

歷年著作目錄

Referred full-length articles

Papers published in academic journals

(*: corresponding author; SCI: journal in the list of scientific citation index)

1. **Yang E.-C.*** and Osorio D. (1991) Spectral sensitivities of photoreceptors and lamina monopolar cells in the dragonfly, *Hemicordulia tau*. *J. Comp. Physiol. A* 169: 663-670. [SCI]
2. **Yang E.-C.** and Osorio D.* (1996) Chromatic vision and photopic monopolar cells in the dragonfly lamina. *J. Comp. Physiol. A* 178: 543-550. [SCI]
3. **Yang E.-C.*** and Maddess T. (1997) Orientation-sensitive neurons in the brain of the honeybee (*Apis mellifera*). *J. Insect Physiol.* 43: 329-336. [SCI]
4. Maddess T.,* Davey M..P. and **Yang E.-C.** (1999) Discrimination of complex textures by bees. *J. Comp. Physiol. A* 184: 107-117. [SCI]
5. Tsai R.-S., **Yang E.-C.**, Wu C.-Y., Tseng H.-K. and Chow Y.-S.* (1999) A potent sex attractant of the male tea tussock moth, *Euproctis pseudoconspersa* (Strand) (Lepidoptera; Lymantridae) in Taiwan: Field and EAG responses. *Zool. Studies* 38(3): 301-306. [SCI]
6. Stavenga D.G.,* Kinoshita M., **Yang E.-C.**, Arikawa K. (2001) Retinal regionalization and heterogeneity of butterfly eyes. *Naturwissenschaften* 88: 477-481. [SCI]
7. Tso I.M.*, Tai P.I., Ku C.S. Kuo C.H. and **Yang E.C.*** (2002) Color-associated foraging success and population genetic structure in a polymorphic predator *Nephila maculata* (Araneae: Tetragnathidae). *Animal Behaviour* 63: 175-182. [SCI]
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9. **Yang E.C.***, Lee D.W. and Wu W.Y. (2003) Action spectrum of phototactic responses of the flea beetle, *Phyllotreta striolata*. *Physiol. Entomol.* 28: 362-367. [SCI]
10. Tso I.M., Lin C.W. and **Yang E.C.*** (2004) Colourful orb-weaving spiders, *Nephila pilipes*, through a bee's eyes. *J. Exp. Biol.* 207: 2631-2637. [SCI]
11. **Yang E.C.***, Lin H.C. and Hung Y.S. (2004) Patterns of chromatic information processing in the lobula of the honeybee, *Apis mellifera* L. *J. Insect Physiol.* 50: 913-925. [SCI]
12. Tso I.M.*, Liao C.P., Huang R.P. and **Yang E.C.** (2006) Function of being pretty in web spiders: attracting prey or camouflaging oneself? *Behavioral Ecology* 17: 606-613. [SCI]

13. **Yang E.C.**, Yang M.M.*, Liao L.H., Wu W.Y., Chen T.W. and Chen D.M. (2006) Non-destructive quarantine technique using soft X-ray imaging. *Formosan Entomologist* 26: 171-186. 【榮獲 96 年度台灣昆蟲學會最佳論文獎】
14. Wu W.Y., Chen Y.B. and **Yang E.C.*** (2007) The chromatic cues to trap the oriental fruit fly, *Bactrocera dorsalis*. *J.Insect Physiol.* 53 :509-516. [SCI]
15. Chuang C.Y., **Yang E.C.** and Tso I.M*. (2007) Diurnal and nocturnal prey luring of a colorful predator. *J. Exp. Biol.* 210: 3830-3837. [SCI]
16. Chuang C.Y., **Yang E.C.** and Tso I.M.* (2008) Deceptive color signaling in the night: a nocturnal predator attract prey with visual lures. *Behavioral Ecology* 19:237-244. [SCI]
17. Jiang J.A., Chang H.Y., Wu K.H., Ouyang C.S., Yang M.M., **Yang E.C.**, and Lin T.T*. (2008) An adaptive image segmentation algorithm for X-ray quarantine inspection of selected fruits. *Computers and Electronics in Agriculture* 60: 190-200. [SCI]
18. Jiang J.A., Tseng C.L., Lu F., **Yang E.C.***, Wu Z.S., Chen C.P., Lin S.H., Lin K.C., Liao C.S. (2008) A GSM-based remote wireless automatic monitoring system for field information: A case study for ecological monitoring of the oriental fruit fly, *Bactrocera dorsalis* (Hendel). *Computers and Electronics in Agriculture* 62: 243-259. [SCI]
19. Chen Y.L., Hung Y.S.and **Yang E.C.*** (2008) Biogenic amine level changes in the brains of stressed honeybees. *Arch. Insect Biochem. and Physiol.* 68: 241-250. [SCI]
20. Chio E.H. and **Yang E.C.*** (2008) A bioassay for natural insect repellents. *J. of Asia-Pacific Entomol.* 11: 225-227.
21. **Yang E.C.***, Chuang Y.C., Chen Y.L. and Chang L.H. (2008) Abnormal foraging behavior induced by sublethal dosage of imidacloprid in the honey bee (Hymenoptera: Apidae). *J. Econ. Entomol.* 101: 1743-1748. [SCI]
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25. Jiang J.A.*, Chen C.P., Chuang C.L., Lin T.S., Tseng C.L., **Yang E.C.**, Wang Y.C. (2009) CoCMA: Energy-efficient coverage control in cluster-based wireless sensor networks using a memetic algorithm. *Sensors* 9: 4918-4940. [SCI]
26. Liu W.Y., **Yang E.C.***, Lee S.J. (2009) The action spectrum of phototactic responses of

