

Interrelationship Between Insects And Plants Pierre Jolivet

*International Bibliography of Book Reviews of Scholarly Literature
Chiefly in the Fields of Arts and Humanities and the Social Sciences -
1999*

Novel Aspects of the Biology of Chrysomelidae - Pierre H. Jolivet 1994
Chrysomelidae, along with Curculionidae and Bruchidae, are the most important phytophagous Coleoptera. At least 37,000 species of leaf beetles belonging to 19 subfamilies have now been described, and more probably remain to be discovered, especially in the tropics. Many species are familiar agricultural pests. The Colorado potato beetle, the cereal beetle, flea beetle and the corn root worms are but a few of the well known pests. Because of the economic importance and biological diversity, chrysomelids are an important taxonomic group for scientific inquiry. This book is divided into eight parts, entitled palaeontology, larvae and larval biology, trophic selection, genetics and evolution defence mechanisms, anatomy and reproduction, pathogens and natural enemies, and general studies in biology. The biologies of agricultural and forestry pests, *Leptinotarsa*, *Plagioder*, *Entomoscelis*, *Paropsis*, *Mecistomela* and *Aspidomorpha* are dealt with in detail. Others, such as *Timarcha* and those in the poorly known *Megalopodinae*, are covered in Part VIII. In this volume the American, European, Asian and Australian fauna occupy the greatest part. This volume, together with *Biology of Chrysomelidae* (1988), provides a comprehensive coverage and helps to complete the picture of chrysomelid biology.

Research on Chrysomelidae - Pierre Jolivet 2008

There are an estimated 40,000 species of chrysomelids, or leaf beetles, worldwide. These biologically interesting and often colorful organisms, such as the tortoise beetles, have a broad range of life histories and

fascinating adaptations. For example, there are chrysomelids with shortened wings (brachypterous) and elytra (brachelytrous), other species are viviparous, and yet other leaf beetles have complicated anti predator-parasitoid defenses. Some species, such as corn rootworms (several species in the genus "*Diabrotica*") constitute major agricultural crop pests. "*Research on Chrysomelidae 2*" is the second volume of a series of volumes on the Chrysomelidae edited by Jolivet, Santiago-Blay, and Schmitt.

Insect-Plant Biology - Louis M. Schoonhoven 2005-12

"Half of all insect species are dependent on living plant tissues, consuming about 10% of plant annual production in natural habitats and an even greater percentage in agricultural systems, despite sophisticated control measures. Plants are generally remarkably well-protected against insect attack, with the result that most insects are highly specialized feeders. The mechanisms underlying plant resistance to invading herbivores on the one side, and insect food specialization on the other, are the main subjects of this book. For insects these include food-plant selection and the complex sensory processes involved, with their implications for learning and nutritional physiology, as well as the endocrinological aspects of life cycle synchronization with host plant phenology. In the case of plants exposed to insect herbivores, they include the activation of defence systems in order to minimize damage, as well as the emission of chemical signals that may attract natural enemies of the invading herbivores and may be exploited by neighbouring plants that mount defences as well." "*Insect-Plant Biology* discusses the operation of these mechanisms at the molecular and organismal levels, in the context of both ecological interactions and evolutionary relationships. In doing so, it uncovers the highly intricate

antagonistic and mutualistic interactions that have evolved between plants and insects. The book concludes with a chapter on the application of our knowledge of insect-plant interactions to agricultural production." "This multidisciplinary approach will appeal to students in agricultural entomology, plant sciences, ecology, and indeed anyone interested in the principles underlying the relationships between the two largest groups of organisms on earth: plants and insects."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Interrelationship Between Insects and Plants - Pierre Jolivet

1998-05-27

One of the world's most insightful writers on the subject brings together an array of important and readable information on the ways in which insects and plants coexist in nature. *Interrelationship Between Insects and Plants* is a rare and expansive look at the intertwining of these two vastly different species. Its aim is to summarize in a simple and understandable way the basis of food selection among insects, and to review the various sides of their relationships with plants.

Fascinating Insects - Pierre Jolivet 2005

This book highlights the very successful and much diversified group of organisms, the insects, and deals with some interesting aspects of insect life, which are often ignored in entomology textbooks. There are chapters on ants making "slaves;" insect migrations; chemical defence strategies; parental care and love; AIDS and insects; killer bees; and intelligence. The book also includes first-hand experiences of the great traveller-naturalist Prof. P. Jolivet, who narrates the re-emergence of the 17-year-cycle cicada in the USA in May 2004; the occurrence of insects on the great tepuys of Venezuela; marching of army ants in the tropical Africa; and much more. Pierre Jolivet, D. Sc., has written many research papers and books on the beetle family Chrysomelidae. His areas of special interest include the biology of Timarcha, food plants of chrysomelids, and ants-plants relationship. He has co-edited four important books on Chrysomelidae: *Biology of Chrysomelidae* (1988), *Novel Aspects of the Biology of Chrysomelidae* (1994), *Chrysomelidae Biology*, in three volumes (1996), and *New Developments in the Biology of Chrysomelidae*

