

- Aach H, Bode H, Robinson DG, Graebe JE (1997). *ent*-Kaurene synthase is located in proplastids of meristematic shoot tissues. *Planta*. 202:211–219.
- Abel, S., Nguyen, M.D., Chow, W. and Theologis, A. (1995). ASC4, a primary indoleacetic acid-responsive gene encoding 1 -aminocyclopropane-1-carboxylate synthase in Arabidopsis thaliana. Structural characterization, expression in Escherichia coli, and expression characteristics in response to auxin. J. Biol. Chem. 270: 19093-19099.
- Adedipe N.O. and Fletcher R.A. (1971). Retardation of leaf senescence by benzyladenine in bean plants in not dependant on mobilization. *Canadian Journal of Botany.*, 49: 59-61.
- Agarwala S.C. and Mehrotra N. K. (1977). Catalase and peroxidase in leaves or iron deficient plants. *Proceedings of The Indian Academy of Sciences* -Section B 86 (1): 55-60.
- Ahmad A & Hayat S (1999). Response of nitrate reductase to substituted indole acetic acids in pea seedlings. In: Srivastava GC, Singh K, Pal M (eds.), Plant Physiology for Sustainable Agriculture, Pointer Publishers, Jaipur, pp. 252-259.
- Ahmad A, Hayat S, Fariduddin Q & Ahmad I (2001). Photosynthetic efficiency of plants of Brassica junceae, treated with chloro substituted auxins. *Photosynthetica* **39**: 565-568.
- Aldana, M. E. (2005). Effect of phosphorus and potassium fertility on fruit quality and growth of tabasco pepper (*Capsicum frutescens*) in hydroponic culture. A Thesis Submitted to the Graduate Faculty of the Louisiana State University and Agricultural and Mechanical College.
- Anonymous (1846): Bougainvillea spectabilis, Paxtons. Bot. Mag. 12: 51.
- Arnon D. I. (1949): Cupper enzymes isolated chloroplasts: polyphenol oxidase in *Beta vulgaris*. *Plant Physiol.* 24: 1-15.
- Asraf F, Karim F, Rasul E (2002). Interactive effects of gibberellic acid (GA3) and salt stress on growth, ion accumulation and photosynthetic

capacity of two spring wheat (*Triticum aestivum* L.) cultivars differing in salt tolerance. *Plant Growth Regul.* 36:49-59.

- Austin R. B., Ford M. A. Blackwell, R. D. (1978). Relationship between nitrate reductase activity. Plant weight and nitrogen content in seedlings of *Triticum, Aegilops and Triticale. Ann. Bot.* 42: 429-438.
- Aydin, N. and Kadioglu, A. (2001). Changes in the chemical composition, polyphenol oxidase and peroxidase activities during development and ripening of medlar fruits. *Bulg. J. Plant physiol.*, 27(3-4):85-92.
- Balasaraswati R., Sadashivam S., Ward M. and Walker J.M. (1998): An antiviral protein from Bougainvillea spectabilis roots: purification and characterization. *Phytochemistry* (Oxford) 47 (8): 1561-1565.
- Bangtsson, B. and Jenson, P. (1983). Uptake and distribution of Ca, Mg and K in Cucumber (*Cucumis sativus* cultiucila)of different age. *Plant Physiol*. 57(4): 428-434.
- Bansal G.L. and Nanda K.K. (1983): Growth and developmental studies of three bougainvillea cultivars during the annual growth cycle. J. Indian Bot. Soc. 62: 343-350.
- Barreiro, M. G, Quartin, V., Paula, A. and Campos, P. S. (2003) Influence of postharvest calcium treatments on Membrane lipids composition and quality of "bravo de Esmolfe" apples. *Maduraciión y Postt--Recollecciión de Fruttosy Horttalliizas. Biiblliiotteca de Ciienciias*,, Vol. I (12): 321-325.
- Basha, KSM and Rao, G. R. (1981). The effect of phosphorus and potassium deficiency on CO2 fixation and translocation in groundnut (*Arachis hypogaea* L.). J. Nuclear Agric. and Biol. 10(4):117-130.
- Beevars, L., Loveys, B., Pearson, J. A. and Wareing, P. F. (1970). Phytochrome hormonal control of expansion and greening of etiolated wheat leaves. *Planta*, 90:286-294.
- Bharti M. (1999): Effect of plant extract and chemical inhibitors on cucumber mosaic virus of brinjal. *Journal of Mycology and Plant Pathology*, 29 (1): 57-60.