- Forcipomyia (Lasiohelea) taiwana* (Shiraki) (Diptera: Ceratopogonidae). *Formosan Entomologist* 29: 61-71 (in Chinese)
27. Yao M.C., Lee C.Y., **Yang E.C.**, Lu K.H.* (2009) Varieties and population fluctuations of stored-product insects in various rice storehouses monitored with light traps. *Formosan Entomologist* 29: 225-237. (in Chinese)
 28. Liu W.Y., Lee S.J., **Yang E.C.*** (2009) Evaluation for attractiveness of four chemicals to the biting midge, *Forcipomyia taiwana* (Diptera: Ceratopogonidae). *Journal of the American Mosquito Control Association* 25(4): 448-455. [SCI]
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 30. Chuang C.L., Ouyang C.S., Lin T.T., Yang M.M., **Yang E.C.**, Huang T.W., Kuei C.F., Luke A. Jiang J.A.* (2011) Automatic X-ray quarantine scanner and pest infestation detector for agricultural products. *Computers and Electronics in Agriculture* 77: 41-59. [SCI]
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 33. Hsu P.S., **Yang E.C.*** (2012) The critical cue in pattern discrimination for the honey bee: color or form? *Journal of Insect Physiology* 58: 934-940. [SCI]
 34. Chen C., **Yang E.C.**, Jiang J.A., Lin T.T*. (2012) An imaging system for monitoring the in-and-out activity of honey bees. *Computers and Electronics in Agriculture* 89:100-109. [SCI]
 35. **Yang E.C.***, Chang H.C., Wu W.Y., Chen Y.W. (2012) Impaired olfactory associative behavior of honeybee workers due to contamination of imidacloprid in the larval stage. *PLoS ONE* 7: e49472. <http://dx.plos.org/10.1371/journal.pone.0049472> [SCI]
 36. Jiang J.A., Lin T.S., **Yang E.C.**, Tseng C.L., Chen C.P., Yen C.W., Zheng X.Y., Liu C.Y., Liu R.H., Chen Y.F., Chang W.Y., Chuang C.L.* (2012) Application of a web-based remote agro-ecological monitoring system for observing spatial distribution and dynamics of *Bactrocera dorsalis* in fruit orchards. *Precision Agriculture* <http://link.springer.com/article/10.1007%2Fs11119-012-9298-x#page-2> [SCI]

37. Ho J.Z.*, Hu J.H., **Yang E.C.**, Wu C.H., Yang P.S. (2012) The distribution, life cycle and flash behaviour of the firefly *Pyrocoelia praetexta* Olivier (Coleoptera: Lampyridae) in the Alishan area of Taiwan. *Lampyrid* 2:37-47.
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39. Chio E.H., **Yang E.C.**, Huang H.T., Hsu E.L., Chen C.R., Huang C.G., Huang R.N.* (2013) Toxicity and repellence of Taiwanese indigenous djulis, *Chenopodium formosaneum*, against *Aedes albopictus* (Diptera: Culicidae) and *Forcipomyia taiwana* (Diptera: Ceratopogonidae). *J Pest Sci* (DOI [10.1007/s10340-013-0500-3](https://doi.org/10.1007/s10340-013-0500-3)) (Chio and Yang are equal contributors) 86: 705-712. [SCI]
40. Tsai Z.M., Jau P.H., Kuo N.C., Kao J.C., Lin K.Y., Chang F.R., **Yang E.C.**, Wang H.* (2013) A high range accuracy and high sensitivity harmonic radar using pulse pseudorandom code for bee searching. *IEEE Trans. Microwave Theory and Tech.* 61: 666-675. [SCI]
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45. Chuang C.L., **Yang E.C.**, Tseng C.L., Chen C.P., Lien G.S., Jiang J.A.* (2014) Toward anticipating pest responses to fruit farms: Revealing factors influencing the population dynamics of the Oriental Fruit Fly via automatic field monitoring. *Computers and Electronics in Agriculture* 109: 148-161. [SCI]

