**CHANGLU WANG**

Department of Entomology

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**EDUCATION**

**Ph.D., Entomology,** 1995-1998. West Virginia University. Major Advisor: Dr. Linda Butler. Dissertation title: “Relationship between habitat and ant communities in oak dominated Appalachian forests treated with microbial pesticides”.

**M.S., Forest Entomology,** 1985-1988. Chinese Academy of Forestry, Beijing, China. Major Advisor: Professor Gangrou Xiao. Thesis title: “Part I: Taxonomic studies of the genus *Camponotus* Mayr (Hymenoptera: Formicidae) in China. Part II: Biology of three forest ant species and their predatory effect on pine caterpillars in pine forests”.

### B.S., Forest Protection, 1981-1985. Beijing Forestry University, Beijing, China.

### PROFESSIONAL EXPERIENCE

**2020 – present. Extension Specialist.** Department of Entomology, Rutgers - The State University of New Jersey.

**2014 –2020. Associate Extension Specialist.** Department of Entomology, Rutgers - The State University of New Jersey.

**2008 – 2014. Assistant Extension Specialist.** Department of Entomology, Rutgers - The State University of New Jersey

**2006 – 2008. Research Assistant Professor.** Center for Urban & Industrial Pest Management, Department of Entomology, Purdue University.

**2002 – 2006. Research Scientist and Manager.** Center for Urban & Industrial Pest Management, Department of Entomology, Purdue University.

**1998 – 2001. Postdoctoral Research Associate.** USDA ARS, Formosan Subterranean Termite Research Unit, Stoneville, MS.

**1995 – 1998. Graduate Research Assistant.** Division of Plant & Soil Sciences, West Virginia University.

**1988 – 1994. Research Entomologist.** The Research Institute of Forestry, Chinese Academy of Forestry, Beijing, China.

**1985 – 1988. Graduate Research Assistant.** The Research Institute of Forestry, Chinese Academy of Forestry, Beijing, China.

**Certificates and Licenses Held**

New Jersey Commercial Pesticide Applicator License. Category 7a.

**AWARDS and RECOGNITION**

1. 2021. Publications of professional services award. Pi Chi Omega.
2. 2020. Journal of Economic Entomology - Readers' Choice Award for the paper entitled “Residents Attitudes and Home Sanitation Predict Presence of German Cockroaches (Blattodea: Ectobiidae) in Apartments for Low-Income Senior Residents”.
3. 2020. New Jersey Governor’s Environmental Excellence Award in Healthy & Sustainable Communities category.
4. 2017 U.S. Department of Housing and Urban Development Secretary’s Award for Healthy Homes Research Innovation.
5. 2017. Excellence in Integrated Pest Management. Eastern Branch of Entomological Society of America.
6. 2016-2019. “Ding Ying Professor” by South China Agricultural University. This title is awarded to scientists who made significant achievements nationally or internationally. Awardees will receive international travel and technical support each year to conduct collaborative research at South China Agriculture University.
7. 2015. Premier presentation “Best bed bug monitoring practices” at 63rd Entomological Society of America, Minneapolis, MN.
8. 2015. Eastern Regional Excellence in Extension Award. U.S. Department of Agriculture, National Institute of Food and Agriculture.
9. 2015. Northeast Extension Directors’ Award of Excellence. This is the highest award presented by the directors of Extension in the northeast. It recognizes Extension outreach programming that has achieved outstanding accomplishments, results and impacts in addressing contemporary issues.
10. 2015. International IPM Award for Recognition. 8th International IPM Symposium.
11. 2011. Merle V. Adams Award. Rutgers Cooperative Extension.
12. 2010. Recognition by NJ NAHRO (New Jersey Chapter of National Association of Housing and Redevelopment Officers) for service to public housing authorities in New Jersey.
13. 2010. “Most Retail-Ready” award for the Insect Interceptor device. United Inventors Association. National Hardware Show. Las Vegas, NV. Co-inventor.
14. 2009. Stinger Award for best insect video contest. Instruction category. Entomological Society of America. Co-author.
15. The 1997-98 recipient of “Andrew Hopkins Scholarship” from College of Agriculture and Forestry, West Virginia University.
16. The 1996-97 recipient of “Andrew Hopkins Scholarship” from College of Agriculture and Forestry, West Virginia University.
17. 1995. Outstanding research project. The State Bureau of Forestry and Scientific Information Net of National Forest Survey and Planning.
18. 1993. Outstanding Young Scientist. The Chinese Academy of Forestry.
19. 1991. Young Scientist Paper Competition. 3rd place. The Research Institute of Forestry, Chinese Academy of Forestry.
20. 1990. Young Scientist Paper Competition. 3rd place. The Research Institute of Forestry, Chinese Academy of Forestry.
21. 1989. Outstanding Young Scientist. 2nd place The Research Institute of Forestry, Chinese Academy of Forestry.

