

**BIBLIOGRAPHY**

---

- Abdel, R.S., Belal, M.H. and Gupta, G. (1991) : Photosynthesis inhibition of Soybean leaves by insecticides. J. Environmental Pollution. 74 (3) : 245 - 250
- Adamson, I. and Abigor, R. (1980). Transformation associated with catecholase in Dioscorea alata during storage. Phytochemistry, 19 : 1593 - 1595.
- Arnon, D.I. (1949) : Copper enzymes in isolated chloro plast. Polyphenol oxidase in Beta vulgaris plant physiol. 24 : 1 -15.
- Atkinson, M.R., Findlay, G.P., Hope, A. B. ; Pitman, M.G.; Saddler, H.D.W. and West, K.R. (1967) : Salt regulation in mangroves Rhizophora mucronata Lam. and Aegialitis annulata R. Br. Aust. J. Biol. Sci. 20 : 589-599.
- Backman, P.A. and Jacobsen (1992) : Soybean disease management : Chemical and biological control in temperate regions. In : Pest Management in Soybean (Eds. L.G.Copping, M.B.Green & R.T.Rees) Pb. Elsevier Applied Science. pp. 155-163.
- Bhatanagar, S.P. and S.P.Tiwari (1995) : Technology for increasing soybean production in India. Pb. NRC for Soybean, ICAR, Indore.
- Bi, J.L. Felton, G.W., Mueller, A.J. (1994) : Induced resistance in Soybean to Helicoverpazea : role of plant protein quality. Journal of Chemical ecology \*USA). 20 (1) : 183 - 198.
- Brisson, L.F.; Tenhaken, R.; Lamb. C.; (1994) : Function of Oxidative cross linking of all wall structural proteins in plant disease resistance. Plant cell 6 (12) : 1703-1712.

- Camhffri, P.; Bowyer, J.R. and Mcneh, P.H. (1987) : Herbicides affecting chloroplast functions. Sehrift fiir Naturforschung Biosciences, 42 (6) : 829-833.
- Challice, J.S. and Williams, A.H. (1970) : A comparative biochemical study of phenolase specificity in Malus, Pyrus and other plants. Phytochemistry, 9 : 1261-1269.
- Chen, Yi; Luan - Xiaoyan and Huang - Chengyun (1993) : Analysis of peroxidase and esterase isoenzyme in Soybean varieties with the different level of resistance to viruses and their F1 generation : Soybean Science (China) 12 (1) : 30 - 36.
- Chen, H.M.; Muramoto, K. and Yamuchi, F. (1995) : Structural analysis of untioxidative peptides from Soybean beta - conglycinin. Journal of agricultural and food chemistry, 45 (3) : 574 - 578.
- Crafts-brander, S.J.(1992): Phosphorus nutrition influence on starch and sucrose accumulation, and activities of ADP-glucose pyrophosphorylase and sucrose-phosphate synthatase during the grain filling period in soybean. Plant Phisiol. 93(3) : 1133-1138.
- Chung, K.W. and Ju J. I. (1993) : Effect of fungicide benoram seed treatment on germination growth and yield in summer type soybean : Korean J. of Crop Science, 38 (2) : 166-173.
- Copping, L.G.; Green, M.B. and Recs, R.T. (1992) : Pest management in Soybean. Pb. Elsevier Applied Science, London.