- Bhivare, Y. N. (1984). Physiological studies in pulses. A Ph. D. thesis submitted to Shivaji University, Kolhapur.
- Biswal, U. C. and Mohanty, P. (1976). Ageing induced changes in photosynthetic electron transport of detached barley leaves. *Plant and Cell Physiol.*, 17: 323-331.
- Black C. C. and Mayne, B. C. (1970). P-700 activity and chlorophyll concentration of plants with different photosynthetic carbon dioxide fixation cycles. *Plant Physiology*, 45:738.
- Bloksma, J. and Jansonius, P.J. (2000). Improving calcium uptake in an 'organic' way. LVWO Weinsberg article www.louisbolk.nl
- Brady, C. J. (1973). In Chemistry and Biochemistry of Herbage, (ed.) G. W. Butler, R. W. BaileyLondon Academic, Vol. 2:317-51.
- Breda, C., Buffard, D., Van Huystee, R.B. and Esnault, R. (1993). Differential expression of two peanut peroxidase c-DNA clones in peanut plants and cells in suspension culture in response to stress. *Plant Cell Rep.*, **12** b:268-272.
- Briat, J. F. and Lobreaux, S. (1998). Iron storage and ferritin in plants. *Metal Ions Biolog Systems*; 35:563–583.
- Brouwer, R. (1966). In The Growth of Cereals and Grasses, (ed.) F. L. Milthorpe, D. J. Irvins, London: Butterworth pp. 153-66.
- Brownwell, P. F. and Crossland, C. J. (1972). The requirement for sodium as a micronutrient by species having the C4 dicarboxylic photosynthetic pathway. *Plant Physiol.* **49**: 794-797.
- Cares, M., Rudelshaim, P., Van Onkelen, H. and Horemans, H. (1985). Effect of heat stress on photosynthetic activity and chloroplast ultrastructure in correlation with endogenous cytokinin concentration in maize seedlings. *Plant* and Cell Physiology. 26:47-52.
- Casano, L.M., Martin, M. and Sabater, B. (1994) Sensitivity of superoxide dismutase transcript levels and activities to oxidative stress is lower in maturesenescent than in young barley leaves. *Plant Physiol.* 106: 1033-1039.

- Chandlee, J.M. (2001). Current molecular understanding of the genetically programmed process of leaf senescence. *Physiol. Plant.*, **113**(1): 1-8.
- Chapin, III E. S. (1980). The mineral nutrition of wild plants. Ann& Rev. Ecol. Syst. 11:233-60
- Chen, T. M., Brown, R. H. and Black, C. C. Jr. (1969). Photosynthetic activity of chloroplasts isolated from Bermuda grass (*Cyanodon dactylon L.*) a species with a high photosynthetic capacity. *Plant Physiol.*, 44:649.
- Cheng, E. W. and Breen, P. J. (1991). Activity of PAL and concentrations of anthocyanins and phenolics in developing straw berry fruit. J.Am. Soc. of Hort. Sci. 117: 946-950.
- Choe, N. T. and Thimann, K. V. (1975). The Metabolism of oat leaves during senescence. III. The senescence of isolated chloroplast. *Plant Physiol.* 55: 828-834.
- Cooke, T. (1799): Flora of Bombay presidency.
- Coseteng, M. Y. and Lee, C. Y. (1987). Changes in apple polyphenol oxidase and polyphenol concentration in relation to degree of browning. *J. Food Sci.* 52:985-988.
- Crowell, D.N. and Amasino, R.M. (1991) Induction of specific mRNAs in cultured soybean cells during cytokinin or auxin starvation. *Plant Physiol.* 95: 711-715.
- Curie, C. and Briat, J. F. (2003). Iron transport and signaling in plants. Ann Rev Plant Biol :183-206.
- Dai Bi Sheng (2007): Effect of carbendazim plus thiram and triadimefon plus ethylicin on the survival rate of three king softwood cuttings. *Huazhong. Shifan. Daxue.* Xuebao (Ziran. Kexue. Ban) 41 (1): 111-116.
- Davies PJ (1995). Plant Hormones: Physiology, Biochemistry and Molecular Biology. (Dordrecht, The Netherlands: Kluwer Academic Publishers). 2

