

## Dr. Jianjun Chen: Research Publications

### Book Chapters

1. Chen, J. and R.J. Henny. 2008. Role of micropropagation in the development of ornamental foliage plant industry. pp. 206-218. In J.A. Teixeira da Silva (ed.) Floriculture, Ornamental and Plant Biotechnology, Volume V, Global Science Books, London, UK
2. Chen, J. and R.J. Henny. 2008. Ornamental foliage plants: Improvement through biotechnology. pp. 140-156. In A. Kumar and S.K. Sopory (eds.) Recent Advances in Plant Biotechnology and Its Application. I.K. International Publishing House Pvt. Ltd., New Delhi, India.
3. Chen, J. and R.H. Stamps. 2006. Cutting propagation of foliage plants. pp. 203-228. In J.M. Dole and J.L. Gibson (eds.) Cutting Propagation: A Guide to Propagating and Producing Floriculture Crops. Ball Publishing, Batavia, IL.
4. Chen, J. and R.J. Henny. 2006. Somaclonal variation: an important source for cultivar development of floriculture crops. pp. 244-253. In J.A. Teixeira da Silva (ed.) Floriculture, Ornamental and Plant Biotechnology Volume II, Global Science Books, London, UK.
5. Chen, J. and Y.C. Li. 2006. Amendment of fly ash to container substrates for ornamental plant production. pp. 177-183. In K.S. Sajwan, I.Twardowska, T. Punshon, and A.K. Alva (eds.) Coal and Coal Combustion Byproducts and Environmental Issues. Springer Science+Business Media, Inc. New York, NY.
6. Li, Y. and J. Chen. 2006. Leachability of trace metals from sandy or rocky soils amended with coal ash. pp. 105-113. In K.S. Sajwan, I.Twardowska, T. Punshon, and A.K. Alva (eds.) Coal and Coal Combustion Byproducts and Environmental Issues. Springer Science+Business Media, Inc. New York, NY.
7. Chen, J., D.B. McConnell, D.J. Norman, and R.J. Henny. 2005. The foliage plant industry. pp. 45-110. In J. Janick (ed.) Horticultural Reviews, Volume 31. John Wiley and Sons, Inc. Hoboken, NJ.
8. Chen, J., R.J. Henny, and T.C. Chao. 2003. Somaclonal variation as a source for cultivar development of ornamental aroids. pp. 31-43. In S.G. Pandalai (ed.) Recent Research Development in Plant Science vol. 1. Research Signpost, Kerala, India.
9. Henny, R.J. and J. Chen 2003. Cultivar development of ornamental foliage plants. pp. 245-290. In J. Janick (ed.) Plant Breeding Reviews Volume 23. John Wiley and Sons, Inc. Hoboken, NJ.
10. Huang, J. W. and J. Chen. 2003. Role of pH in phytoremediation of contaminated soils. pp. 449-472. In Z. Rengel (ed.) Handbook on Soil Acidity. Chapter 17. Marcel Dekker, New York, NY.
11. Chen, J., R. J. Henny, and D. B. McConnell. 2002. Development of new foliage plant cultivars. pp. 466-472. In J. Janick and A. Whipkey (eds.) Trends in New Crops and New Uses. ASHS Press, Alexandria, VA.
12. Chen, J., J. W. Huang, T. Caspar, and S. D. Cunningham. 1997. *Arabidopsis* as a model system for studying lead accumulation and tolerance in plants. pp. 264-273. In E.L. Kruger, T.A. Anderson, and J.R. Coats (eds.) Phytoremediation of Soil and Water Contaminants. ACS, Washington DC.
13. Huang, J. W., J. Chen, and S. D. Cunningham. 1997. Phytoextraction of lead from lead-contaminated soils. pp. 283-298. In E.L. Kruger, T.A. Anderson, and J.R. Coats (eds.) Phytoremediation of Soil and Water Contaminants. ACS, Washington DC.

### Refereed Journal Articles

1. Fan, S., D., Jian, X. Wei, J. Chen, R.C. Beeson, Z. Zhou, and X. Wang. 2017. Micropropagation of blueberry 'Bluejay' and 'Pink Lemonade' through in vitro shoot culture. *Scientia Horticulturae* 226:277-284.
2. Wei, X., S. Lyu, Y. Yu, Z. Wang, H. Liu, D. Pan, and J. Chen. 2017. Phylloremediation of air pollutants: exploring the potential of plant leaves and leaf-associated microbes. *Frontiers in Plant Science* 8:1318. doi: 10.3389/fpls.2017.01318
3. Zeng, H., Y. Li, J. Chen, X. Wang, Z. Qiao, Y. Li, N. Cai, and S. Liu. 2017. *Lonicera japonica*

