

Full papers

1. TAUTZ,J.: Untersuchungen zur Luftschallwahrnehmung bei Kohleulenraupen (Barathra brassicae L. - Hadeninae, Noctuidae, Lepidoptera).
Staatsexamensarbeit TH Darmstadt 1973.
2. Markl,H. & J.TAUTZ: The sensitivity of hair receptors in caterpillars of Barathra brassicae L. (Lepidoptera, Noctuidae) to particle movement in a sound field.
J.comp.Physiol.99, 79-87, 1975.
3. TAUTZ,J.: Mechanismen und biologische Bedeutung der Luftschallwahrnehmung bei Schmetterlingsraupen.
Dissertation Universität Konstanz 1977.
4. TAUTZ,J.: Reception of medium vibration by thoracal hairs of caterpillars of Barathra brassicae L. (Lepidoptera, Noctuidae).
I. Mechanical properties of the receptor hairs.
J.comp.Physiol.118, 13-31, 1977.
5. Gnatzy,W. & J.TAUTZ: Sensitivity of an insect mechanoreceptor during moulting.
Physiol.Entomol.2, 279-288, 1977.
6. TAUTZ,J.: Reception of medium vibration by thoracal hairs of caterpillars of Barathra brassicae L. (Lepidoptera, Noctuidae).
II.Response characteristics of the sensory cell.
J.comp.Physiol.125, 67-77, 1978.
7. TAUTZ,J. & H.Markl: Caterpillars detect flying wasps by hairs sensitive to airborne vibration.
Behav.Ecol.Sociobiol.4, 101-110, 1978.
8. TAUTZ,J.: Schmetterlingsraupen: Sinneshaare geben Wespenalarm. Umschau 78, 673-674, 1978.
9. TAUTZ,J.: Reception of particle oscillation in a medium - an unorthodox sensory capacity.
Naturwiss.66, 452-461, 1979.
10. TAUTZ,J. & D.C.Sandeman: The detection of waterborne vibration by sensory hairs on the chelae of the crayfish.
J.exp.Biol.88, 351-356, 1980.
11. Gnatzy,W. & J.TAUTZ: Ultrastructure and mechanical properties of an insect mechanoreceptor: stimulus transmitting structures and sensory apparatus of the cercal filiform hairs in Gryllus.
Cell Tiss.Res.213, 441-463, 1980.
12. Kramer,B., TAUTZ,J. & H.Markl: The EOD sound response in weakly electric fish.
J.comp.Physiol.143, 435-441, 1981.

13. Kraus,H. & J.TAUTZ: Visual distance keeping in the soldier crab, Mictyris playcheles Latreille. A field study.
Mar.Behav.Physiol.6, 123-133, 1981.
14. TAUTZ,J., Masters,M., Aicher,B. & H.Markl: A new type of water vibration receptor on the crayfish antenna: I.Sensory physiology.
J.comp.Physiol.144, 533-541, 1981.
15. Pflüger, H.-J. & J.TAUTZ: Air movement sensitive hairs and interneurons in Locusta migratoria.
J.comp.Physiol.145, 369-380, 1982.
16. Ehret,G., Moffat,A. & J.TAUTZ: Frequency resolution in the ear of the cricket, Teleogryllus oceanicus, measured in behavioral auditory masking.
J.comp.Physiol.148, 237-244, 1982.
17. Masters,M., Aicher,B., TAUTZ,J. & H.Markl: A new type of water vibration receptor on the crayfish antenna. II.Model of receptor function.
J.comp.Physiol.149, 409-422, 1982.
18. Masters,M., TAUTZ,J., Fletcher,N. & H.Markl: Body vibration and sound production in an insect (Atta sexdens) without specialized radiating structures.
J.comp.Physiol.150, 239-249, 1983.
19. TAUTZ,J. & R.Müller-TAUTZ: Antennal neuropile in the brain of the crayfish: morphology of neurons.
J.comp.Neurol.218, 415-425, 1983.
20. Bender,M., Gnatzy,W. & J.TAUTZ: The antennal feathered hairs in the crayfish: a non-innervated stimulus transmitting system.
J.comp.Physiol.154, 45-47, 1984.
21. Ebina,Y. & J.TAUTZ: Stimulus coding in crayfish antennal mechanoreceptors estimated by the noise approach.
Eur.Biophys.J.11, 111-115, 1984.
22. Aicher,B. & J.TAUTZ: "Peripheral inhibition" of vibration-sensitive units in the leg of the fiddler crab Uca pugilator.
J.comp.Physiol.154, 49-52, 1984.
23. TAUTZ,J.: Medienbewegungswahrnehmung bei Arthropoden - Beiträge zur Rezeptorphysiologie, zur zentralen Verarbeitung und zum Verhalten.
Habilitationsschrift Universität Konstanz, 1986.
24. Plummer,M.R., TAUTZ,J. & J.J.Wine: Frequency coding of waterborne vibrations by abdominal mechanosensory interneurons in the crayfish, Procambarus clarkii.
J.comp.Physiol.158, 751-764, 1986.
25. TAUTZ,J., Erber,J. & B.W.Ache: Chemosensitive interneurons ascend the optic nerve in the crayfish.
Naturwiss.73, 154-156, 1986.

26. TAUTZ,J.: Water vibration elicits antennal movement in the crayfish.
Anim.Behav.35, 748-754, 1987.
27. TAUTZ,J. & I.Hamm: Water vibration sensitive interneurons in the second abdominal ganglion of the crayfish.
J.exp.Biol.126, 525-529, 1986.
28. TAUTZ,J.: Interneurons in the tritocerebrum of the crayfish.
Brain Res.407, 230-239, 1987.
29. Narins,P., Ehret,G. & J.TAUTZ: Accessory pathway for sound transfer in a neotropical frog.
Proc.Nat.Acad.Sci.USA 85, 1508-1512, 1988.
30. TAUTZ,J.: Die Replikatorndynamik - ordnungschaffendes Prinzip von der präbiotischen Evolution bis zur Soziobiologie.
Biologie in unserer Zeit 18, 65-70, 1988.
31. Breithaupt,T. & J.TAUTZ: Vibration sensitivity of the crayfish statocyst.
Naturwissenschaften 75, 310-312, 1988.
32. Aicher,B. & J.TAUTZ: Vibrational communication in the fiddler crab Uca pugilator.
I.Signal transmission through the substratum.
J.comp.Physiol.166, 345-353, 1990.
33. TAUTZ,J.: Coding of mechanical stimuli in crustaceans - what and why?
in: Frontiers in Crustacean Neurobiology. (Edit.: K.Wiese, W.D.Krenz, J.TAUTZ, H.Reichert, B.Mulloney). Birkhäuser Basel 1990, 200-206.
34. Breithaupt,T. & J.TAUTZ: The sensitivity of crustacean mechanoreceptors to hydrodynamic and acoustic stimuli.
in: Frontiers in Crustacean Neurobiology. (Edit.: K.Wiese, W.D.Krenz, J.TAUTZ, H.Reichert, B.Mulloney). Birkhäuser Basel 1990, 114-120.
35. Hamm,I. & J.TAUTZ: Locomotor activity influences the sensitivity of mechanosensory interneurons in the crayfish.
in: Frontiers in Crustacean neurobiology. (Edit.: K.Wiese, W.D.Krenz, J.TAUTZ, H.Reichert, B.Mulloney).
Birkhäuser Basel 1990, 152-156.
36. TAUTZ,J.: Can the directional sensitivity of single mechanosensory neurons in arthropods tell the animal anything about stimulus direction?
Sensory systems and communication in arthropods. (Edit.: F.G.Gribakin, K.Wiese, A.V.Popov).
Birkhäuser Basel 1990.
37. Ehret,G., TAUTZ,J., Schmitz,B. & P.Narins: Hearing through the lungs: lung-eardrum transmission of sound in the frog Eleutherodactylus coqui.
Naturwissenschaften 77, 192-194, 1990. (cover-story)

38. TAUTZ,J.: Mechanorezeptoren bei Invertebraten - Filter biologisch relevanter Signale. Verh.Dtsch.Zool.Ges.83, 97-108, 1990.
39. Bleckmann,H., Breithaupt,T., Blickhan,R. & J.TAUTZ: The time course and frequency content of hydrodynamic events caused by moving fish, frogs, and crustaceans. J.comp.Physiol.168, 749-757, 1991.
40. Römer,H., TAUTZ,J.: Invertebrate auditory receptors. in: Advances in comparative and environmental physiology, Vol.10 Comparative aspects of mechanoreceptor systems. (Edit.: F.Ito). Springer Berlin 1992, 185-212.
41. TAUTZ,J., Fiedler,K.: Mechanoreceptive properties of caterpillar hairs involved in mediation of butterfly-ant symbioses. Naturwiss.79, 561-563, 1992. (cover story)
42. Gronenberg, W., TAUTZ,J. & B.Hölldobler: Fast trap-jaws and giant neurons in the ant Odontomachus. Science 262, 561-563, 1993 (cover story).
43. Roces,F., TAUTZ,J. & B.Hölldobler: Stridulation in leaf-cutting ants: short-range recruitment through plant-borne vibrations. Naturwissenschaften 80, 521-524, 1993 (cover story).
44. Gronenberg,W. & J.TAUTZ: The sensory basis for the trap-jaw mechanism in the ant Odontomachus bauri. J.comp.Physiol. 174, 49-60, 1994.
45. TAUTZ,J., Hölldobler,B. & T.Danker: The ants that jump: different techniques to take off. ZACS (Zoology - analysis of complex systems) 1, 1-6, 1994.
46. TAUTZ,J. & M.R.Plummer: Comparison of directional selectivity in identified spiking and nonspiking mechanosensory neurons in the crayfish, Orconectes limosus. Proc.Nat.Acad.Sci.USA 91, 5853-5857, 1994.
47. Kirchner,W., Broecker,I. & J.TAUTZ: Vibrational alarm communication in the damp-wood termite Zootermopsis nevadensis. Physiol.Entomol. 19, 187-190, 1994.
48. Menzel,J. & J.TAUTZ: Functional morphology of the subgenual organ of the carpenter ant. Tissue & Cell 26, 735-746, 1994.
49. TAUTZ,J., Roces,F. & B.Hölldobler: Use of a sound-based vibratome by leafcutting ants. Science 267, 84-87, 1995.
50. Breithaupt, T., Schmitz,B. & J.TAUTZ: Hydrodynamic orientation of crayfish (Procambarus clarkii) to swimming fish prey. J.comp.Physiol. 177, 481-491, 1995.