- Davies, M. E. (1972). Effect of auxin on polyphenol accumulation and the development of PAL activity in darkgrown suspension cultures of paul's scarlet rose. *Planta*, 104(1): 66-77.
- De Jussieu A. L. (1789): Bou8gainvellea. Genera Plantarum, PP-91.
- Deshpande, R. G. and Nimbalkar, J. D. (1981). Photosynthesis and nutrient levels in senescent leaves of pigeon pea (*Cajanus cajan*). *Indian J. Plant Physiol.*24(4): 345-351.
- Dezsi L. (1975): Changes of glycolic acid oxidase and peroxidase activity in maize leaves during the vegetation period. *Acta. Agron. Sci. Hung.* 24: 305-313.
- Dyer T.A. and Osborne D.J. (1971): Leaf Nucleic acids. II Metabolism during senescence and effect of kinetin. *Journal of Experimental Botany*. 22: 552-560.
- Elkinaway M. (1984): Hormonal changes associated with leaf senescence in cotton (G. barbadense). *Plant Physiol.*, **62** (4): 593-598.
- Epistein, E. and Hegman, C.A. (1952). A kinetic study of the absorption of alkali cations by barley roots. *Plant Physiol*. 27:457-474.
- Ferguson, L. R. (2000), Role of polyphenols in genomic stability. Amsterdam: *Online Elsevier*,
- Fletcher R.A. (1969): Retardation of leaf senescence by benzyladenine in intact bean plants. *Planta*. **89**: 1-8.
- Fletcher R.A. and Osborne D.J. (1966): Regulation of protein and nucleic acid synthesis by gibberellins during leaf senescence. Nature (London) 2007: 1176-1177.
- Fletcher, R. A. and Mc Cullagh, D. (1971). Cytokinin induced chlorophyll formation in cucumber cotyledons. *Planta*, **101**(1): 88-90.
- Folin O. and Denis W. (1915): A calorimetric estimation of phenol and phenol derivatives in urine. *J. Biol. Chem.*, **22**: 305-308.

- Gan S, Amasino R M. 1997. Making sense of senescence: Molecular genetic regulation and manipulation of leaf senescence. *Plant Physiology* 113, 313-319.
- Gasper, T. Panel, C. and Greppin, H. (1982). Peroxodases 1970-1980. Their Biochemical and physiological role in higher plants. Pub. University of Geneva, Switzerland.
- Giannopolitis C. N. and Ries S. K. (1977): Superoxide dismutase 1. occurrence in higher plants. *Plant Physiol.* **59**: 309-314.
- Gilani A.H., janbaz K.H. and Shah B. H. (1998): Esculetin prevents liver damage induced by paracetamol and CCLA. *Pharmacological Research*, 37 (1): 31-35.
- Gilman E.F. (1999): Bougainvillea spp. Fact sheets FPS-70 series of Environmental Horticulture department. University of Florida.
- Goldthwaite J.J. and Leatsch W.M. (1967): Regulation of senescence in bean leaf discs by light chemical growth regulators. *Plant Physiol.* **42**: 17571732.
- Goodwin P.B., Gollnow B.I. and Letham D.S. (1978): Phytohormones and growth correlations. Phytohormones and related compounds – a comprehensive treatise. Vol. II: 215-249.
- Grime, J. P. (1977). Evidence for the existence of three primary strategies in plants and its relevance to ecological and evolutionary theory. *Am. Nat.* 111:1169-94
- Grime, J. P. 1979. Plant Strategies and Vegetation Processes. NY: Wiley.222 pp.
- Grover, A. and Sinha, S. K. (1985). Senescence of detached leaves of pigeon pea and chick pea. Regulation by developing pods. *Physiol. Plant.*, 65:503-517.
- Guereo, M. G., Vega, J. M. and Losada, M. (1981). The assimilation of nitrate reducing system and its regulation. *Ann. Rev. Plant Physiol.* **32**:169-204.

