evaluate contact and residual toxicities of insecticides to carabid beetles (Coleoptera: Carabidae). *Journal of Economic Entomology* 82: 1543-7.

- Floate M.D., Luff L.M., Gillot C., 1990. Carabid predator of the Wheat midged (Diptera: Cetomyiidae) in Saskatchewan. *Environmental Entomology*, 19, 1503-1511.
- Fontaneto D., Guidali F. Biodiversità e struttura delle comunità di Coleotteri Carabidi in un ecosistema agrario, *Bollettino di Zoologia agraria e Bachicoltura*, 2001, Ser. II, 33, 53-62.
- Froese, A., 1991. Untersuchungen über Carabiden auf unterschiedlich bewirtschafteten Ackerflächen unter Berücksichtigung des Feldrandaspekts (Coleoptera; Carabidae). *Entomol. Z.* 101, 213–232.
- Gadner S.M. 1991. Ground beetles (Coleoptera: Carabidae) communities on upl& heath & their association with heath-l& flora. *Journal of Biogeography* 18, 281-9.
- Ghetti, P. F., 1997. Manuale di applicazione dell'indice Biotico Esteso (I.B.E.): i macroinvertebrati nel controllo della qualità degli ambienti di acque correnti. Provincia autonoma di Trento - Agenzia Provinciale per la Protezione dell'ambiente.
- Gliessman S.R., 1999. *Agroecology: ecological processes in agriculture*. Ann Arbor Press, Michigan.
- Gobbi m., Fontaneto D., Guidali F. Biodiversità degli artropodi terrestri in prati a differente conduzione agricola nel Parco Regionale Adda Suud (Lombardia), Atti XIX Congresso nazionale italiano di entomologia, Catania 10-15 giugno 2002, 261-266.
- Gruttker, H. & Weigmann, G. (1990) Ecological studies on the carabid fauna (Coleoptera) of a ruderal ecosystem in Berlin. In N.E. Stork (ed) *The role of ground Beetles in Ecological & Environmental Studies*, pp.181-9. &over: Intercept.
- Gyldenkaerne S., Ravn H. P., Halling-Sørensen B., 2000. The effect of dimethoate and cypermethrin on soil-dwelling beetles under semi-field conditions. *Chemosphere* 41 (2000) 1045-1057
- Heim G. Effect of insecticidal sprays on predators and indifferent arthropods found in olive trees on the north of Lebanon. In *Integrated Pest Control in Olive Grove*; Cavalloro, R.; Crovetto, A., Eds.; Proceedings CEC & FAO.IOBC, International Joint Meeting, Pisa 3-6 April 1984, Rotterdam/Commission of the European Communities (CEC), 1985; 456–465.
- Helenius, J., 1990a. Conventional and organic cropping systems at Suitia VI: Insect populations in barley. *J. Agric. Sci. Finland* 62, 349–355.
- Helme E. & Niemela J. 1993. Carabid beetles in fragment of coniferous . *Annales Zoologici Fennici* 30: 17-30.
- Hengeveld, R. 1979. The analysis of spatial patterns of some ground beetles (Col.Carabidae). In R.M. Cormack and J.K. Ord (eds) *Spatial and Temporal Analysis in Ecology*, pp. 333-46. Fairland: International Co-operative Publishing House.
- Hengeveld, R., 1980. Qualitative and Quantitative aspects of the food of ground beetles (Coleoptera:Carabidae) a review. *Netherlands Journal of Zoology* 30, 555-63.
- Hengeveld, R., 1980b. Polyphagy, oligophagy and food specialization in ground beetles (Col., Car). *Neth. J. Zool.* 30 (4), 564–584.
- Hokkanen, H., Holopainen, J.K., 1986. Carabid species and activity densities in biologically and conventionally managed cabbage fields. *J. Appl. Entomol.* 102, 353–363.
- Holland J.M., & Luff M.L. 2000. The effects of agricultural practices on Carabidae in temperate agroecosystems. *Integrated Pest Management Reviews* 5: 109-129.
- Holland, J.M., Perry, J.N. & Winder, L., 1999. The within-field spatial and temporal distribution of arthropods in winter wheat. *Bulletin of Entomological Research* 89, 499-513.

Holopainen J.K., Bergman T. Hautala E. - L. & Oksanen, J., 1995. The ground beetle fauna (Coleoptera: Carabidae) in relation to soil properties and foliar fluoride content in spring cereals. *Pedobiologia* 39, 193-206.

Iannotta, N., 2003. La difesa fitosanitaria. In *Olea, trattato di olivicoltura*; Fiorino, P., Ed.; Edagricole: Bologna, Italy, 2003; 393-410.

Iannotta N., Belfiore T., Brandmayr P., Condello L. & Scalercio S., 2005a: “*Effetti di trattamenti contro Bactrocera oleae (Gmel.) sull’entomocenosi dell’ecosistema oliveto*”. Proceedings XX Congresso Nazionale Italiano di Entomologia. Perugia – Assisi 13-18 Giugno 2005: 240

Iannotta N., Belfiore T., Brandmayr P., Scalercio S., 2005b: “Treatment effects against the *Bactrocera oleae* (Gmel.) on the entomofauna of olive eco-system.”. Abstract 2nd European Meeting of the IOBC/ WPRS Study Group “Integrated Protection of Olive Crops” Polo Scientifico of Sesto Fiorentino, IOBC/ WPRS Bulletins Florence, Italy, October 26-28 2005: 38.

