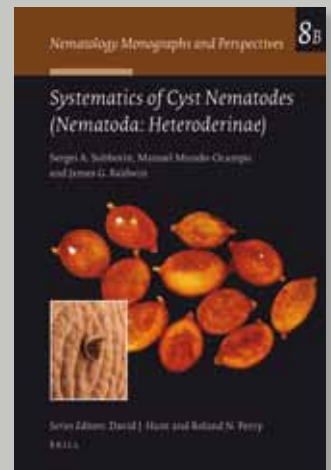
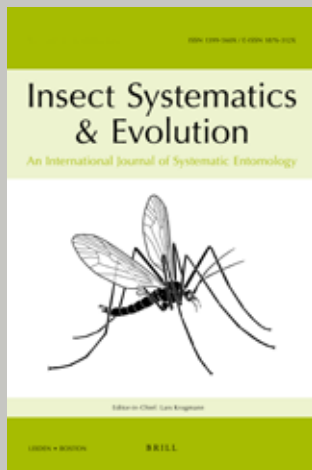
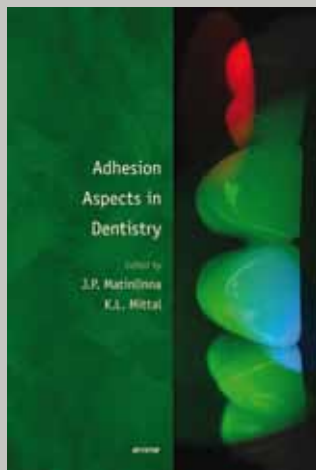


Science & Biology



Dear Reader,

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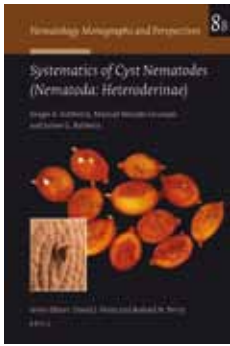
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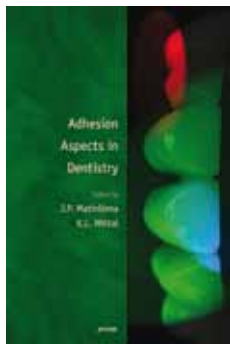
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- April 2010
- ISBN 978 90 04 17718 5
- Hardback (1112 pp.)
- List price EUR 196.- / US\$ 290.-

A Handbook of the World's Conifers

Aljos Farjon, *Honorary Research Associate, Royal Botanic Gardens*

Conifers are known to everyone as a conspicuous kind of evergreen trees or shrubs that feature prominently in gardens and parks as well as in many managed forests in the cool to cold temperate regions of the Northern Hemisphere. Numerous books have been written about them and continue to appear, mostly with a bias towards these uses in Europe and North America. This new handbook of the conifers is departing from this traditional approach in that it includes all the world's 615 species of conifers, of which some 200 occur in the tropics. It gives as much information about these and the Southern Hemisphere conifers as about the better known species, drawing on research into the taxonomy, biology, ecology, distribution and uses by the author over nearly 30 years. The result is a truly encyclopedic work, a true handbook of all the world's conifers, richly illustrated by the author with his line drawings and photographs taken from the natural habitats of the species.

"This deserves to be called the Bible of Conifers [...] The splendid photos confirm that conifers, thanks to their stylish seed cones, can compete in beauty with flower-bearing plants." Jerroen Scharroo, *Bionieuws*, 10th July 2010

"This is, quite simply, a superb work: the culmination of the author's lifetime spent studying conifers. It is beautifully and comprehensively illustrated, exceptionally thorough, entirely up to date and wholly authoritative. [...] Given the size of the pages, the high quality binding (of over a thousand pages), the immaculately reproduced line drawings, and the colour photographs, the price is excellent value. I cannot recommend it enough." Timothy Waters, *Amazon.com*, June 2010

"In true Handbook tradition all 615 species of extant conifers are concisely described [...]. Unlike earlier books on conifers [...] the present Handbook does equal justice to the 200 tropical species and 415 temperate ones; this attention to the tropical species makes the Handbook truly unique." From the preface by Pieter Baas, *Emeritus Professor of Systematic Botany, Leiden University; former Director of the National Herbarium of the Netherlands*



- June 2008
- ISBN 978 90 04 167507 6
- Hardback (xiv, 442 pp)
- List price EUR 103.- / US\$ 147.-

Parasitic flowering plants

Henning S. Heide-Jørgensen

Parasitic flowering plants are strikingly impressive and beautiful and hold many surprises of both general and scientific interest. Parasites also have great influence on the quality of human life when attacking crop plants. Some parasites have since early times appealed to our imagination and have been part of religious or folkloristic events and used as gifts to royalties. This beautifully illustrated book covers all parasitic families and most of the genera. It also discusses the establishment of the parasite, the structure and function of the nutrient absorption organ (haustorium), and how the parasites are pollinated and dispersed as well as their ecology, hosts, and evolution. The book is written in a mostly non-technical language and is provided with a glossary and explanatory boxes.

"This profusely illustrated book is a worthy successor to Job Kuijt's seminal Parasitic Flowering Plants, published in 1969 and widely acknowledged as the beginning of modern research on parasitic vascular plants. [...] It should also be in every college or university library as the most up to date treatment of this most intriguing group of plants." Lytton John Musselman, *CASTANEA*, vol. 74 (2009) pp. 89-90.

"A particular feature of the book, in my opinion, is the large number of excellent photographs, which illustrate and elaborate on the themes being presented. [...] I have no hesitation in recommending this sumptuously-produced book." Mark Hyde, 27 January 2009, www.zimbabweflora.co.zw

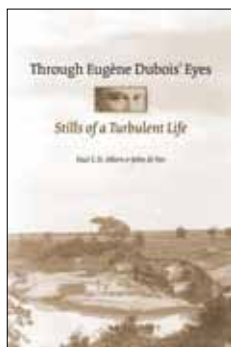
"This beautifully illustrated book covers all parasitic families and most of the genera. It also discusses the establishment of the parasite, the structure and function of the nutrient absorption organ (haustorium), and how the parasites are pollinated and dispersed as well as their ecology, hosts, and evolution." NEW and recommended by APS PRESS! www.shopapspress.org

"This is one of those books that you idly pick up, flick through looking at the gorgeous pictures, read snippets of information and before you know it, you've missed the train home. The 400 odd pages cover every family of parasitic plant known in the world and most of the genera, organised systematically." Peter Thomas, *Bulletin of the British Ecological Society*, 39.4 (2008)

"This book finally places parasitic plants in the position they deserve. The book has a phenomenally broad coverage. It literally bursts with information, yet does so in an accessible fashion; [...] the author has produced a remarkably accessible account and he has straddled the line between popular and academic science very successfully." Job Kuijt, *University of Victoria, Canada*.