- Harel, E. (1979). Polyphenol oxidase in plants. *Phytochrmistry*, 18:193-215.
- Hasegawa, P.M., Bressan R.A., Zhu J.-K., and Bohnert, H.J. (2000). Plant cellular and molecular responses to high salinity. *Ann. Rev. Plant Physiol. Plant Mol. Biol.* 51: 463–499.
- Hawk P.B., Oser B.L. and Summerson W.H. (1948): Rapid quantitative determination of eight mineral elements in plant tissue vy systematic procedure involving use of flame photometer. *Soil. Sci.* 66: 459-466.
- Holttum R. E. (1955): The cultivated Bougainvilleas. II. B X buttaqind and its varities and hybrids. Malay. Aric. Hort. Ass. Mag. 12 (3) :2-11.
- Hrvoje Lepedu, Ivna tolfa,a Sandra Radi, Mirna Jurkovi, Perica,b Branka Pevalek-Kozlina,b and Vera Cesara(2008) Photosynthetic Electron Transport and Superoxide Dismutase Activity during Natural Senescence of Maple Leaves. Croatica Chemica Acta., CCACAA 81 (1):97-103
- Hyder, S. Z. (1971). Seasonal changes in the salt content of developing leaves on citrus seedling nucleus. 8(3): 113-116.
- Jacob-Wilk, D., Holland, D. Goldshmidt, E. E., Riov, J. and Eyal, Y. (1999). Chlorophyll breakdown by chlorophyllase : Isolation and functional expression of the Chlase gene from ethylene treated citrus fruit and its regulation during development. *The Plant Journal*, **20** (6): 653-661.
- Jamale, B. B. and Joshi, G. V. (1976). Physiological studies in senescent leaves of mangroves. *Indian J. Exp. Biol.*, 14: 697-699.
- Jamale, B. B. and Joshi, G. V. (1978). Effect of age on mineral constituents, polyphenols, polyphenol oxidase and peroxidase in leaves of mngroves. *Indian J. Exp. Biol.*, 16(1): 117-119.
- Jaworski E.G. (1971): Nitrate reductase assay in intact plant tissues. Biochem. Biophys. Res. Commun. 43: 1274-1279.
- Joshi, G. V. and Mishra, S. D. (1970). Photosynthesis and mineral metabolism in senescent leaves of *Clerodendron inerme* Gaertn.*Indian J. Exp. Biol.* 8: 41-43.

- Kadioglu, A. and Yavru, I. (1998). Changes in the chemical content and polyphenol oxidase activity during development and ripening of cherry laurel. *Phyton*,(Horn, Austria) 37:241-251.
- Khan M G & Srivastava H S (1998). Changes in growth and nitrogen assimilation in maize plants induced by NaCl and growth regulators. *Biol Plantarum.* 41: 93-99.
- Kirk J.O.T. and Allen R. L. (1965): Dependance of Chloroplast pigment synthesis on protein synthesis. Effect of actidione. Archh. Biochem. Biophys. Res. Commun. 1: 523-530.
- Knypl IS & Krystyna M (1979). Light and molybdenum requirements for substrate induction of nitrate reductase in cotyledons of Lactuca sativa. *Biol Plant* 21: 214-219.
- Kumar, S. (1987). Changes in phenolic content and polyphenol oxidase activity in developing peach (*Prunus persica* Batsch) fruits.*Plant Physiol. Biochem.* 14:131-135.
- Kurepa, J., Herouart, D., Van Montagu, M., and D.Inze (1997) Differential Expression of CuZn- and Fe-Superoxide Dismutase Genes of Tobacco during Development, Oxidative Stress, and Hormonal Treatments. *Plant Cell Physiol.* 38(4): 463-470.
- Lamattina L., Anchovem V., Conde R.D. and Lazica R.P. (1987): Anatification of kinetin effect on protein synthesis and degradation in wheat leaves. *Plant Physiology* 83: 487-499.
- Lambers, H., Chapin III, S. F. and Pons, T. L., (1998). Plant Physiological Ecology.Springer-Verlag, New York.
- Langer, R. H. M. 1966. See Ref. 28, pp.213-26
  - Leopold A.C. (1961): Senescence in plant development. Science 134: 1727-1732.
  - Levitt J. (1972): Responses of plant to environmental stresses. Academic Press. New York and London.
  - Lewington R. J. and Simon, E. W. (1969). The effect of light on senescence of detached cucumber cotyledons. J. Exp. Bot., 20: 138-144.