- 'Fenglei'. HortScience 52:789-791.
4. Guan, X., Z. Li, Z. Zhang, X. Wei, J. Xie, J. Chen, and Q. Chen. 2017. Overexpression of *EaZIP* gene devoid of transit peptide sequence induced leaf variegation in tobacco. PLoS ONE 12(4): e0175995. <https://doi.org/10.1371/journal.pone.0175995>
  5. Yu, Y., S. Lyu, D. Chen, Y. Lin, J. Chen, G. Chen, and N. Ye. 2017. Volatiles emitted at different flowering stages of *Jasminum sambac* and expression of genes related to  $\alpha$ -Farnesene biosynthesis. Molecules 22, 546; doi:10.3390/molecules22040546.
  6. Lyu, S., X. Wei, J. Chen, C. Wang, X. Wang, and D. Pan. 2017. Titanium as a beneficial element for crop production. Frontiers in Plant Science 8:597. doi: 10.3389/fpls.2017.00597.
  7. Sun, Y., C. Hung, J. Qiu, J. Chen, F.S. Kittur, C.E. Oldham, R.J. Henny, K.O. Burkey, L. Fan, and J. Xie. 2017. Accumulation of high OPDA level correlates with reduced ROS and elevated GSH benefiting white cell survival in variegated leaves. Scientific Reports 7:44158. doi:10.1038/srep44158.
  8. Wang, X., Y. Li, H. Zeng, N. Cai, Z. Qiao, X. Wang, and J. Chen. 2017. Micropropagation of *Weigela florida* 'Tango' through in vitro shoot culture. HortScience 52:274-277. doi:10.21273/HORTSCI11413-16
  9. Jia, T., J. An, Z. Liu, B. Yu, and J. Chen. 2017. Salt stress induced soybean *IFS1* gene expression and isoflavones accumulation and salt tolerance in transgenic soybean cotyledon hairy roots and tobacco. Plant Cell, Tissue and Organ Culture 128:469-477. DOI 10.1007/s11240-016-1124-0.
  10. Wei, X., J. Chen, D. Pan, and C. Zhang. 2016. Differential gene expression in *Rhododendron fortunei* roots colonized by an ericoid mycorrhizal fungus and increased nitrogen absorption and plant growth. Frontiers in Plant Science 7:1594. doi: 10.3389/fpls.2016.01594.
  11. Arthur, S.P., G. Chen, and J. Chen. 2016. Host specificity evaluation of *Gynaikothrips uzeli* (Thysanoptera: Phlaeothripidae) on ornamental *Ficus* (Rosales: Moraceae). Florida Entomologist 99:481-486.
  12. Wei, X., J. Chen, D. Pan, and C. Zhang. 2016. A new *Oidiiodendron maius* strain isolated from *Rhododendron fortunei* and its effects on nitrogen uptake and plant growth. Frontiers in Microbiology 7:1327. doi: 10.3389/fmicb.2016.01327.
  13. Pearson, B.J., R.M. Smith, and J. Chen. 2016. Growth, strobile yield, and quality of four *Humulus lupulus* varieties cultivated in a protected open-sided greenhouse structure. HortScience 51:838-842.
  14. Hung, C. J. Qiu, Y. Sun, J. Chen, F. Kittur, R.J. Henny, G. Jin, L. Fan, J. Xie. 2016. Gibberellin deficiency is responsible for shy-flowering nature of *Epipremum aureum*. Scientific Reports 6:28598; doi: 10.1038/srep28598.
  15. Fang, J., B. Gao, A.R. Zimmerman, K.S. Ro, and J. Chen. 2016. Physically (CO<sub>2</sub>) activated hydrochars from hickory and peanut hull: Preparation, characterization, and sorption of methylene blue, lead, copper, and cadmium. RSC Advances 6, 24906 DOI: 10.1039/c6ra01644h.
  16. Li, P., W. Wu, F. Chen, Y. Lin, X. Liu, and J. Chen. 2015. *Prunus salicina* 'Crown', a yellow-fruited Chinese plum. HortScience 50:1822-1824.
  17. Li, Y., X. Wang, J. Chen, N. Cai, H. Zeng, Z. Qiao, and X. Wang. 2015. A method for micropropagation of *Cornus wilsoniana*, an important biofuel plant. Industrial Crops and Products 76:49-54.
  18. Wang, B., J. Chen, L. Chen, X. Wang, R. Wang, L. Ma, S. Peng, J. Luo, and Y. Chen. 2015. Combined drought and heat stress in *Camellia oleifera* cultivars: Leaf characteristics, soluble sugar, and protein contents, and Rubisco gene expression. Trees 29:1483-1492.
  19. Chen, Y., B. Wang, J. Chen, X. Wang, R. Wang, S. Peng, L. Chen, L. Ma, and J. Luo. 2015. Identification of Rubisco *rbcL* and *rbcS* in *Camellia oleifera* and their potential as molecular markers for selection of high tea oil cultivars. Frontiers in Plant Science 6:189. DOI:10.3389/fpls.2015.00189.
  20. Zhang, M., B. Gao, J. Chen, and Y. Li. 2015. Effects of graphene on seed germination and seedling growth. Journal of Nanoparticle Research 17:78. DOI 10.1007/s11051-015-2885-9.
  21. Fang, J., B. Gao, and J. Chen. 2015. Hydrochars derived from plant biomass under various