Iannotta N., Belfiore T., Perri E., Perri L., 2005c: “Efficacy of a integrated protection system against *Bactrocera oleae* (Gmelin) in organic production” Abstract 2nd European Meeting of the IOBC/ WPRS Study Group “Integrated Protection of Olive Crops”. Polo Scientifico of Sesto Fiorentino, IOBC/ WPRS Bulletins Florence, Italy, October 26-28 2005: 38.

Iannotta N., Belfiore T., Brandmayr P., Noce M.E. e Scalercio S., 2006 a. Impatto sull’ecosistema oliveto di alcuni fitofarmaci «biologici». *L’informatore agrario*, 44: 65-68.

Iannotta N., Belfiore T., Noce M. E., Perri L. & Scalercio S., 2006b. Effetti del trappolaggio massale sull’entomocenosi dell’ecosistema oliveto nel controllo di *Bactrocera oleae* (Gmel.). XVII Convegno del Gruppo per l’Ecologia di Base “G. Gadio”, Riassunti delle Comunicazioni, Cetraro (CS) 6-8 maggio 2006: 64.

Belfiore T., Brandmayr P., Scalercio S., Condello L. & Iannotta N., 2006c. Diversità ed entità dell’entomocenosi in oliveto trattato e naturale. – *Italus Hortus*, 13 (2): 173-176.

Iannotta N., Belfiore T., Noce M. E., Perri L., Scalercio S., 2006d. Effetti del trappolaggio massale sull’entomocenosi dell’ecosistema oliveto nel controllo di *Bactrocera oleae* (Gmel.). *Acta Biol.*, 83: 83-84.

Iannotta N., Belfiore T., Noce M.E., Perri L. & Scalercio S., 2006e. Efficacy of products allowed in organic olive farming against *Bactrocera oleae* (Gmel.). – Proceedings of the Second International Seminar on "Biotechnology and Quality of Olive tree Products around the Mediterranean basin", Olivebioteq, Marsala-Mazara del Vallo 5-10 November 2006, Vol. II: 323-326.

Iannotta N., Perri E., Scalercio S., Belfiore T., Noce M. E., Vizzarri V., Perri L., Rizzati B., Pellegrino M., 2006f. Ricerche per l’ introduzione di innovazioni nella filiera olivicola nelle regioni meridionali. Innovazioni nella difesa fitosanitaria in olivicoltura. Atti del Workshop-Convegno Progetto “Ricerca ed Innovazione per l’Olivicoltura Meridionale (RIOM)”, CRA – Istituto Sperimentale per l’Olivicoltura, Rende (CS), 01 dicembre 2006: 185-189.

Iannotta N., Belfiore T., Brandmayr P. & Scalercio S., 2007a. The effects of treatments against *Bactrocera oleae* (Gmelin) on the entomofauna of the olive ecosystem. – *IOBC/WPRS Bulletin*, 30 (9), 2007: pp. 169-172.

Iannotta, N.; Belfiore, T.; Brandmayr, P.; Noce, M.E.; Scalercio, S. 2007b. Evaluation of the impact on entomocenosis of active agents allowed in organic olive farming against *Bactrocera oleae* (Gmelin, 1790). *Journal of Environmental Science and Health, Part B*, 42, 783-788.

Iannotta N., Belfiore T., Brandmayr P., Noce M.E. & Scalercio S., 2007c. Impatto di trattamenti contro *Bactrocera oleae* (Gmel.) sull’artropodofauna camminatrice dell’ecosistema oliveto ed influenza del suolo inerbito sulla relativa resilienza. Riassunti dei lavori VIII giornate scientifiche SOI, Sassari, 8-12 maggio 2007:143.

Iannotta N., Belfiore T., Bruno P., Noce M.E., Scalercio S. & Vizzarri V., 2007d. Impatto di prodotti ad azione antibatterica (rame e propoli) sull'artropodofauna epigea nella lotta a *Bactrocera oleae* (Gmel.) (Diptera Tephritidae). – Proceedings del XXI Congresso Nazionale Italiano di Entomologia, Campobasso 11-16 giugno 2007: 96.

Iannotta N., Belfiore T., Noce M.E., Scalercio S. & Vizzarri V., 2007e. Ecosistema e interventi contro la mosca. – L'Informatore Agrario, 25/2007: 59-60.

Iannotta N., Belfiore T., Noce M.E., Scalercio S. & Vizzarri V., 2007f. Impatto di trattamenti contro *Bactrocera oleae* (Gmel.) sulla artropodofauna camminatrice dell'ecosistema oliveto ed influenza del suolo inerbito sulla relativa resilienza. – Italus Hortus, 14 (2), supplemento: 143.

Iannotta N., Belfiore T., Noce M.E., Scalercio S. & Vizzarri V., 2007g. Insetticidi ammessi in biologico, effetti nell'ecosistema oliveto. – L'Informatore Agrario, 33: 47-50.

Iannotta N., Belfiore T., Noce M.E., Scalercio S. & Vizzarri V., 2007h. La biodiversità nell'oliveto: il turnover dei lepidotteri in diversi paesaggi agrari (Insecta: Lepidoptera). – Proceedings del XXI Congresso Nazionale Italiano di Entomologia, Campobasso 11-16 giugno 2007: 70.

Iannotta N., Belfiore T., Noce M.E., Scalercio S. & Vizzarri V., 2007i. Olivo: la difesa dalla mosca in biologico. – L'Informatore Agrario, 25/2007: 55-59.

Iannotta N., Belfiore T., Noce M.E., Scalercio S., Vizzarri V., 2007(l). Assessment of environmental impact associated to rotenone use, allowed in organic farming, by non-target Lepidoptera monitoring. In: Del Re A.A.M., Capri E., Fragoulis G. & Trevisan (eds.), Environmental Fate and Ecological Effects of Pesticides, La Goliardica Pavese, Pavia, pp. 299-307.