- Lorenzo, L., Lezica R.P, and Conde R.D. (1985): Protein metabolism in sensescing wheat leaves. Determination of synthesis of degradation rates and their effects on protein loss. *Plant Physiol.*, 77: 587-590.
- Lyons J.M. (1973): Chilling injury in plants. Annual Review of Plant Physiology. 24: 445-466.
- Maehly A.C. (1954): Methods in biochemical analysis (Eds. Glick D.) (Publ.) Interscience Publishers Inc. New York. Pp – 385-386.
- Mahadevan A. and Sridhar R. (1982): methods in physiological plant pathology (II Eds.) (Publ.) Sivakami Indra Nagar, Madras.
- Makino A., Mae T. and Ohira K. (1984): relation between nitrogen and ribulose1,5-biphosphate carboxylase in rice leaves from emergence through senescence. *Plant and Cell Physiology*, 25: 429-437.
- Marschner, H., (1995). Mineral nutrition of higher plants. Academic Press Inc., New York, 887p.
- Mathew, A. G. and Parpia, H.A.B. (1971). Food browning as a polyphenol reaction. *Adv. Food Res.* 19:75-145.
- Matile P. (1992): Chloroplant senescence In. Baker N. and Thomas H. Eds. Crop. Photosynthesis: Spatial and temporal determinants, Amsterdam: *Elsevier*, 413-440.
- Matthews R.E.F. (1991): Disease symptoms and effects on metabolism. *Plant Virology* 3<sup>rd</sup> Eds. 380-422. Academic press. London.
- Mayfield, S.P. and Taylor, W.C. (1984) Carotenoid-deficient maize seedlings fail to accumulate light-harvesting chlorophyll *a/b* binding protein (LHCP) mRNA. *Eur. J. Biochem.* 144: 79-84.
- Mayfield, S.P. and Taylor, W.C. (1987) Chloroplast photooxidation inhibits the expression of a set of nuclear genes. *Mol. Gen. Genet.* **208**:309-314.
- McIntyre, G. I. (1977). In Integration of Activity in the Higher Plant, (ed.) Jennings, D. H. Cambridge: Cambridge Univ. Press. Soc. Exp. Biol. Symp. 31, pp. 251-73.
- Milthorpe, F. L. and Moorby, J. (1969). Vascular transport and its significance in plant growth. *Annu. Rev. Plant Physiol.*, **20**:117-138.

- Molisch, H., (1938). The Longevity of Plants. English translation. New York.
- Morris, G. (2000). Improving citrus fruit quality using Gibberellic Acid (GA).
  Dept. Agric. and Food Farmnote. No. 149.
- Mothes K. (1970): Uber grune Inseln. Leopoldina 15: 171-172.
- Mukhergee, D. and Rao, K.V.M. (1993). Alteration patterns on hill activity, peroxidase activity and sugars of piegon pea during maturation and senescence. *Indian J. Plant Physiol.*, **36**:13-16.
- Muyer, A. M. (1987). Polyphenol oxidases in plants. Recent Progress. PhytoChem. 26:11-20.
- Naidu, C. V. and Swamy, P. M. (1996). Seasonal variation in Ca, Mg, S and Na content of different plant parts in tropical deciduous tree species. *Indian J. Plant Physiol.*, New series 1 (1): 1-5.
- Naik B.I., Mehata K.K. and Srivastava S.K. (1976): Changes in polyamine levels on infection of plants by Cuscuta reflexa. Indian Journal of Biochemistry and Biophysics. 13 (3): 306-307.
- Nelson, N. (1944). A photometric adaptation of the Somogyi method for determination of glucose. J. Boil. Chem., 153:375-380.
- Nooden L. D. (1980): Senescence in the whole plants (Eds. Thimann K.V.) Senescence in plants, CRC press, Florida pp. 219-258.
- O'Neal, D. and Joy, K. W. (1974). Glutamine synthetase of pea leaves. Divalent cation effects, substrate specificity and other properties. *Plant Physiol.* 54:775-779.
- Oelmuller, R. and Mohr, H. (1986) Photooxidative destruction of chloroplasts and its consequences for expression of nuclear genes. *Planta* **167**: 106-113.
- Oelmuller, R., Levitan, I., Bergfeld, R., Rajasekhar, V.K. and Mohr, H. (1986) Expression of nuclear genes as affected by treatments acting on the plastids. *Planta* 168: 482-492.
- Ogawa, K., Kanematsu, S., Takabe, K. and Asada, K. (1995) Attachment of CuZn-superoxide dismutase to thylakoid membranes at the site of superoxide

generation (PSI) in spinach chloroplasts: detection by immunogold labeling after rapid freezing and substitution method. *Plant Cell Physiol.*, **36**: 565-573.