- conditions: Characterizations and potential applications and impacts. *Chemical Engineering Journal* 267:253-259.
22. Wang, X., J. Chen, H. Zeng, Z. Qiao, Y. Li, N. Cai, and X. Wang. 2014. *Lagerstroemia indica* ‘Xiangyun’, a seedless crape myrtle. *HortScience* 49:1590-1592.
  23. McBride, K., R.J. Henny, T.A. Mellich, and J. Chen. 2014. Mineral nutrition of *Adenium obesum* ‘Red’. *HortScience* 49:1518-1522.
  24. Hung, C., M.L. Umstead, J. Chen, B.M. Holliday, F.S. Kittur, R.J. Henny, K.O. Burkey, and J. Xie. 2014. Differential expression of a novel gene *EaF82a* in green and yellow sectors of a variegated *Epipremnum aureum* is related to uneven auxin distribution. *Physiologia Plantarum* 152:749-762.
  25. Zhang, M., B. Gao, J. Chen, Y. Li, H. Chen, A.E. Creamer, and J. Fang. 2014. Slow-release fertilizer encapsulated by graphene oxide films. *Chemical Engineering Journal* 255:107-113.
  26. McBride, K., R.J. Henny, J. Chen, and T.A. Mellich. 2014. Effect of light intensity and nutritional level on growth and flowering of *Adenium obesum* ‘Red’ and Ice Pink’. *HortScience* 49:430-433.
  27. Zhao, J. Z.T. Li, J. Chen, R.J. Henny, D.J. Gray, and J. Chen. 2013. Purpled leaved *Ficus lyrata* produced by overexpression of a grapevine *VvMybA1* gene. *Plant Cell Reports* 32:1783-1793.
  28. Wang, X., J. Chen, Y. Li, H. Zeng, N. Cai, and Z. Qiao. 2013. *Lonicera macranthoides* ‘Huayao-Wanshu’. *HortScience* 48:1062-1064.
  29. Yao, Y., B. Gao, J. Chen, and L. Yang. 2013. Engineered biochar reclaiming phosphate from aqueous solutions: mechanisms and potential application as a slow-release fertilizer. *Environmental Science and Technology* 47:8700-8708.
  30. Zhao, J., Z. Li, R.J. Henny, D.J. Gray, J. Xie, and J. Chen. 2013. Efficient somatic embryogenesis and *Agrobacterium*-mediated transformation of *Epipremnum aureum* ‘Jade’. *Plant Cell, Tissue and Organ Culture* 114:237-247.
  31. Chen, J., N. Xia, J. Zhao, J. Chen, and R.J. Henny. 2013. Chromosome numbers and ploidy levels of Chinese *Curcuma* species. *HortScience* 48:525-530.
  32. Chen, J., X. Wang, N. Cai, Y. Li, H. Zeng, and Z. Qiao. 2013. ‘Longhua’ *Lonicera*. *HortScience* 48:652-653.
  33. Yao, Y., B. Gao, J. Chen, M. Zhang, M. Inyang, Y. Li, A. Alva, and L. Yang. 2013. Engineered carbon (biochar) prepared by direct pyrolysis of Mg-accumulated tomato tissues: characterization and phosphate removal potential. *Bioresource Technology* 138:8-13.
  34. Dogramaci, M., S.P. Arthurs, J. Chen, and L.S. Osborne. 2013. Silicon applications have minimal effects on *Scirtothrips dorsalis* (THYSANOPTERA: THRIPIDAE) populations on pepper plants, *Capsicum annum* L. *Florida Entomologist* 96:48-54.
  35. Xiao, Y., L.S. Osborne, J. Chen, and C. Mckenzie. 2013. Functional responses and prey-stage preferences of a predatory gall midge and two predacious mites with twospotted spider mites, *Tetranychus urticae*, as host. *Journal of Insect Science* 13:3.
  36. Xiao, Y., P. Avery, J. Chen, C. Mckenzie, and L.S. Osborne. 2012. Ornamental pepper as blanker plants for establishment of *Amblyseius swirskii* (Acari: Phytoseiidae) for biological control of multiple pests in greenhouse vegetable production. *Biological Control* 63:279-286.
  37. Zhao, J., J. Cui, J. Liu, F. Liao, R.J. Henny, and J. Chen. 2012. Direct somatic embryogenesis from leaf and petiole explants of *Spathiphyllum* ‘Supreme’ and analysis of regenerants with flow cytometry. *Plant Cell, Tissue and Organ Culture* 110:239-249.
  38. Zhao, J., Q. Zhang, J. Xie, C. Hung, J. Cui, R.J. Henny, and J. Chen. 2012. Plant regeneration via direct somatic embryogenesis from leaf and petiole explants of *Epipremnum aureum* ‘Marble Queen’ and characterization of selected variants. *Acta Physiologiae Plantarum* 34:1461-1469.
  39. He, Y., J. Zhang, H. Ma, Y. Tu, J. Chen, F. Chen, H. Xu, Z. Song, D. Cai, and X. Xue. 2012. Aerenchyma formation and increased accumulation of free proline in roots of xerophytic *Aloe vera* L. cultured in nutrient solutions. *Journal of Medicinal Plants Research* 6:243-252.
  40. Gu, A., W. Liu, C. Ma, J. Cui, R.J. Henny, and J. Chen. 2012. Regeneration of *Anthurium andraeanum* from leaf explants and evaluation of microcutting rooting and growth under different light qualities. *HortScience* 47:88-92.