"I feel that the author's style gives consideration to both professional scientist as well as private plant lovers." Hans Christian Weber, *Philipps Universität, Marburg*

"the book is a rich source of facts and need-to-knows about parasitic plants and therefore will be a valuable handbook for scientists and a fine introduction to parasitism in plants for non-scientists." Harro J. Bouwmeester, *University of Wageningen*



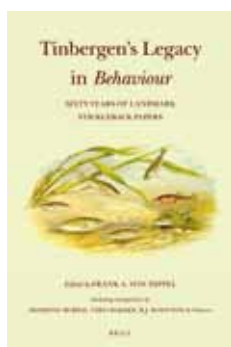
- December 2009
- ISBN 978 90 04 18300 1
- Hardback (vi, 186 pp.)
- List price EUR 49.- / US\$ 70.-

Through Eugène Dubois' Eyes

Stills of a turbulent life

Paul C.H. Albers, *Naturalis, the National Museum of Natural History, Leiden* and
John de Vos, *Naturalis, the National Museum of Natural History, Leiden*

Eugène Dubois, the man who found the “missing link” between apes and humans, intended to write a book about his finds in Indonesia. He never finished it. In this current volume the outlines of Dubois' book are reconstructed. Recently discovered correspondence with his intended publisher shed new light on the troublesome character of Dubois and his inability to communicate with the scientific establishment. This volume also discloses the vast amount of photographic material that is part of the Dubois Collection at Naturalis, the National Museum of Natural History in Leiden, the Netherlands. As Pat Shipman summarizes it in her preface: “[...] what this book offers, it is more: more images, more letters, more details, more insight into the workings of a brilliant but unquestionably difficult man of science. We shall not see Dubois' like again so it is doubly fortunate that Albers and de Vos have uncovered so much about his life.”



- January 2010
- ISBN 978 90 04 17029 2
- Hardback (488 pp.)
- List price EUR 99.- / US\$ 154.-

Tinbergen's Legacy in Behaviour

Sixty Years of Landmark Stickleback Papers

Edited by Frank von Hippel, *University of Alaska Anchorage*

In a flurry of post-war productivity, Niko Tinbergen re-established his lab in Leiden, wrote landmark papers and his famous book *The Study of Instinct*, and founded the journal *Behaviour* to serve the burgeoning field of ethology. Tinbergen and his senior assistant, Jan van Iersel, published their classic paper, “Displacement reactions in the three-spined stickleback,” in the first issue of his new journal in 1948. Stickleback are now a powerful model in the fields of behavioural ecology, evolutionary biology, developmental genetics, and ecotoxicology - an extraordinary development for a small fish that began its modeling career among an enthusiastic core of Tinbergen students in the 1930s. From a series of clever experiments with painted model fish to the use of the sequenced genome to analyze the genetic basis of courtship, stickleback science progressed in leaps and bounds, often via seminal studies published in the pages of *Behaviour*. *Tinbergen's Legacy in Behaviour* traces sixty years in the development of science using stickleback as a model, with 34 original articles covering topics ranging from homosexuality and cannibalism to genetics and speciation. Desmond Morris, Theo Bakker, Robert Wootton, Michael Bell, Tom Reimchen, Boyd Kynard, Harman Peeke, and Iain Barber provide fresh retrospectives on their republished works. Commentary by Frank von Hippel accompanies the articles and explains the roles they played in the frontiers of science as researchers falsified or expanded upon one another's ideas.

Treatise on Zoology - Anatomy, Taxonomy, Biology - The Crustacea

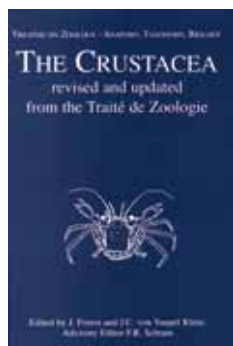
Edited by J. Forest, J.C. von Vaupel Klein and M. Charmantier

Advisory Editor: F.R. Schram

For more information please visit brill.nl/tozc

With this edition, access to the carcinological texts of the famous *Traité de Zoologie* are now available to a worldwide readership. Parts 1, 2, and 3A of volume VII, i.e. those on the Crustacea, were published in French in, respectively, 1994, 1996, and 1999. Brill recognizes the importance of these contributions, some of the manuscripts dating from the early 1980s, and herewith provides them in updated and translated form. All chapters have been carefully reviewed and adequately

updated, either by the original authors or by newly attracted specialists. The editor of the original French edition, J. Forest, also acts as supervisor and editor for the current series. With J.C. von Vaupel Klein, as co-editor and principal translator, M. Charmantier as co-editor, and F.R. Schram as advisory editor, this new version meets the current demands and expectations of the carcinological world.



Treatise on Zoology - Anatomy, Taxonomy, Biology - The Crustacea, Decapoda

*Volume 9, Part A: Eucarida: Euphausiacea, Amphionidacea,
and Decapoda (partim)*

Edited by F.R. Schram, *University of Amsterdam*
and J.C. von Vaupel Klein, *Leiden University (retired)*

Advisory Editors: J. Forest and M. Charmantier-Daures

- August 2010
- ISBN 978 90 04 16441 3
- *Hardback* (550 pp.)
- List price EUR 210.- / US\$ 298.-
- Treatise on Zoology - Anatomy, Taxonomy, Biology - The Crustacea, 9/A

With the publication of this ninth volume in the *Treatise on Zoology: The Crustacea*, we depart from the sequence one would normally expect. Some crustacean groups never had a French version produced, namely, the orders Stomatopoda, Euphausiacea, Amphionidacea, and Decapoda; the largest contingent of these involved Decapoda – a group of tremendous diversity and for which we have great depth of knowledge. The organization and production of these “new” chapters began independently from the other chapters and volumes. Originally envisioned by the editorial team to encompass volume 9 of the series, it quickly became evident that the depth of material for such a volume must involve the printing of separate fascicles. These new chapters are now nearing completion, and the decision was made to begin publication of volume 9 immediately rather than wait until after volumes 3 through 8 would appear.

Crustaceana Monographs

Series Editor: C. Fransen, *Naturalis, Leiden, the Netherlands*Founding Editor: J.C. von Vaupel Klein, *Utrecht*For more information please visit brill.nl/crm

ISSN 1570-7024

- December 2010
- ISBN 978 90 04 17429 0
- *Hardback* (c. 750 pp.)
- List price EUR 189.- / US\$ 268.-
- Crustaceana Monographs, 14

Studies on Malacostraca: Lipke Bijdeley Holthuis Memorial Volume

Edited by Charles Fransen, Sammy de Grave and Peter Ng

This volume is devoted to the memory of the Dutch carcinologist Lipke Bijdeley Holthuis (1921-2008) who dedicated his life to the taxonomy and systematics of Crustacea. His scientific career started in 1941 with his first publications and continued for 68 years in which he produced over 600 titles totalling almost 13000 pages describing more than 400 taxa new to science. In this volume his friends and colleagues pay tribute to his legacy. Included are an extensive biography and over 50 papers mainly dealing with systematic and taxonomic issues, which emanate from his knowledge and inspiration.