51. TAUTZ,J.: Honeybee waggle dance: recruitment success depends on the dance floor. *J.exp.Biol.* 199, 1375-1381, 1996.
52. Klügl,F., Puppe,F., Raub,U. & J.TAUTZ: Ein Simulationssystem zur Darstellung emergenten Verhaltens.
Reviewter Buchbeitrag
Simulation und Animation. Magdeburg, 1996.
53. Kleineidam,Ch. & J.TAUTZ: Perception of carbon dioxide and other "air-condition" parameters in the leaf cutting ant *Atta cephalotes*.
Naturwissenschaften 83, 566-568, 1996 (cover story).
54. Sandeman,D.C., TAUTZ,J. & M.Lindauer: Transmission of vibration across honeycombs and its detection by bee leg receptors.
J.exp.Biol. 199, 2585-2594, 1996 (cover story).
55. TAUTZ,J., Rohrseitz,K. & D.C.Sandeman: One-strided waggle dance in bees.
Nature 382, 32, 1996.
56. Sandeman,D.C., Sandeman,R. & J.TAUTZ: Head and abdominal posture and the orientation of honeybees on vertical combs.
Zoology 100, 85-97, 1997.
57. TAUTZ,J. & M.Lindauer: Honeybees establish specific sites on the comb for their waggle dances.
J. comp. Physiol. A 180, 537-539, 1997.
58. Casas,J., Bacher,S., TAUTZ,J. Meyhöfer,R. & D.Pierre: Leaf vibrations and air movements in a leafminer-parasitoid system.
Biological Control 11, 147-153, 1998.
59. TAUTZ,J. & M.Lindauer: Die Bienenwabe als Kommunikationsnetz.
ADIZ 6/97, 6-11, 1997 (cover story)
und *DIE BIENE*, 1997.
60. TAUTZ,J.: Communication in social bees: new approaches.
In: Elsner,N. & R.Wechner (eds) *New Neuroethology on the move.*
*Proc 26th Göttingen Neurobiology Conference*1998. 303-306, 1998.
61. TAUTZ,J.: The comb of the honeybee - signal transmission and information storage.
Apidologie 29, 400-401, 1998.
62. TAUTZ,J. & K.Rohrseitz: What attracts honeybees to a waggle dancer?
J. comp. Physiol. A 183, 661-667, 1998.
63. Dornhaus,A., Klügl,F., Puppe,F. & J.TAUTZ: Task selection in honeybees - experiments using multi-agent simulation.
GWAL 98 (3rd German Workshop on Artificial Life), ed.C.Wilke,S.Altmeyer & T.Martinez, 171-183, 1998.
64. Rohrseitz,K. & J.TAUTZ: Honey bee dance communication: waggle run direction coded

in antennal contacts?

J comp Physiol A 184, 463-470, 1999.

65. Kluegl,F., Puppe,F., Raub U. & J.TAUTZ: Simulating multiple emergent phenomena - exemplified in an ant colony.

Adami,C., Belew, R., Kitano,H. & C.Tylor (ed.)

ALIFE 98, Los Angeles 1998.

66. TAUTZ,J.: Aircraft detectors, trap triggers and combination locks - functional diversity of insect mechanosensory hairs.

Resonance (Journal of Science Education, India), 5, 32-38, 2000 (cover story).

67. Fröhlich,B., TAUTZ,J. & M.Riederer: Chemometric classification of comb and cuticular waxes of the honeybee *Apis mellifera carnica*.

J.Chem. Ecol. 26, 123-137, 2000.

68. TAUTZ,J. & H.Bickel: Thermographie: Wärmestrahlung sichtbar gemacht.

Unterricht-Biologie 249, 27-30, 1999 (cover story).

69. TAUTZ,J. & M.Lindauer: Telefonnetz und chemisches Gedächtnis: Wachs als vielseitiges Kommunikationsmedium der Honigbiene.

Akademie-Journal 1/99, 15-19, 1999.

70. Magal, C., Schöller, M., TAUTZ,J & J. Casas: The role of leaf structure in vibration propagation.

JASA (Journal of the Acoustical Society of America) 108, 2412-2418, 2000.

71. Fröhlich,B., M.Riederer & J.TAUTZ: Comb wax discrimination by honeybees tested with the proboscis extension reflex

J.exp.Biol.203, 1581-1587, 2000.

72. Nieh, J.C., TAUTZ, J., Spaethe, J. & T. Bartareau: The communication of food location by a primitive stingless bee, *Trigona carbonaria*.

Zoology 102, 238-246, 2000 (cover story).

73. Nieh, J.C. & J.TAUTZ: Behaviour-locked signal analysis reveals weak 200-300 Hz comb vibrations during the honeybee waggle dance.

J.exp.Biol. 203, 1573-1579, 2000 (cover story).

74. TAUTZ,J.: A comb-wide web.

Science 286, 2272-2273, 1999.

75. TAUTZ,J. & M.Lindauer: Aspetti vecchi e nuovi del linguaggio delle api.

Atti della Accademia Nazionale Italiana di Entomologia XLVII, 105-116, 1999.

76. SenSarma,M., Fuchs,S. & J.TAUTZ: Debris removal by head pushing in *A.florea* F. honeybees.

Naturwissenschaften 87, 241-243, 2000 (cover story).

77. Srinivasan, M.V., S.W. Zhang, S.W., Altwein,M. and J. TAUTZ: Honeybee navigation: nature and calibration of the "odometer".

Science 287, 851-853, 2000 (cover story)

78. Kleineidam, Ch., Romani, R., TAUTZ, J. & N. Isidoro: Ultrastructure and physiology of the CO₂ sensitive sensillum ampullaceum of the leaf-cutting ant *Atta sexdens*
Arthropod Structure and Development, 29, 43-55, 2000.

By the editors in March 2003: Congratulations! Your article has been one of the top-25 most downloaded articles in ScienceDirect during the last 9 months of 2002.

79. SenSarma, M., Fuchs, S., Werber, Ch. & J. TAUTZ: Worker piping triggers hissing for coordinated colony defence in the dwarf honeybee *Apis florea*
Zoology 105, 215-223, 2002 (cover-story).

80. Thom, C., Seeley, T.D. & J. TAUTZ: A scientific note on the dynamics of labor devoted to nectar foraging in a honey bee colony: number of foragers versus individual foraging activity.
Apidologie 31, 737-738, 2000.

81. Fröhlich, B., Riederer, M & J. TAUTZ: Honeybees discriminate cuticular waxes based on esters and polar components.
Apidologie 32, 265-274, 2001.

82. Weidenmüller, A. & J. TAUTZ: In-hive behavior of pollen foragers (*Apis mellifera*) in honey bee colonies under conditions of high and low pollen need
Ethology 108, 205-221, 2002.

83. Weidenmüller, A., Kleineidam, Ch. & J. TAUTZ: Collective control of nest climate parameters in bumblebee colonies.
Anim. Behav. 63, 1065-1071, 2002.

84. Spaethe, J., TAUTZ, J. & L. Chittka: Visual constraints in foraging bumble bees: flower size and color affect search time and flight behavior
Proc. Nat. Acad. Sci. USA 98, 3898-3903, 2001.

85. Esch, H., Zhang, S., Srinivasan, M. & J. TAUTZ: Honeybee dances communicate distance by optic flow.
Nature 411, 581-583, 2001 (cover story).

See also

E. Pennisi: Bee dance reveals bee's eye view.
Science 292, 1628-1629, 2001.

86. Roces, F. & J. TAUTZ: Ants are deaf.
Journal of the Acoustical Society of America (JASA) 109, 3080-3082, 2001.

87. S. Streit, S. Fuchs, F. Puppe, F. Kluegl, A. Dornhaus, K. Eggelbusch & J. TAUTZ: Modelling the dynamic of spread and virulence of *Varroa destructor* in a honey bee population using SeSAM (Shell for Simulated Agent Systems).
MOMEDITO-Tagung Prag 2000, 175-181, 2000.

88. TAUTZ, J., Casas, J. & D.C. Sandeman: Phase reversal of vibratory signals in honeycomb may assist dancing honeybees to attract their audience.
J. exp. Biol. 204, 3737-3746, 2001.

Highlighted by K. Phillips „Waggle wobbles wax“. J. Exp. Biol. 204, I, 2001.

89. Groh,C., Brockmann, A., Altwein, M. & J.TAUTZ: Selective blocking of contact chemosensilla in *Apis mellifera*.
Apidologie 33, 33-40 2001.
90. Seeley,T. & J.TAUTZ: Worker piping in honey bee swarms and its role in preparing for liftoff.
J.comp.Physiol.187, 667-676, 2001 (cover story).
91. TAUTZ,J.: Das Festnetz der Bienen.
Spektrum der Wissenschaft August 2002, 60-66, 2002.
92. Thom, C., Gilley,D.C. & J.TAUTZ (2003) Worker piping in honey bees (*Apis m.carnica*): the behavior of piping nectar foragers.
Behav.Eco.Sociobiol.53, 199-205
93. Kleinhenz M, Bujok B, Fuchs S , TAUTZ,J. (2003) Hot bees in empty cells – broodnest heating from within. *Journal of Experimental Biology* 206: 4217-4231
Highlighted by K.Phillips in *The Journal of Experimental Biology* 206, 4181 (2003)
Climate control, bee style.
94. TAUTZ,J.: Hören oder Schwingungen wahrnehmen?
ADIZ; Imkerfreund; Deutsche Bienenzeitschrift 2, 6-8, 2002.
95. Kleinhenz,M., Bujok, B., Fuchs, S. & J.TAUTZ: Regulation of brood nest temperature in honeybee colonies (*Apis mellifera carnica*).
Invited paper.
Fourth European Workshop on Invertebrate Ecophysiology, St.Petersburg,
(edit.V.E.Kipyatkov), 36-38, 2001.
96. Bujok,B., Kleinhenz,M., Fuchs,S & J.TAUTZ: Hot spots in the bee hive.
Naturwissenschaften 89, 299-301, 2002.
97. Strehle, M., Jenke,F., Fröhlich, B., TAUTZ,J., Riederer, Kiefer,W. and J.Popp: A Raman-spectroscopic study of ther spatial distribution of propolis in the comb of *Apis mellifera carnica*
BIOSPECTROSCOPY 72, 217-224, 2003.
98. Spaethe, J., Brockmann, A., Sandeman,R. & J.TAUTZ: Colony flight activity of the Australian stingless bee *Trigona carbonaria* (Hymenoptera: Apidae) measured by a multi-channel event logger.
J.Apicult.Res., submitted.
99. TAUTZ,J.: Die Honigbiene – Neuigkeiten über ein bekanntes Insekt (mit CD-Rom zum Heft). *Unterricht Biologie* 283 (27), 4-13, 2003.
100. TAUTZ J, Sandeman DC: Recruitment of honeybees to non-scented food sources.
Journal of Comparative Physiology A 189 (4), 293-300, 2002.
101. Chittka L, TAUTZ J: The spectral input to the honeybee visual odometry. *Journal of Experimental Biology* 206, 2393-2397, 2002.

102. Seeley TD, Kleinhenz M, Bujok B, TAUTZ J: Thorough warm-up before take-off in honey bee swarms. *Naturwissenschaften* 90, 256-260, 2003.
103. Kleinhenz M, Bujok B, TAUTZ J: Leben im Bienenstock. *Unterricht Biologie* 283 (27), 27-30 (Beihefter), 2003.
104. TAUTZ J, Maier S, Groh C, Roessler W, Brockmann A.: Behavioral performance in adult honey bees is influenced by the temperature experienced during their pupal development. *Proc.Nat.Acad.Sci.USA* 100, 7343-7347, 2003.
(commented in *Science News* <http://www.sciencenews.org/20030524/fob3.asp>)
105. TAUTZ J: Bientanz versetzt die Waben in Schwingung. *Deutsches Bienen Journal* 1, 16-18, 2003.
106. TAUTZ J (2003) Wie fleißig sind Honigbienen wirklich? *ADIZ* 6, 7
107. Sen Sarma,M., Esch, H. & J.TAUTZ: A comparison of the dance language in *Apis mellifera carnica* and *Apis florea* reveals striking similarities *J.comp.Physiol.* 190, 49-53, 2003.
108. Pirk,Chr., Neumann, P., Hepburn,R., Moritz,R.F.A. & J.TAUTZ: Egg viability and worker policing in honey bees. *Proc.Nat.Acad.Sci.USA* 101, 8649-8651, 2004.