41. Xiao, Y., L.S. Osborne, J. Chen, C.L. Mckenzie, K. Houben, and F. Irizarry. 2011. Evaluation of corn plant as potential banker plant for supporting predatory gall midge, *Feltiella acarisuga* (Diptera: Cecidomyiidae) against *Tetranychus urticae* (Acari: Tetranychidae) in greenhouse vegetable production. *Crop Protection* 30:1635-1642.
42. Dogramaci, M., S.P. Arthurs, J. Chen, C.L. Mckenzie, F. Irizarry, and L.S. Osborne. 2011. Management of chilli thrips *Scirtothrips dorsalis* (Thysanoptera: Thripidae) on peppers by *Amblyseius swirskii* (Acari: Phytoseiidae) and *Orius insidiosus* (Hemiptera: Anthocoridae). *Biological Control* 59:340-347.
43. Xiao, F., J. Chen, D. Cantliffe, C. Mckenzie, K. Houben, and L.S. Osborne. 2011. Establishment of papaya banker plant system for parasitoid, *Encarsia sophia* (Hymenoptera: Aphelinidae) against *Bemisia tabaci* (Hemiptera: Aleyrodidae) in greenhouse tomato production. *Biological Control* 58:239-247.
44. Henny, R.J. and J. Chen. 2011. 'Leprechaun' *Aglaonema*. *HortScience* 46:950-951.
45. Arthurs S., J. Chen, M. Dogramaci, A.D. Ali, and C. Mannion. 2011. Evaluation of *Montandoniola confusa* Streito and Matocq sp. nov. and *Orius insidiosus* Say (Heteroptera: Anthocoridae), for control of *Gynaikothrips uzeli* Zimmerman (Thysanoptera: Phlaeothripidae) on *Ficus benjamina*. *Biological Control* 57:202-207.
46. Cui, J., J. Liu, J. Chen, and R.J. Henny. 2011. Regeneration of *Chlorophytum amaniense* 'Fire Flash' via indirect shoot organogenesis. *HortScience* 46:466-469.
47. Norman, D. and J. Chen. 2011. Effect of foliar application of titanium dioxide on bacterial blight of geranium and Xanthomonas leaf spot of poinsettia. *HortScience* 46:426-428.
48. Dogramaci, M., J. Chen, S.P. Arthurs, C.L. Mckenzie, F. Irizarry, K. Houben, M. Brennan, and L.S. Osborne. 2011. Mini-aspirator: a new device for collection and infestation of small arthropods to plants. *Florida Entomologist* 94:22-27.
49. Hung, C., Y. Sun, J. Chen, D. Darlington, A.L. Williams, K.O. Burkey, and J. Xie. 2010. Identification of a Mg-protoporphyrin IX monomethyl ester cyclase homologue, *EaZIP*, differentially expressed in variegated *Epipremnum aureum* 'Golden Pothos' is achieved through a unique method of comparative study using tissue regenerated plants. *Journal of Experimental Botany* 61:1483-1493.
50. Li, Y., E. Hanlon, G. O'Connor, J. Chen, and M. Silveira. 2010. Land application of compost and other wastes (by-products) in Florida: regulations, characteristics, benefits, and concerns. *HortTechnology* 20:41-51.
51. Stamps, R.H., S. Natarajan, L. Parsons, and J. Chen. 2010. Water-based cold protection of foliage plants in shadehouses. *HortScience* 45:1668-1672.
52. Shoher, A.L., C. Wiese, G.C. Denny, C.D. Stanley, and J. Chen. 2010. Plant performance and nutrient losses during containerized bedding plant production using composted dairy manure solids as a peat substitute in substrate. *HortScience* 45:1516-1521.
53. Henny, R.J. and J. Chen. 2010. 'Scenic Bay' *Aglaonema*. *HortScience* 45:1281-1282.
54. Liu, J., M. Deng, R.J. Henny, J. Chen, and J. Xie. 2010. Regeneration of *Dracaena surculosa* through indirect shoot organogenesis. *HortScience* 45:1250-1254.
55. Deng, M., J. Chen, R.J. Henny, and Q. Li. 2010. Genetic relationships of *Codiaeum variegatum* cultivars analyzed by amplified fragment length polymorphism markers. *HortScience* 45:868-874.
56. Henny, R.J., J. Chen, and T.A. Mellich. 2010. *Philodendron scandens* subsp. *oxycardium* 'Frilly Philly'. *HortScience* 45:830-831.