- October 2010
- ISBN 978 90 04 17087 2
- *Hardback* (520 pp.)
- List price EUR 179.- / US\$ 265.-
- Crustaceana Monographs, 13

Axioidea of the World and a Reconsideration of the Callianassoidea (Decapoda, Thalassinidea, Callianassida)

Katsushi Sakai, *Shikoku University* (Emeritus)

The present section, Callianassida Dana, 1852, has recently been separated from the Thalassinida Dana, 1852; together these two sections constitute the infraorder Thalassinidea within the Decapoda. The section Thalassinida includes one superfamily, Thalassinioidea Dana, 1852, which is not considered herein. The Callianassida include two superfamilies, Axioidea Huxley, 1879 and Callianassoidea Dana, 1852. Those two superfamilies are reviewed according to the presence or absence of a rostral carina; cardiac sulcus(i); cardiac prominence; dorsal oval of the carapace; linea thalassinica; setal rows on carapace, abdomen, tail-fan, and pereopods; the posterior whip of the maxilla 2 scaphognathite; a dorsal plate or lateral notch on the uropodal exopod; the male Plp1-2; and a median tooth of the prepyloric ossicle. In the present new classification, the section Callianassida thus comprises two superfamilies, Axioidea and Callianassoidea, 19 families including one new family and two families with a new status, 8 subfamilies including one subfam. nov., 116 genera including 41 gen. nov. and 8 genera sensu nov., and 419 species including 12 spp. nov. and 2 nom. nov.

- December 2010
- ISBN 978 90 04 17460 3
- *Hardback* (132 pp.)
- List price EUR 87.- / US\$ 129.-
- Crustaceana Monographs, 12

Crustacean Zooplankton Communities in Chilean Inland Waters

Patricio R. De los Ríos E., *Catholic University of Temuco, Chile*

The crustacean zooplankton of Chilean inland waters has been studied mainly in large Patagonian lakes, while that plankton in other Chilean water bodies has as yet been insufficiently investigated. The species actually reported upon herein require revision as regards their taxonomy and biogeography. On the basis of studies in the Patagonian lakes, oligotrophy has been determined as the main factor regulating zooplankton assemblages, whereas in southern shallow ponds the main regulating factors are oligotrophy and conductivity combined. No detailed studies for other Chilean water bodies are available to date. This book provides a checklist with updated information of the species of crustacean zooplankton in Chilean inland waters, while the results of an ecological study offer data for understanding the distribution and abundance of those faunal elements in the area.



- June 2010
- ISBN 978 90 04 17086 5
- *Hardback* (355 pp.)
- List price EUR 139.- / US\$ 197.-
- Crustaceana Monographs, 11

Studies on Brachyura: a Homage to Danièle Guinot

Peter Castro, Peter J. F. Davie, Peter K. L. Ng and Bertrand Richer de Forges

This volume is in honour of Danièle Guinot (Muséum National d'Histoire Naturelle, Paris, France), and was born out of our admiration for Danièle's immense contributions to her discipline. She has helped reawaken interest on the systematics of brachyuran decapods crustaceans, the true crabs. Furthermore, she has significantly helped to redefine the study of the complete evolutionary process in crabs. A total of 35 of her colleagues have contributed to this volume, submitting papers on those aspects of the Brachyura to which Danièle, herself, has significantly contributed – taxonomy, evolution, morphology, palaeontology and general biology of crabs. This volume is but a small tribute to a highly respected colleague and friend from the active band of researchers that she has helped so much over the years.



- January 2010
- ISBN 978 90 04 17891 5
- *Hardback* (230 pp.)
- List price EUR 129.- / US\$ 191.-
- Crustaceana Monographs, 10

Systematic List of Fossil Decapod Crustacean Species

Carrie E. Schweitzer, *Kent State University*, Rodney M. Feldmann, *Kent State University* (Emeritus), Alessandro Garassino, *Natural History Museum, Milan*, Hiroaki Karasawa, *Mizunami Fossil Museum*, Günter Schweigert, *Staatliches Museum für Naturkunde Stuttgart*

A compilation of all known species of fossil decapod crustaceans arrayed in a modern classification based upon the work of numerous students of extant and fossil decapods represents the first such attempt in nearly 100 years. The systematic list cites authors and carefully verified dates of authorship as well as a complete list of references to all taxa cited. The work is intended to provide insight into the range and relative numbers of fossil taxa within the suborder Decapoda. The compilation will permit interpretation of the nature of completeness of the fossil record and will provide a platform for future research on this important, diverse group of organisms.



- June 2008
- ISBN 978 90 04 16459 8
- *Hardback* (vi+336 pp.)
- List price EUR 124.- / US\$ 177.-
- Crustaceana Monographs, 9

Marine Interstitial Poecilostomatoida and Cyclopoida (Copepoda) of Australia

Tomislav Karanovic, *University of Tasmania* (Honorary Associate)

The prime function of the interstitial system is the processing of organic material flushed into the sand. It functions as a carbon sink, which has significant implications in this age, in which we are trying to fight carbon levels in the atmosphere. Copepods are top predators here and thus crucially important. This book presents the first data about cyclopoid and poecilostomatoid copepods from the Australian marine interstitial. It includes one new cyclopoid family, the second record of the poecilostomatoid family Polyankaliidae, one new genus, and 21 new species. A zoogeographic analysis of the copepods recorded emphasizes the importance of looking at small-scale patterns when inferring Gondwanaland biogeography, and a number of distinct zoogeographic regions is now becoming apparent in Australia.

Nematology Monographs and Perspectives

Series Editors: David J. Hunt and Roland N. Perry

For more information please visit brill.nl/nemp

ISSN 1573-5869

- April 2011
- ISBN 978 90 04 17521 1
- *Hardback* (332 pp.)
- List price EUR 139.- / US\$ 197.-
- Nematology Monographs and Perspectives, 9

The Evolutionary History of Nematodes

As revealed in stone, amber and mummies

George Poinar

Nematodes are one of the most abundant groups of invertebrates on the face of the earth. Their numbers are estimated to range from 1,000 per cm² in the sand-covered hydrogen sulfide "black zone" beneath the ocean floors to 3 billion in a single acre of soil. Estimates for their species diversity range from 100,000 to 10 million. The past history of nematodes is a mystery since very few fossils have been discovered. This book establishes a solid base in paleonematology with descriptions of 65 new fossil species and accounts of all previous fossil and subfossil nematodes from sedimentary deposits, coprolites, amber and mummies. It shows how nematode fossils can be used to establish lineages at various locations and time periods in the earth's history and when nematodes entered into symbiotic and parasitic associations with plants and animals.

