CHAPTER VI
LITERATURE CITED

- Abbas, G., Arif, M.J., Ashfaq, M., Aslam, M. & Saeed, S., 2010. Host plants, distribution and overwintering of cotton mealybug (*Phenacoccus Solenopsis*; hemiptera: pseudococcidae). *International Journal of Agriculture and Biology*, 12, pp. 421-425.

- Abdel-Raouf, N. & El-Shafey, N.M., 2009. Harmful effects of endosulfan treatment on cyan bacterial distribution and some macromolecules of soybean plant. *African Journal of Biotechnology*, 8(22), pp.6277-81.

- Afifi, A.I., Arnaouty, S.A.E., Attia, A.R. & Alla, A.E.A., 2010. Biological control of citrus mealybug *Planococcus citri* (Risso) using Coccinellid predator, *Cryptolaemus montrouzieri* Muls. *Pakistan Journal of Biological Sciences*, 13(5), pp. 216-222.

- Ahmadi, L.B., Askary, H. & Ashouri, A., 2004. Preliminary evaluation of effectiveness of a Verticillium lecanii isolate in the control of Thrips tabaci (Thyasanopter: Thripidae). *Communication in Agricultural and Applied Biological Science*, 69(3), pp. 201-04.

- Akintola, A.J. & A.T. Ande, 2008. First Record of *Phenacoccus solenopsis* Tinsley (Hemiptera: Pseudococcidae) on *Hibiscus rosa-sinensis* in Nigeria. *Agricultural Journal*, 3(1), pp. 1-3.

- Aktar, M.W., Sengupta, D. & Chowdhury, A., 2009. Impact of pesticide use in Indian agriculture - Their benefits and hazards. *Interdisciplinary Toxicology*, 2(1), pp.1-12.

- Ali, S.S., Shaheen, A., Pervez, R. & Hussain, M.A., 2005. Steinernema masoodi sp. n. and Steinernema seemae sp. n. (Nematoda: Rhabditida: Steinernematidae) from India. *International Journal of Nematology*, 15(1), pp.89-99.

- Ananthkrishnan, T.N. & David, B.V., 2004. *General and Applied Entomology*. 2nd ed. New Delhi: Tata McGraw Hill Publishing Company Limited.

- Arai, T., 2000. The existence of sex pheromone of Pseudococcus cryptus and simple bioassay. *Applied Entomology and Zoology* , 35(4), pp.525-28.

- Arai, T., Sugie, H., Hiradate, S., Kuwahara, S., Itagaki, N. & Nakahata, T., 2003. Identification of a sex pheromone component of *Pseudococcus cryptus*. *Journal of Chemical Ecology*, 29 (10), pp. 2213-2223.

- Arif, M. I., Rafiq, M. & Ghaffar, A., 2009. Host plant of cotton mealybug (*Phenococcus solenopsis*): a new menace to cotton agroecosystem of Punjab. *International Journal of Agriculture and Biology,* 11(2), pp. 163-167.

- Armenta, R., Marti´nez, A. M. , Chapman, J. W., Magallanes, R., Goulson, D., Caballero, P., Cave, R.D., Cisneros, J., Valle, J., Castillejos, V., Penagos, D.I., Garci´a, F., & Williams, T., 2003. Impact of a nucleopolyhedrovirus bioinsecticide and selected Synthetic Insecticides on the Abundance of Insect Natural Enemies on Maize in Southern Mexico. *Journal of Economic Entomology*, 96 (3), pp. 649-661.

- Arivudainami, S. & Chandar, A.V., 2009. Management of pulses blue butterfly, *Lampides boeticus* L. in green gram. *Karnataka Journal of Agricultural Science,* 22 (3), pp. 624-625.

- Asogwa, E. U., Ndubuaku, T. C. N., Ugwu, J. A. & Awe, O. O., 2010. Prospects of botanical pesticides from neem, *Azadirachta indica* for routine protection of cocoa

farms against the brown cocoa mirid – *Sahlbergella singularis* in Nigeria *Journal of Medicinal Plants Research,* 4(1), pp. 1-6.

- Bambawale, O.M., 2008. *Tackling Mealy bug Menace in Cotton: a New Challenge.* NCEIP newsletter, India, 14, pp. 1.

- Begum, A., Harikrishna, S. & Khan, I., 2009. A Survey of persistent organochlorine pesticides residues in some streams of the Cauvery river, Karnataka, India. *International Journal of Chem Tech Research,* 1(2), pp.237-44.

- Bokonon-Gantaa, A. H., Groote, H. & Peter N., 2002. Socio-economic impact of biological control of mango mealybug in Benin Agriculture. *Agriculture, Ecosystems and Environment,* 93 (3), pp. 367-378.

- Bolton, B.O., 1994. Identification guide to the ant genera of the world. Harvard University Press, Cambridge, MA. 222pp.

- Boo, K.S. & Yang, J.P., 2000. Kariomones used by Trichogramma chilonis to find Helicoverpa assulta eggs. *Journal of Chemical Ecology,* 26(2), pp.359-76.