- Djekoun, A.; Planchon, C. (1992) : Stomatal conductance, Photosynthesis and acetylene reduction rate in Soybean : Canadian Jour of Plant Sci., 72 (2) : 383-390.
- Deng, R.F. (1990) : Effect of Mo, W and Cr on nitrogen fixation of Soybean nodules and activity of nitrate reductase. Plant physiol. Comm., 1 : 37-39.
- Ebel, J.; Casio, E.G.; Frey, T. and Mord, A. (1990) : Stimulation of the phytoalexin defence response in Soybean by a fungal pathogen and fungal glucan. 15. Journees internationales group polyphenols. Strasbourg (France) 9-11.
- Edens, R.M.; Anand, S.C.; Bolla. R.I. (1995) : Enzymes of the phenylpropanoid pathway in Soybean infected with Mebiodgyne incognita or Heterodera glycines J. of Nematogoy 27 (3) : 292-303.
- Elden, T.C. and Kenworthy, W.J. (1995) : Physiological responses of an insect resistant Soybean line to light and nutrient stress. Journal of economic entomology, BB(2), 430-436.
- Estarbrook, E.M.; Sengupta - Gopalan, C. (1991): Differential expression of phenylalanine ammonia-lyase and chalcone synthase during soybean nodule development : The plant cell (USA), 3(3) 299 - 308.
- Erickson, R.O., Michelini, F.J. : The plastochron index, - Amer. J. Bot. 44 : 297 - 305.
- Felton, G.W.; Summers, C.B. (1993) : Potential role of ascorbate oxidase as a plant defense protein against insect herebivory. Journal of Chemical ecology (U.S.A.) 19(7) : 1553 - 1568.

- Folin, O. and Denis, W. (1915): A colorimetric method for the determination of phenols (and phenol derivatives) in urine. *J. Biol. Chem.*, 22: 305-308.
- Funderburk, J., Marunaik, J.; Boucias, D. and Garcia-Canedo, A. (1992) : Efficacy of Baculoviruses and their impact on pest management programs. *Post Management in Soybean* (Eds. L.G. Copping, M.B. Green and R.T. Rees), Pb. Elsevier Applied Science, London PP. 88-97
- Gianfagna, T.J.; Lawton, M.A. (1995) : Specific activation of Soybean defence gene by the phosphototein phosphatase inhibitor okadaic acid *plant science* (Limeric) 109(2) : 165-170.
- Glass, A.D.M. and B.A. Bohm (1969) : The accumulation of cinnamic and benzoic acid derivatives in Pteridium aquilinum and Athyrium filix-femina, *Phytochem.* 8:371-377.
- Goodwin, T.W. (1976): Distribution of carotenoids. In : *Chemistry and Biochemistry of plant Pigments*. Vol. 1 (Ed. T.W. Goodwin) Pb. Academic Press, New York, London, PP. 225-261.
- Grahm, M.Y.; Graham, T.L. (1991) : Rapid accumulation of anionic Peroxidase and phenolic polymers in soybean cotyledon tissues following treatment with Phytophthora megasperma f. sp. Glycinea wall glaucan, : Plant Physiology (USA) 97 (4) : 1445-1455.
- Heckmann, M.O.; Drevan, J.J.; Saligo, P. and Salsac, L. (1989) : Effect of oxygen and malate on  $\text{NO}_3^-$  - inhibition of nitrogenase in soybean nodules : Plant Physio. (USA) 90 (1) : 224-229.

- Harborne, J.B. (1986) : The role of phytoalexins in natural plant resistance. Amer. Chem. Soc. Symp. Ser., 296 : 22 - 25.
- Hillis, W.E. and Swain, T. (1959) : The phenolic constituents of *Prunus domestica*, II. The analysis of tissues of victoria plum tree. J. Sci. Food Agric. 10 : 135 - 144.
- Hladik, J., Pancosk, P. and Sofrova, D. (1982) : The influence of carotenoids on conformation of chlorophyll protein compleerees isolated from the cyanobacterium *Plectonema boryanum*, absorption and circular dichroism study. Biochem. Biophys. Acta, 681 : 263-273.
- Insun. Ho; Frederick, E.P. and Richard, H.H. (1987) : Effect of head removal on leaf senescence of sunflower. Plant Physiol., 83 : 844-848.
- Iredale, S.E. and Smith, H. (1974). Properties of phenylalanine ammonialyase extracted from *Cucumis Sativus* hypocotyls, Phytochemistry, 13 : 575-583.
- Ito, M.F., Mascarenhas, H.A.A.; Tanka, M.A.S., Dudinas, C.; Tanka, R.T.; Gallo, P.B. and miranda. M.A.C. (1994) : Residual effects of potassium and liming on the incidence of *Phomopsis* spp. in soybean seeds. Rev. Plant Palhol., 73(12) :
- Janardhanan, K. (1992): Tricontanol promoted seed germination, seeding growth and chloroplast pigment content in leguminous crops. Advances in Plant Sciences. 5 (Special Issue): 290-295.
- Judel, G.K. (1972) : Peroxidase and catalase activity and the content of total phenols in the leaves of sunflowers as affected by copper and nitrogen deficiency. Z. Pflanzenernacher. Bod enke. 133 : 81-92.