- Osborne D.J. (1962): Effect of kinetin on protein and nucleic acid metabolism in xanthium leaves during senescence. *Plant Physiology.* 37: 595-602.
- Ozga JA, Reinecke DM (1999). Interaction of 4-chloroindole-3-acetic acid and gibberellins in early pea fruit development. *Plant Growth Regul.* 27:33– 38.
- Pal, B. P. and Vishnu Swarup (1974): Bougainvilleas. Indian Council Of Agricultural Research, New Delhi India.
- Panigrahi, P. K. and Biswal, U. C. (1979). Ageing of chloroplast *in vitro* 1. quantitative analysis of the degradation of pigments, proteins and nucleic acids. *Plant and Cell Physiol.*, **20**(4): 775-780.
- Perez C, Garcia FP, Fernendez H, Revilla MA (2002). The levels of GA3 and GA20 may be associated with dormancy release in *Onopordum nervosum* seeds. *Plant Growth Regul.* 38:141-143.
- Perk, W. M. Kim, S. W. Ko, Y. H. and Yoon, K. E. (1989). Changes in peroxidase and polyphenol oxidase activities and in protein pattern in ripening pepper (*Capsicum annum*). *Korean Soc. Horticul*.7:142-143.
- Perl-Treves, R. and Galun, E. (1991). The tomato Cu-Zn superoxide dismutase genes are developmentally regulated and respond to ligsht and stress. Plant Mol. Biol. 17: 745-760.
- Pilet, P., Larechy, F. and Serhonkian, S. (1970). Interactions between peroxidase polyphenol oxidase and auxin oxidase. *Physiol. Plant.*, 23: 800-804.
- Pitman, M. G., Cram, W. J. 1977. See Ref. 104, pp. 391-424
  - Rane, M. R. (1987). Physiological studied of leaf senescence in groundnut (Arachis hypogaea L.). A M.Phil. dissertation submitted to Shivaji University, Kolhapur.

- Rane, M. R. (1991). Physiological studied of leaf senescence in groundnut (Arachis hypogaea L.). A Ph.D. thesis submitted to Shivaji University, Kolhapur.
- Reiss, C. and Beale, S. (1995). The external calcium requirement for light induction of chlorophyll accumulation its enhancement by red light and cytokinin pretreatments in excised etiolated cucumber cotyledons. *Planta*, 196(4):635-641.
- Richmond A.E. and Lang A. (1957): Effect of kinetin on protein content and survival of detached xanthium leaves. *Science* 125: 650-651.
- Roth-Bejerano N & Lips SH (1970). Hormonal regulation of nitrate reductase activity in leaves. *New Phytol.*, **69**: 165-169.
- Sacher J.A., Towers G.H.N. and Davies P.D. (1972). Effect of light and aging on enzyme particularly phenylalanine ammonialyase, in discs of storage tissue. *Phytochemistry*. 2: 2383-2391.
- Salunkhe, V. S. (1997). Senescence in *Ipomoea carnea*. A M. Phil. Dissertation submitted to Shivaji University, Kolhapur.
- Saroop, S.; Chanda, S. V. and Singh Y. (1999) Role of phytohormones in nitrate uptake and in vivo nitrate reductase activity of mustard cotyledons *Journal of plant nutrition*, 22,(8): 1279-1290.
- Saxena A. and Saxena D. K. (2002) Nitrate reductase activity and chlorophyll content in Sphagnum as affected by kinetin, glutathione and metals.*Indian Journal of Plant Physiology*, 7: 82-85
- Scholes J. D. and Farrar J.F. (1987): Development of symptoms of brown rust of barley in relation to the distribution of fungal mycelium, starch accumulation and localized changes in the concentration of chlorophyll. *New Phytologist.* **107**: 103-117.
- Senapati A.K. Das G.K. Ghosh T. and Christina A.J.M. (2006): A study on anti-inflammatory and hypoglycemic activity of Bougainvillea spectabilis. Indian *Journal of Natural Products*, 22 (2): 3-9.