Iannotta N., Belfiore T., Noce M.E., Scalercio S., Vizzarri V., 2007m. Efficacy of new mass-trapping devices against *Bactrocera oleae* (Diptera Tephritidae) for minimising pesticide input in agroecosystems. Book of Abstract, 5th MGPR Symposium 2007, 21-24 November, Agadir Morocco: 119.

Iannotta N., Belfiore T., Noce M.E., Scalercio S., Vizzarri V., 2007n. Environmental impact of kaolin treatments on the arthropod fauna of the olive ecosystem. In: Del Re A.A.M., Capri E., Fragoulis G. & Trevisan (eds.), Environmental Fate and Ecological Effects of Pesticides, La Goliardica Pavese, Pavia, pp. 291-298.

Iannotta N., Belfiore T., Noce M.E., Scalercio S., Vizzarri V., 2007(o). The impact of compounds allowed in organic farming on the epigeic arthropod fauna of the olive ecosystem. Book of Abstract, 5th MGPR Symposium 2007, 21-24 November, Agadir Morocco: 47.

Iannotta N., Belfiore T., Noce M.E., Scalercio S., Vizzarri V., 2007p. The impact of some compounds utilised in organic olive groves on the non-target arthropod fauna: canopy and soil levels. – Ecoliva 2007, VI Jornadas Internacionales de Olivar Ecologico, Puente de Génave (Jaén), España, 22-25 marzo 2007. Available at: http://www.ecoliva.info/index.php?option=com_content&task=blogcategory&id=17&Itemid=38

Iannotta N., Belfiore T., Noce M.E., Scalercio S., Vizzarri V., 2007q. *Bactrocera oleae* (Gmelin) control in organic farming. Ecoliva 2007, VI Jornadas Internacionales de Olivar Ecologico, Puente de Génave (Jaén), España, 22-25 marzo 2007. Available at: http://www.ecoliva.info/index.php?option=com_content&task=blogcategory&id=17&Itemid=38

Iannotta N., Belfiore T., Perri E., Perri L., Ripa L., 2007r. Integrated protection system against *Bactrocera oleae*(Gmelin) in organic production– IOBC/WPRS Bulletin, 30 (9), 2007: pp. 291-295.

Iannotta N., Perri E., Scalercio S., Belfiore T., Noce M. E., Vizzarri V., Perri L., Rizzati B., Pellegrino M., 2007r. Ricerche per l'introduzione di innovazioni nella filiera olivicola nelle regioni meridionali. Innovazioni nella difesa fitosanitaria in olivicoltura. Atti del Workshop-Convegno Progetto "Ricerca ed Innovazione per l'Olivicoltura Meridionale (RIOM)", CRA – Istituto Sperimentale per l'Olivicoltura, Rende (CS), 01 dicembre 2006: 185-189.

Iannotta N., Belfiore T., Bozzo G., Noce M. E., Perri L., Scalercio S., Vizzarri V., 2008a. La lotta a *Bactrocera oleae* (Gmelin, 1790) in olivicoltura biologica. – Atti Convegno COM.SI.OL “Competitività del Sistema Olivo in Italia” 7 marzo 2008: 97-102.

Iannotta N., Belfiore T., Brandmayr P., Mazzei A., Noce M.E., Scalercio S. & Vizzarri V., 2008b. Risposta delle comunità a coleotteri carabidi dell'oliveto ai sistemi di conduzione biologica e convenzionale. Convegno del Gruppo per l'Ecologia di Base “G. Gadio”, Riassunti delle Comunicazioni, Alessandria, 9-11 maggio 2008: 57.

Iannotta N., Belfiore T., Ciliberti A., Madeo A., Noce M. E., Scalercio S., Vizzarri V., 2008c. Applicazione della tecnica endoterapica come cura alla verticillosi dell'olivo (*Verticillium dahliae* Kleb.). – Atti Convegno COM.SI.OL “Competitività del Sistema Olivo in Italia” 7 marzo 2008: 103-110.

Iannotta N., Belfiore T., Noce M. E., Pellegrino M., Perri E., Romano E., Scalercio S., Vizzarri V., 2008d. Influenza di trattamenti con nuove sostanze attive contro *Bactrocera oleae* (Gmelin, 1790) sulla qualità dell'olio. – Atti Convegno COM.SI.OL “Competitività del Sistema Olivo in Italia” 7 marzo 2008: 91-96.

Iannotta N., Belfiore T., Noce M.E., Perri E., Scalercio S., Vizzarri V., 2008e. Confronto tra due diversi dispositivi di trappolaggio massale (Attract and Kill) nel controllo della mosca delle olive (*Bactrocera oleae* Rossi, 1970) in Calabria. Atti Conv. Naz. sulla ricerca scientifica per l'agricoltura biologica, (MIPAF), Roma 23-24 giugno 2008, pp. 143-148.

Iannotta N., Belfiore T., Noce M.E., Scalercio S. & Vizzarri V., 2008f. Nell'oliveto il clima che cambia influenza il ciclo degli insetti. – L'Informatore Agrario, 8: 68-69.

Iannotta N., Belfiore T., Noce M.E., Scalercio S., Vizzarri V., 2008 g. Impact of Kaolin and Beauveria bassiana treatments against olive fly on the non-target arthropods of the olive ecosystem. Su Proceedings of the 16th IFOAM Organic World Congress, Modena, Italy, June 16-20.