Systematics of Cyst Nematodes (Nematoda: Heteroderinae)

Volume 8, Part A & Volume 8, Part B

S.A. Subbotin, *California Department of Food and Agriculture*, M. Mundo-Ocampo, *UCR-Nematode Collection / CIIDIR-IPN-Sinaloa* and J.G. Baldwin, *University of California, Riverside*

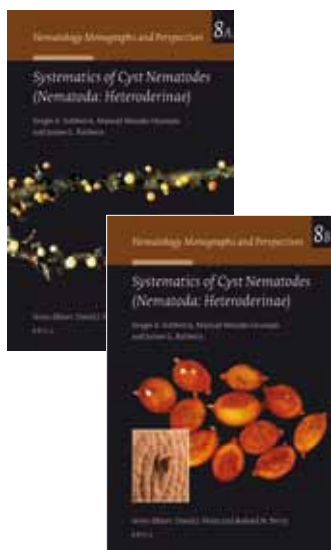
Volume 8 in the series, appearing in two parts, A and B, deals with the systematics of cyst nematodes of the subfamily Heteroderinae. Cyst nematodes are important pathogens causing extensive damage and significant yield loss to many crops in both temperate and tropical regions. Part A presents summarised information on various aspects of morphology, biology, ecology, pathology, biogeography, control measures and diagnostics of these nematodes. Molecular diagnostic tables and comprehensive tabular and dichotomous keys for species identification, together with descriptions of protocols for extraction, light and electron microscopy studies, and molecular diagnostics are also included. The taxonomic section of part A provides diagnoses for six genera, viz., *Globodera*, *Punctodera*, *Cactodera*, *Dolichodera*, *Betulodera* and *Paradolichodera*, and includes descriptions and morphometrics of 30 valid species. The work is illustrated by 101 drawings and photos. The genus *Heterodera* is mainly covered in part B, complete descriptions and morphometrics of the 80 known valid species being provided and the species illustrated by 159 line drawings and photos. Identification of the species using morphological and molecular techniques is also covered. Each part includes an extensive bibliography.

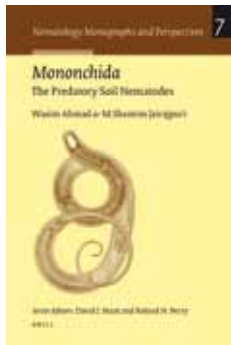
Part A

- August 2010
- ISBN 978 90 04 16225 9
- *Hardback* (300 pp.)
- List price EUR 139.- / US\$ 197.-
- Nematology Monographs and Perspectives, 8/A

Part B

- August 2010
- ISBN 978 90 04 16434 5
- *Hardback* (450 pp.)
- List price EUR 149.- / US\$ 212.-
- Nematology Monographs and Perspectives, 8/B



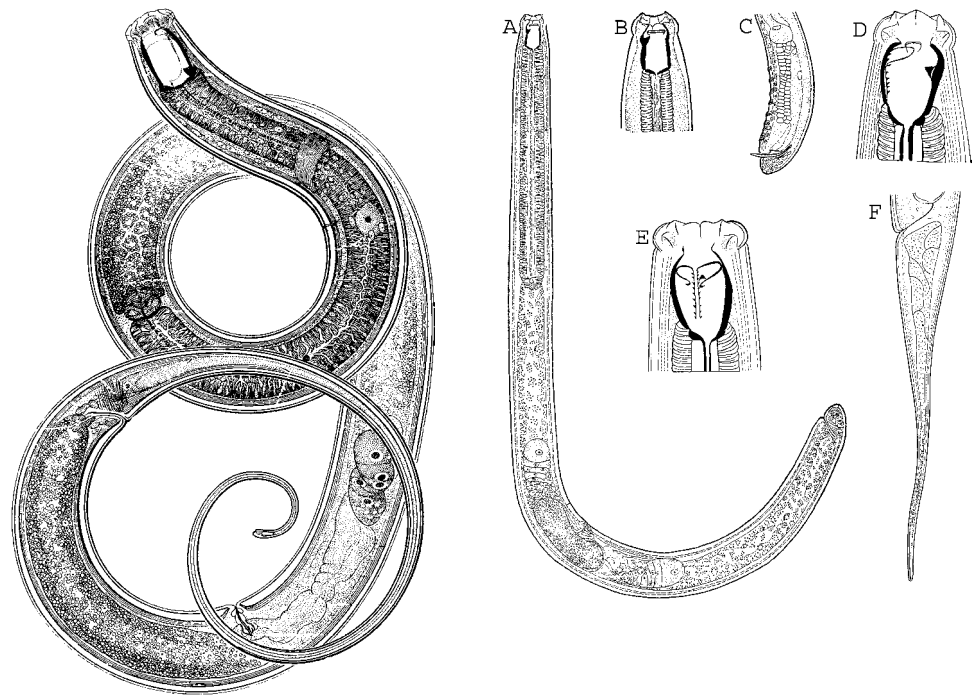


- March 2010
- ISBN 978 90 04 17464 1
- *Hardback* (xx, 298 pp.)
- List price EUR 134.- / US\$ 198.-
- Nematology Monographs and Perspectives, 7

Mononchida

The Predatory Soil Nematodes

W. Ahmad, *Aligarh Muslim University* and M.S. Jairajpuri, *Aligarh Muslim University (Emeritus)*



A unique treatise on the morphology and taxonomy of the order Mononchida. The mononchs represent a group of predatory nematodes that are natural enemies of other soil micro-organisms including plant-parasitic nematodes. The book includes detailed morphology of mononchs with emphasis on characters of taxonomic importance. Detailed diagnoses of the ordinal and familial groups and all the genera known to date are provided. A brief description of type species of each genus is followed by a complete list of all the valid species and their synonymies and an up-to-date key to species. The book is heavily illustrated with line drawings, microphotographs and SEM photographs of type or representative species. A complete bibliography until 2007 and an index are included.



Research on Chrysomelidae

Volume 2

Edited by Pierre Jolivet, Jorge Santiago-Blay and Michael Schmitt

“Contrary to the somewhat dry title of the book, it contains 20 very interesting contributions [of which] the main scientific value is not just in alpha-taxonomy [...] but rather in the fields of ecology and phylogeny.”

Translated from: M.A. Jäch, *Koleopterologische Rundschau*, vol. 79, p.320, July 2009

- December 2009
- ISBN 978 90 04 16947 0
- *Hardback*
(300 pp., NaN illustrations)
- List price EUR 169.- / US\$ 250.-
- Research on Chrysomelidae, 2

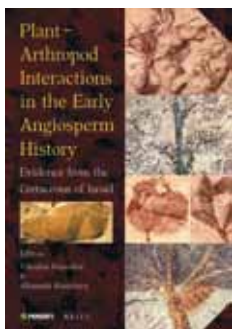


Diptera Diversity: Status, Challenges and Tools

Edited by Thomas Pape, Daniel Bickel and Rudolf Meier

This is the first comprehensive synopsis of the biodiversity of Diptera, which with more than 150.000 described species contain more than one tenth of all described animal species. The first part is a review of what is already known, with treatments of all the major biogeographical regions and important archipelagos; the second part contains case studies on open-ended taxa, Diptera as ecological indicators, and how to estimate the still unknown proportion of our fauna; and the third part discusses the digital and molecular tools needed to document the fauna. The book has an emphasis on principles and analytical approaches as well as on practical ‘how-to’ information and is intended for academicians and other professionals but with a significant outreach to students.

- March 2009
- ISBN 978 90 04 14897 0
- *Hardback* (xx, 460 pp.)
- List price EUR 124.- / US\$ 186.-



Plant-Arthropod Interactions in the Early Angiosperm History

Evidence from the Cretaceous of Israel

Edited by Valentin Krassilov and Alexandr Rasnitsyn

Co-published by Pensoft Publishers & Brill

- June 2008
- ISBN 978 90 04 17071 1
- *Hardback*
(222 pp. incl. 52 color plates)
- List price EUR 120.- / US\$ 171.-

“This book explores the traces of the Arthropoda on fossil leaves (phyllostigmas) of the Cretaceous period in the Negev desert, when the Angiosperms appeared and increased. A very beautiful book with magnificent color plates of insect and plant fossils. Well done by the publishers and a detailed reconstruction of a relatively unknown environment, especially in this part of the world. As they say at the stock market: buy without hesitation.” Pierre Jolivet.