**PUBLICATION**

Book and book chapter

1. **Wang, C**., C. Lee, and M. Rust (Editors). 2021. Biology and management of the German cockroach. CAB International. Wallingford, United Kingdom. pp.308.
2. Cooper, R. and **C. Wang**. 2018. Chapter 27. Detection and monitoring. *In* Doggett, Miller, and Lee (eds), Advances in the Biology and Management of Modern Bed Bugs. CABI International. pp. 241-255.
3. Cooper, R. and **C. Wang.** 2018. Chapter 33. Bed bug control in specific situations: low-income housing. *In* Doggett, Miller, and Lee (eds), Advances in the Biology and Management of Modern Bed Bugs. CABI International. pp .333-339.
4. Lee, C. Y., H. Motokazu, **C. Wang**, and Y. J. Xu. 2018. Chapter 6. Bed bug resurgence in Asia. *In* Doggett, Miller, and Lee (eds), Advances in the Biology and Management of Modern Bed Bugs. CABI International. pp. 69-79.
5. Buczkowski, G., and **C. Wang**. 2014. Products and strategies for nuisance urban ant management. *In* P. Dhang (ed.), Urban Insect Pests: Sustainable Management Strategies. CABI International. pp. 99-113.
6. **Wang, C.,** and R. Cooper. 2011. Environmentally sound bed bug management solutions. *In* P. Dhang (ed.), Urban Pest Management: An Environmental Perspective. CABI International. pp. 44-63.
7. **Wang, C.,** and G. W. Bennett. 2010. Least toxic strategies for managing German cockroaches. *In* C. Peterson and D. Stout II (eds.). Pesticides in Household, Structural and Residential Pest Management. American Chemical Society. pp. 125-141*.*
8. **Wang, C**. 2005. Cockroach and ant management --- current status and prospects. pp. 435-447. *In* Liu, T.-X. and L. Kang (Eds.). 2005. Entomological Research: Progress and Perspectives. Science Press, Beijing. pp. 433-445.
9. Wu, J., and **C. Wang.** 1995. The ants of China. China Forestry Publishing House. pp.214.
10. Wu, J., and **C. Wang**. 1992. Hymenoptera: Formicidae. *In* “Iconography of Hunan Forest Insects”. pp.1301-1320.