57. Deng, M., J. Chen, R.J. Henny, and Q. Li. 2010. Chromosome number and karyotype variation in *Codiaeum variegatum* cultivars. HortScience 45:538-540.
58. Henny, R.J., J. Chen, and T.A. Mellich. 2009. *Epipremnum aureum* 'Green Genie'. HortScience 44:1783-1784.
59. Li, Q., M. Deng, J. Chen, and R.J. Henny. 2009. Effects of light intensity and paclobutrazol on production and interior performance of *Pachira aquatica* Aubl. HortScience 44:1291-1295.
60. Henny, R.J. and J. Chen. 2009. 'Key Lime' *Aglaonema*. HortScience 44:1767-1768.
61. Henny, R.J., J. Chen, and T.A. Mellich. 2009. 'Pearls and Jade' Pothos. HortScience 44:824-825.
62. Henny, R.J., J. Holm, J. Chen, and M. Scheiber. 2009. *In vitro* induction of tetraploids in *Dieffenbachia* X 'Star Bright M-1' by colchicine. HortScience 44:646-650.
63. Arthurs, S., C. McKenzie, J. Chen, M. Dogramaci, M. Brennan, K. Houben, and L.S. Osborne. 2009. Evaluation of *Neoseiulus cucumeris* and *Amblyseius swirskii* (Acari: Phytoseiidae) as biological control agents of chilli thrips, *Scirtothrips dorsalis* (Thysanoptera: Thripidae) on pepper. Biological Control 49:91-96.
64. Li, Q., J. Chen, R.D. Caldwell, and M. Deng. 2009. Cowpeat as a substitute for peat in container substrates for foliage plant propagation. HortTechnology 19:340-345.
65. Wang, X., J. Chen, Y. Li, Q. Nie, J. Li. 2009. An efficient procedure for regeneration from leaf-derived calluses of *Lonicera macranthoides* 'Jincuillei', an important medicinal plant. HortScience 44:746-750.
66. Cui, J., J. Chen, and R.J. Henny. 2009. Regeneration of *Aeschynanthus radicans* via direct somatic embryogenesis and analysis of regenerants with flow cytometry. *In Vitro Cellular and Developmental Biology-Plant* 45:34-43.
67. Cui, J., J. Liu, M. Deng, J. Chen, and R.J. Henny. 2008. Plant regeneration through protocorm-like bodies induced from nodal explants of *Syngonium podophyllum* 'White Butterfly'. HortScience 43:2129-2133.
68. Henny, R.J., J. Chen, T.A. Mellich, and M.S. Brennan. 2008. 'Mondo Bay' *Aglaonema*. HortScience 43:1900-1901.
69. Li, Q., J. Chen, R.H. Stamps, and L. R. Parsons. 2008. Variation in chilling sensitivity among eight *Dieffenbachia* cultivars. HortScience 43:1742-1745.
70. Henny, R.J., J. Chen, T.A. Mellich, and M.S. Brennan. 2008. 'Moonlight Bay' *Aglaonema*. HortScience 43:1598-1599.
71. Shen, X., M.E. Kane, and J. Chen. 2008. Effect of genotypes, explant sources and plant growth regulators on indirect shoot organogenesis of *Dieffenbachia*. *In Vitro Cellular and Developmental Biology-Plant* 44:282-288.
72. Scheiber, S.M., R.C. Beeson, Jr., J. Chen, Q. Wang, and B. Pearson. 2008. Evaluation of irrigation frequency and quantity on leaf gas exchange, growth, and nitrogen leaching of *Coleus* in a simulated landscape. HortScience 43:881-884.
73. Li, Q., J. Chen, and Y. Li. 2008. Heavy metal leaching from coal fly ash-amended container substrates during *Syngonium* production. *Journal of Environmental Science and Health Part B* 43:179-186.
74. Fang, J., J. Chen, R.J. Henny, and C.T. Cao. 2007. Genetic relatedness of ornamental *Ficus* species and cultivars analyzed by amplified fragment length polymorphism markers. *Journal of American Society for Horticultural Science* 132:807-815.
75. Shen, X., J. Chen, M.E. Kane, and R.J. Henny. 2007. Assessment of somaclonal variation of *Dieffenbachia* plants regenerated via indirect shoot organogenesis from leaf explants. *Plant Cell, Tissue and Organ Culture* 91:21-27.
76. Li, Q., J. Chen, D.B. McConnell, and R.J. Henny. 2007. A simple and effective method of quantifying leaf variegation. HortTechnology 17:285-288.
77. Henny, R.J., J. Chen, and D.J. Norman. 2007. 'Tropic Honey' *Dieffenbachia*. HortScience 42:398.
78. Chen, J. and J.W. Huang. 2007. Increased accumulation of lead in the bronze mutant (E107) of pea (*Pisum Sativum* L.). *Bulletin of Environmental Contamination and Toxicology* 79:25-28.