“A well-designed book with beautiful photos, mostly in color. [...] a fascinating book, especially also for fans of galls, mines and other tracts on leaves of present-day plant species, who wish to know about such track from the early development of angiosperms.” Ron Beenen, translated from *Entomologische Berichten*, 69 (1) 2009.



Amphibia-Reptilia

Publication of the Societas Europaea Herpetologica

Editors: Mathieu Denoël, Liège,
D. James Harris, Vila do Conde and S. Ursenbacher, Basel

- 2011: Volume 32 (in 4 issues)
- ISSN 0173-5373 / E-ISSN 1568-5381
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Electronic only: EUR 432.- / US\$ 587.-
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Amphibia-Reptilia is a leading European multi-disciplinary journal devoted to most of the aspects of herpetology: ecology, behaviour, evolution, conservation, physiology, morphology, paleontology, genetics, and systematics. Amphibia-Reptilia publishes high quality original papers, short-notes, reviews, book reviews and news of the Societas Europaea Herpetologica (SEH). The Societas Europaea Herpetologica (SEH) website is located at: seh-herpetology.org

Thomson Scientific's Journal Citations Report for 2009 ranks *Amphibia-Reptilia* with an Impact Factor of 1.042.

For more information see brill.nl/amre



Animal Biology

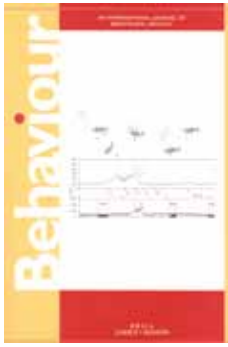
Managing Editor:
M. Muller, Wageningen University

- 2011: Volume 61 (in 4 issues)
- ISSN 1570-7555 / E-ISSN 1570-7563
- Institutional subscription rates
Electronic only: EUR 432.- / US\$ 587.-
Print only: EUR 475.- / US\$ 646.-
Electronic + Print: EUR 518.- / US\$ 704.-
- Individual subscription rates
Print only: EUR 158.- / US\$ 215.-

Animal Biology, is formally a continuation of the *Netherlands Journal of Zoology*, the official journal of the Royal Dutch Zoological Society since its foundation in 1872 (until 1952 known as *Archives Néerlandaises de Zoologie*). *Animal Biology* publishes articles from all quarters of zoology, including ecology, behaviour, evolution, morphology, neurobiology, developmental biology, physiology, cognition, endocrinology, systematics, genomics and theoretical biology.

Thomson Scientific's Journal Citations Report for 2009 ranks *Animal Biology* with an Impact Factor of 1.069.

For more information see brill.nl/ab



Behaviour

Managing Editors: P.C.H. Albers, *Groningen* and
B.D. Wisenden, *Minnesota State University Moorhead*
Reviews Editor: M. Kempes, *The Hague*

- 2011: Volume 148 (in 14 issues)
- ISSN 0005-7959 / E-ISSN 1568-539X
- Institutional subscription rates
Electronic only: EUR 1217.- / US\$ 1655.-
Print only: EUR 1339.- / US\$ 1821.-
Electronic + Print: EUR 1460.- / US\$ 1986.-

Behaviour publishes original research pursuing Tinbergen's four questions and questions resulting from the interrelationship among the four. In addition, the editorial board encourages reviews of behavioural biology that illuminate emergent trends and new directions in behavioural research. Niko Tinbergen shared, with Konrad Lorenz and Karl von Frisch, the 1973 Nobel Prize for Medicine or Physiology for contributions to the study of behavioural biology. Tinbergen was at heart an experimentalist who, more than Lorenz and von Frisch, applied the scientific method to the field of animal and human behaviour. It is his experimental approach to the study of behaviour that lasts to this day. That is why Tinbergen listed questions and not answers (theorems or laws). The answers (or at least some of them) are published monthly in *Behaviour*, the journal Tinbergen co-founded with W. H. Thorpe in 1948.

Thomson Scientific's Journal Citations Report for 2009 ranks *Behaviour* with an Impact Factor of 1.471.

For more information see brill.nl/beh



Frequency Increase!

Crustaceana

International Journal of Crustacean Research

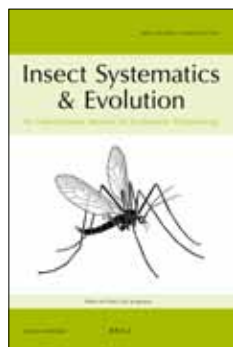
Managing Editor: J.C. von Vaupel Klein, *Utrecht*
Associate Editor: C. Schubart, *Regensburg*

- 2011: Volume 84 (in 14 issues)
- ISSN 0011-216X / E-ISSN 1568-5403
- Institutional subscription rates
Electronic only: EUR 1050.- / US\$ 1428.-
Print only: EUR 1155.- / US\$ 1571.-
Electronic + Print: EUR 1260.- / US\$ 1714.-

Crustaceana is a leading journal in the world on crustacean research. Including the latest papers from all branches of zoology, it gives up-to-date information on aspects such as taxonomy, zoogeography, ecology, physiology, anatomy, genetics, palaeontology, and biometry, and covers all groups of Crustacea. Boasting a large international circulation, *Crustaceana* takes care to supply its readers with an abstract to each article printed in both English and another congress language. Numerous tables and figures add to the already detailed papers. A special "Reviews" section introduces relevant books and is supported by the "Announcements", providing information on forthcoming meetings and events in the field. In addition, an extensive segment of "Notes and News", is included regularly. *Crustaceana* is the one journal that no one interested in this field should be without.

Thomson Scientific's Journal Citations Report for 2009 ranks *Crustaceana* with an Impact Factor of 0.507.

For more information see brill.nl/cr



Insect Systematics & Evolution

An International Journal of Systematic Entomology

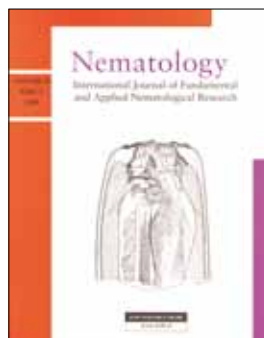
Editor-in-Chief: L. Krogmann,
Staatliches Museum für Naturkunde Stuttgart

- 2011: Volume 42 (in 4 issues)
- ISSN 1399-560X / E-ISSN 1876-312X
- Institutional subscription rates
Electronic only: EUR 288.- / US\$ 391.-
Print only: EUR 317.- / US\$ 430.-
Electronic + Print: EUR 345.- / US\$ 469.-
- Individual subscription rates
Print only: EUR 172.- / US\$ 234.-

Insect Systematics & Evolution publishes original papers on all aspects of systematic entomology and the evolutionary history of insects and related groups. Papers are of a wide international interest and priority is given to taxonomic revisions and phylogenetic studies employing morphological and molecular data.