- Brithal, P.S., Sharma, O.P. & Kumar, S., 2000. Economics of integrated pest management: Evidence and Issue. *Indian Journal of Agricultural Economics,* 55(4), pp.644-59.

- Chandurkar, P.S., 2004. Present status of registration of pheromones in India. In Cork, A., Jayanth, P.K. & Narasimhan, S., eds. *Proceedings of Enabling Small and Medium Enterprises to Promote Pheromone Based Pest Control Technologies in South Asia.* Bangalore, 2004. Crop Prtection Research Programme DFID.

- Chiras, D.D., 2010. Pests and pesticides: growing crops sustainable. In D.D. Chiras, ed. *Environment science.* 8th ed. Sudhury: John and Bartlett Publisher. pp.494-95.

- Cork, A. et al., 2003. Pheromone and their applications to insect pest control. *Bangladesh Journal of Entomology*, 13(2), pp.1-13.

- Cork, A., Alam, S.N., Das, A., Das, C.S., Ghosh, G.C., Phythian, S., Farman, D.I., Hall, D.R., Maslen, N. R., Vedham, K., Rouf, F. M. A. and Srinivasan, K. 2001. Female sex pheromone of Brinjal fruit and shoot borer, *Leucinodes Orbonalis* (Lepidoptera: Pyralidae) Blend optimization. *Journal of Chemical Ecology,* 27(9), pp. 1867-1877.

- Cork, A., Alam, S.N. Rouf, F. M. A., & Talekar, N.S., 2003. Female sex pheromone of Brinjal fruit and shoot borer, *Leucinodes orbonalis*: Trap optimization and application in IPM trails. *Bulletin of Entomological Research*, 93(2), pp.107-113.

- Cork, A., Alam, S.N., Srinivasan, K., Das, C.S., Ghosh, G.C. & Talekar, N.S., 2005. Development of mass trapping technique for control of Brinjal shoot and fruit borer, *Leucinodes orbonalis. Bulletin of Entomological Research*, 95(1), pp. 1-8.

- Cork, A., Beevor, P.S., Hall, D.R., Nesbitt, B.F., Arida, G.S. & Mochida, O. 1985. Components of the female sex pheromone of the yellow stem borer, *Scirpophaga incertulas. Entomologia experimentalis et Applicata,* 37(2), pp.149-153.

- Cork, A. & Hall, D.R., 1998. Application of pheromones for crop pest management in Indian sub –continent. *Journal of Asia-Pacific Entomology*, 1(1), pp.35-49.

- Daane, K. M., Bentley, W. J., Walton, V. M., Malakar-Kuenen, R., Millar, J. G., Ingels, C. A., Weber, E. A. & Gispert, C., 2006. New controls investigated for vine mealybug. *California Agriculture*, 60(1), pp. 31-38.

- Daane, K.M., Sime, K.R., Dallon, J. & Cooper, M.L., 2007. Impact of Argentine ants on mealybugs and their natural enemies in California's coastal vineyards. *Ecological Entomology,* 32(6), pp. 583-597.

- Delabie, J.H.C., 2001. Trophobiosis between Formicidae and Hemiptera (Sternorrhyncha and Auchenorrhyncha): an Overview. *Neotropical Entomology*, 30(4), pp. 501-516.

- Del-Claro, K. & Oliveira, P. S., 1999. Ant-Homoptera Interactions in a Neotropicai Savanna: The Honeydew-Producing Treehopper, *Guayaquila xiphias* (Membracidae) and its Associated Ant Fauna on *Didymopanaxvinosum* (Araliaceae). *Biotropica*, 31(1), pp. 135-144.

- Devanathan, G. et al., 2009. Persistent organochlorines in human breast milk from major metropolitan cities in India. *Environment Pollution*, 157(1), pp.148-54.

- Dhaliwal, G.S., Jindal, V. & Dhawan, A.K., 2010. Insect pest problems and crop losses: Changing trends. *Indian Journal of Ecology*, 37(1), pp.1-7.

- Dhawan, A.K., Saini, S. & Singh, K., 2010. Seasonal occurrence of cotton mealybug P solenopsis on different hosts in Punjab. *Indian Journal of Ecology*, 37 (1), pp.105-109.

- Dhawan, A.K., Singh, K., Aneja, A. & Saini, S., 2009. Distribution of mealy bug, *Phenacoccus solenopsis* Tinsley in cotton with relation to weather factors in South-Western districts of Punjab. *Journal of Entomological Research*, 33(1), pp. 59-63.

- Dhawan, A.K., Suri, K.S., Kumar, K., Singh, R., Chandi, R.S. & Bhullar, H.S., 2011. Integrated pest management strategies: Their impact on arthropod fauna and economic in Basmati Agroecosystem. *Journal of Insect Science*, 24 (special issue), pp. 35-40.