Editors Choice in *SCIENCE* 304, 1720, 2004: S.Hurtley “Long live in queens eggs”

Commented “Why do honey bee workers destroy each other’s eggs?” by R.Gadagkar in *J.Biosci.*29, 213-217, 2004.
109. Streit,S., Bock,F., Pirk,Chr. & J.TAUTZ: Automatic Life-long monitoring of individual insect behaviour now possible. *Zoology* 169, 169-171 (cover story), 2003.
110. TAUTZ,J: Neue Wege zu gesünderen Bienen – Früherkennung und Vorbeuge haben Priorität. *ADIZ* 11, 7-8, 2003.
111. TAUTZ,J, Kleinhenz M, Bujok B & F.Fuchs: Raumklimatisierung: Meisterleistung der Honigbienen. *ADIZ* 12, 8-10, 2003.
und
Die neue Bienenzucht 6, 190-192 (cover-story), 2004.
112. Groh,C., TAUTZ,J. & W.Rössler: Synaptic organization in the adult honey-bee brain is influenced by brood-temperature control during pupal development. *Proc.Nat.Acad.Sci.USA* 101, 4268-4273, 2004.
113. Pirk,C.W.W., Hepburn, H.R., Radloff, S.E. & TAUTZ,J: Honeybee combs: construction through a liquid equilibrium process?
Naturwissenschaften 91, 350-353, 2004 (cover story)
114. TAUTZ, J., Zhang,S., Spaethe,J., Brockmann,A., Aung Si & M.Srinivasan: Honeybee odometry: performance in varying natural terrain.

PLOS 2, 0915-0923, 2004

(highlight and primer “Dances as Windows into Insect Perception” by Lars Chittka)

115: Zhang, S., Bock, F., Si, A., TAUTZ, J. & Srinivasan, M.V.: Visual working memory in decision making by honeybees.

Proc.Nat.Acad.Sci.USA 102, 5250-5255, 2004

(Highlighted in “[Faculty of 1000](#) highlights and evaluates the most interesting papers published in biology, based on the recommendations of well [over 1400 selected leading scientists](#)“ (<http://f1000biology.com/article/15795382/evaluation>).

116. TAUTZ, J.: Wunderwerk aus Wachs.

Deutsche Bienenzeitschrift 2004.

117. Spaethe, J., TAUTZ, J. & L.Chittka: Do honeybees detect colour targets using serial or parallel visual search?

J.Exp..Biol. 209, 987-993, 2006,

118. Brockmann, A., Dietz, D., Spaethe, J. & J.Tautz: Beyond 9-ODA -

Sex pheromone communication in the European honey bee *Apis mellifera* L.

Chem. Ecol. 32, 657-667, 2006,

Electronic version access under <http://dx.doi.org/10.1007/s10886-005-9027-2>

119. Tan Ken, F. Bock, S. Fuchs, Sebastian Streit, A. Brockmann and J. TAUTZ

Effects of brood temperature on honey bee (*Apis mellifera* L) wing morphology (in English)

Acta Zoologica Sinica, 51(4), 768-771, 2005.

120. Seeley, T.D., Reich, A.M. and J.TAUTZ: Does plastic comb foundation hinder waggle dance communication?

Apidologie 36, 523-532, 2005.

121. Streit, S., Bock, F. & J.TAUTZ: Der Trick mit dem Chip. VdBiol 3+4, 3-9, 2005.

122. Spaethe, J., Brockmann, A., Halbig, Ch. & J.TAUTZ: Size determines antennal sensitivity and behavioral threshold to odors in bumblebee workers.

Naturwissenschaften 2007

online first DOI 10.1007/s00114-007-0251-1

123. Schäfer, M.O., Dietemann, V., Pirk, C.W.W., Neumann, P., Crewe, R., Hepburn, H.R. TAUTZ, J. and K.Crailsheim: Individual vs. social pathway to honeybee

worker reproduction (*Apis mellifera*): pollen or jelly as protein source for oogenesis?

J Comp Physiol A, 192, 761-768, 2006.

Online DOI 10.1007/s00359-006-0112-y

124. Zhang, S., Schwarz, S., Pahl, M., Hong Zhu and J.TAUTZ: Honeybee memory: A Honey bee knows what to do and when.

J.exp.Biol.209, 4420-4428, 2006.

Highlighted by Sarah Clare “Honeybees make plans”, Inside JEB, ii, 2006.

125. Kralj, J., Brockmann, A. Fuchs, S. & J.TAUTZ: The parasitic mite *Varroa destructor* affects non-associative learning of honey bee foragers *Apis mellifera*.

J.comp.Physiol. 193, 363-370, 2007

126. Su, S., Albert, S., Zhang, S., Maier, S. Chen, S., Du H. & J.TAUTZ: Non-destructive genotyping and genetic variation of fanning in a honeybee colony. *Journal of Insect Physiology* 53, 411-417, 2007
127. Dyer, A.G., Whitney, H.M., Arnold, S.E.J., Glover, B.J. & L.Chittka: Bees associate warmth with floral colour. *Nature* 442, 525, 2006.
Photo-documentation by: B.Bujok, M.Kleinhenz & J.TAUTZ, BEEgroup Würzburg
128. Fehler, Kleinhenz, M., Klügl, F., Puppe, F. and J.TAUTZ: Caps and gaps: a computer model for studies on brood incubation strategies in honeybees (*Apis mellifera carnica*) *Naturwissenschaften* 94, 675-680, 2007
129. Basile, R., Pirk, C.W.W. Pirk & J.TAUTZ: Trophallactic activities in the honeybee brood nest – Heaters get supplied with high performance fuel. *ZOOLOGY* 111, 433–441, 2008
130. Schmid, M.R., Brockmann, A., Pirk, C.W.W., Stanley, D.W. and J.Tautz: Adult honeybees (*Apis mellifera* L.) abandon hemocytic, but not phenoloxidase-based immunity. *J.Insect Physiol.* 54, 439–444, 2008
131. Pahl, M., Zhu, H., Pix, W., TAUTZ, J. & S. Zhang: Circadian timed episodic-like memory – a bee knows what to do when, and also where. *J.Exp.Biol.* 210, 3559-3567, 2007
132. Gross, H.J., TAUTZ, J, Pahl, M., Si, A., Zhu, H. & S.Zhang: Number-based visual generalisation in the honeybee. *PloSOne* 4, e4263. doi:10.1371/, 2009
133. Su, S., Cai, F., Si, A., Zhang, S., TAUTZ, J. and S. Chen: East learns from west: Asiatic honeybees can understand the dances of European honeybees. *PLoS ONE* 3(6): e2365. doi:10.1371/journal.pone.0002365 2008
134. TAUTZ, J.: Cosa sanno le api sui fiori? *Apoidea* 4, 139-149, 2007
135. TAUTZ, J.: Superorganismus Bienenstaat. Der Bien – ein Säugetier mit vielen Körpern. *Biologie in unserer Zeit* 1 (38) 2008, 22-29, 2008
136. TAUTZ, J.: Was Bienen über Blumen wissen. *Entomologie heute*, 20, 27-43, 2008
137. Randolt, K., Gimple, O. Geißendörfer, J., Reinders, J., Prusko, C., Müller, M., Albert, S., TAUTZ, J., & H.Beier: Immune-related proteins induced in the hemolymph after aseptic and septic injury differ in honey bee worker larvae and adults. *Arch. Insect Biochem. Physiol.* 69, 155-167, 2008
138. TAUTZ, J. Was Bienen über Blumen wissen. *SCIENCE FIRST (Russia)* 2008
139. TAUTZ, J & M.Rostas: Honeybee buzz attenuates plant damage by caterpillars. *Current Biology* 18, R1125-R1126, 2008

Symposia-abstracts from posters (P) or oral lectures (V), articles in yearbooks etc.

1A. TAUTZ,J.: Medienvibrationsempfindliche Sinneshaare bei Schmetterlingsraupen: ein an biologische Reizquellen optimal angepasstes Sinnessystem.
Verh.Dtsch.Zool.Ges.1978, 177, 1978. (V)

2A. Pflüger,H.-J. & J.TAUTZ: Luftbewegungsempfindliche Sinneshaare und Interneurone bei der Wanderheuschrecke Locusta migratoria.
Verh.Dtsch.Zool.Ges.1981, 170, 1981. (V)

3A. Plummer,M.R., TAUTZ,J. & J.J.Wine: Response properties and output effect of identified mechanosensory interneurons in the crayfish, Procambarus clarkii.
Neurosci.Abstr.8, 688, 1982. (P)

4A. TAUTZ,J.: Aspects of water vibration localization in the crayfish.
1984 regional meeting of the International Union of Physiological Sciences Jerusalem 1984, 295. (V)

5A. Hamm,I. & J.TAUTZ: Interneurons sensitive to water movements in the 2nd abdominal ganglion of the crayfish.
5th international meeting on insect sound and vibration, Marburg 1985, 50. (V)

6A. TAUTZ,J.: Processing of 1st and 2nd antennal inputs by unimodal and multimodal interneurons in the brain of the crayfish.
5th international meeting on insect sound and vibration, Marburg 1985, 50. (V)

7A. Gnatzy,W., Bender,M. & J.TAUTZ: Das Tritocerebrum des Flußkrebse: Neuroanatomie.
Verh.Dtsch.Zool.Ges.1986, 261, 1986. (P)

8A. TAUTZ,J.: Verarbeitung antennaler mechano- und chemorezeptorischer Eingänge im Gehirn des Flußkrebse.
In: Elsner,N. & W.Rathmayer (eds) Sensomotorik identifizierter Neurone. Beiträge zur 14.Göttinger Neurobiologentagung 1986, 61. (V)

9A. TAUTZ,J.: Reception and localization of waterborne vibrations by antennae and uropods in crayfish.
1st international congress of neuroethology Tokio 1986, 53. (V)

10A. Breithaupt, T. & J.TAUTZ: Vibration sensitivity of the crayfish statocyst.
6th international meeting on insect sound and vibration.
Gamle Avernoes, Dänemark 1987, 49. (P)

11A. TAUTZ,J. & K.Schütte: Antennal scanning movements in crustaceans with and without guidance by tailfan vibration receptors.
6th international meeting on insect sound and vibration.
Gamle Avernoes, Dänemark 1987, 50. (P)

12A. Narins,P., Ehret,G. & J.TAUTZ: An accessory pathway for sound transfer to the frog's ear.
ARO meeting Florida 1988. (V)

- 13A. TAUTZ,J., Ehret,G. & P.Narins: Gibt es Frösche mit 4 Ohren?
Laservibrationsmessungen an Laubfröschen.
Verh.Dtsch.Zool.Ges.1988, 303. (P)
- 14A. Breithaupt,T. & J.TAUTZ: Vibrationsempfindlichkeit der Flußkrebssstatocyste.
Verh.Dtsch.Zool.Ges.1988, 288. (P)
- 15A. Schütte,K., Kaiser,U. & J.TAUTZ: Are the antennae of decapod crustaceans pointers
towards water vibration sources?
In: Elsner,N. & F.G.Barth (eds.) Sense organs interfaces between environment and behaviour.
Proc 16th Göttingen Neurobiology Conference 1988, 85. Thieme, Stuttgart, New York (P)
- 16A. Breithaupt,T. & J.TAUTZ: Vibration sensitivity of the crayfish statocyst. In: Elsner,N.
& F.G.Barth (eds) Sense organs interfaces between environment and behaviour. Proc 16th
Göttingen Neurobiology Conference 1988. 84. Thieme, Stuttgart New York (P)
- 17A. Hamm,I. & J.TAUTZ: Body movements modulate the sensitivity to water vibration in a
crayfish. In: Elsner,N. & F.G.Barth (eds) Sense organs interfaces between environment and
behaviour. Proc 16th Göttingen Neurobiology Conference 1988. 6. Thieme, Stuttgart New
York (P)
- 18A. Breithaupt,T., Bleckmann,H. & J.TAUTZ: The time course and spectral energy
distribution of hydrodynamic flow fields caused by moving fish, frog, and crayfish. In:Proc
17th Göttingen Neurobiology Conference 1989. (P)
- 19A. Ebina,Y., Plummer,M., TAUTZ,J. & B.Schmitz: A neural circuit with feedforward and -
backward connections: model calculations and experimental results. In: Proc 17th Göttingen
Neurobiology Conference 1989. (P)
- 20A. Blickhan,R., Bleckmann,H., Breithaupt,T. & J.TAUTZ: The spatial distribution, time
course and spectral energy content of hydrodynamic flow fields caused by swimming trout.
In: Erber,J., Menzel,R., Pflüger,H.-J. & D.Todt (eds) Neural mechanisms of behavior. Proc
2nd international congress of neuroethology. Berlin 1989. Thieme, Stuttgart New York (P)
- 21A. TAUTZ,J., Schmitz,B., Ehret,G. & P.Narins: The lung-tympanum pathway for sound
transfer in the neotropical frog Eleutherodactylus coqui.
In: Erber, J., Menzel,R., Pflüger,H.-J. & D.Todt (eds) Neural mechanisms of behavior. Proc
2nd international congress of neuroethology. Berlin 1989. Thieme, Stuttgart New York (P)
- 22A. Uhl,R. & J.TAUTZ: Verhaltensorientierung der präkopulatorischen Bewachung bei
Gammarus.
Verh.Dtsch.Zool.Ges.1990, 659 (P).
- 23A. TAUTZ,J.: Crustacean mechanoreceptive hairs: diverse in structure and function.
SEB meeting Birmingham/England 1991 (V).
- 24A. Menzel,J., Schlumberger,A. & J.TAUTZ: Vibrationssignale bei Camponotus floridanus.
Verh.Dtsch.Zool.Ges. 1991 (P)
- 25A. Kaiser,U. & J.TAUTZ: Die Gnathopoden von Gammarus spec.: Morphologie und
Bedeutung im Amplexusverhalten.