Thomson Scientific's Journal Citations Report for 2009 ranks *Insect Systematics & Evolution* with an Impact Factor of 0.875.

For more information see brill.nl/ise



Frequency Increase!

Nematology

International Journal of Fundamental and Applied Nematological Research

Editors-in-Chief: David Hunt, *CABI Europe-UK* and
Roland Perry, *Rothamsted Research*

- 2011: Volume 13 (in 8 issues)
- ISSN 1388-5545 / E-ISSN 1568-5411
- Institutional subscription rates
Electronic only: EUR 782.- / US\$ 1063.-
Print only: EUR 860.- / US\$ 1169.-
Electronic + Print: EUR 938.- / US\$ 1276.-

Nematology is an international journal for the publication of all aspects of nematological research, from molecular biology to field studies. Papers on nematode parasites of arthropods, and on soil free-living nematodes, and on interactions of these and other organisms, are particularly welcome. Research on fresh water and marine nematodes is also considered when the observations are of more general interest.

Nematology publishes full research papers, short communications, Forum articles (which permit an author to express a view on current or fundamental subjects), perspectives on nematology, and reviews of books and other media.

Thomson Scientific's Journal Citations Report for 2009 ranks *Nematology* with an Impact Factor of 0.937.

For more information see brill.nl/nemy



Seeing and Perceiving

An international journal on visual processing, including the interaction of vision with cognition, action and other sensory modalities -

Continued from Spatial Vision (1985-2009)

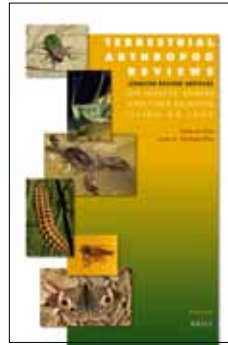
Editors-in-Chief: Adam Reeves, *Boston* and Concetta Morrone, *Pisa*

- 2011: Volume 24 (in 6 issues)
- ISSN 1878-4755 / E-ISSN 1878-4763
- Institutional subscription rates
Electronic only: EUR 448.- / US\$ 608.-
Print only: EUR 493.- / US\$ 669.-
Electronic + Print: EUR 537.- / US\$ 730.-
- Individual subscription rates
Print only: EUR 164.- / US\$ 223.-

Seeing and Perceiving, the continuation of *Spatial Vision*, is an interdisciplinary archival journal covering human and mammalian perception and the underlying brain mechanisms. A broad approach to perception is encouraged, including multisensory integration involving vision, the study of perception and action, and the cognitive, attentive, adaptive, and memory aspects of perception. Empirical, clinical, mathematical and computational analyses are welcome. Theory is expected to be empirically constrained and empirical work to be theoretically relevant. Short communications and technical notes that draw attention to new developments are welcome, as are reviews and commentaries on current issues. Special Issues dealing with a single topic will be announced from time to time.

Thomson Scientific's Journal Citations Report for 2009 ranks *Spatial Vision*, with an Impact Factor of 1.339.

For more information see brill.nl/sp



Frequency Increase!

Terrestrial Arthropod Reviews

Concise Review Articles on Insects, Spiders and their Relatives Living on Land

Editor-in-Chief: J. Santiago-Blay, *Washington*

- 2011: Volume 4 (in 3 issues)
- ISSN 1874-9828 / E-ISSN 1874-9836
- Institutional subscription rates
Electronic only: EUR 290.- / US\$ 394.-
Print only: EUR 319.- / US\$ 433.-
Electronic + Print: EUR 348.- / US\$ 473.-
- Individual subscription rates
Print only: EUR 111.- / US\$ 151.-

Terrestrial Arthropod Reviews contains concise review articles on living and extinct insects, arachnids, and their relatives that use land during (a part of) their life history. Instead of requesting a historic, exhaustive overview of all aspects of a particular subject matter, *Terrestrial Arthropod Reviews* (TAR) aims to provide space for critical thinking and thought-provoking questions. The journal welcomes integrative reports on findings within a certain habitat or organism, but beyond the taxonomic description. Reports on species-species or species-environment interactions as well as biodiversity, conservation biology and the effect on habitats of ecological changes are especially welcome. New species descriptions, taxonomic revisions, or new records are specifically excluded.

For more information see brill.nl/tar

Progress in Colloid and Interface Science

Edited by R. Miller, *Max Planck Institute of Colloids and Interfaces, Potsdam, Germany* and L. Liggieri, *CNR - Istituto per l' Energetica e le Interfasi, Genoa, Italy*

For more information please visit brill.nl/pcis

ISSN 1877-8569

The book series consists of monographs and edited volumes dedicated to all relevant topics in the field of colloid and interface science, and aims to present the most recent research developments and progress made on particular topics. The volumes in this series will cover fundamental and/or applied subjects. Titles in this series will cover the following topics: any type of *interface* (liquid/gas, liquid/liquid, solid/gas, solid/liquid), their theoretical description and experimental analysis, including adsorption processes, mechanical properties, catalysis reactions, emulsification, foam formation, nanoscience; formation and characterization of all kinds of *disperse systems*, such as aerosols, foams, emulsions dispersions,

and their stability; *bulk properties of solutions*, including micellar solutions and microemulsions; *experimental methodologies*, such as tensiometry, ellipsometry, contact angle, light scattering, electrochemical methods, bulk and interfacial rheology; *self-assembling materials at interfaces*, such as surfactants, polymers, proteins, (nano-)particles, and all their mixtures; *applications in various fields* such as agriculture, biological systems, chemical engineering, coatings, cosmetics, detergency, flotation processes, food processing, household products, materials processing, environmental systems, oil recovery, pulp and paper technologies, pharmacy.

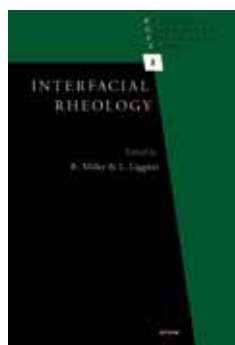


Bubble and Drop Interfaces

Edited by R. Miller, *Max Planck Institute of Colloids and Interfaces, Potsdam, Germany* and L. Liggieri, *CNR - Istituto per l' Energetica e le Interfasi, Genoa, Italy*

The book aims at describing the most important experimental methods for characterizing liquid interfaces, such as drop profile analysis, bubble pressure and drop volume tensiometry, capillary pressure technique, and oscillating drops and bubbles. Besides the details of experimental set ups, also the underlying theoretical basis is presented in detail. In addition, a number of applications based on drops and bubbles is discussed, such as rising bubbles and the very complex process of flotation. Also wetting, characterized by the dynamics of advancing contact angles is discussed critically. Special application like a double capillary arrangement for single drop manipulations, and the so-called fibre drop analyzer are presented as excellent examples for the use of drops in interfacial science.