- Diver, S. & Hinman, T., 2008. *Cucumber beetles: Organic and Biorational Integrated Pest Management.* [Online] ATTRA- National Center for Appropriate Technology (1.7) Available at: HYPERLINK http://attra.ncat.org/attrapub/PDF/cucumberbeetle.pdf [Accessed 15 April 2011].

- Divya, K. & Sankar, M., 2009. Entomopathogenic nematodes in pest management. *Indian Journal of Science and Technology*, 2(7), pp.53-60.

- Dobhal, R. & Uniyal, D.P., 2011. Pesticides management in surface and ground waters in India. *International Journal of Science Technology & Management*, 2(1), pp.8-17.

- Downie, D.A. & P.J. Gullan, 2004. Phylogenetic analysis of mealybugs (Hemiptera: Coccoidae: Pseudococcidae) based on DNA sequence from three nuclear genes and a review of higher classification. *Systematic Entomology*, 29(3), pp. 238-256.

- El-Sayed, A.M., Suckling, D.M., Wearing, C.H. & Byers, J.A., 2006. Potential of mass trapping for long-term pest management and eradication of invasive species. *Journal of Economic Entomology*, 99(5), pp.1550-64.

- El-Sayed, A. M., Unelius, C. R., Twidle, A., Manny, L., Cole, L., Suckling, D. M., Flores, M. F., Zaviezo T. & Begmann, J., 2010. 2- Acetoxy, 3-methylbutanoate: sex pheromone of the citrophilous mealybug, *Pseudococcus calceolariae. Tetrahedron Letters*, 51(7), pp. 1075-1078

- Frison, E. A., Cherfas, J. & Hodgkin, T., 2011. Agricultural Biodiversity Is Essential for a Sustainable Improvement in Food and Nutrition Security. *Sustainability,* 3, pp. 238-253.

- Geetha, N. & Balakrishnan, R., 2011. Temporal and spatial dispersal of laboratory reared Trichogramma chilonis Ishii in open field. *Journal of Entomology*, 8(2), pp.164-73.

- Ghimire, N.P., 2007. Impact of agriculture aggravations on ecology. *Journal of Agriculture and Environment*, 8, pp.106-14.

- Gillani, W.A., Copland, M. & Raja, S., 2009. Studies on feeding preference on brown lacewing (*Sympherobius fallax* Navas) larvae for different stages of long tailed mealybug (*Pseudococcus longispinus)* (Targioni-Tozzetti). P*akistan Entomologist*, 31(1), pp.1-4.

- Gupta, M.P., 2010 Efficacy of neem in combination with cow urine against mustard aphids, *Lipaphis erysimis* and its effect on coccinellid predators. *Natural product radiance* 4 (2), pp. 202-206

- Gowda, J. & Naik, L.K., 2008. Management of teak defoliator Hyblaea puera Cramer in teak plantation. *Karnataka Journal of Agricultural Science*, 21(4), pp.516-18.

- Golmohammadi, G., Hejazi, M., Iranipour, S. & Mohammadi, S. A., 2009. Lethal and sublethal effects of endosulfan, imidacloprid and indoxacarb on first instar larvae of *Chrysoperla carnea* (Neu: Chrysopidae) under laboratory conditions. *Journal of Entomological Society of Iran,* 28 (2), pp. 37-47.

- Grewal, H.S., Dhawan, A. K. , Kaur, M., Dhillon, D.S. & Singh, V.P., 2011 Assessment of integrated pest management technology for sustainable cotton production in Punjab. *Journal of insect science*, 24 (special issue), pp. 128-131.

- Hall, D.R., 2004. Application of pheromones in agriculture: Overview. In Cork, A., Jayanth, P.K. & Narasimhan, S., eds. *Proceedings of 'Enabling Small and Medium Enterprises to Promote Pheromone Based Pest Control Technologies in South Asia.* Bangalore, 2004. Crop Protection Research Programme DFID.

- Hanchinal, S.G., Patil, B.V., Bheemanna, M. & Hosamani, A. C., 2010. Population dynamics of mealybug, *Phenacoccus solenopsis* Tinsley and its natural enemies on Bt cotton. *Karnataka Journal of Agricultural Science*, 23(1), pp. 137-139.

- Helm, K. R. & Vinson, S. B., 2007. Apparent facilitation of invasive mealybug by an invasive mealybug by invasive ant. *Insects Socioux*, 50 (4), pp. 403-404.

- Hodges, A.C. & Hodges, G.S., 2005. *Standard operating procedures for plant diagnostic laboratories: Pink hibiscus mealybug, Maconellicocus hirsutus (Green).* Draft. Gainesville: APS Press Institute of Food and Agricultural Sciences, University of Florida.

- Hoffmann, A. A., Andrew, R. W. B., Michael, A. N. A, Peter, G. M. & Paul, A. U. A., 2008. The changing status of invertebrate pests and the future of pest management in the Australian grains industry *Australian Journal of Experimental Agriculture*. 48 (12), pp.1481-1493.