Crustaceologen-Tagung Heidelberg 47, 1991 (V).

26A. TAUTZ, J., Broecker, I. & W. Kirchner: Vibrational communication in the dampwood termite Zootermopsis nevadensis.

8th international meeting on insect sound and vibration.

Pommersfelden 1992, 72 (P).

27A. Menzel, J. & J. TAUTZ: Vibration sensitivity in the ant Camponotus.

In: Elsner, N. & M. Heisenberg (eds) Gene-brain-behaviour. Proc 21st Göttingen Neurobiology Conference 1993. 229. (P).

28A. Roces, F., TAUTZ, J. & B. Hölldobler: Short-range recruitment through plant-borne vibrations.

IUSSI Öland, 1993 (V).

29A. TAUTZ, J., Roces, F. & B. Hölldobler: Ants use a vibrator when cutting leaves.

9th international meeting on insect sound and vibration.

Graz 1994. (P).

30A. Kleineidam, Ch. & J. TAUTZ: Elektrophysiologische und morphologische Charakterisierung von Kohlendioxid-Rezeptoren bei der Blattschneiderameise Atta cephalotes.

Electrophysiology and morphology of carbon dioxide receptors in the leaf-cutting ant Atta cephalotes.

DZG Kaiserlautern 1995. (P).

31A. Casas, J., Bacher, S., TAUTZ, J. & R. Meyhöfer: Leaf vibrations and near field air displacement in a leafminer-parasitoid system.

XX International Congress of Entomology Firenze, Italy 1996 (V).

32A. Raub, U. & J. TAUTZ: The drumming behaviour of the carpenter ant Camponotus ligniperda - individual reactivity and group behaviour.

XX International Congress of Entomology Firenze, Italy 1996 (P).

33A. Kleineidam, Chr. & J. TAUTZ: Carbon dioxide receptors in the leaf cutting ant Atta cephalotes.

In: Elsner, N. & H. U. Schnitzler (eds) . Proc 24th Göttingen Neurobiology Conference 1996. 260 (P).

34A. Rohrseitz, K. & J. TAUTZ: Can the antennae play a role in dance communication in honeybees?

Verh. Dtsch. Zool. Ges. 1997, 377 (P).

35A. Raub, U., TAUTZ, J. & B. Hölldobler: The alarm signal of Camponotus ligniperda.

Verh. Dtsch. Zool. Ges. 1997, 375 (P).

36A. Rohrseitz, K. & J. TAUTZ: Can the antennae play a role in dance communication in honeybees?

In: Elsner, N. & H. Wässle (eds). Proc 25th Göttingen Neurobiology Conference 1997, 330 (P).

37A. Kleineidam, Ch. & J. TAUTZ: Response characteristics of carbon dioxide receptors in

the leaf cutting ant Atta sexdens.

In: Elsner,N. & H.Wässle (eds). Proc 25th Göttingen Neurobiology Conference 1997, 408 (P).

38A. Rohrseitz,K. & J.TAUTZ: Can the antennae play a role in dance communication in honeybees?

Ethology (IEC XXV) 32, 113, 1997 (P).

39A. Spaethe,J., S.Schäfer & J.TAUTZ: Active and passive thorax/abdominal flexion in dead, walking and dance-following bees.

Ethology (IEC XXV) 32, 107,1997 (P).

40A. Raub,U., TAUTZ,J. & B.Hölldobler: Drumming signals in carpenter ants Camponotus ligniperdus modulate the reactivity of the ants.

Ethology (IEC XXV) 32, 141,1997 (P).

41A. TAUTZ,J.: Sensory ecology of honeybee communication.

Ethology (IEC XXV) 32, 15,1997 (V).

42A. Kleineidam, Chr. & J.TAUTZ: CO₂ perception and its biological role in ants: monitoring a climatic parameter or cue for orientation?

Ethology (IEC XXV) 32, 105,1997 (P).

43A. TAUTZ, J.: How caterpillars detect predatory paper-wasps -

a case study in sensory ecology (with emphasis on the research methods used for unravelling an air-movement detector).

Boln.Asoc.esp.Ent., Suppl.Vol.21: 79, 1997 (V).

44A. Kleineidam, C. & J.TAUTZ: Response characteristics of carbon dioxide receptors and its biological role in ants.

5th European Symposium for Insect Taste and Olfaction (ESITO) Vol.5, 21. (ed.A.M.Angioy, B.S.Hansson, K.-E.Kaissling & N.J.Strausfeld). Villasimius, Italy, Sept. 1997 (V).

45A. TAUTZ, J., Spaethe,J., Sandeman,R. and D.C.Sandeman: Honeybee abdominal posture and the detection of gravity.

Proceedings of the Australian Neuroscience Society 9, 189, 1998 (P).

46A. TAUTZ, J.: The honeybee comb as a means for "speaking to the masses"

In: Elsner,N. & R.Wechner (eds) New Neuroethology on the move.

Proc 26th Göttingen Neurobiology Conference1998. 92 (V).

(V)

47A. Rohrseitz,K. & J.TAUTZ: A classical hypothesis in honeybee dance communication tested with a new technology.

In: Elsner,N. & R.Wechner (eds) New Neuroethology on the move.

Proc 26th Göttingen Neurobiology Conference1998. 93 (V)

48A. Schöller,M. & J.TAUTZ: Communication and orientation of the honeybee Apis mellifera carnica in a deciduous forest.

In: Elsner,N. & R.Wechner (eds) New Neuroethology on the move.

Proc 26th Göttingen Neurobiology Conference1998. 104 (P)

- 49A. Spaethe, J., Schürkens, S. & J. TAUTZ: The influence of distance, direction and kind of a food source on the location of honeybee dances on the comb.
In: Elsner, N. & R. Wehner (eds) *New Neuroethology on the move*.
Proc 26th Göttingen Neurobiology Conference 1998. 105 (P)
- 50A. Fröhlich, B., Spaethe, J., Krack, S., TAUTZ, J. & M. Riederer: Different waxes of Apis mellifera L. (Hymenoptera: Apidae) and their possible role in the chemical communication in the hive.
In: Elsner, N. & R. Wehner (eds) *New Neuroethology on the move*.
Proc 26th Göttingen Neurobiology Conference 1998. 100 (P).
- 51A. Kleineidam, Ch. & J. TAUTZ: Carbon dioxide receptors and its role for orientation in ants.
In: Elsner, N. & R. Wehner (eds) *New Neuroethology on the move*.
Proc 26th Göttingen Neurobiology Conference 1998. 383 (P)
- 52A. TAUTZ, J., Lindauer, M. & D. C. Sandeman: Die Bienenwabe als Kommunikationsnetz. *Jahrbuch 1996 Akademie der Wissenschaften und der Literatur Mainz*, p.136-143 (mit Farbtafel), 1997.
- 53A. Sandeman, D. C. & J. TAUTZ: Das Bienenbein als Mikrophon für die Schwingungen der Bienenwabe.
Jahrbuch Akademie der Wissenschaften und der Literatur Mainz. 135-137, 1995.
- 54A. TAUTZ, J. & M. Lindauer: Treffpunkt Tanzboden der Honigbienen.
Jahrbuch 1994 Akademie der Wissenschaften und der Literatur Mainz.
137-139, 1995.
- 55A. Kleineidam, C., Ernst, R., Roces, F. & J. TAUTZ: Nest construction and climatisation of the leaf cutting ant Atta vollenweideri.
Zoology 101, 83, 1998, (P DZG).
- 56A. Weidenmüller, A. & J. TAUTZ: Control of pollen collection in honey bee colonies.
Zoology 101, 86, 1998, (P DZG).
- 57A. Kleineidam, Chr. & J. TAUTZ: CO₂ perception and its biological role in ants: monitoring a climatic parameter or cue for orientation? (same title as #42, but other poster)
BMBF "Learning from nature" Göttingen 1998
(award winning poster, selected by M. Eigen, E. Neher et al.).
- 58A. TAUTZ, J. & M. Lindauer: Über Karl von Frischs Sternfolie zur Analyse des Polarisationsmusters des Himmels. *Zoologie* 1997. *Mitteilungen der DZG*, 12-13, 1997.
- 59A. Bujok, B., Kleinhenz, M., Fuchs, S. & J. TAUTZ: Differentiation of thoracic temperatures of honey bee workers (Apis mellifera) in the capped brood region of a colony.
IV. Polsko-niemieckie Sympozjum: "Neue Anforderungen an die Bienenzucht für das 21. Jahrhundert", Hohen Neudorf 1998, 21 (P).
- 60A. TAUTZ, J.: Prof. Dr. Dr. h. c. mult. Martin Lindauer - eine Forscherlegende wird 80.
Der Bienenfreund 1998.

