

PUBLICATIONS OF WILLIAM HOVANITZ

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1936

1. Notes on some California butterflies. *Pan-Pacific Entomologist*, 11(4):190-192. ["1935"]

1937

2. Note on *Argynnis skinneri* Holland (Lepidoptera-Nymphalidae). *Pan-Pacific Entomologist*, 13(1-2):60.
3. On *Argynnis coronis* W. H. Edws. (Lepidoptera-Nymphalidae). *Bulletin of the Brooklyn Entomological Society*, 32(4):166-168.
4. A new race of *Oeneis chryxus* (Dbl. & Hew.) (Lepidoptera: Satyridae). *Entomological News*, 48(8):228-230.
5. Concerning the *Plebejus icarioides* Rassenkreis (Lepidoptera: Lycaenidae). *Pan-Pacific Entomologist*, 13(4):184-189.

1938

6. The interpretation of the term subspecies and the status of names applied to lower categories of Lepidoptera. *Entomological News*, 49(2):39-41.

1940

7. The probable mechanism controlling parallel color variation in butterflies [abstract]. *Bulletin of the Ecological Society of America*, 21(2):14.
8. Ecological color variation in a butterfly and the problem of "protective coloration". *Ecology*, 21(3):371-380. [reprinted as paper 129].
9. Some environmental factors involved in the parallel color variation of butterflies [abstract]. *Bulletin of the Ecological Society of America*, 21(4):40-41.

1941

10. Genetic and ecologic analyses of wild populations in Lepidoptera [abstract]. *Bulletin of the Ecological Society of America*, 22(2):13.
11. The selective value of aestivation and hibernation in a California butterfly. *Bulletin of the Brooklyn Entomological Society*, 36(3):133-136.
12. Parallel ecogenotypical color variation in butterflies. *Ecology*, 22(3): 259-284. [reprinted as paper 130].
13. Variable frequencies of a dominant color gene in a wild population. *Records of the Genetics Society of America*, 10:146.

1942

14. Variable frequencies of a dominant color gene in a wild population [abstract]. *Genetics*, 27(1):146.
15. Genetic and ecologic analyses of wild populations in Lepidoptera, 1: Pupal size and weight variation in some California populations of *Melitaea chalcadon*. *Ecology*, 23(2):175-188.
16. Genetics of natural populations. VII. The allelism of lethals in the third chromosome of *Drosophila pseudoobscura*. *Genetics*, 27(4): 363-394. [Sewall Wright, Theodosius Dobzhansky and WH]
17. The biology of racial or species differences in *Colias* [abstract]. *Bulletin of the Ecological Society of America*, 23(4):68-69.

1943

18. The nomenclature of the *Colias chrysotheme* complex in North America (Lepidoptera, Pieridae). *American Museum Novitates*, 1240: 1-4. [supplemented by paper 25].
19. Hybridization and seasonal segregation in two races of a butterfly occurring together in two localities. *Biological Bulletin*, 85(1):44-51.
20. Geographical variation and racial structure of *Argynnis callippe* in California. *American Naturalist*, 77(772):400-425.

1944

21. Genetic data on the two races of *Colias chrysotheme* in North America and on a white form occurring in each. *Genetics*, 29(1):1-30.

22. The distribution of gene frequencies in wild populations of *Colias*. *Genetics*, 29(1):31-60.
23. The ecological significance of the color phases of *Colias chrysotheme* in North America. *Ecology*, 25(1):45-60.
24. A genetic study of wild populations and evolution. *Caldasia* [Bogotá, Colombia], 2(10):459-464.
25. Supplementary notes on the name *Colias kootenai* Cockerell. *Canadian Entomologist*, 76(9):212. [supplement to paper 18].
26. Physiological behavior and geography in control of the alfalfa butterfly. *Journal of Economic Entomology*, 37(6):740-745.