Refereed journal articles

1. Yu, J.-J., S. Ranabhat, **C. Wang**. 2023. Insecticide resistance of *Cimex lectularius* L. populations and the performance of selected neonicotinoid-pyrethroid mixture sprays and an inorganic dust. Insects 14: 133.
2. Lee, C.-Y., **C. Wang**, and N.-Y. Su. 2022. Perspective on biology and management of bed bugs: Introduction. Journal of Economic Entomology. https://doi.org/10.1093/jee/toac141
3. Ramos, R. S., R. Cooper, T. Dasgupta, N. E. Pashley, and **C. Wang**. 2022. Comparative efficacy of superheated dry steam application and insecticide spray against common bed bugs under simulated field conditions. *Journal of Economic Entomology* doi: 10.1093/jee/toac070.
4. Kong, D., D. Han, R. Zhai, **C. Wang**, J. Zhang, Y. Xia, X. Nian, C. Liu, Y. He, and D. Wang. 2022. A case study on tropical bed bug, *Cimex hemipterus* (Hemiptera: Cimicidae) infestation and management in dormitories. *Journal of Economic Entomology* doi: 10.1093/jee/toac1055.
5. Kong, D., D. Shi, **C. Wang**, R. Zhai, L. Lyu, Y. He, and D. Wang. 2022. Identification and validation of reference genes for expression analysis using qRT-PCR in *Cimex hemipterus* (Hemiptera: Cimicidae). *Insects* 13: 784.
6. Fan, X., **C. Wang**, D. E. Bunker. **2022**. Population structure of german cockroaches (Blattodea: Ectobiidae) in an urban environment based on single nucleotide polymorphisms. *Journal of Medical Entomology*. doi.org/10.1093/jme/tjac036.
7. Zhang, L. J. Zhang, **C- L. Wang**, Y. He, X. Wen, Z. Xu, C.Wang **2022**. Toxicological, behavioral, and horizontal transfer effects of cycloxaprid against formosan subterranean termites (Blattodea: Rhinotermitidae). *Journal of Economic Entomology*. 10.1093/jee/toac073.
8. Abbar, S., R. Cooper, S. Ranabhat, X. Pan, S. Sked, and **C. Wang**. **2022**. Prevalence of cockroaches, bed bugs, and house mice in low-income housing and evaluation of baits for monitoring house mouse infestations. *Journal of Medical Entomology* 59: 940–948.
9. Sked, S., C. Liu, S. Abbar, R. Corrigan, R. Cooper, **C. Wang**. **2022**. The spatial distribution of the house mouse, *Mus musculus domesticus*, in multi-family dwellings. Animals 12(2): 197.
10. Romero Arias, J., A. Boom, M. **Wang, C**. Clitheroe, J. Šobotník, P. Stiblik, T. Bourguignon, and Y. Roisin. **2021**. Molecular phylogeny and historical biogeography of Apicotermitinae (Blattodea: Termitidae). *Systematic Entomology* 46: 741-756.
11. Zhang, J., Q. Liang, Y. Xia, D. Kong, **C. Wang**, S. Mo, Y. He, and D. Wang. **2021**. Behavioral Response of the Tropical Bed Bug, *Cimex hemipterus* (Hemiptera: Cimicidae) to Carbon Dioxide. *Journal of Economic Entomology* 114: 2198-2203.
12. Shi, X., **C. Wang**, J. E. Simon, W. Reichert, Q. Wu. **2021**. Repellency of novel catnip oils against the bed bug (Hemiptera: Cimicidae). *Journal of Medical Entomology* 58: 528–534.
13. Sked S., S. Abbar, R. Cooper, R. Corrigan, X. Pan, S. Ranabhat, and **C**. **Wang. 2021**. Monitoring and controlling house mouse, *Mus musculus domesticus*, infestations in low-income multi-family dwellings. *Animals* 11: 648.
14. Abbar, S., **C. Wang.** **2021**. Laboratory and field evaluations of attractants for monitoring German cockroaches. *Journal of Economic Entomology*. 114: 1758–1763. doi: 10.1093/jee/toab080
15. Potts, R., P. Vincent, D. M. Agany, E. Z. Gnimpieba, R. Cooper, **C**. **Wang**, J. E. Pietri. **2021**. Molecular analysis of the blood meals and bacterial communities of bed bugs (*Cimex lectularius* L.) to assess interactions with alternative hosts. *Parasitology Research*. 120: 1209-1217.
16. Blumenfeld, Alexander J. P.-A. Eyer, C. Husseneder, J. Mo, L. N. L. Johnson, **C. Wang,** K. J. Grace, T. Chouvenc, S. Wang, E. Vargo. **2021**. Bridgehead effect and multiple introductions shape the global invasion history of a termite. *Communications Biology* 4: 196.
17. Zhang, J., Xia, Y., **Wang, C.**, Han, D., Ren, D., Zheng, J., Xu, X., He, Y., Wang, D. **2020**. Morphological and molecular identification of tropical bed bugs from two cities of the pearl river delta in China. *Journal of Medical Entomology* 58: 471-474.
18. Abbar, S., **C. Wang**, R. Cooper. **2020**. Evaluation of a non-chemical compared to a non-chemical plus silica gel approach to bed bug management. *Insects* 11: 443.
19. Ranabhat, S. and **C. Wang.** **2020**. Effect of moisture on efficacy of selected insecticide dusts against the common bed bug, *Cimex lectularius* (Hemiptera: Cimicidae). *Journal of Economic Entomology* 113: 1933–1939.