- 61A. Fuchs,S., Dornhaus,A., Hager,R., Klügl,F., Puppe,F. & J.TAUTZ: A parasite-host simulation perspective on virulence in Varroa jacobsoni.
Proc.XII Cingress of IUSSI Adelaide (ed.M.P.Schwarz & K.Hagedorn) 1998 (V).
- 62A. Rohrseitz,K. & J.TAUTZ: The antennae might play a role in dance communication in honeybees.
5th International meeting of the Int.Soc.Neuroethol.San Diego 1998, 214, 1998 (P).
- 63A. Sandeman, D.C., TAUTZ,J. & M.Lindauer: Substrate-borne signals and communication between honeybees.
Meeting Canberra 12/1998 (V).
- 64A. Fröhlich, B.TAUTZ,J. & M.Riederer: Welche Bedeutung haben Wabenwaxe für die chemische Orientierung im Stock der Honigbienen?
Apidologie 1999 (P)
- 65A. Weidenmüller,A. & J.TAUTZ: Pollen - immer nur Pollen? Wie spezialisiert sind sammelnde Honigbienen? Pollen, nothing but pollen? - How specialised are honey bee foragers?
Apidologie 1999 (P) AG Tagung Marburg
(3rd in an award-winning poster contest)
- 66A. Spaethe,J., TAUTZ,J. & L.Chittka: Der Einfluss der Blütenfarbe und -größe auf die Sammeleffizienz von Bombus terrestris. The influence of flower color and size on foraging efficiency in Bombus terrestris.
Apidologie 1999 (P)
- 67A.TAUTZ,J. & M.Frech: Vibrometer bitten zum Tanz. Polytec Info 4/96, 6-7, 1996.
- 68A. Bujok,B., Kleinhenz,M., Fuchs,S. & J.TAUTZ: Differentiation of thoracic temperatures of honey bee workers (Apis mellifera) in the capped brood region of a colony. (same titel as #59, but other poster)
Apidologie 1999 (P) AG Tagung Marburg
(2nd in an award-winning poster contest)
- 69A. Fröhlich,B., TAUTZ,J. & M.Riederer: Discrimination of beewaxes by chemical analyses and by honeybees. Unterscheidung von Bienenwachsen aus der Sicht der Analytik und der Honigbienen.
IUSSI Stuttgart-Hohenheim 41, 1999 (P)
- 70A. Weidenmüller,A., Kleineidam,Ch. & J.TAUTZ: Individual fanning response and the control of nest climate in bumble bee colonies.
Fächelnde Hummeln: Individuelle Reaktionsschwellen und deren Bedeutung für die Nestklimatisierung.
IUSSI Stuttgart-Hohenheim 94, 1999 (V)
(1st in an award-winning oral presentation contest)
- 71A. Spaethe,J. TAUTZ,J. & L.Chittka: Foraging behaviour in bumble bees: the influence of flower size and flower color on foraging efficiency and flight pattern.
Sammelverhalten bei Hummeln: Einfluß von Blütengröße und Blütenfarbe auf

Sammeleffizienz und Flugverhalten.
IUSSI Stuttgart-Hohenheim 87, 1999 (V)

72A. TAUTZ, J. & M. Lindauer: The nest of the honey bee. signal transmission and information storage.
Ital. Entomol. Akademie Florenz 1999 (V)

73A. Weidenmüller, A. Kleineidam, Ch. & J. TAUTZ: Individual fanning response and the control of nest climate in bumble bee colonies.
TMR workshop Sheffield 1999 (V).

74A. Spaethe, J., TAUTZ, J. & L. Chittka: Foraging behavior in Bombus terrestris: the influence of flower size and flower color on foraging efficiency and flight pattern.
TMR workshop Sheffield 1999 (V).

75A. Kleineidam, Ch., Ernst, R., Roces, F. & J. TAUTZ: Sensory ecology of CO₂ perception in leaf-cutting ants.
IUSSI Stuttgart-Hohenheim 60, 1999 (V)

76A. Baumann, K.-H. & V. Arzt (J. TAUTZ, M. Kleinhenz & B. Bujok responsible for the thermovision-sequences): Queen for one summer - the life of the bumblebees (Königin für einen Sommer - aus dem Leben der Hummeln).

45-minute-TV-film-production by WDR.

award winning:

-gold medal on BIOVISION 2000;

-innovation award on WILDLIFE EUROPE 1999

-silver medal on NATURALE 2000

-Merit award for macrophotography and

-Merit award for presentation of biological information

on 23. Int. Wildlife Filmfestival Missoula, Montana USA 2000

-Premio al mejor Film de enseñanza (=best educational film)

on 21. Int. Festival of scientific film in Ronda Spanien 2000.

-Bronze medal on the „New York Festival category nature/animals 2001.

77A. Sandeman, D.C., TAUTZ, J. & M. Lindauer. Leben in einer vertikalen Welt - wie sich Honigbienen nach der Schwerkraft richten.

Jahrbuch 1998 Akademie der Wissenschaften und der Literatur Mainz. 213-219, 1999.

78A. TAUTZ, J.: Bienenwaben sind wirklich optimal.
Spektrum der Wissenschaft 2, 7, 2000.

79A. Eggelbusch, K., Fuchs, S., & J. TAUTZ:

Agentenbasierte Simulation zum Ausbreitungsverhalten des Honigbienenschädling *Varroa jacobsoni* Oudemans - Eine populationsdynamische Darstellung des Milbenbefalls bei interagierenden Bienenvölkern unter Verwendung der Shell für Simulierte Agentensysteme (SeSA_m). 14. ASIM - Workshop Simulation and Artificial Intelligence on Multi-Agent Systems and Individual-Based Simulation, Universität Würzburg, 2000 (P)

80A. Weidenmüller, A., Kleineidam, Chr. & J. TAUTZ: Individual fanning response and the control of nest climate in bumble bee colonies.

8th international behavioral ecology congress

ISBE Zürich 2000, 209 (V).

81A. Spaethe, J., TAUTZ, J. & L.Chittka: Foraging economics in bumble bees: do larger bees do a better job?

8th international behavioral ecology congress

ISBE Zürich 2000, 185 (V).

82A. TAUTZ,J.: Bienen nutzen ihre Waben als Kommunikationsnetz.

BLICK: Forschung Lehre Dienstleistungen 89, 89-90, 1997 (Universität Würzburg).

83A. TAUTZ,J.: Leben in einer vertikalen Welt - wie sich Honigbienen nach der Schwerkraft richten.

ADIZ, Imkerfreund und Die Biene 6/2000, 6-8, 2000.

84A. Spaethe,J. TAUTZ,J. & L.Chittka: Sehen grosse Hummeln besser? Blütendetektion und Größenpolimorphismus bei der Erdhummel (*Bombus terrestris*).

AG Tagung Blaubeuren 2000 (V).

85A. Weidenmüller,A., Kleineidam, Chr. & J.TAUTZ: Control of nest climate in bumble bee colonies.

AG Tagung Blaubeuren 2000 (P).

86A. C.Thom, T.Seeley & J.TAUTZ: Dynamics in the allocation of labor to nectar foraging.

AG Tagung Blaubeuren 2000 (P).

(Evenius-Preis 2000 - award winning for the best poster presentation)

87A. Fuchs,S., Sen Sarma,M., Fischer,T., Werber, Ch., Biswas,S. & J.TAUTZ: Piping and hissing in *A.florea* - an alerting dialog.

8th international behavioral ecology congress

ISBE Zürich 2000, 58 (P).

88A. TAUTZ,J.: Biologen entdecken Kilometerzähler der Bienen.

BLICK: Forschung Lehre Dienstleistungen 1/2000, 36-37, 2000 Universität Würzburg.

89A. Weidenmüller,A., Kleineidam, Ch. & J.TAUTZ: The response threshold concept and nest climate control in bumble bees.

TMR workshop Florenz 2000 (P).

90A. Spaethe,J., TAUTZ,J. & L.Chittka: Foraging economics in bumble bee colonies.

TMR workshop Florenz 2000 (P).

91A. SenSarma,M., Fuchs, S., TAUTZ,J. & Gadagkar,R.: Head pushing - a novel behavior for debris removal in the Asian dwarf bee, *Apis florea*.

8th international behavioral ecology congress

ISBE Zürich 2000, 179 (P).

92A. Thom,C., Seeley, T. & J.TAUTZ: „Dynamics of nectar foraging in honey bee colonies“

8th international behavioral ecology congress

ISBE Zürich 2000, 197 (P).

- 93A. Bujok,B., Kleinhenz,M., Fuchs, S. and J.TAUTZ: Thermal response of honeybee workers to temperature manipulation of sealed brood (*Apis mellifera carnica*).
5th Polish-German apicultural symposium in Pulawy, Poland, 2000 (P)
Pszczelnicze Zeszyty Naukowe Rok XLIV, Nr.2, 343-344, 2000.
- 94A. Dornhaus, A, Chittka, L. and J. TAUTZ: Communication about food sources in social bees - a matter of survival?
Biological communication – a matter of survival.
Symposium University Wageningen 11/2000 (V)
- 95A. S.Streit, S.Fuchs, F.Puppe & J.TAUTZ
Population modelling of *Varroa jacobsoni* using SeSAm, a Multi Agent based simulation
MOMEDITO-Tagung Prag 2000 (V)
- 96A. TAUTZ,J.: Book review „The extended organism“ by J.Scott Turner.
EMBO Reports 1 (6), 468, 2000.
- 97A. TAUTZ,J & F.Roces: Was Ameisen hören.
Spektrum der Wissenschaften 3, ,10, 2001.
- 98A. TAUTZ,J., Lindauer,M. & D.C.Sandeman: Schwingende Wegweiser zur Tänzerin: räumlich stabiles Muster an Zellwandbewegungen.
Jahrbuch 1999 Akademie der Wissenschaften und der Literatur Mainz, p.195-199 (mit Farbtafel), 2000.
- 99A.Groh, C., Altwein,M., Brockmann,AS. & J.TAUTZ: Effect of ZnSO₄ on the antennal chemosensory system of the honeybee, *Apis mellifera*: 1. Reduced sugar (contact chemosensory) elicited PER response.
Göttingen 2001 (P).
- 100A. Altwein,M., Groh,C., Brockmann,A. & J.TAUTZ: Effect of ZnSO₄ on the antennal chemosensory system of the honeybee, *Apis mellifera*: 2. Unaltered olfactory evoked EAG-response.
Göttingen 2001 (P).
- 101A. Groh,C., Altwein,M., Brockmann, A. & J.TAUTZ: Chemical ablation of taste in *Apis mellifera*
EURAPIS-Conference, Patras 2001 (P).
- 102A. Altwein,M., Groh,C., Brockmann,A.. & J.TAUTZ: Activity of antennal chemoreceptors in response to odors.
EURAPIS-Conference, Patras 2001 (P).
- 103A. Fröhlich,B., Riederer,M. & J.TAUTZ: Wax recognition by honeybees
EURAPIS-Conference, Patras 2001 (P).
- 104A. Rybak,J., Mader,M., & J.TAUTZ: Visualisation of synaptic boutons in brain in whole mount brains of insects.
Italy meeting 2001 (P).

- 105A. Groh,C., Brockmann,A. & J.TAUTZ: Chemische Ausschaltung der antennalen Kontakt-Chemosensorik bei *Apis mellifera*
Apidologie 32, 498-499, 2001 (V).
- 106A. Werber,Ch., Fuchs,S. & J.TAUTZ: Piping und Hissing bei der Zwerghonigbiene, Apis florea – ein alarmierender Dialog?
Apidologie 32, 498-501, 2001 (V).
- 107A. Ullrich,R., Wolf,B., Brockmann,A. & J.TAUTZ: Charakterisierung der Proboscis-Streckreaktion bei Hummeln.
Apidologie 32, 498-499, 2001 (V).
- 108A. Wolf,B., Ullrich,R., Spaethe,J. & J.TAUTZ: Einfluss von Motivation, Alter und Körpergröße auf die Zucker-Reaktionsschwelle bei Hummeln
AG-Tagung 2001 Mayen (P).
- 109A. Thom,C., TAUTZ,J. & D.Gilley: Das piping-Signal der Honigbienen: Beobachtungen an Arbeiterinnen.
Apidologie 32, 503-505, 2001 (V).
- 110A. Kleinhenz, M. Bujok, B., Fuchs, S. & J.TAUTZ: Die Körpertemperatur von Arbeitsbienen (*Apis mellifera carnica*) beim Besuch von Wabenzellen.
(Evenius-Preis 2001 - award winning for the best poster presentation)
Apidologie 32, 501-502, 2001 (V).
- 111A. TAUTZ,J.: Book review „The brain´s sense of movement“ by Alain Berthoz.
EMBO Reports 2 (4), 270, 2001.
- 112A. Werber, Ch., Kleinhenz, M. & J.TAUTZ: Die Bienentanzkommunikation am Beispiel der Honigbiene Apis mellifera.
Life Science Live – Münchner Wissenschaftstage Juni 2001 (P).
- 113A. Werber, Ch., Kleinhenz, M., TAUTZ, J., Fuchs, S. & M.SenSarma: Piping und Hissing – eine besondere Alarmkommunikation der Zwerhonigbiene Apis florea.
Life Science Live – Münchner Wissenschaftstage Juni 2001 (P).
- 114A. Thom,C., TAUTZ,J. & D.Gilley: Worker piping in honey bee colonies: observations on nectar foragers.
TMR workshop Granada 2001 (P).
- 115A. Schöller, M, Fröhlich,B., TAUTZ,J., Riederer,M., Kiefer, W. and J. Popp: Eine Raman-Spektroskopische Analyse der räumlichen Verteilung von Propolis in den Waben von *Apis mellifera carnica* Pollm.
Jahrestagung der Gesellschaft deutscher Chemiker Würzburg, 2001 (P).
- 116A. Harald E. Esch, Shaowu Zhang, Mandyam Srinivasan, and Juergen TAUTZ:
Direction and amount of optic flow perceived in a narrow tunnel determine dance patterns of honeybees.
ICN Bonn 2001 (P).
- 117A. TAUTZ,J.: Superorganismus Bienenstaat: Arbeitsteilung und Kommunikation.