(2004). In recognition of Dr Jolivet's valuable contribution in the subject, the Fifth International Symposium on Chrysomelidae, held in Aug. 2000 in Brazil, was named after him. K.K. Verma, M. Sc., Ph. D., taught zoology and entomology for over 35 years, both at undergraduate and postgraduate levels in M.P. Government Colleges, India. He has also specialized in the functional morphology and physiology of Chrysomelidae. He has to his credit a number of outstanding papers published in both Indian and international journals. In 2002, he co-authored a book, *Biology of Leaf Beetles*, summarizing the current knowledge about leaf beetles. This appropriately illustrated, eclectic volume of short essays, written with enthusiasm, grace and wit by two knowledgeable, broadly experienced insect scientists, will assist the entomologically uninitiated to appreciate the wonders and complexity of the small creatures whose environment humans inhabit, and will expand the horizons of the initiated with refreshing and useful insights into a wide variety of entomological topics. George E. Ball, entomologist, professor emeritus, University of Alberta, Canada This book is written with panache, highlighting the extraordinary adaptations shown by insects. People will eventually awaken to the amazing insect biodiversity that surrounds us. With this book, we are encouraged to follow a fascinating journey of discovery into the world of insects. Christian Mille, entomologist, Institut Agronomique neo-Caledonien, La Foa, Nouvelle-Caledonie This original and unusual book on truly fascinating creatures, not casually dedicated to Jean-Henry Fabre, is not a handbook for identification of insects, or an "official" text of entomology. It is a travel guide -- reflecting the journeys and experiences of the authors throughout the world -- into different aspects of the life of the most diverse extant group of organisms ... I would recommend this book both to students and nature lovers who would find in it much to learn about insects, as well as to professionals. Achille Casale, professor of zoology and entomology, University of Sassari, Italy Fascinating as Fabre's *Souvenirs Entomologiques*, but here, they are real life-experiences under the tropics, incredible but true, related with talent. Yves Delange, professor of botany, National Museum of Natural History, Paris, France

Magill's Encyclopedia of Science : Animal Life: Respiratory system-zoos - Carl W. Hoagstrom 2002

Covers various aspects of zoology in four volumes, including the behavior, class, evolution, and physiology of both wild and domestic animals.

Forthcoming Books - Rose Army 1998

Introduction to Insect Biology and Diversity - Howell V. Daly 1998

Extensively revised and reorganized, the second edition of Introduction to Insect Biology and Diversity serves as an ideal text for courses in general entomology with laboratory sections. Written for students who have completed an introductory course in biology, it provides an in-depth treatment of both the biology of insects and their classification, including keys for identification for over four hundred families. The common insects of North America are discussed as well as species found elsewhere in the world. Parts I and II provide reading material for lectures: Part I: Insects as Organisms, covers morphology, physiology, and behavior, including social behavior. Part II: Insect Ecology, begins with population biology and includes chapters on insects in relation to their environments and pest management. Part III, Insect Diversity, provides source material for the laboratory. The classification of insects, their evolution, and fossil record are discussed first, followed by coverage of each order in terms of general biology and ecology, keys for identification of families, and, in some chapters, discussion of the biologies of families. All insect orders and over four hundred families of insects are treated. This second edition features new chapters on population biology, insects and microbes, pest management, and methods for making an insect collection. It is illustrated with new line drawings by Barbara Boole Daly and many new photographs, including 48 in color, by Edward S. Ross. A unique feature in a text of this kind, these color photographs allow students to witness a variety of life forms and habits that they normally would not have the opportunity to observe in nature.

The British National Bibliography - Arthur James Wells 2000

Carnivorous Plants of Australia - Allen Lowrie 1987

Ants and Plants - Pierre Jolivet 1996

New Developments in the Biology of Chrysomelidae - Pierre Jolivet 2021-10-25

This book summarizes what is actually known about the biology of Leaf Beetles. It is the most recent study in the field. The many and varied topics dealt with in this book cover almost all aspects of phylogeny, classification, paleontology, parasitology, biogeography, defenses, population biology, genetics and biological control as well as many other subjects. The most renowned specialists in these fields have been chosen to put together a diverse, state-of-the-art publication.

Biology of Chrysomelidae - P. Jolivet 2012-12-06

As in most groups of insects, scientific research on the Chrysomelidae began in Europe in 1758, with the description of a few genera and species by the Scandinavian entomologists C. von Linne, I.C. Fabricius, and others. As the 19th century dawned, many systematic entomologists took up the study of chrysomelid beetles, together with other groups of beetles, and many new species and genera were described from all parts of the world. This trend has, of course, continued down to the present time. However, researches on the Chrysomelidae did not remain restricted to systematics, and many new lines of study have been followed, especially in the present century, by workers who have benefitted from the advances made in related fields of pure and applied entomology. Much has been achieved in the study of the Chrysomelidae, as elsewhere, and it is the aim of the present book to provide a summary and guide to these achievements. It is also to be expected that this book will provide a stimulus for further studies on the Chrysomelidae, so that we can anticipate continuing progress in our knowledge and understanding of this group through the endeavours of an ever-increasing number of scientists. I offer my congratulations to all concerned in the preparation of this book and my best wishes for its success.