- Kandpal, B.N. and Chandel, A.S. (1993) : Effect of gypsum pyrite as a source of sulphur on nitrogen fixation, dry matter yield and quality of soybean. India J. Agronomy. 38(1): 137-139.
- Kape, R., Parniske, M., Brandt, S.; Werner, D. (1992) : Isoliquiritigenin, a strong non gene and glyceollin resistance inducing flavonoid from soybean root exudate. Applied and environmental Microbiology (USA). 58(5) : 1705-1710.
- Kawale, B.R.; Kurundkar, B.P.; Thombre, P.A. (1989) : Effect of fungicide, insecticide, weedicide on emergence and yield of soybean (*Glycine max (L) Merrl*) : Oil seeds research. 6 (2) : 357-359.
- Khan A. (1988) : Zinc in soybeans. chemical nature and bioavailability. Dissertation abstracts International B Sciences and Engineering. 50 (5) : 1623-1624.
- Kosuge, T. (1969) : The role of phenolics in host response to infection. Ann. Rev. Phytopath. 7; 195-222.
- Lee, T., T.A.L. Starratt and J.J. Jevrikar (1982) : Regulation of enzymic oxidation of IAA by phenols : Structure - activity relationships. Phytochemistry, 21(3) : 517-524.
- Lee, Y.S.; Jin, Y.M.; and Im, J.N. (1989) : Effect of photosynthetically active radiation and leaf water potential on stomatal diffusive resistance of Soybeans under the field conditions : Research reports of the rural development administration soil and fertilizer. 31 (3) : 22-26

- Leubner - Metzger, G.; Amrhein, N. (1994) : Phenylalanine analogues. Potent inhibitors of phenylalanine ammonia-lyase are weak inhibitors of phenylalanine-tRNA synthetases. *Zeitschrift fuer Naturforschung Section C Biosciences*. 49 (11-12) : 781 - 790.
- Li, Y.C. and Gupta, G. (1993) : Photosynthetic changes in Soybean with and without nitrogen and increased CO<sub>2</sub>. *Plant Science*, 89 (1) : 1-4.
- Lowry D.H., Rosenbrough N.J., Fair, A.L. and Randall, R.J. , *J. Biol. Chem.*, 195, 193, 265.
- Mahadevan, A. (1979) : Biochemical aspects of plant disease resistance. *Biochem. Rev.*, 69 : 51-66.
- Mahadevan, A. and Sridhar, R. (1982) : *Methods in physiological plant pathology* (II Ed.) Pb. Sivakami, Indra Nagar, Madras.
- Mayfield, S.P.; Nelson, T. and Taylor, W.C. (1986) : The fate of chloroplast proteins during photooxidation in carotenoid, - deficient maize leaves. *Plant Physiol.*, 82 : 760 - 764.
- Mehrotra R.S. (1980),: *Plant pathology*, Pb. Tata McGraw-Hill, New Delhi.
- Morton, H.V. (1992) : Fungicides as part of an Integrated system in the management of Soybean Diseases. In : *Pest Management in Soybean* (Eds. L.G. Copping, M.B. Green and R.T. Rees) Pb. Elsevier Applied Science, London, PP. 232-241.
- Narayanan, A.; Raman, E.V. and Reddy, G.L. (1993): Iron deficiency symptom of food legumes in relation to manganese accumulation. *Plant Physiol. and Biochem.*, 19(2) : 85-87.