Iannotta N., Belfiore T., Noce M.E., Scalercio S., Vizzarri V., 2008h. New attract and Kill devices against *Bactrocera oleae* (Gmelin, 1790) in organic olive orchards: efficacy and environmental impact. Su Proceedings of the 16th IFOAM Organic World Congress, Modena, Italy, June 16-20.

Iannotta, N., 2003. La difesa fitosanitaria. In *Olea*, trattato di olivicoltura; Fiorino, P., Ed.; Edagricole: Bologna, Italy, 2003; 393-410.

Ingrisch, S., Glück, E., Wasner, U., 1989. Zur Wirkung des biologisch-dynamischen und konventionellen Landbaues auf die oberirdische Fauna des Ackers. *Verh. Ges. Ökol.* 18, 835–841.

Inserentant R., DE Sooler J. (1976).- Le concept de bioindicateur. *Memory Society Royal Botanical Belgium* 7: 15-24.

Ishaaya I., 1993. Insect detoxifying enzymes: their importance in pesticide synergism and resistance. *Arch. Insect Biochem. Physiol.* 22: 263-276

Jansen J.P., 2000. A three year field study on the short-term effects of insecticides used to control cereal aphid predators in winter wheat. *Pest Manag. Sci.* 56: 553-539.

Janzen D.H. & Shoener T.W. 1968. Differences in insect abundance and diversity between wetter and drier sites during a tropical dry season. *Ecology* 49: 96-110.

Jeanneret Ph., Schüpbach B., Luka H., 2003. Quantifying the impact of landscape and habitat features on biodiversity in cultivated landscapes. *Agriculture, Ecosystems and Environment* 98 (2003) 311–320.

Jonson B.G. & Jonsell M. 1999. Exploring potential biodiversity indicators in boreal forest. *Biodiversity and Conservation* 8: 1417-1443.

Kerns D.L. & Gaylor M.J., 1993. Induction of cotton aphid outbreaks by insecticides in cotton. *Crop Protection*, 12: 384-393.

Kladivko E., 2001. Tillage systems and soil ecology. *Soil & Tillage Research*, 61: 61-76.

Körner H., (1990). Der Einfluß der pflanzenschutzmittel auf die faunenvielfalt der agrarlandschaft (unter besonderer berücksichtigung der gliederfüßler der oberfläche der felder). *Bayerisches Landwirtschaftliches Jahrbuch*, 67: 375-496.

Kotze D.J. and Samways M.J. 1999. Invertebrate conservation at the interface between the grassland matrix and natural Afromontane forest fragments. *Biodiversity and Conservation* 8: 1339-1363.

Krebs, C.J., 1989. *Ecological methodology*. University of British Columbia: Harper Collins, New York, 654 pp.

Kremen C., 1992. Assessing the indicator properties of species assemblages for natural areas monitoring. *Ecological Applications* 2: 203-217.

Kremen, C.; Colwell, R.K.; Erwin, T.L.; Murphy, D.D.; Noss, R.F.; Sanjayan, M.A., 1993. Terrestrial Arthropod assemblages: their use in conservation planning. *Conservation Biology* 1993, 7, 796-808.

Kromp B., Meindl, P., 1997. Entomological research in organic agriculture : summary and recommendation . In: Kromp, B., Meindl, P. (Eds.), *Entomological Research in Organic Farming*, *Biol.Agric.Hortic.* 15, 371-380.

Kromp B., Pflügel G., Hradetzky R.I.J., 1995. Estimating beneficial arthropod densities using emergence traps, pitfall traps and the flooding method in organic fields (Vienna, Austria). In: Toft, S., Riedel, W. (Eds), *Arthropod Natural Enemies in Arable Land*, vol.70. *Acta Jutlandica*, Aarhus University Press, Denmark, pp.87-100.

Kromp, B. Carabid beetles in sustainable agriculture: a review on pest control efficacy, cultivation impacts and enhancement. *Agriculture, Ecosystems and Environment* **1999**, 74, 187-228.

Kromp, B., 1989. Carabid beetle communities (Carabidae, Coleoptera) in biologically, and conventionally farmed groecosystems. *Agric Ecosyst Environ.* 27, 241-251.

Kromp, B., 1990. Carabid beetles (Coleoptera, Carabidae) as bioindicators in biological and conventional farming in Austrian potato fields. *Biol Fertil Soils* 9, 182-187.

Kromp, B. (1999) Carabid beetles in sustainable agriculture: a review on pest control efficacy, cultivation impacts and enhancement. *Agriculture Ecosystem and Environment* 74, 187-228.

Laub, C.A., Luna J.M., 1992. Winter cover crop suppression practices and natural enemies of armyworm (Lepidoptera: Noctuidae) in no-till corn. *Environ. Entomol.* 21, 41-49.

Lawton J.H., Bignell D.B., Bolton B., Bloemers G.F., Eggleton P., Hammond P.M. et al. 1998. Biodiversity inventories, indicator taxa and effect of habitat modification in tropical forest. *Nature* 391:72-76.

Leis, M., Fiegna, F., Fano, E.A. 2001 *Đ Agricoltura sostenibile in zone ad elevato valore naturalistico: importanza delle*

Limburg D.D. & Rosenheim J.A., 1998. the role of extrafloral nectar in the diet of the common green lacewing larva *Chrysoperla carnea*. *National Cotton Council*: 1311-1313

Lindroth C.H., 1992. Ground Beetles (Carabidae) of Fennoscandia. A Zoogeographic Study. Part 1. Specific Knowledge Regarding the Species. Andover: Intercept.

Lobry de Bruyn, L.A. Ants as bioindicators of soil function in rural environments. *Agriculture, Ecosystems and Environment* **1999**, 74, 425-441.