1945

27. The distribution of *Colias* in the equatorial Andes. *Caldasia* [Bogotá, Colombia], 3(13):283-300.
28. Comparisons of some Andean butterfly faunas. *Caldasia* [Bogotá, Colombia], 3(13):301-306.
29. Geographical regularity in the variation and supposed mimicry of a butterfly, *Limenitis bredowii*. *American Naturalist*, 79(784):472-474.
30. The combined effects of genetic and environmental variations upon the composition of *Colias* populations. *Annals of the Entomological Society of America*, 38(4):482-502.

1946

31. Comparisons of mating behavior, growth rate, and factors influencing egg hatching in South American *Haemagogus* mosquitoes. *Physiological Zoology*, 19(1):35-53.
32. Note on the direction of flight of butterflies in northern Florida. *Bulletin of the Brooklyn Entomological Society*, 40(5):170-171. ["1945"].
33. Comparative dispersal of female color types of *Colias* [abstract]. *Genetics*, 31(2):218.
34. Comparative dispersal of female color types of *Colias* [abstract]. *Records of the Genetics Society of America*, 14:48.
35. Studies on the genetics of populations of insects. *Laboratory of Vertebrate Biology, University of Michigan, Report for 1946*, page 12.

1947

36. Physiological factors which influence the infection of *Aedes aegypti* with *Plasmodium gallinaceum*. *American Journal of Hygiene*, 45(1): 67-81.

37. Occurrence of parallel series of associated physiological and morphological characters in diverse groups of mosquitoes and other insects. *Contributions from the Laboratory of Vertebrate Biology, University of Michigan*, 32:1-24.
38. An electron microscope study of isolated chromosomes. *Genetics*, 32(5):500-504.

1948

39. A graphic method of illustrating ecological and geographical distributions. *Ecology*, 29(1):121-122.
40. Differences in the field activity of two female color phases of *Colias* butterflies at various times of the day. *Contributions from the Laboratory of Vertebrate Biology, University of Michigan*, 41:1-37.
41. [note on distinguishing between *Colias philodice* and *C. eurytheme*] *Lepidopterists' News*, 2(5):60.
42. A method of filing butterflies for the study of geographical variation. *Annals of the Entomological Society of America*, 41(1):48-50.
43. Ecological segregation of inter-fertile species of *Colias*. *Ecology*, 29(4):461-469.
44. Change of host plant preference in *Colias philodice*. *Journal of Economic Entomology*, 41(6):980-981.
45. Review: *Le Faralle Diurne d'Italia*, by R. Verity. *American Naturalist*, 81(800):391.

1949

46. Review: *Butterflies*, by E. B. Ford. *Ecology*, 30(2):262-263.
47. Interspecific matings between *Colias eurytheme* and *Colias philodice* in wild populations. *Evolution*, 3(2):170-173.
48. The internal structure of isolated chromosomes. *Wasmann Collector*, 7(6):233-242. [WH, A. R. T. Denues and Ruth Mary Sturrock]
49. Increasing variability in populations following natural hybridization. Pp. 339-355 in Jepson, Glenn Lowell, Ernst Mayr and George Gaylord Simpson (editors). *Genetics, Palaeontology and Evolution*. Princeton, New Jersey: Princeton University Press. xiv + 474 pp. [reprint Atheneum, New York, 1963].

1950

50. The biology of *Colias* butterflies. I. The distribution of the North American species. *Wasmann Journal of Biology*, 8(1):49-75.

51. The biology of *Colias* butterflies. II. Parallel geographical variation of dimorphic color phases in North American species. *Wasmann Journal of Biology*, 8(2):197-219.

1951

52. The biology of *Colias* butterflies. III. Variation of adult flight in the arctic and subarctic. *Wasmann Journal of Biology*, 9(1):1-9.

1952

53. Genetic and ecological analyses of wild populations in Lepidoptera. II. Color pattern variations in *Melitaea chalcona*. *Wasmann Journal of Biology*, 9(3):257-310. [Mary Jude LeGare & WH]
54. New meanings in insect coloration. *Science Counselor*, 15:4-6.
55. Amphi-Atlantic study of *Colias hecla*, *Colias nastes* and *Colias palaeno*. *Yearbook of the American Philosophical Society* for 1951:142-144.