- Horowitz, A.R., Ellsworth, P.C. & Ishaaya, I., 2009. Biorational pest control- An overview. In I. Ishaaya & A.R. Horowitz, eds. *Biorational control of Arthropod Pests: Application and Resistance Management.* 1st ed. New York: Springer Dordrecht Heidelberg. pp.1-20.

- Ignacimuthur, S., 2004. Insect pest management with green pesticides. *Journal of Scientific and Industrial Research*, 63(8), pp.694-96.

- Iqbal, M.F. et al., 2009. Monitoring of insecticide residues in brinjal collected from market of Noshera Virkan, Pakistan. *Journal of Animal and Plant Science*, 19 (2), pp.90-93.

- Jacobsan, M., 1989. Botanical pesticides: Past, Present and future. In J.T. Aranson, B.J.R. Philogene & P. Morand, eds. *Insecticides of Plant Origin.* ACS Symposium Series ed. Washington: American Chemical Society. pp.1-10.

- Jaglan, M.S., Khokhar, K.S., Khokhar, S. & Singh, R., 2011. Ovicidal activity of different plants extracts against Helicoverpa armigera (Hubner). *Journal of Insect Science*, 24 (special issue), pp. 1-7.

- Jahn, G.C., Beardsley, J.W. & Gonzalez-Hernandez, H., 2003. A review of association of ants with mealybug wilts disease of pineapple. *Proceedings Hawaiian Entomological Society,* 36, pp. 9-28.

- Jeyasankar, A. Raja, N. & Ignacimuthu, S., 2005. Botanical pesticides for Insect control. In S. Ignacimuthu and S. Jayaraj, ed. *Green Pesticides for Insect Pest Management.* New Delhi: Narosa Publishers, pp. 115-132.

- Jhala, R.C., Chavda, A.J., Patel, M.G., Talekar, N.S. & Cork, A., 2005a. Evaluation of various modified traps for their trapping efficiency against *Leucindoes* male moths. In., *Proceeding of National Symposium on Recent Advances in Integrated Management of Brinjal Shoot and fruit Borer*, 2005. Varanas. Indian institute of Vegetable Research.

- Jhala, R.C., Chavda, A.J., Patel, M.G., Talekar, N.S. & Cork, A., 2005b. Evaluation of Eco friendly pest management components to combat eggplant shoot and fruit Borer (*Leucindoes orbonalis*) in Gujarat. In., *Proceeding of National Symposium on Recent Advances in Integrated Management of Brinjal Shoot and fruit Borer*, 2005. Varanas. Indian institute of Vegetable Research.

- Jung, C.H., Han, K.S, & Boo, K.S., 2000a. Identification of volatiles responsive to the alder leaf beetle (*Agelastica coerulea*) from its host plant, the Japanese alder (*Alnus glutinosa*). *Journal of Asia- Pacific Entomology,* 3(1), pp. 33-40.

- Jose, Q., Bhaskar, H., & Mathew, M.P., 2011. Predaceous symninae (Coccinellidae: Coleoptera) associated with sucking pests of vegetables. *Journal of Insect Science,* 24 (special issue), pp. 13-17.

- Kabre, G.B. & Dharne, P.K., 2009. Mass trapping of *Earias vittella* (Fab.) and Pectinophora gossypiella Saund. using indigenously synthesized sex pheromone in cotton ecosystem. *Karnataka Journal of Agricultural Science,* 22 (3-Spl.Issue), pp. 664-665.

- Kairo, M.T.K., Pollard, G.V., Peterkin, D.D. & Lopez, V.F., 2000. Biological control of the hibiscus mealy bug, *Maconellicoccus hirsutus* (Green) (Hemiptera: Pseudococcidae) in the Caribbean. *Integrated Pest Management Review,* 5(4), pp. 241-254.

- Kaushik, N. & Sharma, V., 2009. Technologies for sustainable crop protection. In *Souvenir of 5th International Conference on Biopesticides: Stakeholders Perspectives.* New Delhi, 2009. TERI Press.

- Kedar, S.C., Saini, R.K. & Ram, P., 2011. Record of ants (Hymenoptera: Formicidae) associated with mealybug, *Phenococcus solenopsis* Tinsley (Hemiptera: Pseudococcidae) from Haryana. *Journal of Insect Science,* 24(Special issue), pp. 166-168.

- Kedar, S.C., Saini, R.K. & Ram, P., 2011. Biology of *Phenococcus solenopsis* Tinsely (Hemiptera: Pseudococcidae) on Potato sprouts. *Journal of Insect Science,* 24 (Special issue), pp. 30-34.

- Khan, M.J., Zia, M.S., Qasim, M. & Rahman, A., 2009. Pesticide residue in the food chain and human body inside Pakistan. *Journal of Chemical Society of Pakistan,* 31(2), pp. 284-291.

- Koul, O., Waliai, S. & Dhaliwal, G.S., 2008. Essential Oils as Green Pesticides: Potential and Constraints. *Biopesticides International*, 4(1), pp.63-84.