Cumulated Index to the Books - 1999

Fascinating Insects - Pierre Jolivet 2005

This book highlights the very successful and much diversified group of organisms, the insects, and deals with some interesting aspects of insect life, which are often ignored in entomology textbooks. There are chapters on ants making "slaves;" insect migrations; chemical defence strategies; parental care and love; AIDS and insects; killer bees; and intelligence. The book also includes first-hand experiences of the great traveller-naturalist Prof. P. Jolivet, who narrates the re-emergence of the 17-year-cycle cicada in the USA in May 2004; the occurrence of insects on the great tepuys of Venezuela; marching of army ants in the tropical Africa; and much more. Pierre Jolivet, D. Sc., has written many research papers and books on the beetle family Chrysomelidae. His areas of special interest include the biology of Timarcha, food plants of chrysomelids, and ants-plants relationship. He has co-edited four important books on Chrysomelidae: *Biology of Chrysomelidae* (1988), *Novel Aspects of the Biology of Chrysomelidae* (1994), *Chrysomelidae Biology*, in three volumes (1996), and *New Developments in the Biology of Chrysomelidae* (2004). In recognition of Dr Jolivet's valuable contribution in the subject, the Fifth International Symposium on Chrysomelidae, held in Aug. 2000 in Brazil, was named after him. K.K. Verma, M. Sc., Ph. D., taught zoology and entomology for over 35 years, both at undergraduate and postgraduate levels in M.P. Government Colleges, India. He has also specialized in the functional morphology and physiology of Chrysomelidae. He has to his credit a number of outstanding papers published in both Indian and international journals. In 2002, he co-authored a book, *Biology of Leaf Beetles*, summarizing the current knowledge about leaf beetles. This appropriately illustrated, eclectic volume of short essays, written with enthusiasm, grace and wit by two knowledgeable, broadly experienced insect scientists, will assist the entomologically uninitiated to appreciate the wonders and complexity of the small creatures whose environment humans inhabit, and will expand the horizons of the initiated with refreshing and useful insights into a

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Research on Chrysomelidae 4 - Pierre Jolivet 2013-09-19

The mode of life of leaf beetles (Chrysomelidae) might appear less interesting, as compared to free and fast roaming and hunting ground beetles (Carabidae), eusocial bees (Apidae), or so many other behaviourally fascinating insects. Chrysomelids generally hatch from eggs, which are typically laid onto their food plants. Larvae eat, moult, and pupate on or very close to these plants. Following emergence as adults reproduction often proceeds without complex courting and, in most cases, without eating much or moving for longer distances. All of this is quite insect-like and seemingly pedestrian. Nevertheless, the mechanisms of host plant selection, the wide range of defensive devices, the multifariousness of shapes and the gaudiness of colours of their body ? to name just a few phenomena of their biology ? continuously fascinate quite a number of scientists, let aside many other beetle enthusiasts. Every four years, in connection with the International Congresses of

Entomology, an informal group of leaf beetle workers meets for an International Symposium on the Chrysomelidae. Last time, we met on August 23, 2012, in Daegu, South Korea for the 24th International Congress of Entomology. Of the seven papers therein presented, four are, in extended and elaborated versions, published in the present volume. Three more papers on Chrysomelidae have been submitted independently and are included here as well. The present volume 4 of the series Research on Chrysomelidae is the second published as a special issue of ZooKeys. Publishing with Pensoft's ZooKeys is not only fast and affordable, but also allows the inclusion of colour illustrations ad libitum, in both the printed and digital versions, so that the authors can easily share their excitement on their scientific objects with their readers. We, the editors, are glad to present this volume and hope that it will be valued not only for its scientific value but also attract the attention of non-chrysomelidologists to the fascinating world of leaf beetles. Hopefully, many such volumes will follow, so that our series will develop into an attractive forum for sharing news about a scientifically

interesting, economically important, and emotionally rewarding group of insects.

Insects and Plants - Pierre Jolivet 2023-07-07

Insects and plants, whether or not they coevolved, have intimate interrelationships. This book concisely yet thoroughly describes these phenomena. In one chapter the salient facts known about carnivorous plants are described. In another, ant and plant relationships are summarized as an introduction to this vast subject. Pollination, of great interest to agriculturists and horticulturists, is briefly explained without the complexities detailed in the massive literature on this topic. Many other subjects are discussed, such as the memory of adult butterflies, which enables them to return to their host plants in the case of the polyphagous species. The book is seeded with such thought-provoking discussions as prostitution among the orchids and botanical indigestion in some plants.

Proceedings of the Entomological Society of Ontario - Entomological Society of Ontario 1996

Choice - 1999

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