1953

55. [Hybridization between different *Colias* species]. *Pan-Pacific Entomologist*, 29(1):67-68. [Summary of formal address in Proceedings of the 226th meeting of the Pacific Coast Entomological Society]
57. Chromosome structure. I. Analysis of spiral or nodule fragmentations. *Wasmann Journal of Biology*, 11(1):1-22.
58. Isolated chromosomes from calf thymus. *Anatomical Record*, 117(3):608.
59. Natural hybridization in Eurasiatic *Colias hyale* and *Colias croceus* [abstract]. *Anatomical Record*, 117(3):647.
60. *Textbook of Genetics*. New York: Elsevier Press, Inc. xii + 420 pp.
61. Polymorphism and evolution. *Symposia of the Society for Experimental Biology*, 7:238-253.

1954

62. Chromosome structure. II. Chromosome of calf thymus. *Wasmann Journal of Biology*, 11(3):257-266. ["1953"]
63. Chromosome structure. III. Coiling in giant chromosomes (advance notice). *Wasmann Journal of Biology*, 12(2):129-131.
64. Recent results on the structure of the chromosome. *Atti del IX Congresso Internazionale di Genetica in Caryologia*, (supplement): 647-649.

1955

65. *Colias nastes* and *Colias hecla* from the Meade River, Alaska. *Wasmann Journal of Biology*, 13(1):1-8.
66. Cytological demonstration of the helical structure of giant chromosomes. *Proceedings of the National Academy of Sciences* [Washington, D.C.], 42(9):609-613.
67. Amphi-Atlantic study of *Colias hecla*, *Colias nastes*, and *Colias palaeno*. *Yearbook of the American Philosophical Society* for 1955: 135-136.
68. Hybridization and species blending in the butterfly genus *Colias*. *Proceedings of the XIV International Congress of Zoology* [Copenhagen, 1953], pp. 140-141.

1957

69. Book Review: *Moths*, by E. B. Ford. *Ecology*, 38(1):179.
70. *Tratado de genetica*. Madrid, Spain: Aguilar. xii + 469 pp. [Spanish edition of publication 60].

1958

71. The role of genetics in the taxonomy of the Lepidoptera. *Lepidopterists' News*, 11(1-3):10-12. ["1957"]
72. Distribution of butterflies in the New World. *American Association for the Advancement of Science, Publication* 51:321-368.

1959

73. Insects and plant galls. *Scientific American*, 201(5):151-162.

1961

74. Minutes of the eighth annual meeting of the Pacific Slope Section of the Lepidopterists' Society. *Journal of the Lepidopterists' Society*, 15(4):251-252.

1962

75. Chemical nature of an insect gall growth-factor. *Plant Physiology*, 37(1):98-103. [D. R. McCalla, Margaret K. Genthe and WH]
76. Editorial. *Journal of Research on the Lepidoptera*, 1(1):1
77. The effect of various food plants on survival and growth rate of *Pieris*. *Journal of Research on the Lepidoptera*, 1(1):21-42 [WH and Vincent Chuen Sun Chang]

78. Three factors affecting larval choice of food plant. *Journal of Research on the Lepidoptera*, 1(1):51-61. [WH and V. C. S. Chang]
79. The generic, specific and lower category names of the Nearctic butterflies: Preface. *Journal of Research on the Lepidoptera*, 1(1):63.
80. The distribution of the species of the genus *Pieris* in North America. *Journal of Research on the Lepidoptera*, 1(1):73-83.
81. *Argynnis* and *Speyeria*. *Journal of Research on the Lepidoptera*, 1(1):95-96.