Lövei G.L. & Sunderland K.D. 1996. Ecology and behavior of ground beetles (Coleoptera:ground beetleae). Annual Review of Entomolgy 41: 231-256.

Lubke-Al Hussein, M., Triltsch, H., 1994. Some aspects about polyphagous arthropods as antagonist of aphids in cereal fields .

Luff,M.L.1974. Adult and larval feeding habitats of *Pterostichus madidus* (F.) (Coleoptera: Carabidae). J.Nat.Hist. 8, 403-409.

Luff,M.L. 1980. The biology of ground beetles *Harpalus rufipes* in a strawberry field in Northumberland. Annal of Applied Biology 94, 153-64.

Luff M.L. 1996. Use of Carabids as environmental indicators in grassland an creales. Annales Zoologici Fennici 33, 185-95.

Luff, M.L., 1987. Biology of polyphagous ground beetles in agriculture. Agric. Zool. Rev. 2, 237–278.

Lund, R.D., Turpin, F.T. 1977. Carabid damage to weed seeds found in Indiana cornfields. Environ. Ent. 6, 695-698.

Madsen, H.F., Madsen, B.J., 1982. Populations of beneficial and pest arthropods in an organic and a pesticide treated apple orchard in British Columbia. Can. Ent. 114, 1083–1088.

Maelafait J.P. & Desender K. 1990. Possibilities of short-term ground beetle sampling for site assessment studies. In: Stork N.E. (ed), The role of Ground Beetles in Ecological an Environmental Studies . Intercept, Andover, UK, pp.217-225.

Marasas, M.E., Sarandon, S.J., Cicchino, A.C. 2001 - Changes in soil arthropods functional group in a wheat crop under conventional and no tillage systems in Argentina. Appl. Soil Ecol. 18: 61-68.
Mazzei A., Belfiore T., Bonacci T., Iannotta N., Scalercio S. & Brandmayr P., 2007. Effetti dei trattamenti con fitofarmaci sulla fenologia dei Coleotteri Carabidi in oliveti (Coleoptera Carabidae). – Proceedings del XXI Congresso Nazionale Italiano di Entomologia, Campobasso 11-16 giugno 2007: 59

Mazzei A.,Iannotta N., Belfiore T., Brandmayr P., Noce M.E., Scalercio S. Verre P. & Vizzarri V., 2008.Effetti dell'utilizzo di prodotti cuprici sui coleotteri carabidi nell'agroecosistema oliveto. Convegno del Gruppo per l'Ecologia di Base "G. Gadio", Riassunti delle Comunicazioni, Alessandria 9-11 maggio 2008: 56.

McGeoch M. 1998. The selection, testing and application of terrestrial insect as bioindicators. Biological Rewievs 73: 181-201.

McLaughlin A. & Mineau P.,1995. The impact of agricultural practices on biodiversity. Agriculture, Ecosystems and Environment 1995, 55, 201-212.

McNeely J.A., Miller K.R., Reid W.V., Mittermeier R.A., Werner T.B., 1990.Conserving the world's biological diversity. International Union for Conservation of Nature and Natural Resources. RI, Consv. Intl., Worlfd Wildlife Fund, World Bank, Washington, DC.

Melber,A.,1983.Calluna-Samen als Nahrungsquelle fur Laufkafer in einer nordwestdeutschen Sandheide (Col.,Carab.). Zool.Jb. Syst.110,87-95

Michaud, J.P.; McKenzie, C.L. Safety of a novel insecticide, sucrose octanoate, to beneficial insects in Florida citrus. Florida Entomologist **2004**, 87 (1), 6-9.

Murphy D.D., Weiss S.B. 1992. Predicting the effects of climate change on biological diversity in western North America: Species losses and mechanisms. 355-368. In: Peters R.L., Lovejoy (eds.) Global Warming and biological diversity. Yale University Press, New Haven, Connecticut.

Neuenschwander P., 1982. Beneficial insects caught by yellow traps used in mass-trapping of the olive fly, *Dacus oleae*. Entomologia experimentalis & applicata, 32: 286-296.