20. **Wang, C.**, A. Eiden, R. Cooper, C. Zha, D. Wang, R. Hamilton. **2020**. Abatement of cockroach allergens by effective cockroach management in apartments. *The Journal of Allergy and Clinical Immunology: In Practice* doi.org/10.1016/j.jaip.2020.06.040.
21. **Wang, C.**, A. Eiden, R. Cooper, C. Zha, and D. Wang. **2019**. Effectiveness of building-wide integrated pest management programs for German cockroach and bed bug in a high-rise apartment building. *Journal of Integrated Pest Management*. (In revision)
22. **Wang, C.**, A. Eiden, R. Cooper, C. Zha, and D. Wang, and E. Reilly. **2019**. Changes in indoor insecticide residue levels after adopting an integrated pest management program to control German cockroach infestations in an apartment building. *Insects*. doi.org/10.3390/insects10090304.
23. Zha, C, **C.** **Wang** , A. Eiden, R. Cooper, D. Wang **2019**. Spatial distribution of German cockroaches in a high-rise apartment building during building-wide integrated pest management. *Journal of Economic Entomology* 112: 2302-2310.
24. Sked, S., **C. Wang**, K. Hacker, M. Levy. **2019**. A case study of *Cimex lectularius* L. (Hemiptera: Cimicidae) infestations in an office environment. *Journal of Economic Entomology*. doi: 10.1093/jee/toz1108.
25. **Wang, C**., E. Bischoff, A. L. Eiden, C. Zha, R. Cooper, J. M. Graber. **2019**. Residents attitudes and home sanitation predict presence of German cockroaches (Blattodea: Ectobiidae) in apartments for low income senior residents. *Journal of Economic Entomology* 112: 284-289.
26. Wang, G., B. Zhang, **C. Wang**, D. Wang. **2018**. Efficacy of different cockroach baits against the German and American cockroach, and resistance of the German cockroach to fipronil. *Chinese Journal of Applied Entomology* 55: 153-160.
27. Sharififard, M. I. Alizadeh, E.Jahanifard, **C. Wang**, M. E. Azemi. **2018**. Chemical composition and repellency of origanum vulgare essential oil against *Cimex lectularius* under laboratory conditions. *Journal of Arthropod-Borne Diseases* 12: 387–397.
28. Zhu, J. J., Zhu, J., Cermak, S. C., Kenar, J. A., Brewer, G., Haynes, K. F., Boxler, D., Baker, P. D., Wang, D., **Wang, C**., Li, A.Y. **2018**. Better than DEET repellent compounds derived from coconut oil. *Scientific Reports* 8: 14053. doi:10.1038/s41598-018-32373-7
29. Shi, X., T. Ma, S. N. Zhang, Z. H. Sun, X. Y. Chen, **C. L. Wang**, C. J. Jia, Y. C. Liang, Y. Zhu, Y. R. He. **2018**. Calling and mating behavior of *Diaphania angustalis* (Lepidoptera: Crambidae). *Journal of Economic Entomology* doi: 10.1093/jee/toy179.
30. Ma, T., Y.Y. Zhang, S.K. Wang, L.J. Lan, N. Lin, C. Wang, Y. J. Wu, M.S. Chang, Z.H. Sun, **C.L. Wang,** X.J. Wen. **2018**. Reproductive behavior and sex pheromone production in *Eutectona machaeralis* (Lepidoptera: Crambidae). *Florida Entomologist* 101: 189-194.
31. Wang, D., C. Wang, G. Wang, C. Zha. **2018**. Effect of steam treatment on feeding, mating, and fecundity of the common bed bug (Hemiptera: Cimicidae). *Journal of Medical Entomology* 55: 1536–1541. doi.org/10.1093/jme/tjy113
32. Wang, D., **C. Wang**, G. Wang, C. Zha, A. L. Eiden, R. Cooper. **2018**. Efficacy of three different steamers for control of bed bugs (*Cimex lectularius* L.). *Pest management science* Doi: 10.1002/ps.4933
33. Zha, C., **C. Wang,** B. Buckley, I. Yang, D. Wang, A. L. Eiden, and R. Cooper. **2018.** Evaluation of community-wide integrated pest management for reducing cockroach infestations and indoor insecticide residues. *Journal of Economic Entomology* doi: 10.1093/jee/tox356
34. **Wang, C****.,** A. Eiden, N. Singh, C. Zha, D. Wang, R. Cooper **2018.** Dynamics of bed bug infestations in three low-income housing communities with various bed bug management programs. *Pest Management Science* 74: 1302-1310.
35. Zha, C., **C. Wang,** J. M. Sheele. **2017**. Effect of moxidectin on bed bug feeding, development, fecundity, and survivorship. *Insects* 8, 106; doi: 10.3390/insects8040106.
36. Zha, C., **C. Wang,** A. Li. **2017**. Toxicities of selected essential oils, slicone oils, and paraffin oil against the common bed bug. *Journal of Economic Entomology* doi: 10.1093/jee/tox285.
37. Singh, N., **C. Wang,** D. Wang, C. Zha, R. Cooper, M. Robson. **2017**.Testing a threshold-based bed bug management approach in apartment buildings*. Insects* 8(3), 76; doi:10.3390/insects8030076.
38. Wang, D., **C. Wang**, N. Singh, A. Eiden, R. Cooper, and C. Zha. **2017**. Effect of hunger level and time elapsed from field collection on the locomotion behavior and response to stimulation in the common bed bug, *Cimex lectularius. Journal of Economic Entomology* 110: 1719–1727.