79. Shen, X., J. Chen, M.E. Kane. 2007. Indirect shoot organogenesis from leaves of *Dieffenbachia* cv. Camouflage. *Plant Cell, Tissue and Organ Culture* 89:83-90.
80. Henny, R.J., J. Chen, and D.J. Norman. 2006. 'Sterling' *Dieffenbachia*. *HortScience* 41:1356.
81. Chen, J. and Y. Li. 2006. Coal fly ash as an amendment to container substrate for *Spathiphyllum* production. *Bioresource Technology* 97:1920-1926.
82. Norman, D.J., J. Chen, J.M.F. Yuen, A. Mangravita-Novo, D. Byrne, and L. Walsh. 2006. Control of bacterial wilt of geranium with phosphorus acid. *Plant Disease* 90:798-802.
83. Zhang, Q., J. Chen, and R.J. Henny. 2006. Regeneration of *Syngonium podophyllum* 'Variegatum' through direct somatic embryogenesis. *Plant Cell, Organ and Tissue Culture* 84:181-188.
84. Chen, J., R.J. Henny, P.S. Devenand, and C.T. Chao. 2006. AFLP analysis of nephthytis (*Syngonium podophyllum* Schott) selected from somaclonal variants. *Plant Cell Reports* 24:743-749.
85. Chao, C.T., P.S. Devenand, and J. Chen. 2005. AFLP analysis of genetic relationships among *Calathea* species and cultivars. *Plant Science* 168:1459-1469.
86. Chen, J., D.B. McConnell, R.J. Henny, K. Everitt, and R.D. Caldwell. 2005. Fire Flash: An exotic tropical ornamental foliage plant. *HortTechnology* 15:686-689.
87. Wang, Q., J. Chen, R.H. Stamps, and Y. Li. 2005. Correlation of visual quality grading and SPAD reading of green-leafed foliage plants. *Journal of Plant Nutrition* 28:1215-1225.
88. Zhang, Q., J. Chen, and R.J. Henny. 2005. Direct somatic embryogenesis and plant regeneration from leaf, petiole, and stem explants of Golden Pothos. *Plant Cell Reports* 23:587-595.
89. Henny, R.J., J. Chen, and D.J. Norman. 2004. 'GoldRush' *Dieffenbachia*. *HortScience* 39:1505-1506.
90. Devenand, P.S., J. Chen, C.T. Chao, and R.J. Henny. 2004. Assessment of genetic relationships among *Philodendron* cultivars using AFLP markers. *Journal of American Society for Horticultural Science* 129:690-697.
91. Chen, J., P.S. Devenand, D.J. Norman, R.J. Henny, and C.T. Chao. 2004. Interspecific relationships of *Alocasia* revealed by AFLP markers. *Journal of Horticultural Sciences and Biotechnology* 79:582-586.
92. Henny, J.R., D.J. Norman, and J. Chen. 2004. Progress in ornamental aroid breeding research. *Annals of the Missouri Botanical Garden* 91:465-473.
93. Chen, J., P.S. Devenand, D.J. Norman, R.J. Henny, and C.T. Chao. 2004. Genetic relationships of *Aglaonema* species and cultivars inferred from AFLP markers. *Annals of Botany* 93:157-166.
94. Wang, Q., J. Chen, and Y. Li. 2004. Nondestructive and rapid estimation of leaf chlorophyll and nitrogen status of peace lily using a chlorophyll meter. *Journal of Plant Nutrition* 27:557-569.
95. Chen, J., P.S. Devenand, D.J. Norman, R.J. Henny, and C.T. Chao. 2004. Analysis of genetic relatedness of *Dieffenbachia* cultivars using AFLP markers. *Journal of American Society for Horticultural Science* 129:81-87.
96. Chen, J., R.C. Beeson, Jr., T.H. Yeager, R.H. Stamps, and L.A. Felter. 2003. Evaluation of captured rainwater and irrigation runoff for greenhouse foliage and bedding plant production. *HortScience* 38:228-233.
97. Henny, R. J., D. J. Norman, and J. Chen. 2003. 'Orange Hot' *Anthurium*. *HortScience* 38:133-134.
98. Chen, J. and R.J. Henny. 2003. ZZ: A unique tropical ornamental foliage plant. *HortTechnology* 13:458-462.
99. Henny, R.J., J. Chen, and D.J. Norman 2003. 'Diamond Bay' and 'Emerald Bay' *Aglaonema*. *HortScience* 38:1446-1447.
100. Chen, J., R.J. Henny, D.B. McConnell, and R.D. Caldwell. 2003. Gibberellic acid affects growth and flowering of *Philodendron* 'Black Cardinal'. *Plant Growth Regulation* 41:1-6.
101. Chen, J., D.B. McConnell, C.A. Robinson, R.D. Caldwell, and Y. Huang. 2003. Rooting foliage plant cuttings in compost-formulated substrates. *HortTechnology* 13:110-114.
102. Wang, Q. and J. Chen. 2003. Variation in photosynthetic characteristics and leaf area contributes to *Spathiphyllum* cultivar differences in biomass production. *Photosynthetica* 41:443-447.
103. Qu, L., J. Chen, R.J. Henny, Y. Huang, R.D. Caldwell, and C.A. Robinson. 2002. Thidiazuron