<http://www.lebenswissen.de/1veranstlat/index-1.htm> (V).

Life Science Live Leipzig 2001.

118A. Groh, C., Demmel, H. & J.TAUTZ: Fernsehsendung über Bienen und Hummeln im Tigerentenclub 2001.

(Sendungen: 11.08.01 ARD; 11.08.01 Kinderkanal; 12.08.01 SWR III)

119A. TAUTZ,J.: Book review „Robo Sapiens“ by Peter Menzel and Faith 'D'Aluisio. EMBO Reports 2 (7), 2001.

120A. Kleinhenz,M., Bujok,B., Fuchs, S. & J.TAUTZ: Regulation of brood nest temperature in honeybee colonies (Apis mellifera carnica).

Fourth European Workshop on Invertebrate Ecophysiology, St.Petersburg, 2001 (V).

121 A. Rybak, J., TAUTZ,J. u.a.: Staatenbildende Insekten – Neurobiologie des Verhaltens. IUMAX Universität Würzburg Juni 2001 (P und lebende Tiere).

122 A: Groh, C., Brockmann, A., Fröhlich, B. and J.TAUTZ: Effect of ZnSO₄ on the antennal chemosensory system of the honeybee Apis mellifera.

IUSSI Berlin, 193, 2001 (P).

123 A: TAUTZ,J. Book review “Evolution and Human Behaviour: Darwinian Perspectives on Human Nature” by John Cartwright.

EMBO Reports 2 (9), 1-2, 2001.

124 A: Fuchs, S., Sen Sarma, M., Werber, Ch., TAUTZ, J.:The cry of the honeybee (Apis florea).

IUSSI Berlin, 164, 2001 (P).

125 A: Thom,C., Gilley,D. & J.TAUTZ: Worker piping in honey bee colonies.

IUSSI Berlin, 34, 2001 (P).

126 A. Werber, Ch., Kleinhenz, M. & J.TAUTZ: Die Bienentanzkommunikation am Beispiel der Honigbiene Apis mellifera.

Contribution on honeybees for a CD for schools edited by VdBiol. 2001

127 A. Werber, Ch., Kleinhenz, M., TAUTZ, J., Fuchs, S. & M.SenSarma: Piping und Hissing – eine besondere Alarmkommunikation der Zwerghonigbiene Apis florea.

Contribution on honeybees for a CD for schools edited by VdBiol. 2001

128 A.: SenSarma, M., TAUTZ,J., Schöller, M. & R.Gadagkar: Do landscapes influence distance estimation in honeybees?

IUSSI Berlin, 166 2001 (P).

129 A: TAUTZ,J., Lindauer,M. & D.C.Sandeman: Die Arbeitsgruppe Bienenforschung am Biozentrum der Universität Würzburg berichtet.

Jahrbuch 2000 Akademie der Wissenschaften und der Literatur Mainz, p.195-199 (mit Farbtafel), 2001.

130 A: TAUTZ,J. : Book review „Thieves, Deceivers and Killers: Tales of Chemistry in Nature“ by W.Agosta.

EMBO-Reports 2 (11), 979, 2001.

131 A.: Gniwotta,F., Fröhlich, B., Riederer,M., & J.TAUTZ: Erkennungsschlüssel im Wabenwachs der Honigbiene (*Apis mellifera*).
Apidologie 32, 505-506, 2001 (V).

132A: TAUTZ,J.: Tanzsprache: Lügende Bienen enthüllen die Wahrheit.
BLICK: Forschung Lehre Dienstleistungen 2/2001, 64-65, 2001 (Universität Würzburg).

133 A: Sen Sarma, M., Fuchs, S., TAUTZ, J., Gadagkar, R., Werber, Ch., Fischer, T. & S. Biswas: The problems of being exposed: solutions from the Asian dwarf honeybee *Apis florea*
Advances in Ethology 36, 263. 2001 (P).

134 A: TAUTZ,J. & Ch.Werber: Die Wabe der Honigbienen – ein “Festnetz” zur Nachrichtenübermittlung.
Contribution on honeybees for a CD for schools edited by VdBiol. 2001

135 A: TAUTZ,J., Lindauer,M. & D.C.Sandeman: Die Arbeitsgruppe Bienenforschung am Biozentrum der Universität Würzburg berichtet.
Jahrbuch 2001 Akademie der Wissenschaften und der Literatur Mainz, p.199-202, 2002.

136 A: Groh, C. TAUTZ,J., Strohm, E. & J. Rybak : Reconstructing the beewolf brain *Philanthus triangulum* F.
DZG Jena 2002 (P).

137 A: Bujok,B., Kleinhenz,M., Fuchs, S. & J.TAUTZ: Brood incubation strategies of individual honeybee workers (*Apis mellifera carnica*)
DZG Jena 2002 (P).

138 A: Kleinhenz,M., Bujok,B., Fuchs, S. & J.TAUTZ: Die Thoraxtemperaturen von Arbeiterbienen innerhalb von Wabenzellen.
Apidologie 33, 496, 2002.
Award winning poster

139 A: Spaethe, J., Brockmann, A., Sandeman, R. & J. TAUTZ: Die Flugaktivität am Nest der australischen stachellosen Biene *Trigona carbonaria*.
DZG Jena 2002 (P).

140 A: TAUTZ,J. : book review “Connected lives: more than the sum of all parts”
EMBO 2, 306, 2002.

141 A. Spaethe,J. Brockmann,A., Sandeman,R. & J.TAUTZ: Die Flugaktivität am Nest der australischen stachellosen Biene *Trigona carbonaria*.
AG-Tagung Celle 2002 (P).

142 A: Brockmann, A., Spaethe, J., Krohne,G. & J. TAUTZ:
Größenunterschiede zwischen Hummelarbeiterinnen und ihre Auswirkung auf die Geruchssinnesorgane.
AG-Tagung Celle 2002 (P).

- 143 A: Bujok, B., Kleinhenz, M., Fuchs, S. & J. TAUTZ: Beobachtungen zum Brutwärmeverhalten von Arbeiterbienen (*Apis mellifera carnica*). *Apidologie* 33, 497, 2002.
Award winning poster durch „Freunde des Niedersächsischen Bienen-Institutes“.
- 144 A: TAUTZ, J.: Hummeln: Gehirn als Flugbremse.
BLICK: Forschung Lehre Dienstleistungen 1/2002, 59, 2002 (Universität Würzburg).
- 145 A: TAUTZ, J.: Raffinierte Vibrationen weisen Bienen den Weg.
BLICK: Forschung Lehre Dienstleistungen 1/2002, 66, 2002 (Universität Würzburg).
- 146 A: J. Spaethe, A. Brockmann & J. TAUTZ: Brain polymorphism and division of labor in bumble bees.
IUSSI Sapporo 2002 im Symposium "INFORMATION PROCESSING IN THE BRAIN OF SOCIAL INSECTS" (V).
- 147 A: J. TAUTZ: Heiße Bienen sorgen im Stock für Nestwärme.
BLICK: Forschung Lehre Dienstleistungen 2/2002, 59, 2002 (Universität Würzburg).
- 148 A: J. TAUTZ, M. Lindauer, T. Seeley: Vibrationspulse als Auslöser für das Aufheizen eines Bienenschwarmes vor dem Abflug.
Jahrbuch 2002 Akademie der Wissenschaften und der Literatur Mainz, p.xxxx, 2002.
- 149 A: TAUTZ, J. A. Brockmann: Killer bees – taming the swarm.
Film for the BBC and DISCOVERY Channel. UK and USA market.
Contributions on sensory physiology of honeybees. January 2003.
- 150 A: TAUTZ, J. and “beeples” Mitarbeit an ZDF-Fernsehsendung über Honigbienen, 2003.
- 151 A: Brockmann, A., Spaethe, J., Harbig, Ch & J. TAUTZ: Micro- and macroscale workers in *Bombus terrestris*: Allometry in an olfactory system and its consequences for olfactory sensitivity.
Neurobiologen Göttingen 2003
- 152 A: Rybak, J., Groh, C., Meyer, Ch., Strohm, E. & J. TAUTZ: 3-D reconstruction of the beewolf brain, *Philanthus triangulum* F.
Neurobiol. Göttingen 2003.
- 153 A: Pirk, C.W.W., Hepburn, H.R., Hepburn, C. and J. Tautz:
The effects of environmental and genetic factors determining the cell size of honeybee comb.
Proceedings of the XXXVIII th Apimondia International Apicultural Congress; Ljubljana, Slovenia, August 24-29, 2003
- 154 A: Streit, S. TAUTZ, J. Fuchs, S. & F. Puppe: Modelling the dynamic of spread and virulence of parasites in honey bee populations in particular the parasitic mite *Varroa destructor*.
Apimondia 2003
- 155 A: Pirk, Ch.W.W., Hepburn, H.R., Radloff, S.E., Hepburn, C. & J. TAUTZ (2003)
The structure of honeybee cells – round or hexagonal?

Apidologie 34

156 A: Labor-Journal "beeple"-Beitrag 2003.

157 A: TAUTZ,J. & M.Riederer: Interview mit einer Honigbiene.
DFG-forschung 2/2004, 20-23, 2004.

158 A: Philipp Reis war nicht der Erste – das Jahrmillionen alte Telefonnetz der Honigbienen
Physikalische Gesellschaft Frankfurt/Main, Jahrbuch 2002, 2004.

159 A: Bujok,B. & J.TAUTZ (2003) Zellbesuche im gedeckelten Brutbereich der
Honigbiene.
Apidologie 34, 491

160 A: Kleinhenz,M. & J.TAUTZ (2003): Computer-basierte Farbmarkierung an
Honigbienen.
Apidologie , 34, 488-489

161 A: Dietz,D., Brockmann,A., Spaethe,J. & J.TAUTZ (2003) 90DA +? New results for old
experiments with a drone carousel.
Apidologie 34

162 A: TAUTZ,J.(2003) Mit chips bepakte Bienen haben keine Geheimnisse mehr
BLICK: Forschung Lehre Dienstleistungen 2/2003, 70-71, 2003 Universität Würzburg.
(cover story)

163 A: TAUTZ,J.(2003) Klügere Bienen durch gut geheizte Kinderstube.
BLICK: Forschung Lehre Dienstleistungen 2/2003, 72-73, 2003 Universität Würzburg.

164 A: TAUTZ, J.(2003) So überwintern die Honigbienen.
MediZini (Apothekenblatt für Kinder) 12-2003.

165 A: TAUTZ,J.(2004) Book review „Sex wars“ by M.E.N.Majerus
EMBO Reports 5 (3), 2004

166 A: TAUTZ,J. & M.Riederer (2004) Honigbienen erkennen das Alter ihres Wachses.
BLICK. Forschung Lehre Dienstleistungen in press, 2004 (Universität Würzburg).