- Neuenschwander P., Bigler F., Delucchi V. & Michelakis S., 1983. Natural enemies of preimaginal stages of *Dacus oleae* Gmel. (Dipt. Tephritidae) in Western Crete. I. Bionomics and phenologies. *Boll. Lab. Ent. Agr. F. Silvestri* 40: 3-32.
- New T.R.1998. The role of the ground beetles (Coleoptera: Ground beetleae) in monitoring programmes in Australia. *Annales Zoologici Fennici* 35: 163-171.
- Niemela J., Kotze J., Ashwort A., Brandmayr P., Deseder K., NEW T. et al 2000. The search for common anthropogenic impacts on biodiversity: a global network. *Journal of Insect Conservation* 4: 3-9.
- Niemela J. & Baur B. 1998. Threatened species in a vanishing habitat: plants and invertebrates in calcareous grassland in the Swiss Jura mountains. *Biodiversity and Conservation* 7:1407-1416.
- Niemela J. 2001. Carabid beetles (Coleoptera, Carabidae) and habitat fragmentation: a riview. *European Journal of Entomology* 98: 127-132.
- Niemela J., Haila Y.& Puntilla P. 1996. The importance of small-scale heterogenety in boreal forest: variation in diversity in forest-floor invertebrates across the succession gradient. *Ecography* 19: 352-368.
- Niemela J., Langor D. & Spence J.R. 1993. Effects of clear-cut harvesting on boreal ground-beetle assemblages (Coleoptera: Ground beetleae) in western Canada. *Conservation Biology* 7. 551-561.
- Niemela J., Spence J.R., & Spence D.H. 1992. Habitat associations and seasonaal activity of ground-beetles (Coleoptera,Ground beetleae) in Central Alberta. *The Canadian Entomologist* 124: 521-540.
- Noss R. F., 1990. indicators for monitoring Biodiversity: a Hierarchical Approach. *Conservation Biology*. 4: 355-364.
- Oliver I. & Beattie A.J. 1996.Designing a cost-effective invertebrate survey. A test of methods for rapid assesment of biodiversity. *Ecological Applications* 6: 594-607.
- Paoletti, M.G., Sommaggio, D., Bressan, M., Celano, V., 1996. Can sustainable agricultural practices affect biodiversity in agricultural landscapes? A case study concerning orchards in Italy. In: Booij, C.J.H., den Nijs, L.J.M.F. (Eds.), *Arthropod Natural Enemies in Arable Land II. Survival, Reproduction and Enhancement*, *Acta Jutlandica* 71(2), 241–254.
- Paoletti, M.G.; Hassall, M., 1999. Woodlice (Isopoda: Oniscidea): their potential for assessing sustainability and use as bioindicators. *Agriculture, Ecosystems and Environment*. 74, 157-165.
- Pearsall, I.A., Walde, S.J., 1995. A comparison of epigaeic coleoptera assemblages in organic, conventional and abandoned orchards in Nova Scotia, Canada. *Can. Entomol.* 127, 641–658.
- Pearson D.L. & Cassola F. 1992. World-wide species richness patterns of tiger beetles (Coleoptera: Cicindelidae): indicator taxon for biodiversity and conservation studies. *Conservation Biology* 6: 376-391.
- Penney M.M. 1996. Studies on certain aspects of the ecology of *Nebria brevicollis* (F.) (Coleoptera,Carabidae). *Journal of Animal Ecology* 35, 505-12.
- Petacchi R. & Minnocci A., 1994. Impact of different *Bactrocera oleae* (Gmel.) control strategies on olive grove entomofauna. *Acta Horticulture*, 356: 399-402.
- Petacchi R., Minocci A., 1993. Analisi sulla composizione dell'entomofauna dell'oliveto e sull'impatto provocato da diverse strategie di lotta antidacica – Atti Convegno su “Tecniche,norme e qualità in olivicoltura” – Potenza 15-17 dicembre 1993: 509-525.
- Pimentel D.A., 1997. Pest management in agriculture. Techniques for reducing pesticide Use. Edited by D. Pimentel © 1997 John Wiley & Sons, Ltd: 1-11.
- Pimentel D.A., Stachoww U., Takacs D.A., Brubaker H.W., Dumas A. R., Meaney J.J., O'Neil J.A.S., Onsi D.E., Corsilius D.B., 1992. Conserving biological diversity in agricultural and forestry systems - *Bioscience* 42: 354-364.

- Pimm S.L. & Gilpin M.E. 1989. Theoretical issues in conservation biology . In: Roughgarden J., May R.M. and Lewin S.A. (eds), *Perspectives in Ecological Theory*. Princeton University Press, Princeton, New Jersey, pp.287-305.
- Pizzolotto R., 1994. Ground Beetles (Coleoptera, Carabidae) as a tool for environment management: a geographical information system based on carabids and vegetation for the Karst near Trieste (Italy). In K. Desender et al. (ed.) - *Carabid Beetles: Ecology and Evolution*, pp 343-351. Kluwer Academic Publisher, The Netherlands.
- Pizzolotto R., Mazzei A., Scalercio S., Belfiore T., Iannotta N. & Brandmayr P., 2006. Diversità dei Coleotteri Carabidi nell'agroecosistema oliveto in Calabria. *Riassunti del XVI Congresso SItE*, Viterbo & Civitavecchia, 19–22 Settembre 2006: 65.
- Porta A., 1923-1959. *Fauna Coleopterorum Italica*. Vol. I (1923), Adepaga, Piacenza, 285 pp.; Supplementum (1934), Sanremo, 208 pp.; Suppl. II (1949), Sanremo, 386 pp.; Suppl. III (1959), Sanremo, 344 pp.
- Powell, W., Dean, D.A. & Dewar, A. (1985). The influence of weeds on polyphagous arthropod predators in winter wheat. *Crop protection* 4, 298-312
- Prendergast J.R., Quinn R.M., Lawton J.H., Eversham B.D. & Gibbons D.W. 1993. Rare species, the coincidence of diversity hotspots and conservation strategies, *Nature* 365: 335-337.
- Pyle R., Bentzen M., Opler P., 1981. Insect conservation. *Annual Review of Entomology* 26: 233-258.
- Rainio J., Niemelä J., 2003. Ground beetles (Coleoptera: Carabidae) as bioindicators. *Biodiversity and Conservation* 12: 487-506.
- Raspi A. & Malfatti P., 1985. The use of yellow chromotropic traps for monitoring *Dacus oleae* (Gmel.) adults. In: Cavalloro R. & Crovetto A. (eds.), *Integrated Pest Control in Olive Grove*. Proceedings CEC & FAO/IOBC, International Joint Meeting, Pisa 3-6 April 1984, Rotterdam/Commission of the European Communities (CEC), pp. 428-444.
- Raspi A., 1993. Agroecosistema oliveto. *M.A.F. Convegno Olivicoltura* Firenze 1991. 17-23.
- Ricketts, T. H., Daily G. C. and Ehrlich P. R., 2002. Does butterfly diversity predict moth diversity? Testing a popular indicator taxon at local scales – *Biological Conservation*, 103: 361-370.
- Rodriguez E., Peña A., Sánchez Raya A.J. & Campos M., 2003. Evaluation of the effect on arthropod populations by using deltamethrin to control *Phloeotribus scarabaeoides* (Bern.) (Coleoptera Scolytidae) in olive orchards. *Chemosphere*, 52: 127-134.
- Ruano F., Lozano C., Tinaut A., Peña A., Pascual F., Garcia P. & Campos M., 2001. Impact of pesticides on beneficial arthropod fauna of olive groves. *Pesticides and Beneficial Organisms*. IOBC/WPRS Bulletin. 24(4): 113-120.
- Ruano F., Lozano C., Garcia P., Peña A., Tinaut A., Pascual F. & Campos M., 2004. Use of arthropods for the evaluation of the olive-orchard management regimes. *Agricultural and Forest Entomology*, 6: 111-120.
- Ruiz Torres M & Montiel Bueno A., 2000. Introducción al conocimiento de la Entomofauna del olivar en la provincia de Jaén. Aspectos cualitativos. *Boletín de Sanidad Vegetal y Plagas*, 26: 129-147.
- Rushton S.P., Luff M.L. & Eyre M.D. 1989. Effect of pasture improvement and management on the ground beetle and spider communities of upland grassland. *Journal of Applied Ecology* 26: 489-503.
- Rushton S.P., Eyre M.D. & Luff M.L. 1990. The effects of management on the occurrence of some ground beetle species in grassland. In: Stork N.E. (ed), *The role of Ground Beetles in Ecological and Environmental Studies*. Intercept, Andover, UK, pp.209-216.
- Ryken J.J., Capen D.E. & Mahabir S.P. 1997. Ground beetles as indicator of land type diversity in the green mountains of Vermont. *Conservation Biology* 11: 522-530.