- promotes adventitious shoot regeneration from pothos (*Epipremnum aureum*) leaf and petiole explants. *In Vitro Cellular and Developmental Biology-Plant* 38:268-271.
104. Chen, J., D.B. McConnell, C.A. Robinson, R.D. Caldwell, and Y. Huang. 2002. Production and interior performances of tropical ornamental foliage plants grown in container substrates amended with composts. *Compost Science and Utilization* 10:217-225.
  105. Chen, J., R.J. Henny, and R.D. Caldwell. 2002. Ethephon suppresses flowering of purple passion (*Gynura aurantiaca*). *Journal of Environmental Horticulture* 20:228-231.
  106. Yang, Z., L. Kong, J. Zhang, S. Xi, and J. Chen. 2001. Dimethyl sulfide emission from waterlogged Chinese soils. *Bulletin of Environmental Contamination and Toxicology* 67:721-728.
  107. Chen, J., Y. Huang, and R.D. Caldwell. 2001. Best management practices for minimizing nitrate leaching from container-grown nurseries. *The Scientific World Journal* 1(S2):96-102.
  108. Henny, R. J. and J. Chen. 2001. *Aglaonema* 'Golden Bay'. *HortScience* 36:1142-1143.
  109. Chen, J., R.W. Henley, R.J. Henny, R.D. Caldwell, and C.A. Robinson. 2001. *Aglaonema* cultivars differ in resistance to chilling temperatures. *Journal of Environmental Horticulture* 19:198-202.
  110. Chen, J. and W.H. Gabelman. 2000. Morphological and physiological characteristics of tomato roots associated with the efficiency of potassium acquisition. *Scientia Horticulturae* 83:213-225.
  111. Shang, H., J. Chen, J. Handelsman, and R.M. Goodman. 1999. Behavior of *Pythium* zoospores during their interaction with tobacco roots and *Bacillus cereus*. *Current Microbiology* 38:199-204.
  112. Chen, J. and W.H. Gabelman. 1999. Potassium-transport rate from root to shoot unrelated to potassium-use efficiency in tomato grown under low-potassium stress. *Journal of Plant Nutrition* 22:621-631.
  113. Chen, J., J. Zhou, and P.B. Goldsbrough. 1997. Characterization of phytochelatin synthase from tomato. *Physiologia Plantarum* 101:165-172.
  114. Huang, J. W., J. Chen, W.R. Berti, and S.D. Cunningham. 1997. Phytoremediation of lead contaminated soils: role of synthetic chelates in lead phytoextraction. *Environmental Science and Technology* 31:800-805.
  115. Chen, J., L. Jacobson, J. Handelsman, and R.M. Goodman. 1996. Compatibility of systemic acquired resistance and microbial biocontrol for suppression of plant diseases. *Molecular Ecology* 5:73-80.
  116. Chen, J. and W.H. Gabelman. 1995. Isolation of tomato strains varying in potassium acquisition using a sand-zeolite culture system. *Plant and Soil* 176:65-70.
  117. Chen, J. and P.B. Goldsbrough. 1994. Increased activity of  $\gamma$ -glutamylcysteine synthetase in tomato cells selected for cadmium tolerance. *Plant Physiology* 106:233-239.
  118. Chen, J. and W.H. Gabelman. 1990. A sand-zeolite culture system for simulating plant acquisition of potassium from soil. *Plant and Soil* 126:169-176.

### Refereed Proceedings of Research Conferences

1. Li, Q. M. Deng, and J. Chen. 2013. Potential of cowpeat as a peat substitute in horticultural substrates for foliage plant seedling production. *Acta Horticulturae* 1004:123-128.
2. Chen, J. and R.J. Beeson, Jr. 2013. Actual evapotranspiration of *Asplenium nidus* and *Chamaedorea elegans* during production from liners to marketable plants. *Acta Horticulturae* 990:339-344.
3. Chen, J., R.J. Henny, and F. Liao. 2007. Aroids are important medicinal plants. *Acta Horticulturae* 756:347-353.
4. Wang, X., J. Chen, R. J. Henny, Y. Li, Q. Nie, and J. Li. 2007. *In vitro* culture of *Epipremnum Aureum*, *Syngonium podophyllum*, and *Lonicera macranthodes*, three important medicinal plant. *Acta Horticulturae* 756:155-161.
5. Chen, J., Q. Wang, D.B. McConnell, and R.J. Henny. 2005. Responses of tropical foliage plants to interior low light conditions. *Acta Horticulturae* 669:51-56.

6. Chen, J. and R.C. Beeson, Jr. 2004. Production of quality aroid foliage plants using collected stormwater and irrigation runoff as an irrigation source. *Acta Horticulturae* 664:139-145.
7. Chen, J., D.B. McConnell, and R.J. Henny. 2004. Light induced coordinative changes in leaf variegation between mother plants and daughter plantlets of *Chlorophytum comosum* 'Vittatum'. *Acta Horticulturae* 659:453-459.
8. McConnell, D.B., and J. Chen, R.J. Henny, S.V. Pennisi, and M.E. Kane. 2003. Growth responses of *Spathiphyllum* cultivars to elevated production temperatures. *Acta Horticulturae* 620:273-279.
9. Chen, J., D.B. McConnell, and R.J. Henny. 2003. The Importance of Asian-originated plants to the growth of the foliage plant industry. *Acta Horticulturae* 620:377-382.
10. Chen, J., R.J. Henny, D.B. McConnell, and T.A. Nell. 2001. Cultivar differences in interior performances of acclimatized foliage plants. *Acta Horticulturae* 543:135-140.
11. Qu, L., J. Chen, R.J. Henny, R.D. Caldwell, and C.A. Robinson. 2000. Response of *Spathiphyllum* cultivars to chilling temperatures. *Proceedings of Florida State Horticultural Society* 113:165-169.
12. Huang, Y., J. Chen, L. Qu, R.D. Russell, and C.A. Robinson. 2000. Interpretation of soluble salts and pH of bulk solutions extracted by different methods. *Proceedings of Florida State Horticultural Society* 113:154-157.