- Sestak Z. (1985): Chlorophylls and carotenoids during leaf ontogeny. In Photosynthesis during leaf development. (Eds. Z. Sestak): 84-85.
- Shah S. H. (2008). Effects of Nitrogen Fertilisation on Nitrate Reductase Activity, Protein, and Oil Yields of Nigella sativaL. As Affected by Foliar GA3 Application. *Turk. J. Bot.* 32 :165-170R
- Shah S.T., Zamir R. Muhammad T. and Ali H. (2006). Mass propagation of Bougainvillea through shoot tip culture. *Pakistan Journal of Botany*, 38 (4): 953-959.
- Shanner D. L. and Boyer J.S. (1976): Nitrate reductase activity in maize (Zea mays) leaves. II Regulation by nitrate flux at low leaf water potential. *Plant Physiol.* 58: 505-509.
- Sharma V. (1980): Hill activity in chloroplasts from red pigmented corolla bracts and leaves. *Photosynthetica* (Prague) 14 (1): 79-82.
- Shaw M. (1963): The physiology and host parasite relations of the rusts. Annual Review of Phytopathology. 1: 259-294.
- Shibaoka H. and Thimann K.V. (1970): Antagonisms between kinetin and amino acids. Experiments on the mode of action of cytokinins. *Plant Physiology* 46: 212-220.
- Singh S., Letham D.S. and Palani L.M.S. (1992): Cytokinin biochemistry in relation to leaf senescence VIII. Traslocation, metabolism and biosynthesis of cytokinins in relation to sequential leaf senescence of tobacco. *Physiologia Plantarum* 86: 398-406.
- Smart, C. M. (1994). Gene expression during leaf senescence. New Phytol., 126: 419-448.
- Soni, S. L., Kaufman, P. B. and Bigelow, W. C. (1970). Electron microprobe analysis of the distribution of silicon in leaf epidermal cells of the oat plant. *Phytomorphology*, 20:350-363.
- Spachs (1841): Index Kewensis, Suppl. 9: 1931-1935.
- Specht, R. L., Groves, R. H. 1966. A comparison of the phosphorus nutrition of Australian heath plants and introduced economic plants. *Aust. J. Bot.***14**:201-21

- Srivastava S.K. and Krishnan P.S. (1962): An oxalic acid oxidase in the leaves of Bougainvillea spectabilis. *Journal of Biochemistry* **85**: 33-38.
- Stoddart J. L. and Thomas H. (1982): Leaf senescence, In. Boulter, D. and Parthier B. Eds. *Encyclopedia of plant physiology*, Vol. 14A, Springer-verlag, 592-636.
- Suelter, C. H. (1970). Enzymes activated by monovalent cation. Science, 168:789-795.
- Sugiyama, J., Nakyama, N. and Akazawa, T. (1968). Structure and function of chloroplast proteins-V. Homtropic effect of bi-carbonate in RUBPcarboxylase relation and the mechanism of activation by magnesium ions. *Arch. Biochem. Biophys.* 126: 734-745.
- Tan L.P. He J. and Lee S.K. (1999): Physiological response of certain ornamental plants to sludge and artificial topsoil derived from fly ash, sludge and rengam series subsoil, *Journal of Plant Nutrition*. 22 (6): 987-999.
- Taylor, I.B. (1991) Genetics of ABA synthesis. In : Abscisic Acid: Physiology and Biochemistry, (Environmental Plant Biology Series). Edited by Davies, W.J. and Jones, H.G. pp. 23-35. Bios Scientific Publishers, Oxford.
- Telfer A, Bollman KM, Poethig RS (1997). Phase change and the regulation of trichome distribution in *Arabidopsis thaliana*. Develop.124:645–654.
- Thimann K.V. and Satler S.O. (1979): Relation between leaf senescence and stomatal closure: senescence in light. Proceedings of National Academy Sciences. USA 76: 2295-2298.
- Thimann, K. V., Tetley, R. M. and Krivak, B. M. (1977). Metabolism of oat leaves during senescence. V. senescence in light. *Plant Physiol.*, **59**: 448-454.
- Thimann, K. V., Titley, R. R. and van Thanh, T. (1974). The metabolism of oat leaves during senescence. II senescence in leaves attached to the plant. *Plant Physiol.*, 54: 859-862.
- Thomas H. and Stoddart J.L (1980): Leaf senescence. *Annual Review of plant* physiology **31**: 83-111.