39. Ma, T., Z. Liu, C. Wang, S. Zhang, X. Shi, Z. Sun, X. Chen, C. Jia, **C.L. Wang**, Y. He, X. Wen. **2017**. Production, identification, and field evaluation of sex pheromone from calling females in *Diaphania* *angustalis* (Lepidoptera: Crambidae). *Environmental Science and Pollution Research* 24(31): 24485-24493.
40. Wang, L., **C. Wang,** Y. Xu, L. Zeng. **2016**. Review of current research on bed bugs and its implications for bed bug management in China. *Acta Entomologica Sinica* 59: 1021-1032. (In Chinese)
41. Minocha, R., **C. Wang**, K. Dang, C. E. Webb, P. Fernández-Peñas, and S. L. Doggett. **2016**. Systemic and erythrodermic reactions following repeated exposure to bites from the Common bed bug, *Cimex lectularius* (Hemiptera: Cimicidae). *Austral Entomology* doi: 10.1111/aen.12250.
42. Singh, N., **C. Wang**, D. Wang, R. Cooper, C. Zha. **2016**. Comparative efficacy of selected dust insecticides for controlling *Cimex* *lectularius* (Hemiptera: Cimicidae). *Journal of Economic Entomology* 109: 1819-1826
43. Wang, D., **C. Wang**, N. Singh, R. Cooper, C. Zha, and A. Eiden. **2016**. Effect of mating status and age on the male mate choice and mating competency in the common bed bug, *Cimex lectularius* (Hemiptera: Cimicidae). *Journal of Economic Entomology* 109: 1333-1340.
44. **Wang, C**., N. Singh, C. Zha, and R. Cooper. **2016**. Bed bugs: prevalence in low-income communities, resident’s reactions, and implementation of a low-cost inspection protocol. *Journal of Medical Entomology* 53: 639-646.
45. **Wang, C**., N. Singh, C. Zha, and R. Cooper **2016**. Efficacy of selected insecticide sprays and aerosols against the common bed bug, *Cimex lectularius* (Hemiptera: Cimicidae). *Insects* 7, 5. doi:10.3390/insects7010005
46. Dedeine, F., S. Dupont, S. Guyot, K. Matsuura, **C. Wang**, B. Habibpour, A. Bagnères, B. Mantovani, and A. Luchetti. **2015**. Historical biogeography of *Reticulitermes* termites (Isoptera: Rhinotermitidae) inferred from analyses of mitochondrial and nuclear loci. *Molecular Phylogenetics and Evolution* 94: 778-790.
47. Singh, N., **C. Wang**, and R. Cooper. **2015**. Post-treatment feeding affects mortality of bed bugs exposed to insecticides. *Journal of Economic Entomology* 109: 273-283.
48. Cooper, R. **C. Wang**, and N. Singh. **2015**. Effects of various interventions, including mass trapping with passive pitfall traps, on low-level bed bug populations in apartments. *Journal of Economic Entomology* 109: 762-769.
49. Bennett, G. W., A. D. Gondhalekar, **C. Wang**, G. Buczkowski, and T. J. Gibb. **2015**. Using research and education to implement practical bed bug control programs in multifamily housing. *Pest Management Science* doi: 10.1002/ps.4084.
50. Cooper, R., **C. Wang**, and N. Singh. **2015**. Mark-release-recapture reveals extensive movement of bed bugs (*Cimex lectularius* L.) within and between apartments. *PloS One* 10(9): e0136462.
51. Singh, N., **C. Wang**, and R. Cooper. **2015**. Effectiveness of a sugar-yeast monitor and a chemical lure for detecting bed bugs. *Journal of Economic Entomology* 108: 1298-303.
52. Cooper, R., **C. Wang**, and N. Singh. **2015**. Evaluation of a model community-wide bed bug management program in affordable housing. *Pest Management Science* 72: 45-56.
53. **Wang, C.**, N. Singh, and R. Cooper. **2015**. Field study of the comparative efficacy of three pyrethroid/neonicotinoid mixture products for the control of the common bed bug, *Cimex lectularius*. *Insects* 6: 197-205.
54. Singh, N., **C. Wang**, and R. Cooper. **2015**. Role of vision and mechanoreception in bed bug, *Cimex lectularius* L. behavior. *Plos One* 10(3): e0118855.
55. Cooper, R., **C. Wang**, and N. Singh. **2014**. Accuracy of trained canines for detecting bed bugs (Hemiptera: Cimicidae). *Journal of Economic Entomology* 107: 2171-2181.
56. Singh, N., **C. Wang**, and R. Cooper. **2014**. Potential of essential oil-based pesticides and detergents for bed bug control. *Journal of Economic Entomology* 107: 2163-2170.
57. Phillips, T. W., M. J. Aikins, E. Thomas, J. Demark, and **C. Wang**. **2014**. Fumigation of bed bugs (Hemiptera: Cimicidae): effective application rates for sulfuryl fluoride. *Journal of Economic Entomology* 107(4): 1582-1589.
58. **Wang, C.**, N. Singh, and R. Cooper. **2014**. Efficacy of an essential oil-based pesticide for controlling bed bug (*Cimex lectularius*) infestations in apartment buildings. *Insects* 5: 849-859
59. Singh, N., **C. Wang**, and R. Cooper. **2013**. Effectiveness of a reduced-risk insecticide based bed bug management program in low-income housing. *Insects* 4: 731-742.