- Kranthi, K.R., 2002. Insecticide resistance in five major insect pests of cotton in India. *Crop Protection*, 21(5), pp.449-60.

- Krishnaiah, K., Varma N., Pasalu, I.C. & Zainulabeuddin, S., 1998. Pheromone monitoring system of rice yellow stem borer, *Sciropophaga incertulas. Indian Journal of Plant Protection*, 26(2), pp. 99-106.

- Kumar, D., 2007. Role of Spiders as bio-control agents to minimize the use of pesticides in the agricultural fields of Vadodara. *Journal of Eco-physiology & Occupational Health*, 7, pp.101-106.

- Kumar, J. & Faleiro, J.R., 2008. A rapid decision sampling plan for implementing area wide management of the red palm weevil, *Rhynchophorus ferrugineus*, in coconut plantation of India. *Journal of Insect Science*, 8 (15), pp. 1-9.

- Kumar, D. & Naidu, B., 2010. A contribution towards the insect fauna of Vadodara, Gujarat (India): The Order Hemiptera. *Halteres*, 1 (2), pp.73-80.

- Kumar, D. & Shivakumar, M.S., 2004. Recent status of IPM in agricultural fields of Gujarat. *Indian Journal of Environmental Sciences*, 8 (2), pp.143-46.

- Kumar, D. & Yashkamal, K., 2011. Study on prey spectrum of social spiders *Stegodyphus sarasinorum* (Karsch) (Araeneae: Eresidae) and its potential as biological control agent. *The National Academy of Sciences, India*, 81, pp.171-79.

- Lagowaska, B., 1995. The biological control perspective of scale insect (Homoptera: Coccidae) on ornamental plants in glasshouses. *Wiadomosci Entomologiczne,* 14(1), pp. 5-10.

- Larrain, P.S. et al., 2009. Effect of pheromone trap density on mass trapping of male potato tuber moth Phthorimaea operculella (Zeller) (Lepidoptera: Gelechiidae), and level of damage on potato tubers. *Chilean Journal of Agricultural Research,* 69(2), pp.281-85.

- Lekshmi, V.N., Sharma, R.K., & Sharma, K., 2011. Management of major pests in brinjal with organic pest management components. *Journal of Insect Science,* 24 (special issue), pp. 68-74.

- Lewis, L.C., Bruck, D.J., Prasifka, J.R. & Raun, E.S., 2009. Nosemapyrausta: Its biology, history, and potential role in a landscape of transgenic insecticidal crops. *Biological Control* , 48(3), pp.223-31.

- Lilley, R., Hardie, J. & Wadhams, L.J., 1994. Field populations of Podisus volucre populations using semiochemicals. *Norwegian Journal of Agricultural Sciences* , 16(2), pp.221-26.

- Malleshaiah, Rajagopal, B.K. & Gowda, K.N.M., 2000a. Feeding potential of *Chrysoperla carnea* (Neuroptera: Chrysopidae) of different stages of citrus mealy bug, *Planococcus citri* (Hemiptera: Pseudococcidae). *Crop Research,* 20(1), pp. 126-129.

- Mancini, F. et al., 2005. Acute pesticide poisoning among female and male cotton growers in India. *International Journal of Occupational and Environmental Health* , 11(3), p.221–232.

- Mangat, I.S., Gill, K.S. & Arora, R., 1998. Adoption status of IPM in American cotton in Punjab. *Indian Journal of Ecology,* 25(1), pp.50-54.

- Maniyar, R.A., Ahmed, R.N. & David, M., 2011. Monocrotophos: Toxicity evaluation and respiratory responses of Cyprinuscarpio (Linnaeus). *Recent Research in Science and Technology*, 3(1), pp. 51-54.

- Mansour, R., Lebdi, K. G. & Rezgui, S., 2010. Imidacloprid applied through drip irrigation as a new promising alternative to control mealybugs in Tunisian vineyards. *Journal of Plant Protection Research*, 50 (3), pp. 314-319.

- Mansour, R., Suma, P., Mazzeo, G., lebdi, K.G. & Russa, A., 2011. Evaluating side effects of newer insecticides on the vine mealybug parasitoid *Anagyrus* sp. near pseudococci, with implications for integrated pest management in vineyards. *Phytoparasitica*, 39(4), pp. 369-376.

- Meyerdirk, D.E. & Kauffman, W.C., 2001. Status on the development of a biological control program for *Paracoccus marginatus* Williams, papaya mealybug. Internal USDA, APHIS, PPQ Report.

- Mgocheki, N. & Addison, P., 2009. Effect of contact pesticides on vine mealybug parasitoids, *Anagyrus* sp. near *Pseudococci* (Girault) and *Coccidoxenoides perminutus* (Timberlake) (Hymenoptera: Encyrtidae). *South African Journal of Enology and Viticulture,* 30(2), pp.110-116.