167 A: TAUTZ,J (2004) Können Bienen rückwärts fliegen?
Natur & Kosmos März 2004, 72.

168 A: TAUTZ,J. (2003) Honig als Brennstoff.
Istein (Magazin des BMBF), 4, Dez.2003
http://www.bmbf.de/pub/Istein_12_2003.pdf

169 A: Bock,F., Streit,S., Pokolm,A. & J.TAUTZ (2004) Einfluss differentieller
Brutbedingungen auf das Verhalten der Honigbiene.
AG-Tagung Münster 3-2004
Apidologie

170 A: Basile, R., Bujok, B., Hertenberg, D., Schoop, U. & J. TAUTZ
Unterdurch“schnittlich“ - Wie wichtig sind die Antennen für die Thermoregulation?
AG-Tagung Münster 3-2004
Apidologie

171 A: TAUTZ,J.: Honigbienen erkennen das Alter ihres Wachses.
BLICK: Forschung Lehre Dienstleistungen 39-41, 2004 (Universität Würzburg).

172 A: TAUTZ,J.: Wie Bienen ihre Geschwister ausbrüten.
BLICK: Forschung Lehre Dienstleistungen 78-79, 2004 (Universität Würzburg).

173 A: TAUTZ,J. & M.Riederer: Interview mit einer Honigbiene. DFG-Forschung 2/2004,
20-23, 2004.

Also English version: DFG German research: Interview with the honeybee. 36-39,
2-3, 2004.

Also in yearbook DFG 2004

Also in PROMETEO 91, 94-97, 2005 (Intervista con la Socievole Ape Mellifica”

174 A: Pirk, C.W.W., Basile,R., Fuchs,S., Klügl-Frohmeier,F., Fehler,M. & J.TAUTZ: Using
multi-agent based simulation of brood rearing behaviour in honeybees (Apis mellifera L.) as
an example of task allocation in social insects.

Proc. of the First European Conference of Apidology, Udine September 2004. 50, 2004.

175 A: Bock, F., Streit,S. & J.TAUTZ: Automastic insect identification with RFID.
Proc. of the First European Conference of Apidology, Udine September 2004. 60, 2004.

175 A: Pirk, C.W.W., Neumann, P., Hepburn,R., Moritz, R.F.A. & J.TAUTZ: Egg removal
behaviour in honeybees (Apis mellifera L.)

Proc. of the First European Conference of Apidology, Udine September 2004. 62, 2004.

176 A: JEB book review on “Bumblebees, why we do need them?“. Dave Goulson:
Bumblebees – Behaviour and Ecology
J.exp.Biol 2004.

177 A: TAUTZ,J. , Streit,. & F.Bock: Smarte Fliegengewichte als Verhaltensforscher.
RFID-Forum 9/2004, 34-38, 2004.

178 A: TAUTZ,J.: Wunderwerke aus Wachs. Deutsches Bienenjournal 11-2004, 4-5, 2004.

179 A: TAUTZ, J.: Werkstoff- und Fügetechnik im Anlagenbau von Insekten
– Die Wabe der Honigbiene.
Festvortrag anlässlich der 33.Sondertagung des TÜV Deutschland vom 15.-18.Februar 2005
in München. Tagungsband

180 A. TAUTZ, J., Kleinhenz, M., Bujok, B., Bock, F. & S. Fuchs
La climatizzazione dell’ambiente: un capolavoro dell’ape Le api “fochiste” e il loro
comportamento nel nido
Apoidea 1, 55-59, 2004.

- 181 A: TAUTZ, J.: Wo bin ich? Wohin will ich? Orientierung und Navigation bei Honigbienen.
Physikalische Gesellschaft Frankfurt/Main, Jahrbuch 2003, 94-100, 2005.
- 182 A: J.Tautz, S.Streit, F.Bock & M.Lindauer: Mit Mikrochips und Scanner: Eine neue Dimension in der Erforschung des Verhaltens der Honigbienen
Jahrbuch 2003 Akademie der Wissenschaften und der Literatur Mainz, p....., 2005.
- 183 A: Schmid M. R, Brockmann A., Pirk Ch. W. W., Stanley D. W. & TAUTZ J.: Dependency of the cellular immune system of the honey bee (*Apis mellifera*) on age , season, task and gender.
First Joint Conference of the Arbeitsgemeinschaft der Institute für Bienenforschung and the German Speaking Section of the International Union for the Study of Social Insects. 2005
- 184 A: Borchardt T., Basile R. & TAUTZ J.: Position and allocation of antenal sensillae in *Apis mellifera carnica* und *Apis florea*.
First Joint Conference of the Arbeitsgemeinschaft der Institute für Bienenforschung and the German Speaking Section of the International Union for the Study of Social Insects. 2005
- 185 A: Kralj J., Brockmann A., Fuchs St. & TAUTZ J.: Parasitic mite *Varroa destructor* affects non-associative learning of honey bee foragers *Apis mellifera*.
First Joint Conference of the Arbeitsgemeinschaft der Institute für Bienenforschung and the German Speaking Section of the International Union for the Study of Social Insects. 2005
- 186 A: Basile R. & TAUTZ J.: Observations regarding the phenomenon of temporary storage of nectar in cell within the brood nest.
First Joint Conference of the Arbeitsgemeinschaft der Institute für Bienenforschung and the German Speaking Section of the International Union for the Study of Social Insects. 2005
(Evenius-Preis 2005 - award winning for the best poster presentation)
- 187 A: Seeley Th. D., Kleinhenz M., Bujok B. & TAUTZ J.: Das Temperaturverhalten von Schwarmbienen vor dem Abflug.
First Joint Conference of the Arbeitsgemeinschaft der Institute für Bienenforschung and the German Speaking Section of the International Union for the Study of Social Insects. 2005
- 188 A: Kleinhenz M., TAUTZ J., Manara J. & Arduini-Schuster M.-C.: Transmission of thermal radiation through beeswax.
First Joint Conference of the Arbeitsgemeinschaft der Institute für Bienenforschung and the German Speaking Section of the International Union for the Study of Social Insects. 2005
- 189 A: Schoop U., Basile R. & TAUTZ J.: Changes in honeybee brood heating behaviour by *Varroa* mite specific injuries.
First Joint Conference of the Arbeitsgemeinschaft der Institute für Bienenforschung and the German Speaking Section of the International Union for the Study of Social Insects. 2005
- 190 A: Pirk, Ch. & TAUTZ,J.: Individual behavioural profile in the honeybee is affected by brood rearing temperature.
First Joint Conference of the Arbeitsgemeinschaft der Institute für Bienenforschung and the German Speaking Section of the International Union for the Study of Social Insects. 2005
- 191 A: TAUTZ,J. & M.Riederer: Interview mit einer Honigbiene.

DFG-forschung Spezial 2005, 26-29, 2005

192 A: TAUTZ,J.: Good vibrations. LM POLYTEC special 2/2005,14-15, 2005.

193 A: Kleinhenz, M., Bujok, B., Fuchs, S. & J.TAUTZ: Brood nest incubation strategies in honeybees.

Proc.3rd European IUSS, St.Petersburg, 76-77, 2005

194 A: Schmid M. R, Brockmann A., Pirk Ch. W. W., Stanley D. W. & TAUTZ J.:

Unterscheiden sich Jungbienen und Sammlerinnen in ihrer Immunkompetenz?

AG-Tagung Münster 3-2004. Apidologie

195 A.: Tautz, J., Schmid, M. & M.Lindauer: Altersabhängigkeit der zellulären Immunreaktion der Honigbiene.

Jahrbuch 2005 Akademie der Wissenschaften und der Literatur Mainz, 2006.

196 A: Fuchs, S. Kralj, J. & J.TAUTZ: Radio Frequency Identification tags (RFID) for monitoring of worker bees infested with Varroa destructor or with Nosema apis at the hive entrance. Apidologie, 37, 644, 2006

197 A: TAUTZ,J.: Von der Farbmarkierung zum RFID-Chip.

BLICK: Forschung Lehre Dienstleistungen 1/2006, 47-48, 2006 (Universität Würzburg).

198 A: Schmid,M., Brockmann, A., Pirk, Ch. & J.TAUTZ: Life-history dynamics in the immune system of the honey bee (Apis mellifera L.)

Conferences Jacques-Monod in Roscoff: Insect immunity: the post-genomic era. 2006. P50

199 A: Ruhs,W., Berg, S. , TAUTZ,J. & V.Zahner: Untersuchungen zum Verlust von Varroamilben (Varroa destructor) bei Flugbienen.

AG Tagung Hohenheim 2006

200 A: Esdar,R., Wilden,., Wetzl,W., Gätschenberger,H. & J.TAUTZ: Doping für die Honigbiene? Eine Testmethode zur Futteroptimierung.

AG Tagung Hohenheim 2006

201 A: Melcher,J., Mund,E., Sinapius,M., Braue, W., Hildmann,B. TAUTZ,J. , Günster, J. & G. Heinrich: Bionische Aktuatoren für die Adaptronik.

Bionik-Kongress in Bremen: Patente aus der Natur, 27.-28. Oktober 2006, Bremen

202 A: Pirk, C.W.W., Brockmann, A. & J.TAUTZ: Changes in the constitutive immune system of honeybee workers.

Innate immunity: bridging the gap between ecology and molecules, Plön 2004, 31, 2004

203 A: TAUTZ, J., Gimple, O. & M.J. Müller: Health research in honey bees. BioNews 27, 6-7, 2007

In English and German edition

204A: Mario Pahl, M., Zhu,H., Pix, W., TAUTZ,J., Zhang, S.: Honeybee memory: Bees can schedule their activities in time and space.

AOVSM Canberra 2006 (P)

- 205 A: Zhang, S., Pahl, M., Si, A., Pix, W. & J. Tautz: The role of global and local landmarks in honeybee navigation.
ASSAB 2007 ASSAB 2007 (P)
- 206A: TAUTZ,J. & R.Basile: Honig – mehr Brennstoff als Futter.
Deutsches Bienenjournal 4-2007, 4-5, 2007.
- 207A: Gross, H.J., Beier,H. &J. Tautz: INNATE IMMUNE RESPONSE TO PATHOGENS IN INVERTEBRATES (APIS MELLIFERA). Basic Science for Medicine. International Conference, Novosibirsk, September 2 – 8, 2007.
- 208A: TAUTZ,J.: Leben – die Organisierung von Materie und Energie in Raum und Zeit
Buch Vorträge Königsteiner Forum 2007.
- 209A: TAUTZ,J., Beier, H., Gimple, O. & K.Randolt: Pathogenabwehr. Fitte Bienenvölker – Die vielfältigen Gesundheitsstrategien des Superorganismus „Honigbienenstaat“.
Labor & more 2007
- 210A: Honeybee memory: Bees can schedule their activities in time and space
Mario Pahl, Hong Zhu, Waltraud Pix, Juergen TAUTZ & Shaowu Zhang
ARC COE Vision Science 2007
- 211A: Alterspezifische Arbeitsteilung unter die Lupe genommen
(S) Marius Kilchenstein, Sandra Ostler, Rebecca Basile, Jürgen Tautz
AG Tagung 2007 Würzburg
- 212A: Hochleistungstreibstoff für Schwerstarbeiterinnen Ressourcenmanagement im Bienenstock
(S) Rebecca Basile, Christian W.W. Pirk, Jürgen Tautz
AG Tagung 2007 Würzburg
- 213A: Unterkühlte Stimmung im Brutnest - Untersuchungen zum Hygieneverhalten bei Apis Mellifera
(S) Katrin Mühlfeld, Rebecca Basile, Jürgen Tautz
AG Tagung 2007 Würzburg
- 214A: Schneider, Illies, Fuchs, Tautz-Poster
AG Tagung 2007 Würzburg
- 215A: TAUTZ,J.: The nest of honeybees: comb construction and thermoregulation. Atti dell'Accademia Nazionale Italiana di Entomologia, Rendiconti Anno LIV, 51-61, 2006.
- 216A: TAUTZ,J.: BEE-onik – Lernen von den Waben der Honigbiene.
Biologie in unserer Zeit 6, 342-343, 2007.
- 217A: Basile, R. Ostler, S. Thomas, A. & J.TAUTZ: Das geheime Leben der Heizerinnen ? Das Verhältnis von Nachfrage und Angebot im Energiekontext der Thermoregulation.
AG-Tagung 2006 in Stuttgart
- 218 A: Basile; R. Peschke, A., Weber; A. & J.TAUTZ: (K)eine Revolution im Winterpalais – dem Verhalten des Hofstaats im Winter auf der Spur.