1963

82. Geographical distribution and variation of the genus *Argynnis*. I. Introduction. *Journal of Research on the Lepidoptera*, 1(2):117-119.
83. Geographical distribution and variation of the genus *Argynnis*. II. *Argynnis idalia*. *Journal of Research on the Lepidoptera*, 1(2):119-123.
84. The relation of *Pieris virginiensis* Edw. to *Pieris napi* L.: Species formation in *Pieris*? *Journal of Research on the Lepidoptera*, 1(2):124-134.
85. The effect of hybridization of host-plant strains on growth rate and mortality of *Pieris rapae*. *Journal of Research on the Lepidoptera*, 1(2):157-162. [WH and V. C. S. Chang]
86. Change of food plant preference by larvae of *Pieris rapae* controlled by strain selection, and the inheritance of this trait. *Journal of Research on the Lepidoptera*, 1(2):163-168. [WH and V. C. S. Chang]
87. Selection of Allyl Isothiocyanate by larvae of *Pieris rapae* and the inheritance of this trait. *Journal of Research on the Lepidoptera*, 1(3):169-182. [WH and V. C. S. Chang]
88. Geographical distribution and variation of the genus *Argynnis*. III. *Argynnis diana*. *Journal of Research on the Lepidoptera*, 1(3):201-208.
89. The effectiveness of different isothiocyanates on attracting larvae of *Pieris rapae*. *Journal of Research on the Lepidoptera*, 1(4):249-259. [WH, V. C. S. Chang and Gerald Honch]
90. The origin of a sympatric species in *Colias* through the aid of natural hybridization. I. Introduction. *Journal of Research on the Lepidoptera*, 1(4):261-267.

91. The origin of a sympatric species in *Colias* through the aid of natural hybridization. II. Geographical relationships between *Colias hecla*, *Colias nastes* and *Colias palaeno*. *Journal of Research on the Lepidoptera*, 1(4):267-272.
92. The origin of a sympatric species in *Colias* through the aid of natural hybridization. III. Characteristic differences between *Colias hecla*, *Colias nastes* and *Colias palaeno*. *Journal of Research on the Lepidoptera*, 1(4):273-274.
93. Ovipositional preference tests with *Pieris*. *Journal of Research on the Lepidoptera*, 2(3):185-200. [WH and V. C. S. Chang]
94. The origin of a sympatric species in *Colias* through the aid of natural hybridization. IV. Population analyses from significant regions. *Journal of Research on the Lepidoptera*, 2(3):205-223.

1964

95. Comparison of the selective effect of two mustard oils and their glucosides to *Pieris* larvae. *Journal of Research on the Lepidoptera*, 2(4):281-288. ["1963"] [WH and V. C. S. Chang]
96. Book Review: *Introduction to Comparative Entomology*, by R. M. Fox and J. W. Fox. *Journal of Research on the Lepidoptera*, 3(1):8.
97. Book Review: *A Synonymic List of the Nearctic Rhopalocera*, by C. F. dosPassos. *Journal of Research on the Lepidoptera*, 3(1):18.
98. The origin of a sympatric species of *Colias* through the aid of natural hybridization. V. Population comparisons. *Journal of Research on the Lepidoptera*, 3(1):37-44.
99. Adult oviposition responses in *Pieris rapae*. *Journal of Research on the Lepidoptera*, 3(3):159-172. [WH and V. C. S. Chang]

1965

100. The alteration of host plant specificity in larvae of *Pieris rapae* by induction. *Journal of Research on the Lepidoptera*, 4(1):13-21. [WH and V. C. S. Chang]
101. A *Colias christina* gynandromorph. *Journal of Research on the Lepidoptera*, 4(1):41.
102. *Colias christina-alexandra* intergradation. *Journal of Research on the Lepidoptera*, 4(1):42 + cover.

103. Alaska refreshments. *Journal of Research on the Lepidoptera*, 4(2):113.
104. Parallel ecogenotypical color variations in butterflies. *Journal of Research on the Lepidoptera*, 4(2):114 + cover. [color reprint of figure 9 of paper 12]

1967

105. Ecological color variation in some *Argynnis* of the western United States. *Journal of Research on the Lepidoptera*, 6(3):197-198. [color reprint of figure 4 in paper 12]
106. Natural habitats. *Journal of Research on the Lepidoptera*, 6(3):199-202. [r.e. *Philotes sonorensis* and introduction to series]
107. Man-made habitat for *Colias eurytheme*. *Journal of Research on the Lepidoptera*, 6(4):267.