#### **Non-refereed Articles and Proceedings of Research Conferences**

1. Stamps, R.H., J. Chen, S. Natarajan, and J. Popenoe. 2008. Evaluation of new controlled-release fertilizers for use in production for interiorscape and landscape plants. *Proceedings of Florida State Horticultural Society* 121:346-349.
2. Amann, N., H. Werner, J. Chen, and Y. Li. 2007. Using coal ash and other amendments to improve tomato growth and soil fertility. pp. 348-349. In Y. Zhu, N. Lepp, and R. Naidu (eds.), *Biogeochemistry of Trace Elements: Environmental Protection, Remediation and Human Health*. Tsinghua University Press, Beijing.
3. Li, Q., J. Chen, and Y. Li. 2007. Utilization of coal fly ash as a component of horticultural substrates. pp. 366-367. In Y. Zhu, N. Lepp, and R. Naidu (eds.), *Biogeochemistry of Trace Elements: Environmental Protection, Remediation and Human Health*. Tsinghua University Press, Beijing.
4. Chen, J., D.B. McConnell, and R.J. Henny. 2005. The world foliage plant industry. *Chronica Horticulturae* 45:9-15.
5. Chen, J. and R.J. Henny. 2002. *Aglaonema* hybrids vary in basal shoot production. *Proceedings of Southern Nursery Association Research Conference* 47:104-106.
6. Huang, Y., J. Chen, C.A. Robinson, and R.D. Caldwell. 2001. Changes in physical properties of compost-formulated media after foliage plant production. *Proceedings of Southern Nursery Association Research Conference* 46:69-71.
7. Huang, Y., J. Chen, C.A. Robinson, and R.D. Caldwell. 2001. Introducing a multi-cavity collection method for extracting plug root-zone solutions. *Proceedings of Florida State Horticultural Society* 114:243-245.
8. Chen, J., R.C. Beeson, L.A. Felter, R.D. Caldwell, and C.A. Robinson. 2000. Growth response of container-grown ornamentals to controlled-release fertilizers. *Proceedings of Southern Nursery Association Research Conference* 45:125-127.
9. Qu, L., J. Chen, R.J. Henny, R.D. Caldwell, and C.A. Robinson. 2000. A preliminary study on pothos regeneration. *Proceedings of Florida State Horticultural Society* 113:175-176.
10. Henny, R.J. and J. Chen. 2000. Flowering response of three *Spathiphyllum* cultivars to treatment with three levels of gibberellic acid. *Proceedings of Florida State Horticultural Society* 113:169-170.
11. Qu, L., J. Chen, R.J. Henny, R.D. Caldwell, and C.A. Robinson. 2000. A preliminary study on heat-shock response of *Spathiphyllum* cultivars. *Proceedings of Southern Nursery Association Research Conference* 45:122-124.
12. Huang, Y., J. Chen, L. Qu, R.D. Caldwell, and C.A. Robinson. 2000. Charged zeolites as

- controlled-release fertilizers for pothos production. Proceedings of Southern Nursery Association Research Conference 45:119-121.
13. Chen, J., R.J. Henny, C.A. Robinson, T. Mellich, and R.D. Caldwell. 1999. Potted *Anthurium*: An interior-flowering foliage plant. Proceedings of Florida State Horticultural Society 112:280-281.
  14. Chen, J., D.B. McConnell, C.A. Robinson, and R.D. Caldwell. 1999. Waste composts as components of container substrates for rooting foliage plant cuttings. Proceedings of Florida State Horticultural Society 112:272-274.
  15. Chen, J., R.J. Henny, L.S. Osborne, R.D. Caldwell, and C. A. Robinson. 1999. Thrips damage to potted *Anthurium* cultivars in interior environments. Proceedings of Southern Nursery Association Research Conference 44:182-184.
  16. Chen, J., R. W. Henley, R.J. Henny, R.D. Caldwell, and C.A. Robinson. 1998. A simple single leaf assay method for evaluating *Aglaonema* sensitivity to chilling temperatures. Proceedings of Florida State Horticultural Society 111:43-46.
  17. Henley, R.W., R.J. Henny, and J. Chen. 1998. Chilling injury on twenty *Aglaonema* cultivars. Proceedings of Southern Nursery Association Research Conference 43:117-121.
  18. Huang, J.W., J. Chen, W.R. Berti, and S.D. Cunningham. 1997. Phytoremediation of lead-contaminated soils: Role of synthetic chelates in triggering lead hyper-accumulation in plants. pp.471-472. In I. K. Iskandar, S. E. Hardy, A. C. Chang, and G. M. Pierzynski. (eds.), Biogeochemistry of Trace Elements. University of California, Berkeley, CA.
  19. Goldsbrough, P.B., J. Zhou, J. Chen, and I. Kovari. 1995. Phytochelatins and metallothioneins: Complementary mechanisms for metal tolerance. pp.15-16. The 14<sup>th</sup> Annual Symposium of Current Topics in Plant Biochemistry, Physiology and Molecular Biology, University of Missouri-Columbia, MO.