60. **Wang, C**., L. Lü, and A. Zhang. **2013**. Efficacy of selected repellents against bed bugs. *Journal of Economic Entomology* 106: 2522-2529.
61. Olson, J., M. Eaton, S. A. Kells, V. Morin, **C. Wang**. **2013**. Cold tolerance of bed bugs and practical recommendations for control. *Journal of Economic Entomology* 106: 2433-2441.
62. Singh, N., **C. Wang**, and R. Cooper. **2013**. Effect of trap design, chemical lure, carbon dioxide release rate, and source of carbon dioxide on efficacy of bed bug monitors. *Journal of Economic Entomology* 106: 1802-1811.
63. **Wang, C.,** N. Singh, R. Cooper, C. Liu, and G. Buczkowski. **2013**. Evaluation of an insecticide dust band treatment method for controlling bed bugs. *Journal of Economic Entomology* 106: 347-352.
64. **Wang, C**., L. Lu, and M. Xu. **2012**. Carbon dioxide fumigation for control of bed bugs. *Journal of Medical Entomology* 49: 1076-1083.
65. Booth, W., V. Saenz, R. G. Santangelo, **C. Wang,** C. Schal, and E. L. Vargo. **2012**. Molecular markers reveal infestation dynamics of the bed bug (Hemiptera: Cimicidae) within apartment buildings. *Journal of Medical Entomology* 49: 535-546.
66. **Wang, C.**, K. Saltzmann, T. Gibb, and G. Bennett. **2012**. Comparison of three bed bug management strategies in a low-income apartment building. *Insects* 3: 402-409.
67. Singh, N., **C. Wang**, R. Cooper, and C. Liu. **2012**. Interactions among carbon dioxide, heat and chemical lures in attracting the bed bug, *Cimex lectularius* L. (Hemiptera: Cimicidae). *Psyche*. doi:10.1155/2012/273613
68. Husseneder, C., D. M. Simms, J. R. Delatte, **C. Wang**, J. K. Grace, and E. L. Vargo. **2011**. Genetic diversity and colony breeding structure in native and introduced ranges of the Formosan subterranean termite, *Coptotermes formosanus*. *Biological Invasions* 14: 419-437.
69. **Wang, C.,** and X. Wen. **2011**. Bed bug infestations and control practices in China: implications for fighting the global bed bug resurgence. Insects 2: 83-95.
70. **Wang, C.,** W. Tsai, R. Cooper, and J. White. **2011**. Effectiveness of bed bug monitors for detecting and trapping bed bugs in apartments. *Journal of Economic Entomology* 104: 274-278.
71. **Wang, C.,** K. Saltzmann,E. Chin,G. W. Bennett, andT. Gibb.**2010**. Characteristics of *Cimex lectularius* (Hemiptera: Cimicidae) infestation and dispersal in a high-rise apartment building. *Journal of Economic Entomology* 103: 172-177.
72. **Wang, C**., X. Zhou, S. Li, M. Schwinghammer, M. E. Scharf,G. Buczkowski, and G. W. Bennett. **2009**. Survey and identification of termites (Isoptera: Rhinotermitidae) in Indiana. *Annals of the Entomological Society of America* 102: 1029-1036.
73. **Wang, C.,** and G. W. Bennett. **2009**. Cost and effectiveness of community-wide integrated pest management for German cockroach, cockroach allergen, and insecticide use reduction in low-income housing. *Journal of Economic Entomology* 102: 1614-1623.
74. **Wang, C.,** T. Gibb, G. W. Bennett, and S. McKnight. **2009**. Bed bug attraction to pitfall traps baited with carbon dioxide, heat, and chemical lure. *Journal of Economic Entomology* 102: 1580-1585.
75. **Wang, C.,** T. Gibb, and G. W. Bennett. **2009**. Evaluation of two least toxic integrated pest management programs for managing bed bugs (Heteroptera: Cimicidae) with discussion of a bed bug intercepting device. *Journal of Medical Entomology.* 46: 566-571.
76. **Wang, C.,** M. M. Abou El-Nour, and G. W. Bennett. **2008**. Survey of pest infestation, asthma, and allergy in low-income housing. *Journal of Community Health* 33: 31-39.
77. Buczkowski, G., **C. Wang**, and G. W. Bennett 2007. Immunomarking reveals food flow and feeding relationships in the eastern subterranean termite, *Reticulitermes flavipes* (Kollar). *Environment Entomology* 36: 173-182.
78. **Wang, C**., M. E. Scharf, and G. W. Bennett. **2006**. Genetic basis for resistance to gel baits, fipronil, and sugar-based attractants in German cockroaches (Dictyoptera: Blattellidae). *Journal of Economic Entomology*99:1761-1767.
79. **Wang, C**., and G. W. Bennett. **2006**. Comparative study of integrated pest management and baiting for German cockroach management in public housing. *Journal of Economic Entomology* 99: 879-885.
80. **Wang, C**., and G. W. Bennett. **2006**. Comparative study of cockroach traps and attractants for monitoring German cockroaches (Dictyoptera: Blattellidae). *Environmental Entomology* 35: 765-770.