1969

108. Present and ice age life zones and distributions. *Journal of Research on the Lepidoptera*, 7(1):31-34. ["1968"]
109. Trials of several density estimators on a butterfly population. *Journal of Research on the Lepidoptera*, 7(1):35-49. ["1968"] [William R. Hanson and WH]
110. Habitat: *Argynnis callippe laurina*. *Journal of Research on the Lepidoptera*, 7(1):50. ["1968"]
111. Habitat: *Pieris beckeri*. *Journal of Research on the Lepidoptera*, 7(1):56. ["1968"]
112. Inherited and/or conditioned changes in host-plant preference in *Pieris*. *Entomologia experimentalis et applicata*, 12(5):729-735.

1970

113. Habitat: Specific type locality, *Plebejus icarioides missionensis* H. *Journal of Research on the Lepidoptera*, 7(2):122. ["1968"]
114. Habitat: General type locality, *Glaucopsyche lygdamus xerces* Bdv., *Plebejus icarioides pheres* Bdv. *Journal of Research on the Lepidoptera*, 7(2):126. ["1968"]
115. Habitat — *Zerene caesonia eurydice* Bdv. *Journal of Research on the Lepidoptera*, 7(4):182. ["1968"]
116. Habitat — *Euchloe hyantis andrewsi*. *Journal of Research on the Lepidoptera*, 8(1):16-17. ["1969"]
117. Habitat — *Argynnis nokomis*. *Journal of Research on the Lepidoptera*, 8(1):20. ["1969"]

1971

118. Habitat — *Colias philodice eriphyle* and *Colias eurytheme*. *Journal of Research on the Lepidoptera*, 8(4):182. ["1969"]
119. Habitat — *Oeneis chryxus stanislaus*. *Journal of Research on the Lepidoptera*, 8(4):194. ["1969"]
120. Review: *The moths of America north of Mexico. Fascicle 21. Sphingoidea* by R. W. Hodges. *Journal of Research on the Lepidoptera*, 9(1):10. ["1970"]
121. Review: *Butterflies of Trinidad and Tobago*, by M. Barcant. *Journal of Research on the Lepidoptera*, 9(1):24. ["1970"]
122. Habitat — *Colias cautieri*. *Journal of Research on the Lepidoptera*, 9(2):100. ["1970"]
123. Habitat — *Yramea cytheris*. *Journal of Research on the Lepidoptera*, 9(2):126. ["1970"]
124. Habitat — *Argynnis adiaсте*. *Journal of Research on the Lepidoptera*, 9(3):168, 192. ["1970"]

1972

125. Review: *Jamaica and its Butterflies*, by F. M. Brown and B. Heine-man. *Journal of Research on the Lepidoptera*, 10(2):148. ["1971"]

1973

126. Lack of melanism in *Colias*. *Journal of Research on the Lepidoptera*, 11(4):218 + cover. ["1972"]

1974

127. Variation in *Colias nastes* of Lapland. *Journal of Research on the Lepidoptera*, 12(3):180 + cover. ["1973"]

1975

128. [introduction to series devoted to institutions featuring Lepidoptera]. *Journal of Research on the Lepidoptera*, 13(1):66. ["1974"]

1978

129. Ecological color variation in a butterfly and the problem of "protective coloration". *Journal of Research on the Lepidoptera*, 17 (Supplement): 10-25, 1978(79). [reprint of paper 8]

130. Parallel ecogenotypical color variation in butterflies. *Journal of Research on the Lepidoptera*, 17 (Supplement): 26-65, 1978(79). [reprint of paper 12]

1979

131. Distribution and geographical variation of *Argynnis adiate* (Lepidoptera: Nymphalidae). *Journal of Research on the Lepidoptera*, 18: in press. [left by WH as unfinished manuscript, finished by Scott E. Miller]