- December 2010
- ISBN 978 90 04 17495 5
- *Hardback* (500 pp.)
- List price EUR 156.- / US\$ 222.-
- Progress in Colloid and Interface Science, 2

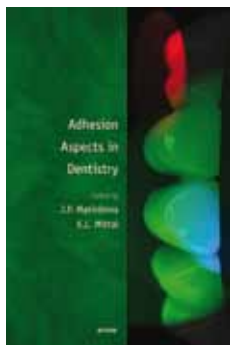


Interfacial Rheology

Edited by R. Miller, *Max Planck Institute of Colloids and Interfaces, Potsdam, Germany* and L. Liggieri, *CNR - Istituto per l' Energetica e le Interfasi, Genoa, Italy*

This is the first book on interfacial rheology and aims to describe both its history as well as the current, most frequently used experimental techniques for studying dilational and shear rheology of layers at liquid/gas and liquid/liquid interfaces. The book opens with a chapter on the fundamentals of interfacial rheology. All (16) contributions include the theoretical basis for the presented methodologies and experimental examples are given. This scientific field is relatively young with its beginnings in the sixties. At first the field developed rather slowly due to lack of professional instruments and was the domain of only very few highly specialized laboratories. In the past decade, good equipment has become more widely available and the Web of Science shows a strong increase in both number of articles published and an exponential increase in citations. This is mainly caused by the fact that interfacial rheology has been understood as one of the main factors in stabilizing liquid films, foams and emulsions. It gives important insight into the composition and structure of interfacial layers, essentially when built up from mixed solutions. The users of instruments for shear and dilational surface rheology, which are sold in increasing number year by year, therefore require this basic reading and overview of the available methods.

- June 2009
- ISBN 978 90 04 17586 0
- *Hardback* (xiv, 680 pp.)
- List price EUR 203.- / US\$ 289.-
- Progress in Colloid and Interface Science, 1

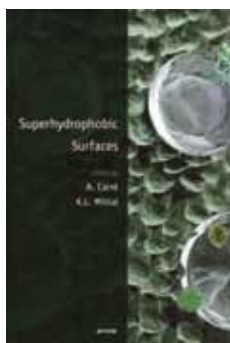


Adhesion Aspects in Dentistry

Edited by J.P. Matinlinna and K.L. Mittal

This unique book covering various ramifications of adhesion and adhesives in the broad domain of dentistry provides an important source of information. Among the topics covered include testing aspects of dental materials, dentin bonding, restorations, and adhesion promotion. This book, containing bountiful information, reflects the cumulative wisdom of many world-renowned researchers and should be of interest to anyone involved in any aspects of dentistry. We further hope this book will serve as a fountainhead for new research ideas and new application vistas will emerge as new adhesive materials and techniques become available.

- September 2009
- ISBN 978 90 04 17271 5
- *Hardback* (350 pp.)
- List price EUR 139.- / US\$ 198.-



Superhydrophobic Surfaces

Edited by A. Carré and K.L. Mittal

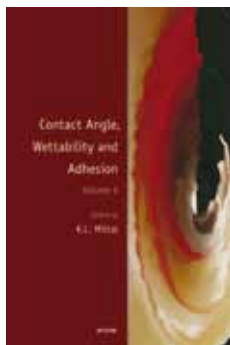
This book presents both fundamental and applied aspects of superhydrophobic surfaces. It describes also different strategies for making superhydrophobic surfaces from a large diversity of materials (polymers, metals and other inorganic materials, composites) and processes (lithographic techniques, electrochemical processes, self-assembly processes, colloidal particles, sol-gel processes, nanofilaments, or simple scraping). A bountiful of information is covered in this book which represents cumulative wisdom of many world-renowned researchers in the fascinating and burgeoning area of superhydrophobic surfaces.

- April 2009
- ISBN 978 90 04 16593 9
- *Hardback* (xii, 496 pp.)
- List price EUR 198.- / US\$ 296.-

Contact Angle, Wettability and Adhesion

Edited by K.L. Mittal

For more information please visit brill.nl/cawa



Contact Angle, Wettability and Adhesion, Volume 6

Edited by K.L. Mittal

The topic of wettability (measured in terms of contact angle) is of tremendous interest from both fundamental and applied points of view, Wettability plays an essential role in many industrial processes, so an understanding of factors dictating wettability and how to modulate it is of paramount importance. In the last years there has been an explosive interest in superhydrophobic surfaces because of their relevance/importance in many areas ranging from self-cleaning windows to nanofluidics. Also recently there has been heightened activity in the field of electrowetting.

This volume and its predecessors (5 volumes), containing bountiful information, will be of much value to anyone interested/involved in controlling wetting phenomena and their applications.

- September 2009
- ISBN 978 90 04 16932 6
- *Hardback* (xii, 400 pp.)
- List price EUR 206.- / US\$ 293.-
- Contact Angle, Wettability and Adhesion, 6



Contact Angle, Wettability and Adhesion, Volume 5

Edited by K.L. Mittal

This volume chronicles the proceedings of the *5th International Symposium on Contact Angle, Wettability and Adhesion*. Wettability is of pivotal importance in many and varied arenas, ranging from mundane to micro- and nanofluidics to lithography to biomedical. It should be underscored that in the last years there has been burgeoning interest in replicating the so-called “Lotus Leaf Effect” to create superhydrophobic surfaces. This volume contains a total of 19 papers covering many facets of contact angle, wettability and adhesion. All manuscripts were rigorously peer-reviewed and revised and edited before inclusion in this book. Concomitantly, this volume represents an archival publication of the highest standard.

- August 2008
- ISBN 978 90 04 15864 1
- *Hardback* (300 pp)
- List price EUR 138.- / US\$ 197.-
- Contact Angle, Wettability and Adhesion, 5

“[...] this book is of great interest and value, as well for novices (as an introductory in this field) as for experienced scholars (as a contemporary summary) [...] this volume represents the best you can get for your archive.” *Revistas de Plásticos Modernos* (no. 630, December 2008)

Polyimides and Other High Temperature Polymers *Synthesis, Characterization and Applications*

Edited by K.L. Mittal

For more information please visit brill.nl/phtp



Polyimides and Other High Temperature Polymers: *Synthesis, Characterization and Applications, Volume 5*

Edited by K.L. Mittal

Because of their many desirable attributes, polyimides constitute an important class of materials and they have found applications in many and varied arenas ranging from microelectronics to aerospace to membrane technology to adhesives.

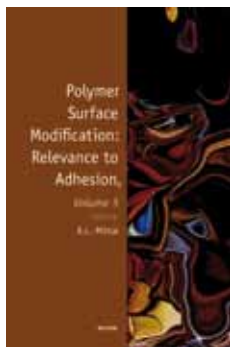
This book represents the cumulative wisdom of many world-renowned scientists and technologists and reflects the current state-of-the-knowledge in the domain of polyimides and other high temperature polymers. All signals indicate that interest in these materials will continue unabated and as their new and improved versions are developed, more new applications will emerge. In essence, this book provides a repository of current information on this topic and should be of interest and value to anyone interested in polyimides and other high temperature polymers.