- Samways M.J., 1994. *Insect Conservation Biology*. Chapman & Hall, London.
- Samways, M.J. *Insect Conservation Biology*. Chapman & Hall: London, 1994.
- Sanderson, R.A., Rushton, S.P., Cherrill A.J. & Byrne J.P. 1995 Soil, vegetation and space : an analysis of their effects on the invertebrate communities of moorland in North-East England. *Journal of Applied Ecology* 32, 506-16.
- Sbordoni V., Bologna M. A., Vigna Taglianti A. 2002. Gli insetti e la biodiversità. Atti XIX Congresso Nazionale Italiano di Entomologia Catania 10-15 Giugno: 137-148.
- Scalercio S., Belfiore T., Noce M.E., Vizzarri V., Iannotta N., 2008. influenza delle diverse strategie di gestione dell'oliveto sulle comunità di lepidotteri. Atti Conv. Naz. sulla ricerca scientifica per l'agricoltura biologica, (MIPAF), Roma 23-24 giugno 2008, pp. 111-117.
- Scalercio S., Brandmayr P., Belfiore T., Noce M. E. & Iannotta N., 2006. La biodiversità dei lepidotteri e la gestione dell'agroecosistema oliveto. XVII Convegno del Gruppo per l'Ecologia di Base "G. Gadio", Riassunti delle Comunicazioni, Cetraro (CS) 6-8 maggio 2006: 44.
- Scheller, H.V., 1984. The role of ground beetles (Carabide) as predators on early population of cereal aphid in spring barley. *Z. Ang. Ent.* 97, 451-463.
- Scholes, R.J. & Biggs, R., 2005. A biodiversity intactness index - *Nature*, 434: 45-49.
- Sengonca, C., Brügggen, K.-U., 1989. Auftreten von Winterweizenschädlingen und ihren natürlichen Feinden in unterschiedlich bewirtschafteten Ackerbaubetrieben. *Zeitschrift Pflanzenkrankheiten Pflanzenschutz* 96, 100-106.
- Skuhuravy V., 1959. Die Nahrung der Feldcarabiden. *Acta Soc. Entomol. Csl.* 56, 1-18
- Sommaggio D., 1999. Syrphidae: can they be used as environmental bioindicators? *Agriculture, Ecosystems and Environment* 74: 343-356.
- Sotherton, N.W. & Moreby S.J. (1984) Contact toxicity of some foliar fungicide sprays to three species of polyphagous predators found in cereal fields. *Annals of Applied Biology* 104, 16-7
- Southwood T.R.E., Way M.J., 1970. Ecological background to pest management. In concepts of pest management, Rabb R.L. & Guthrie F.E., North Carolina State University, Raleigh, NC.
- Stachow, U., 1987. Aktivitäten von Laufkäfern (Carabidae, Col.) in einem intensiv wirtschaftenden Ackerbaubetrieb unter Berücksichtigung des Einflusses von Wallhecken, Ph.D. Thesis, University of Kiel.
- StatSoft Italia. *STATISTICA 5.5 for Windows*. StatSoft Italia srl: Vigonza, Padova, Italy, 1999.
- Stinner B.R., House G.J., 1990 Arthropods and other invertebrates in conservation-tillage agriculture *Annu. Rev. Entomol.* 35, 299-318.
- Sunderland, K.D. & Vickerman, G.P. (1980) Aphid feeding by some polyphagous predators in relation to aphid density in cereal field. *Journal of Applied Ecology* 17, 389-96
- Sunderland, K.D. (1975) The diet of some predatory arthropods in cereal crops. *Journal of Applied Ecology* 12, 507-15.
- Sunderland, K.D, Bilde T., Den Nijs L.J. M.F., Dinter, Himbach U., Lys J.A., Powell W., Toft S., 1996. Reproduction of beneficial predators and parasitoids in agroecosystems in relation to habitat quality and food availability. *Arthropod Natural Enemies in Arable Land. II: Survival, Reproduction and Enhancement* (K. Booijs and L. den Nijs, Eds), pp.117-153. Aarhus Univ. Press Aarhus.
- Sunderland, K.D., Axelen J.A., Dromph, K., Freier, B., Hemptinne, J.-L., Holst, N.H. Mols, P.J.M., Petersen, M.K., Powell, W. Ruggle, P., Triltsch, H., Winder, L., 1997. Pest control by a community of natural enemies. In: Powell, W. (Ed.), *Arthropod Natural Enemies in Arable Land. The individual, the Population and the Community*, *Acta Judandlica*, 72 (2), 271-326.