- Titus J.S. (1989): nitrogen recycling in the apple (Malus domestica Borkh). Annals of the science of forestry 46 (Suppl.): 654-659.
- Tollenaar M. and Daynard T.B. (1982): Effect of source-sink ratio on dry matter accumulation and leaf senescence of maize (*Zea mays*). *Can. J. Plant. Sci.*, 62 (4): 855-866.
- Toth, S.J., Prince, A. L., Wallace, A. and Mikkelsen, D. S. (1948). Rapid qualitative determination of eight mineral elements in plant tissues by systematic procedure involving use of flame photometer. *Soil Sci.*, **66**: 456-466.
- Tranvan, H., Troton, D. and Calvayrac, R. (1988). Morphological histological and lipid changes during adventitious budding in *Pinus pinaster* cultured cotyledons. *J. Exp. Bot.*, **39**:907-915.
- Trought M.C.J. and Drew M.C. (1980): the development of water logginhg damage in wheat seedlings (*Triticum, aestivum* L.) I. Shoot and root growth in relation to changes in the concentration of gases and solutes in the soil solution. *Plant and Soil.* 54: 77-94.
- Upadhey, A. B. (1986). Studies of physiological changes in leaf development.
  A Ph. D. thesis submitted to Shivaji University, Kolhapur.
- Vamos-Vigyazo, L. (1981). Polyphenol oxidase and peroxidase in fruits and vegetables. CRC Crit Rev. Food Sci. Nutr., 15:49-127.
- Venkatarayappa T., Fletcher R.A. and Thompson J.E. (198/4): Retardation and reversal of senescence in bean leaves by benzyladenine and decapitation. *Plant and Cell Physiology*. **25**: 407418.
- Walker, D. I. and McComb, A. J. (1988). Seasonal variation in the production, biomass and nutrient status of *Amphibolis antarctica* (Labill.) Sonder ex Aschers. and Posidom'a australisf. in Shark Bay, Western Australia. *Aquat. Bot.* 31:259-275.
- Wareing P.F. and Seth A.K. (1967): Aging and senescence in the whole plant. Symp. Soc. Exp. Biol. 21: 543-558.

- Warren, C. R. and Adams, M. A., (2002). Phosphorus affects growth and partitioning of nitrogen to Rubisco in *Pinus pinaster*. Tree Physiol. Vol. 22:11-19.
- Waughman, G.J. and Ballmay, D. L. (1981). Movement of cations in some plant species prior to leaf senescence. *Ann. Bot.*, **47**:141-145.
- Williams, R. F. (1948). The effects of phosphorus supply on the rates of intake of phosphorus and nitrogen and upon certain aspects of phosphorus metabolism in gramineous plants. *Aust. J. Sci. Res.* Ser. B 1:333-61.
- Williams, R. F. (1955). Redistribution of mineral elements during development. Ann. Rev. Plant Physio. C 6: 25-42
- Woolhouse H.W. (1967): the nature of senescent plants. Aspect of biology of aging. Symp. Soc. Exp. Biol., 21: 179-213, Univ. Press Cambridge.
- Woolhouse, H.W. and Batt T. (1976): the nature and regulation of senescence in plastids. Perspectives in Experimental Biology, Vol. 2, (Eds. N. Sunderland): 163-175. Pergamen Press oxford and New York.
- Zeevaart, J.A.D., Rock, CD., Fantauzzo, F., Heath, T.G. and Gage, D.A. (1991) Metabolism of ABA and its physiological implications. *In* Abscisic Acid: Physiology and Biochemistry, (Environmental Plant Biology Series). Edited by Davies, W.J. and Jones, H.G. pp. 39-52. Bios Scientific Publishers, Oxford.