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<http://journal.frontiersin.org/article/10.3389/fevo.2016.00018/full>
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51. Chen Y.W*., Wu P.S., **Yang E.C.**, Nai Y.S., Haung Z.Y. (2016) The impact of pyriproxyfen on the development of honey bee (*Apis mellifera* L.) colony in field. *Journal of Asia-Pacific Entomology* 19:589-594. (doi:10.1016/j.aspen.2016.06.005)[SCI]
52. Hsu M.L., Liu T.H., Yang T.C., Jhan H.C., Wang H., Chang F.R., Lin K.Y., **Yang E.C.**, Tsai Z.M.* (2016) Bee searching radar with high transmit-receive isolation using pulse pseudorandom code. *IEEE Transactions on Microwave Theory and Techniques* 64:4324-4335. [SCI]
53. Hu Y.T., Wu T.C., **Yang E.C.**, Wu P.C., Lin P.T. Wu Y.L.* (2017) Regulation of genes related to immune signaling and detoxification in *Apis mellifera* by an inhibitor of histone deacetylation. *Scientific Reports* 7, 41255 doi:10.1038/srep41255 [SCI]
54. Wu M.C., Chang Y.W., Lu K.H., **Yang E.C.*** (2017) Gene expression changes in honey bees induced by sublethal imidacloprid exposure during the larval stage. *Insect Biochemistry and Molecular Biology* 88:12-20. [SCI]
55. Peng Y.C., **Yang E.C.*** (2017) Reply to ‘Pitfalls of using confocal-microscopy based automated quantification of synaptic complexes in honeybee mushroom bodies (response to Peng and Yang 2016)’. *Scientific Reports* 7:11286. [SCI] <http://rdcu.be/vElj>
56. Pisa L., Goulson D., **Yang E.C.**, Gibbons D., Sánchez-Bayo F., Mitchell E., Aebi A., van der Sluijs J., MacQuarrie C., Giorio C., Long E.Y., McField E., Bijleveld van Lexmond M., Bonmatin J.M.* (2017) An update of the Worldwide Integrated Assessment (WIA) on

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57. Owens A.C.S., Meyer-Rochow V.B., **Yang E.C.** * (2018) Short- and mid-wavelength artificial light influences the flash signals of *Aquatica ficta* flash signals (Coleoptera: Lampyridae). *PLoS ONE* 13(2): e0191576 (<https://doi.org/10.1371/journal.pone.0191576>) [SCI]
58. Pao S.H., Tsai P.Y., Peng C.I., Chen P.J., Tsai C.C., **Yang E.C.**, Shih M.C., Chen J., Yang J.Y., Chesson P., and Sheue C.R. *. 2018. Lamelloplasts and Minichloroplasts in Begoniaceae: Iridescence and Photosynthetic Functioning. *Journal of Plant Research* 131: 655-670 (doi: 10.1007/s10265-018-1020-2). (cover page article) [SCI]
59. Hu Y.T., Tang C.K., Wu P.C., **Yang E.C.**, Tsai C.C., Wu Y.L.* (2018) Histone deacetylase inhibitor-treatment restores memory-related gene expression and learning ability in neonicotinoid-treated *Apis mellifera*. *Insect Molecular Biology* 27: 512-521. (doi: [10.1111/imb.12390](https://doi.org/10.1111/imb.12390)) [SCI]
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63. Hsieh H.W., Chen S.C., **Yang E.C.**, Hang S., Hsu C.C. Kou R.*(2021) Social interactions upregulate hemolymph tryptophan and tyrosine levels in the male lobster cockroach. *Hormones and Behavior* 130 104935 <https://doi.org/10.1016/j.yhbeh.2021.104935> [SCI]
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69. Chen Y.R., Tzeng D.T.W., **Yang E.C.*** (2021) Chronic effects of imidacloprid on honey bee worker development—molecular pathway perspectives. *International Journal of Molecular Sciences* 22: 11835 <https://doi.org/10.3390/ijms22111835> [SCI]

Articles presented in conference or published in non-academic journals

1. 楊恩誠、洪于善 (2001) 「色誘」昆蟲的理論基礎與應用。跨世紀台灣昆蟲學研究之進展研討會專刊 pp.69-77。
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7. Lin T.T., Chang H.Y., Wu K.H., Jian J.A., Ouyang C.S. Yang M.M. & **Yang E.C.** (2005) An Adaptive Image Segmentation Algorithm for X-Ray Quarantine Inspection of Selected Fruits. (Paper presented in 2005 ASAE Annual International Meeting, 17 - 20 July 2005).
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15. **楊恩誠**、江昭皚、曾傳蘆、盧福明、陳子偉、陳家榜、劉錕、林詩翔、林辰膺、曾主平、林子翔、廖誌聖、司仕豪、嚴崇瑋 (2008) 無線感測器網路技術在植物防檢疫之應用。動植物防疫檢疫季刊 17: 74-75。
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