- Pardeshi, V.F.; Reddy, V.G. and Nalwandidar, P.K. (1989): Effect of different fungicides on seedling vigour and seed viability in soybean. Journal of Maharashtra Agriculture Universities. 14(1):33-36.
- Patil, V. (1995) : Kharip soybean cultivation. *Shetakari* (June - 95):29-34.
- Patil, T.M. and Hegde B.A. (1983):  $^{13}\text{C}$ -Fractionation and Photosynthetic Enzymes in Relation to plastochrom Index of *parthenum hysteriphorus* L. *Photosynthetica* 17(4); 566-571.
- Pedigo, L.P.(1992) : Integrating preventive and therapeutic tactics in soybean insect management. In : Pest management in Soybean (Eds. L.G. Copping, M.B. Green and R.T. Rees). Pb. Elsevier Applied Science, London, PP. 10-19.
- Pfthgrfw, W.G.; Hesrftth, J.D. and Pfters, D.B. (1990): CO<sub>2</sub> saturated photosynthesis as affected by phosphate stress. *Photosynthetica*, 24(2):209-216.
- Pourplanche, C.; Lambert, C.; Berjot, M.; Marx. J.; Chopard. C.; Alix. A.J.P.; Larreta - Garde, V. (1994) : Conformational Changes of Lipoxigenase (Lox) in modified Enviroments - Soybean Lox type - 1. J. of Biological Chemistry. 269(50) : 31585 - 31591.
- Purukayastha, R.P.; Ghosh, S. (1992): Heavy metal salt inducing disease resistance and altering specific antigen of soybean leaves. International J. of Tropical plant Diseases. 10(1) : 131-142.
- Ramavat, K.G., S.D. Purohit and H.C. Arya (1980): Phenolics and oxidative enzymes in normal and gall tissues of *Gisekia*. Science and Culture. 46 : 111-112.

- Rao, E.V.S. Prakasa; Chandrasekhara, G., and Puttanna, K. (1983). Biomass accumulation and nutrient uptake pattern in coriander (Coriandrum sativum L.) Var. CIMPOS - 33. *Indian Perfum*, 27 : 168-170.
- Riggs, R.D.(1992): Management of Nematode problems on Soybean in the United States of America. In : Pest Management in Soybean (Eds. L.b. Copping, M.B. Green and R.T. Rees) Pb. Elsevier Applied Science, London, PP - 128-136.
- Romera, J.M. and Gomez, M. (1991) : Influence of manganese and different ambient temperatures on growth and manganese uptake in soybean (Glycine max (L) Merri.) *Suelo Y. Planta*, 1 (2) : 215-225.
- Rosa, L.M.; Dillenburg, L.R. and Forseth, I. N. (1991) : Responses of soybean leaf angle, photosynthesis and stomatal conductance of leaf and soil water potential : Annals of Bot, 67 (1) : 51-58.
- Roy, K.W.; Keith, B.C.; Andrews, C.H. (1994) : Resistance of hardseeded soybean lines to seed infection by *Phomopsis*, other fungi, and soybean mosaic virus. Canadian J. of Plant Pathology 16 (2) : 122-128.
- Sadashivam, S. and A. Manikam (1992) : Biochemical methods of Agricultural Sciences, Pb. Wiley Eastern Limited, New Delhi.
- Sasikumar, S.; Kandwamy, T.K. and Vidhyasekaran, P. (1979) : Physiology of tomato plants affected by leaf curl virus. Indian Phytopath, 32 (3) : 352-359.