AG-Tagung 2006 in Stuttgart

219A: Klein, B.A., Stiegler, M., Klein, A.T. & J.TAUTZ: Mapping Sleep Across a Society: Spatial and Temporal Analysis of Worker Honey Bee Sleep
Sleep Meetings Baltimore, Maryland, 2008

220A: Randolt, K., Gimple, O., Gätschenberger, H., Beier, H. & J.TAUTZ
Entwicklungsspezifische Expression von antimikrobiellen Proteinen in der Haemolymphe der Honigbiene nach artifizierter Infektion.
AG Tagung 2008

221A: Melcher, J., Mund, E., Sinapius, M., Braue, W., Hildmann, B., TAUTZ, J., Günster, J., Heinrich, J.G., 2006: „Bionische Aktuatoren für die Adaptronik“, Bionics Congress in Bremen: Patents from Nature, 2006, Bremen

222A: Melcher, J., Mund, E., Gillhoff, M., Fingerhut, D., Braue, W., Hildmann, B., Heinrich, J.G., Günster, J., TAUTZ, J., 2007: „Piezokeramische Wabenaktuatoren“, Annual Innovation Report of DLR's Institute of Composite Structures and Adaptive Systems, 2007

223A: Melcher, J., Mund, E., Sinapius, M., Fingerhut, D., Braue, W., Heinrich, J.G., Günster, J., TAUTZ, J., 2007: „Bionisches Schwingungserregersystem“, DLR-IB 131-2007/16, 2007

224A: Melcher, J., Mund, E., Sinapius, M., Fingerhut, D., Braue, W., TAUTZ, J., Kleinhenz, M., Heinrich, J.G., Günster, J., 2007: „Bionisches Schwingungserregersystem“, BMBF Contest „Bionik-Innovationen aus der Natur“, Deutsches Technikmuseum, Berlin, 2007

225A: Mario Pahl, M., Zhang, S., Mi, J., Pix, W., Zhu, H. & J.TAUTZ: Celestial and terrestrial cues in honeybee homing. (Poster)
Invertebrate Vision Conference 1.8.-8.8.2008 (www.iciv.se)

226A: Kralj, J., Gimple, O., Schmid, M. and J.TAUTZ: Immune response in honey bees infested with Varroa destructor measured by phenol oxidase activity.
AG-Tagung 2008

227A: Kralj, J., Fuchs, S. & J.TAUTZ: Disease removal by altered flight behavior of forager honeybees (Apis mellifera) infested with Nosema Apis. Poster
EuroBee 2006 in Prag

228A: Basile, R. & J. TAUTZ: "Heatseeker - Heat as a Trigger for Trophallactic Activities in the Honeybee (V)

229A: Randolt, K., Gimple, O., Gätschenberger, H., Beier, H. & J.TAUTZ:
Entwicklungsspezifische Expression von antimikrobiellen Proteinen in der Haemolymphe der Honigbiene nach artifizierter Infektion.
(V).
(Evenius-Preis 2008 - award winning for the best oral presentation)

230A: Thomas, A., Basile, R., Reinders, Y. & J.TAUTZ: Low Carb Diet for Honeybees - Investigations On the Protein Metabolism of Summer and Winter Honeybees. (P)

- 231A: Thomas, A., Basile, R., Reinders, Y. & J.TAUTZ: Ain't that a prick in my abs? Measuring the Immunocompetence in Honeybees. (P)
- 232A: Hartmann, U., Basile, R. & J. TAUTZ: Linear Bitchiness - Dominance Hierarchy, Antisociality and Juvenile Hormone in Queenless Honeybee Groups. (P)
(Running second in Evenius-Preis 2008 - award winning for the best poster presentation)
- 233A: TAUTZ,J.: Leben – Die Organisation von Materie und Energie in Raum und Zeit. Königsteiner Forum XXX Abenteuer Information: Natur und Wissenschaft im Dialog. pp.13-45, 2008.
- 234A: Pahl, M. & J.TAUTZ: Denn sie wissen, was sie tun? Deutsches Bienen-Journal 245, Juni 2008.
- 235A: Klein, B.A., Stiegler, M., Klein, A. & J.TAUTZ: Mapping sleep behavior in a society of insects: Spatial and temporal analysis of worker honey bee sleep. Paper #35671
Annual meeting November 16-19, 2008.
Entomological Society of America meetings in Reno Nevada.
- 236A: Pahl, M. TAUTZ, J., Pix, W., Zhu, H. & , S.Zhang: Celestial and terrestrial cues in honeybee homing. IVIC International conference on invertebrate vision, Sweden 2008
- 237A: TAUTZ, J.: Что пчёлы знают о цветах (Was Bienen über Blumen wissen). Science First, Russia 2008.
- 238A: Songkun Su, Fang Liu, Yi Zhan, Shenglu Chen, Shaowu Zhang, Jürgen TAUTZ: The Differences between *Apis cerana cerana* and *Apis mellifera ligustica*: From Genes to Behaviors.
Conference of Asia Apiculture Association in Hangzhou, November 1-4th 2008 (Poster)
- 239A: Kraus,F.B., Rosenkranz,P, Frey,E., TAUTZ,J. & R.F.A.Moritz:
Fugapis: Funktionelle Genom Analyse auf Krankheitsresistenzen bei der Honigbiene. 2008-12-18
- 2009 AG-Tagung Schwerin 240A – 243A
- 240A: Sabine Steigerwald, Ingrid Illies, Klara Azzami, Heike Gätschenberger und Jürgen Tautz²
The influence of different pollen diets on the life span and the immune system of the honey bee.
- 241A: Heike Gätschenberger, Olaf Gimple, Jürgen TAUTZ: Humorale Immunreaktion von Drohnen nach bakterieller Infektion
- 242A: Klara Azzami, Heike Gätschenberger, Olaf Gimple, Hildburg Beier, Jürgen TAUTZ: Haben Winterbienen ein schwächeres Immunsystem als Sommerbienen?
- 243A: Stefan Albert, Klara Azzami, Heike Gätschenberger, Gudrun Grimmer, Olaf Gimple, Martin J. Mueller, Jürgen TAUTZ: Hypothetisches Protein (HP) von 30 kDa : ein Bienen-spezifischer Immunfaktor

244A: Mario Pahl, Hans J. Gross, Aung Si, Hong Zhu, Jürgen TAUTZ, Shaowu Zhang:
Number-Based Visual Generalisation in the Honeybee
Rennes 2009

245A: Christof Schneider , Danilo Bevk, Jasna Kralj, Stefan Fuchs, Jürgen TAUTZ: Effects
of pesticides on flight behaviour and foraging activity of honey bees *Apis mellifera carnica*
Apimondia 2009

246A: Jasna Kralj, Stefan Fuchs, Christof Schneider, Jürgen TAUTZ:
Flight activity of bees infected by *Nosema ceranae* by using radio frequency identification
methodology.
Apimondia 2009

247A: Jasna Kralj, Axel Brockmann, Jürgen TAUTZ
Common effects of varroosis and nosemosis on learning abilities of honey bee foragers *Apis
mellifera carnica*
Apimondia 2009

248 A: TAUTZ,J. & O.Gimple: Health Research in Honey Bees. *Beeecraft* July 2009, 17-18

249A: Pahl,M. & J.TAUTZ: Wie Honigbienen die Welt erleben. *labor & more* 3-2009, 24-26,
2009.

250 A: Pahl,M. , Gross, H.J., Si, A., Zhu,H., TAUTZ, J. & S. Zhang:
Number-based visual generalization in the honeybee.
IEC meeting 2009 (P)
<http://iec2009.univ-rennes1.fr/>

Monographs

M 1. TAUTZ,J.: Medienbewegung in der Sinneswelt der Arthropoden - Fallstudien zu einer Sinnesökologie.

Information processing in animals Vol.6 (Hrsg.M.Lindauer). pp.59.

G.Fischer, Stuttgart 1989.

M 2. Wiese,K., Krenz,W., TAUTZ,J., Reichert,H. & B.Mulloney (edit.): Frontiers in Crustacean Neurobiology. pp.561.

Birkhäuser, Basel 1990.

M3. TAUTZ,J: Phänomen Honigbiene (Mit Bildern von H.R.Heilmann).

278 Seiten, 180 farb. Abb., Geb. m. SU

ISBN: 978-3-8274-1845-6

Spektrum-Elsevier, Heidelberg 2007.

TAUTZ,J: The Buzz about Bees - Biology of a Superorganism (photos by H.R.Heilmann)

284 p. with 230 color illus.

Hardcover. ISBN 978-3-540-78727-3

Springer Heidelberg Berlin 2008

For all further translations see under

http://www.bienenforschung.biozentrum.uni-wuerzburg.de/die_beegroup/publikationen/populaere_publicationen/phaenomen_honigbiene_das_buch/internationale_ausgaben_von_phaenomen_honigbiene/

Book chapters

B 1. TAUTZ,J.: Verhaltensökologie

in: Handbuch zur angewandten Umweltforschung Bd.1: Handbuch zur Ökologie, (ed.W.Kuttler), 1993. pp.491-494.

B 2. Hrncir, M., Barth, F.G. and TAUTZ,J.: Acoustic Communication in Bees.

Book-chapter in "Insect Sound and Communication", CRC Press 2005.

B 3. TAUTZ,J. & B.Bujok: Bee dance.

In Encyclopaedia of Language and Linguistics. Elsevier 2004

Plus Supplementary material by J.TAUTZ, F.Bock and S.Streit

B 4: Mitarbeit am Schulbuch Fokus Biologie, Gymnasium Bayern, Jahrgangsstufe 8, Cornelsen Verlag 2007, Teil Honigbienen.

B 5: TAUTZ,J. Lernen von den Honigbienen. Kap.6 in: bionicprocess (ed.P.Reinauer), 83-96, 2008

B 6: TAUTZ,J. & H.Beier: Ein Superorganismus mit vielen Facetten: Hightech im Bienenvolk.

In Biotechnologie (edit.R.Renneberg), Spektrum 2009.

B 7: Pahl,M., J.TAUTZ & S.Zhang: Honeybee cognition.
in: Behavior: Evolution and mechanisms (edit.P.Kappeler), Springer 2010

B 8: TAUTZ,J. : Die Honigbiene – vom „Intellektuellen Bienenstachel Darwins“ zum
Musterfall der Evolutionsforschung.
Darwin Buch (Edit: Wrede) 2010

B 9: Rostas,M. & J.TAUTZ: Ants as Pollinators of Plants and the Role of Floral Scents (in
All flesh is grass. Edit: Seckbach). 2010

Patents

Melcher, J., Krämer, M., Heinrich, J., Günster, J., TAUTZ, J., 2005: „Verfahren zur
Herstellung keramischer Konstruktionselemente im Nano- bis Zentimeter-Bereich“, German
Patent DE 10 2005 025367.9, 2005

Melcher, J., Krämer, M., Heinrich, J., Günster, J., TAUTZ J., 2006: „Procédé de réalisation
d’une structure à forme spatiale optimisée“, French Patent 06 04 427, 2006

Melcher, J., Krämer, M., Heinrich, J., Günster, J., TAUTZ, J., 2006: „Method of Forming a
Structure Having an Optimized Three-Dimensional Shape“, US Patent 11/443,781, 2006