81. **Wang, C**., and G. W. Bennett. **2006**.Efficacy of noviflumuron gel bait for control of the German cockroach (Dictyoptera: Blattellidae) – laboratory studies. *Pest Management Science* 62: 434-439.
82. Ameen, A., **C. Wang**, W. Kaakeh, G. W. Bennett, J. E. King, L. L. Karr, and J. Xie. **2005**. Residual activity and population effects of noviflumuron for German cockroach (Dictyoptera: Blattellidae) Control. *Journal of Economic Entomology* 98: 899-905.
83. **Wang, C**., M. Scharf, and G. W. Bennett. **2004**. Behavioral and physiological resistance of the German cockroach to gel baits (Dictyoptera: Blattellidae). *Journal of Economic Entomology* 97: 2067-2072.
84. **Wang, C**., and J. Powell. **2004**. Cellulose bait improves the effectiveness of *Metarhizium anisopliae* as a microbial control of termites (Isoptera: Rhinotermitidae)*. Biological Control* 30: 523-529.
85. **Wang, C.,** and J. Powell, and B. OConnor. **2002**. Mites and nematodes associated with three subterranean termite species (Isoptera: Rhinotermitidae). *Florida Entomologist* 85: 499-506.
86. **Wang, C.,** J. Powell, and K. Nguyen. **2002**. Laboratory evaluations of four entomopathogenic nematodes for control of subterranean termites. *Environmental Entomology* 31: 381-387.
87. **Wang, C**., and J. Powell. **2001**. Survey of termites in the Delta experimental forest of Mississippi. *Florida Entomologist* 84: 222-226.
88. **Wang, C.,** J. Strazanac, and L. Butler. **2001**. Association between ants and habitat characteristics in oak dominated mixed forests. *Environmental Entomology* 30: 842-848.
89. **Wang, C.,** J. Strazanac, and L. Butler. **2001**. A comparison of pitfall traps with bait traps for studying leaf litter ant communities. *Journal of Economic Entomology* 94: 761-765.
90. **Wang, C.,** J. Strazanac, and L. Butler. **2000**. Abundance, diversity, and activity of ants (Hymenoptera: Formicidae) in oak-dominated mixed Appalachian forests treated with microbial pesticides. *Environmental Entomology* 29: 579-586.
91. **Wang, C**., G. Wang, Q. He, and Y. Chen. **1995**. A study on the generation differentiation of pine caterpillar-*Dendrolimus punctatus* (Walker) (Lepidoptera: Lasiocampidae). *Scientia Silvae Sinicae* 31(6): 559-564. (In Chinese)
92. **Wang, C**., and J. Wu. **1994**. Second revisionary studies on genus *Camponotus* Mayr of China (Hymenoptera: Formicidae). *Journal of Beijing Forestry University* (English Ed.) 3(1): 23-34.
93. Wu, J., and **C. Wang**. **1994**. A new genus of ants from Yunnan, China (Hymenoptera: Formicidae: Formicinae). *Journal of Beijing Forestry University* (English Ed.) 3(1): 35-38. (In Chinese)
94. **Wang, C**., and J. Wu. **1993**. A key to the genera of subfamily Myrmicinae (Hymenoptera: Formicidae) from China. *Forest Research* Vol. 6. Mem. 60-64 pp. (In Chinese)
95. **Wang, C.,** and J. Wu. **1992**. A study on the population dynamics and reproduction of *Camponotus japonicus* Mayr (Hymenoptera: Formicidae). *Journal of Beijing Forestry University* 14(3): 69-74. (In Chinese)
96. **Wang, C.,** and J. Wu. **1992**. Ants of Jianfengling forest region in Hainan Province (Hymenoptera: Formicidae). *Ibid*. 28(6): 561-564. (In Chinese)
97. **Wang, C.,** and J. Wu. **1992**. A new species of the ant genus *Acropyga* (Hymenoptera: Formicidae) in China. *Scientia Silvae Sinicae* 28(3): 226-229. (In Chinese)
98. **Wang, C.,** and J. Wu. **1991**. Taxonomic studies on the genus *Polyrhachis* Mayr of China (Hymenoptera: Formicidae). *Forest Research*. 4(6): 596-601. (In Chinese)
99. **Wang, C.,** and J. Wu. **1991**. A study on *Formica japonica* Motschulsky (Hymenoptera: Formicidae), a predatory enemy of *Dendrolimus punctatus* (Walker) (Lepidoptera: Lasiocampidae). *Forest Science and Technology* No. 4: 24-26. (In Chinese)
100. **Wang, C**., J. Wu, and G. Xiao. **1991**. A study on the bionomics and predatory effect of *Camponotus* *japonicus* Mayr (Hymenoptera: Formicidae) against *Dendrolimus punctatus* (Walker) (Lepidoptera: Lasiocampidae). *Forest Research* 4(4): 405-408. (In Chinese)
101. Wu, J., **C. Wang,** and L. Ren. **1990**. A preliminary study on the arthropod fauna in crop-paulownia inter-cropped fields. *Paulownia and Agroforestry* No. 2: 57-61, 63. (In Chinese)
102. Wu, J., and **C. Wang.** **1990**. A taxonomic study on the genus *Tetraponera* Smith in China (Hymenoptera: Formicidae). *Scientia Silvae Sinicae* 26(6): 515-518. (In Chinese)
103. **Wang, C**., G. Xiao, and J. Wu. **1989**. Taxonomic studies on the genus *Camponotus* Mayr in China (Hymenoptera: Formicidae). *Forest Research* 2(3): 221-228; 2(4): 321-328.(In Chinese)