- Sawada, S.; Usada, H. and Tsukui, T. (1992) : Participation of inorganic orthophosphate in regulation of the ribulose-1.5 bisphosphate carboxylase activity in response to change in photosynthetic sink balance. *Plant Cell Physiol.*, 33 (7) : 943-949.
- Schon, M.K. (1990) : Physiological roles of boron in higher plants. Dissertation abstracts International B. Sciences and Engineering. 50 (11) : 4828 B.
- Shetty, G.P. (1971) : Physiology of growth and salt tolerance of plants, Ph.D Thesis, Shivaji University, Kolhapur, India.
- Soskic, M.; Manitasevic, J., Jakvljevic, M., Redzepovic, S. and Sikoro, S. (1991) : The effect of imazaquin on the content of photosynthetic pigments and nodulation of soybean. Zonost, Praksan Polijop rivedi i Prchrambenoj Tehnologiji 21 : 71-77.
- Srinivasan, N. (1933) : Accumulation of phenolics in leaves of area palm affected with yellow leaf disease. Indian phytopath, 36 (1) : 154-155.
- Sou, B.H., Wu, D.W. (1988) : The effect of spraying of phosphate on soybean leaf surface in the flowering and podding period. Acta Agriculture University Jilinensis, 10 (4) : 51-54.
- Stoinova, E. and Lilovd, T.T. (1991) : Effect of fusicoccin on photosynthesis, transpiration and stomatal state of soybean leaves : Soybean Abstract. 14 (4).
- Sundaresh, H.N. and Hiremath, P.C. (1993) : Effect of chemical seed treatment on germination and yield of soybean in Karnataka. Pesticides, 22.

- Tanaka, A. (1990) : Effect of soil hydraulic conductivity on transpiration rate of soybean. Bulle of the faculty of Agri., Saga Univ. No. 68 : 25-32.
- Tinker, P.B.H. (1979) : Uptake and consumption of soil nitrogen in relation to agronomic practice. In Nitrogen Assimilation of Plants. Eds. E.J. Hewitt and C.V. Cuttings. Academic Press, New York. pp. 101-122.
- Tetley, R.M. and Thimann, K.V. (1974) : The metabolism of oat leaves during senescence. I Respiration, carbohydrate metabolism and the action of cytokinins, Plant Physiol 54 : 294-303.
- Thimann, K.V.; Tetley, R.R. and Thanh, T.V. (1974) : The metabolism of oat leaves during senescence, II. Senescence in leaves attached to the plant. Plant Physiol. 54-859-862.
- Turkhede, A.B.; Khedekar, P.K. and Shinde V.U. (1991) : Effect of nitrogen and phosphorus on grain yield and quality of soybean varieties. PKV Res. Journal. 15 (2) : 117-119.
- Vidhyasekaran, P. and P. Durairaj (1973) : Role of auxin-phenol complex in shot-hole syndrome development in mango incited by Colletotrichum gloeosporioides. Indian Phytopath. 26 : 49-55.
- Wang, Z.B. and Yi, S.Q. (1991) : Effect of paclobutrazol (PP<sub>333</sub>) on agronomic and physiological characteristics of soybean. Soybean Science 10 (1) : 69-72.
- Williams, J.H. (1979) : The Physiology of groundnuts (Arachi hypogea L. Cv. Egret). 2. Nitrogen accumulation and distribution. Rhod. J. Agric. Res., 17 : 49-55.

- Woolhouse, H.W. (1967) : Aspects of the biology of ageing. Cambridge Univ. Press.  
634 PP. cf. Sacher, J.A. (1973) In : Senescence and Postharvest  
Physiology. Ann. Rev. Plant Physiol, 24 : 197-224.
- Ye. M.J.; Tang. W.F. and Pan, C.M. (1991) : The effect of molybdenum, boron, rare  
earth elements and multieffect trizoles on the botanical characters and  
yield of spring soybean. Zhejiang Nongye Kexue, 5 : 231-232.
- Yorinori, J.T. (1992) : Management of Foliar Fungal Diseases in Soybean in Brazil. In  
: Pest management in soybean (Eds. L.G. Copping, M.B. Green and R.T.  
Rees) Pb. Elsevier Applied Science, London, PP. 185-195.
- Zhuang - Bingchans; Xu-Bao and Lu-Qinhua (1988) : Distribution of superoxide  
dismutase in soybean leaves and seed of different nodes. Oil Crops of  
China (China), 3 : 25-28.
- Zhuang - Bingchang; Yue-Derong and Wang-Yunmin (1992) : Oil crops of China, 3 :  
18-20.