- Theiling K.M., & Croft B.A., 1989. Toxicity, selectivity and sublethal effect of pesticides on arthropod natural enemies: A data base summary. *Pesticides and Non Target Invertebrates*. (P.C. Jepson, Ed), pp.313-232. Intercept Ltd., Wimborne. UK.
- Thiele H.U., 1977- *Carabid Beetles in their environments*. Springer Verlag (Berlin, Heidelberg, New York), XVII+369pp.
- Trautner, J. & Geingenmuller K.,1987. Tiger beetles, Ground beetles. Illustrated keys to the Cicindelidae and Carabidae of Europe. Verlag Josef Margraf, Aichtel.
- Tscharntke, T.; Bommarco, R.; Clough, Y.; Crist, T.O.; Kleijn, D.; Rand, T.A.; Tylanakis, J.M.; van Nouhuys, S.; Vidal, S. Conservation biological control and enemy diversity on a landscape scale. *Biological Control* **2007**, *43* (3), 294-309.
- Underwood, A.J., 1996. Detection, interpretation, prediction and management of environmental disturbances: some roles for experimental marine ecology. *J Exp. Mar. Biol. Ecol.*, 200: 1-27
- Vickerman, G.P., Comes D. S., Coombes D.S., Turner G., Mead-Briggs M., Edwards J., 1987. The effects of pirimicarb, dimethoate and deltamethrin on Carabidae and Staphylinidae in winter wheat. *Mededelingen Facultata Land bouwhogeschool Rijksuniversitat Gent* 52: 213-223.
- Vickerman, G.P., Sunderland, K.D., 1975. Arthropods in cereal crops: Nocturnal activity, vertical distribution and aphid predation. *J. Appl. Ecol.* 12, 755-766.
- Viggiani G., 2001. Agrobiodiversità e controllo biologico degli insetti fitofagi. *Atti Accademia Nazionale Italiana di Entomologia, Rendiconti*, XLIX: 191-204
- Vigna Taglianti A., 1989. Problemi e metodologie nello studio della fauna terrestre. In: *Zoologia oggi*, Collana U.Z.I., Problemi di biologia e di storia della natura, Mucchi, Modena, 2: 85-94.
- Vigna Taglianti A., 1993. Coleoptera Archostemata, Adephaga 1 (Carabidae). In: Minelli A., Ruffo S. & La Posta S. (eds.) *Checklist delle specie della fauna italiana*, 44. Calderini, Bologna.
- Vigna Taglianti A., 1998 *Maratea Cong Naz. Ent.* 21-26 giugno Lett. Plen.
- Ward, D.F.; New, T.R.; Yen, A.L.,2001. Effects of pitfall trap spacing on the abundance, richness and composition of invertebrate catches. *Journal of Insect Conservation* 5: 47-53.
- Wetzel T., Volkmar C., Lübke-Al Hussein M., Jany D., Richter L., 1997. Zahlreiche "Rote-Liste-Arten" epigäischer Raubarthropoden auf grossen Agrarflächen Mitteldeutschlands. *Archiv für Phytopathologie und Pflanzenschutz* 31, 165–183.
- Weibull, A.C.; Östman Ö.; Granqvist Å., 2003. Species richness in agroecosystems: the effect of landscape, habitat and farm management. *Biodiversity e Conservation* 12: 1335-1355.
- Wetzel, T., 1993. Genug Nützlinge auch auf Großflächen. *Pflanzenschutz-Praxis* 4, 16–19.
- Wiles, J.A. & Jepson, P.C.1994. Substrate-mediated toxicity of deltamethrin residues to beneficial invertebrates: estimation of toxicity factors to aid risk assessment. *Archives of Environmental Contamination and Toxicology* 27, 384-91.
- Wolfgang B., 2003 Biodiversity and agri-environmental indicators—general scopes and skills with special reference to the habitat level. *Agriculture, Ecosystems and Environment* 98 (2003) 35–78.
- Wratten, S.D., Van Emden; H.F., 1995. Habitat management for enhanced activity of natural enemies of insect pest. In: Glen, D.M., Greaves, M.P., Andeson, H.M. (Eds), *Ecology and Integrated Farming Systems*. Wiley, Bristol.
- Xiaorong W.; Mingde H.; Mingan S. Copper fertilizer effect on copper distribution and vertical transport in soils. *Geoderma* 2007, *138* (3-4), 213-220.
- Zeiner, Ch., 1988. Untersuchung zur Bedeutung von polyphagen Prädatoren als Blattlausräuber auf konventionell und ökologisch bewirtschafteten Winterweizenschlägen, Ph.D. Thesis, University of Kiel.

Zetto Bradmayr T., 1990. Spermophagous (seed-eating) ground beetles: first comparison of the the diet and ecology of the Harpaline genera Harpalus ed Ophonus (Col.,Carabidae). In Stork N. E. (ed) The role of Ground Beetles. Ecological and Environmental studies,pp307-316. Intercept, London