Non-refereed journal articles

1. **Wang, C**., et al. 2022. Steaming up - Two studies show steam treatment is an effective method for bed bug management. Pest Control Technology (12): 92-96.
2. **Wang, C.,** R. Cooper, K. Vail, A. D. Gondhalekar, and D. H. Gouge. 2022. Pandemic Pests Invade Low-Income Housing. *Pest Control Technology* 50 (10): 64-65, 68, 70-71.
3. **Wang, C**., S. Abbar, R. Cooper, X. Pan, and S. Ranabhat. 2022. Mass appeal. *Pest Control Technology* 50(7): 48-50, 60, 104.
4. Abbar, S., G. Roselyn, **C. Wang.** (2020). Effects of color contrast on trap efficacy. *Pest Control Technology* 48(12): 62-67.
5. Sked, S., **C.** **Wang**, M. Levy, K. Hacker. 2019. Bed bug management in office environment. *Pest* *Control* *Technology* 47(6): 86-89.
6. **Wang, C.,** P.-H. Chang, C. Zha. **2017**. Bed bug lure increases efficacy of pitfall-style interceptors. *Pest Control Technology* 45 (12): 88-97.
7. Zha, C., **C. Wang**, D. Wang, and A. Eiden. **2016**.Community-wide IPM can conquer cockroaches in apartments. *Pest Control Technology* 44 (7): 30, 32, 33, 34, 50, 98.
8. **Wang, C.**,and R. Cooper. **2016**. Research update: portable heat chambers. *Pest Control Technology* 44 (3): 56, 58-61.
9. **Wang, C.**, N. Singh, R. Cooper. **2014**. What causes bed bug control failure - the resident factor. *Pest Control Technology* 42(8): 86-95.
10. **Wang, C.,** K. Saltzman, A. Gondhalekar, T. Gibb, G. Bennett. **2014**. Building-wide bed bug management. *Pest Control Technology* 42(3): 70-74.
11. **Wang, C.**, N. Singh, R. Cooper, C. Scherer. **2013**. Baiting for success. *Pest Control Technology* 41(7): 60-64.
12. Singh, N., **C. Wang**, R. Cooper. **2013**. Natural pesticides for bed bug control: Do they work?*Pest Control Technology* 41(3): 28, 30, 32.
13. **Wang, C**., andR. Cooper. **2012**. The future of bed bug monitoring. *Pestworld 2012* (January/February): 1-6.
14. **Wang, C**., andR. Cooper. **2011**. Detection tools and technologies. *Pest Control Technology* 39(8): 72, 74, 76, 78-79, 112.
15. **Wang, C.** **2010**. When less is more. *Pest Control Technology* 38(7): 72-78.
16. **Wang, C.**, K. Saltzmann, E. Chin, G. W. Bennett, and T. Gibb. **2010**. Understanding bed bug infestations and dispersal patterns.*Pest Control Technology* 38(3): 94-96.
17. **Wang, C.,** T. J. Gibb., and G. W. Bennett. **2009**. Interceptors assist in bed bug monitoring. *Pest Control Technology* 37(4): 112, 114.
18. **Wang, C**., X. Yang, M. Aboul El-Nour, and G. W. Bennett. 2008. Factors affecting secondary kill of the German cockroach by gel baits. Proceedings of the 6th International Conference on Urban Entomology, Budapest, Hungary. July 13-16, 2008. 153-159 pp.
19. **Wang, C.,** M. Abou El-Nour, and G. W. Bennett. **2007**. Controlling bed bugs in apartments – A case study. *Pest Control Technology* 35(11): 64, 66, 68, 70.
20. **Wang, C.,** G. W. Bennett, and C. Scherer. **2007**. Maximizing cockroach control with baits. *Pest Control Technology* 35(7): 126, 128.
21. **Wang, C.,** and G. W. Bennett. **2006**. Cockroach IPM and public housing. *Pest Control Technology* 34(7): 78, 80-82, 84.
22. **Wang, C.,** and G. W. Bennett. **2005**. Efficacy of Nibor-D dust for control of the German cockroach, 2004. *Arthropod Management Tests* Vol. 30. L1.
23. **Wang, C**., and G. W. Bennett. **2005**. Efficacy of Niban-FG granular bait for control of the German cockroach, 2004. *Arthropod Management Tests* Vol. 30. L2.
24. **Wang, C.,** and G. W. Bennett. **2005**. Efficacy of two gel baits for control of the brown-banded cockroach, 2004. *Arthropod Management Tests* Vol. 30. L3.
25. **Wang, C**., J. Powell, and R. H. Scheffrahn. **2003**. Abundance and distribution of subterranean termites in southern Mississippi forests (Isoptera: Rhinotermitidae). *Sociobiology* 42: 533-542.
26. **Wang, C**., J. Powell. **2003**. Isolation and evaluation of *Beauveria bassiana* for control of *Coptotermes formosanus* and *Reticulitermes flavipes* (Isoptera: Rhinotermitidae). *Sociobiology* 41: 369-381.
27. **Wang, C**., J. Powell, and Y. Liu. **2002**. A literature review of the biology and ecology of *Coptotermes formosanus* (Isoptera: Rhinotermitidae) in China. *Sociobiology* 40: 343-364.
28. **Wang, C.** **1994**. Collecting ants for medicinal purposes - ecological consequences and strategy. Newsletter of Forest Pests and Disease. No. 4: 36-38. (In Chinese)
29. **Wang, C.** **1993**. Research and utilization of forest ants. *World Forest Research* 6(5): 35-40. (In Chinese)
30. Wu, J., **C. Wang,** and Z. Ye. **1990**. A preliminary study on the ant fauna in *Massonia* stands and its effect against pine caterpillar in Anqing Region, Anhui province. *Journal of Anhui Forest Science and Technology* No. 2: 20-23. (In Chinese)

**PATENTS**

1. **Wang, C.,** and N. Singh. 2016. Bed bug lure. United States patent number 9,510,581B2.  *This technology is licensed to two companies in the U.S. and Canada. Rutgers University received more than $100,000 royalty as of June 2017.*
2. McKnight, S. and **C. Wang.** 2015. Crawling arthropod intercepting device and method. United States patent number 9,066,511 B2. *This technology is licensed to a U.S. company while Wang was working at Purdue University. The company has sold millions of monitors. The monitors based on this patent are the most cost-effective bed bug monitors on the market.*
3. McKnight, S. and **C. Wang.** 2013. Crawling arthropod intercepting device and method. United Kingdom patent number GB2473358.
4. McKnight, S. and **C. Wang.** 2013. Crawling arthropod intercepting device and method. United Kingdom patent number GB2473474.
5. McKnight, S. and **C. Wang.** 2013. Crawling arthropod intercepting device and method. United Kingdom patent number GB2473475.

**PROFESSIONAL AFFILICATIONS**

1. Entomological Society of America. Since 1996.
2. Pi Chi Omega. Since 2006.
3. Overseas Chinese Entomologists Association. Since 1998.