- Miller, D.R. et al., 2007. *Scale Insects Identification Tools for Species of Quarantine Significance.* Guide. Washington: ARS Press Systematic Entomology Laboratory ARS,USDA.

- Millar, J. G., Midland, S. L., Mcelfresh, J. S. & Daane, M. K., 2005. (2,3,4,4-Tetramethyl cyclopentyl) methyl acetate, A sex pheromone from obscure mealybug: first example of a new structure class of monoterpens. *Journal of Chemical ecology*, 31 (12), pp. 2999-3005.

- Mishra, A. & Kumar, D., 2006. Ant community variation in urban and agricultural ecosystems in Vadodara district (Gujarat state), western India. *Asian Myrmecology,* 2, pp. 85-93.

- Mishra, D., Shukla, A.K., Dixit, A.K. & Singh, K., 2006. Insecticidal activity of vegetable oils against Mustard aphid, Lipaphis erysimi Kalt under field condition. *Journal of Oleo Science,* 55(5), pp.227-31.

- Mukanga, M., Deedat, Y. & Mwangala, F.S., 2010 Toxic effect of five plant extract against larger grain borer, *Prostephanus truncates. African Journal of Agricultural Research,* 5 (24), pp. 3369-3378.

- Muniappan, R., Meyerdirk, D.E., Sengebau, F.M., Berringer, D.D. & Reddy, G.V.P., 2006. Classical biological control of papaya mealybug *Paeacoccus marginatus* (Hemiptera: Pseudoccoidae) in the Republic of Palau. *Florida Entomologist,* 89(2), pp. 212-217.

- Nagrare, V.S., Kranthi, S., Biradar, V.K., Zade, N.N., Sangode, V., Kakde, G., Shukla, R.M., Shivare, D., Khadi, B.M. & Kranthi, K.R., 2009. Widespread infestation of the exotic mealybug species *Phenacoccus solenopsis* (Tinsley) (Hemiptera: Pseudococcidae) on cotton in India. *Bulletin of Entomological Research,* 99(6), pp. 537-41.

- Naidu, K.B., 2008. *Diversity, ecology and conservation of insect: a habitat approach.* PhD Thesis. Vadodara: The M.S. University of Baroda.

- Nandagopal, V., 2006. *Commercialisation of pheromone research and their application in Indian agriculture.* [Online] (1.7) Available at: HYPERLINK http://www.techno-preneur.net/information-desk/sciencetechmagazine/2006/dec06/Commercializat ion.pdf [Accessed 6 Augustus 2010].

- Naraiand, Y. & Murai, T., 2002.Individual rearing of the Japanese mealybug, *Planococcus kraunhiae* (Kuwana) (Homoptera: Pseudococcidae) on germinated broad bean seeds. *Applied Entomology and Zoology*, 37 (2), pp. 295-298.

- Narashimahan, S., 1995. Status of application of pheromone technology in India. In., *Proc. of the Indo-British workshop on current approaches to pheromone technology.* 1995.

- Ness, J. H. & Bronstein, J. L., 2004. The effect of invasive ants on prospective ant mutualists. *Biological Invasions*, 6(4), pp. 445-461.

- Nesbitt, B. F., Beevor, P. S., Hall, D. R., Lester, R. & Dyck, V. A., 1975. Identification of sex pheromone of the moth, *Chilo suppresalis. Journal of Insect Physiology,* 21(12), 1883-1886.

- Nesbitt, B. F., Beevor, P. S., Hall, D. R., Lester, R. & Dyck, V. A., 1978. Identification of female Sex pheromones of purple stem borer, *Sesamia inferens. Journal of Insect Biochemistry*, 6(1), 105-107.

- Nesbitt, B.F., Beevor, P. S., Hall, D.R., &Lester, R., 1979. Female sex pheromone components of the cotton boll worm, *Helicothis armigera. Journal of Insect Physiology,* 25(7), 535-541.

- Nesbitt, B.F., Beevor, P.S., Hall, D.R., & Lester, R., 1980. (Z)-9-hexadecenal, a minor component of the female sex pheromone of Helicoverpa armigera (Lepidoptera: Noctuidae). *Entomologia Experimentalis et Applicata*, 27(3), pp. 306-308.

- Nikam, N. D., Patel, B. H. & Korat, D. M., 2010. Biology of invasive mealy bug, *Phenacoccus solenopsis* Tinsley (Hemiptera: Pseudococcidae) on cotton *Karnataka Journal of Agricultural Science,* 23 (4), pp. 649-651.

- Nimbalkar, R.K., Shinde, S.S., Tawar, D.S. & Muley, S.P., 2009. Response of Cotton Bollworm Helicoverpa armigera (Hubner) (Lepidoptera: Noctuidae) to different insecticides in Maharashtra, India. *World Journal of Agricultural Sciences*, 5(2), pp.250-55.

- Oladimeji, A. & Kannik, M.A., 2010 Comparative studies on the efficacy of neem, basil leaf extract and synthetic insecticides, lambda-cyhalothrin against *Padagrica* Spp. on okra. *African Journal of Microbiology Research*, 4(1), pp. 33-37.

- Okigbo, R.N., Okeke, J.J. & Mada, N.C., 2010 Larvicidal effect of *Azadirachta indica*, *Ocimum gratissimum* and *Hyptis suaveolens* against mosquito larva. *Journal of Agricultural Technology*, 6 (4), pp. 703-719.

- Oparaeke, A.M., Dike, M.C. & Amatobi, C.I., 2005. Botanical pesticide mixtures for insect pest management on cowpea, *Vigna unguiculata* (L.) walp plants – 2. The pod borer, *Maruca vitrata* Fab. (Lepidoptera: *Pyralidae*) and pod sucking bug, *Clavigralla tomentosicollis* Stal (Heteroptera: *Coreidae*). *Agriculture Tropical and Subtropical*, 38(2), pp. 33-38.

- Padi, B., Adu-Acheampong, R. & Nkansah, A., 2000. Botanical pesticides for the control of cocoa capsids (Heteroptera: Miridae). In. *Proc. 13th Int. Cocoa Res. Conf, Kota Kinabalu*, Sabah, Malaysia.

- Pardeshi, M.K., Kumar, D. & Bhattacharya, A.K., 2010. Termite (Insecta: Isoptera) fauna of some Agricultural crops of Vadodara, Gujarat (India). *Records of the Zoological Survey of India*, 110(1), pp.47-59.

- Pompen, P.S. & Alves, C.B.M., 2005. The effect of urbanization on biodiversity and water quality in the Rio das Velhas Basin, Brazil. *American Fisheries Society Symposium*, 47, pp. 11-22.

- Prakash, A., Rao, J. & Nadagopal, V., 2008. Future of botanical pesticides in rice, wheat, pulses and vegetable pest management. *Journal of Biopesticides*, 1(2), pp.154-69.

- Preetha, G. et al., 2009. Toxicity of selected insecticides to Trichogramma chilonis: Assessing their safety in the rice ecosystem. *Phytoparastica* , 37(3), pp.209-15.

- Prishanthini, M. and Vinobaba, M. L., 2009. *The Phenococcus solenopsis*. Department of Zoology, Eastern University, Sri Lanka. http://www.dailynews.lk/ 2009/07/01/ fea30.asp. [Accessed 15 April 2011].

- Rabindra, R.J., 2005. *Current status of production and use of microbial pesticides in India and the way forward.* Technical Document. Bangalore: Crop Protection Research Programme DFID Project Directorate of Biological Control.

- Ranga Rao, G. V., Wightman, J. A. & Ranga Rao, D. V., 1991a. Monitoring *Spodoptera litura* (F) (Lepidoptera: Noctuidae) using sex attractant traps: Effects of trap height and time of the night on moth catch. *Insect Science and its Application*, 12(4): 443-447.

- Ranga Rao, G. V., Wightman, J. A. & Ranga Rao , D. V., 1991b . The development of a standard pheromone trapping procedure for *Spodoptera litura* (F) (Lepidoptera: noctuidae) population in groundnut (*Arachis hypogaea* L.) crop. *Tropical Pest Management*, 37: 37-40.

- Reena, Singh, S.K., Sinha, B.K. & Jamwa, B.S., 2009. Management of gram pod borer, Helicoverpa armigera (Hubner) by intercropping and monitoring through pheromone traps in chickpea. *Karnataka Journal of Agricultural Science*, 23(3-Spl. Issue), pp.524-26.

- Rosas-Garcia, N.M., 2009. Biopesticide production from Bacillus thuringiensis: An environmentally friendly alternative. *Recent Patent on Biotechnology*, 3(1), pp.28-36.

- Roy, B., Amin, R. & Uddin, M.N., 2005. Leaf extracts of Shiyalmutra (Blumealacera) as botanical insecticides against lesser grain borer and rice weevil. *Journal of Biological Sciences* , 5(2), pp.201-04.

- Sathyaseelan, V. & Bhaskaran, V., 2010. Efficacy of some native botanicals extract on the repellency property against the pink mealybug, *Maconellicoccus Hirsutus* (Green) in mulberry crops. *Recent Research in Science and Technology,* 2(10), pp. 35-38.

- Schnepf, E.N., Crickmore, J. & Van Rie, D., 1998. Bacillus thuringiensis and its pesticidal crystal proteins. *Microbiology and Molecular Biology Reviews*, 62(3), pp.775-806.

- Shanker, S., 2008. *Crop loss due to pest attack pegged at Rs 1.40 lakh cr.* [Online] Available at: HYPERLINK http://www.thehindubusinessline.in/2008/05/01/stories/2008050150581300.htm [Accessed 1 May 2011].

- Sharma, P.K. & Joshi, P.C., 2010. New Records of Coccinellid Beetles (Coccinellidae: Coleoptera) from District Dehradun, (Uttarakhand), India. *New York Science Journal*, 3, pp.112-20.

- Siliwal, M., 2000. *Taxonomic studies of spiders with special emphasis on their role in biological control of insect pests.*. PhD Thesis. Vadodara: The M. S. University of Baroda.

- Singhal, V., 2004. Biopesticides for sustainable agriculture: prospects and constraints. In N. Kaushik, ed. *Biopesticides in India.* New Delhi: All India Biotech Association 'Vipps Centre'. pp.31-40.

- Singh, R., 2011. Evaluation of some plant products from their oviposition deterrent properties against the Callosobruchus maculates (F.) on chick pea seeds. *International Journal of Pharmaceutical Studies and Research*, 2 (2), pp.25-28.

- Singh, B., Kanta, U., & Arora, R., 2011 Napier grasses (*Pennistum* sp.) as a trap crop in the management of *Chilo partellus* (Swinhoe). *Journal of Insect Science,* 24 (special issue), pp. 80-87.

- Stern, V.M., Smith, R.F., Vanden, B.R. & Hagen, K.S., 1959. The integration of chemical and biological control of spotted alfalfa aphid. The integrated control concept. *Hilgardia*, 29(2), pp.81-101.

- Styrsky, J. D. & Eubanks, M. D., 2007. Ecological consequences of interactions between ants and honeydew-producing insects. *Proceedings of Royal Society B: Biological Science*, 274 (1607), pp.151-164.

- Subramanian, A., Ohtake, M., Kunisue, T. & Tanabe, S., 2007. High levels of organochlorines in mothers' milk from Chennai (Madras) city, India. *Chemosphere* , 68(5), pp.928-39.

- Sugie, H. et al., 2008. Identification of a sex pheromone component of the Japanese mealybug, Planococcus kraunhiae (Kuwana). *Applied Entomology and Zoology*, 43(3), pp.369-75.

- Sunding, D. & Zivin, J., 2000. Insect population dynamics, Pesticide use and farm work health. *American Journal of Agricultural Economics,* 82(3), pp. 527-540.

- Tandon, P. & Sirohi, A., 2009 Laboratory assessment of repellent property of ethanolic extract of 4 plants against *Raphidopalpa foreicollis* Lucas. (Coleoptera: Chrysomeridae). *Journal of Sustainable Crop Product,* 4(2), pp. 1-5.

- Tanwar, R.K., Jeyakumar, P., Singh, A., Jafri, A.A. & Bambawale, O.M., 2011. Survey for cotton mealybug, *Phenacoccus solenopsis* (Tinsley) and its natural enemies. *Journal of Environmental Biology*, 32(3), pp. 381-384.

- Vennila, S. et al., 2010. *A treatise on mealybugs of Central Indian cotton production system.* Technical Bulletin. New Delhi: National Centre for Integrated pest Management.

- Virk, J.S., Joshi, N. & Kaur, R., 2011. Biological control of major crop pests: Current status and future prospects. In Dhawan, A.K. & Arora, R., eds. *Souvenir of 3rd Congress on Insect Science on Pest Management for Food Security and Environment Health.* Ludhiana, 2011. Indian Society for the Advancement of Insect Science, Department of Entomology, PAU.

- Wahab, S., 2004. The Department of Biotechnology initiates towards the development and use of biopesticides in India. In N. Kaushik, ed. *Biopesticides for sustainable agriculture: prospects and constraints.* New Delhi: TERI Press. pp.73-90.

- Walton, V. M. & Pringle, K. L., 1999. Effect of pesticides used on table grapes on the mealybug parasitoids *Coccidoxenoides peregrinus* (Timberlake) (Hymenopter: Encyrtidae). *South African Journal of Enology and Viticulture*, 20(1), pp. 31-34.

- Wang, Y., Watson, G. W. & Zhang, R., 2010. The potential distribution of an invasive mealybug *Phenacoccus solenopsis* and its threat to cotton in Asia. *Agricultural and Forest Entomology*, 12(4), pp. 403-416.

- Warburton, H., 2004. Pheromone products in South Asia: What are the issues facing commercial suppliers of these products? In Cork, A..J.P.K..N.S., ed. *Proceedings of 'Enabling Small and Medium Enterprises to Promote Pheromone Ba.* Banglore, 2004. Crop Protection Research programme DIFD.

- Zhang, A., Amalin, D., Shirali, S., Serrane, M. S., Franque, R. A., Oliver, J. E., Klum, J. A., Aldrich, J. R., Meyerdirk, D. E. & Lapointe, S. L., 2004. Sex pheromone of the pink hibiscus mealybug, *Macanellicocus hirsutus* contains an unusual Cyclobutanoid monoterpens. *PNAS*, 101 (26), pp. 9601-9606.

- Zhang, A. & Amalin, D., 2005. Sex Pheromone of the Female Pink Hibiscus Mealybug, *Maconellicoccus hirsutus* (Green) (Homoptera: Pseudococcidae): Biological Activity Evaluation. *Environmental Entomology*, 34(2), pp. 264-270.