- April 2009
- ISBN 978 90 04 17080 3
- *Hardback* (x, 424 pp.)
- List price EUR 165.- / US\$ 248.-
- Polyimides and Other High Temperature Polymers: Synthesis, Characterization and Applications, 5

Polymer Surface Modification: Relevance to Adhesion

Edited by K.L. Mittal

For more information please visit brill.nl/psm



Polymer Surface Modification *Relevance to Adhesion, Volume 5*

Edited by K.L. Mittal

The topic of polymer surface modification is of tremendous contemporary interest because of its critical importance in many and varied technological applications where polymers are used. Currently there is brisk research activity in unraveling the mechanisms of surface modification and finding ways to prolong the life of surface treatment. Also there is acute interest and need to devise new, improved and economical means to modify polymer surfaces. In essence this book reflects the current state-of-the-knowledge in the arena and represents the work of many renowned scientists and technologists. It should be of interest to anyone with a desire or need to learn the latest R&D activity in this domain and the information contained here should be very valuable in deciding the optimum surface modification technique for his/her particular requirements.

- March 2009
- ISBN 978 90 04 16590 8
- *Hardback* (x, 394 pp.)
- List price EUR 165.- / US\$ 248.-
- Polymer Surface Modification: Relevance to Adhesion, 5

Silanes and Other Coupling Agents

Edited by K.L. Mittal

For more information please visit brill.nl/sca



Silanes and Other Coupling Agents, Volume 5

Edited by K.L. Mittal

The topic of silanes and other coupling agents/adhesion promoters is of tremendous contemporary interest because of their application in many and varied technologically important areas ranging from coatings to reinforced composites to dentistry to biomedical (e.g., for bonding nucleotides to the so-called 'gene chips'). In addition to their traditional use for bonding different materials, silanes have been shown to be highly effective in corrosion protection of metallic materials. In essence this book reflects the latest R&D activity in this arena and should be of interest and value to anyone with a desire or need to learn about this fascinating and technologically highly significant class of materials.

- March 2009
- ISBN 978 90 04 16591 5
- *Hardback* (xii, 348 pp)
- List price EUR 165.- / US\$ 248.-
- Silanes and Other Coupling Agents, 5



Electrically Conductive Adhesives

Edited by R. Gomatam and K.L. Mittal

With all the environmental concerns and constraints today and stricter future regulations, there is a patent need to replace materials noxious to the environment by environmentally-friendly alternatives. Electrically conductive adhesives (ECAs) are one such example. ECAs offer an excellent alternative to lead-solder interconnects for microelectronic packaging applications. ECAs are used in electronics for laptop computers, camcorders, watch electronics, hard-drive suspensions and a myriad of electronic equipments. Environmentally-friendly ECAs offer many advantages vis-à-vis solder, such as simple and low-temperature processing conditions, better thermo mechanical performance and finer pitch. This book is based on the two Special Issues of the *Journal of Adhesion Science and Technology* (Vol. 22, Nos. 8-9 and No. 14) dedicated to this topic. The book contains a total of 21 papers (reflecting overviews and original research).

- December 2008
- ISBN 978 90 04 16592 2
- Hardback (viii, 426 pp.)
- List price EUR 165.- / US\$ 248.-

New Concepts in Polymer Science

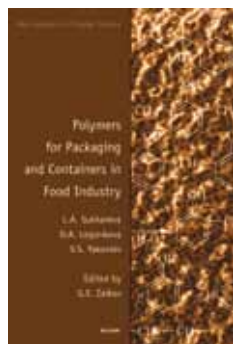
Edited by Gennady Zaikov, *Emanuel Institute of Biochemical Physics of Russian Academy of Sciences*

For more information please visit brill.nl/ncps

ISSN 0928-1584

New Concepts in Polymer Science is a series of monographs and multi-authored books publishing up-to-date, postgraduate level information in the field of macromolecules and/or oligomers for an international readership of professional scientists and

researches. The series aims to publish works which involve both theory and applications in particular contexts. Subjects covered include homopolymers, copolymers, blends, micro- and macro-composites and related topics.



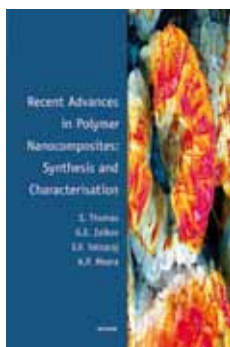
Polymers for Packaging and Containers in Food Industry

L.A. Sukhareva, *Moscow State University of Applied Biotechnology*,
V.S. Yakovlev, *Protective Coatings LLC, Moscow* and O.A. Legonkova

Edited by G.E. Zaikov, *Emanuel Institute of Biochemical Physics of Russian Academy of Sciences*

Scientific principles of design and fabrication of packaging materials for food purposes are described in this book, as well as methods for structural modification and other techniques. The main practical properties and applications of polymer materials are described. Great attention is paid to the analysis of all processes taking place during formations and destruction of polymer packaging materials. Methods such as electron microscopy, infrared microscopy and optical polarization were used to describe the behaviour of polymer materials and their composition.

- August 2008
- ISBN 978 90 04 16143 6
- Hardback (x, 526 pp.)
- List price EUR 153.- / US\$ 218.-
- New Concepts in Polymer Science, 32



- June 2010
- ISBN 978 90 04 17297 5
- *Hardback* (437 pp.)
- List price EUR 168.- / US\$ 249.-

Recent Advances in Polymer Nanocomposites: Synthesis and Characterization

Edited by S. Thomas, *Mahatma Gandhi University, S.V. Valsaraj, Mahatma Gandhi University, A.P. Meera, Mahatma Gandhi University* and G.E. Zaikov, *Emanuel Institute of Biochemical Physics of Russian Academy of Sciences*

This book examines the current state of the art, new challenges, opportunities and applications in the area of polymer nanocomposites. Special attention has been paid to the processing-morphology-structure-property relationship of the system. Various unresolved issues and new challenges in the field of polymer nanocomposites are discussed. The influence of preparation techniques (processing) on the generation of morphologies and the dependence of these morphologies on the properties of system are treated in detail. This book also illustrates different techniques used for the characterization of polymer nanocomposites. The handpicked selection of topics and expert contributors across the globe make this survey an outstanding resource reference for anyone involved in the field of polymer nanocomposites for advanced technologies.



- January 2010
- ISBN 978 90 04 17186 2
- *Hardback* (xii, 372 pp.)
- List price EUR 169.- / US\$ 250.-

Biopolymers in Food Colloids: Thermodynamics and Molecular Interactions

Maria Germanovna Semenova, *Institute of Biochemical Physics of RAS* and Eric Dickinson, *University of Leeds*

Edited by: Elena Burlakova and Gennady Zaikov, *Emanuel Institute of Biochemical Physics of Russian Academy of Sciences*

The theme and contents of this book have assumed a new significance in the light of recent ideas on nanoscience and nanotechnology, which are now beginning to influence developments in food research and food processing. The fabrication of nanoscale structures for food use relies on an in-depth understanding of thermodynamically driven interactions and self-assembly processes involving the major food structure-forming components: proteins and polysaccharides. This understanding has the potential to provide thermodynamically inspired approaches that can be used to manipulate food structures rationally in order to enhance the nutritional and health-promoting properties of foods and beverages.



- December 2009
- ISBN 978 90 04 16410 9
- *Hardback* (655 pp.)
- List price EUR 169.- / US\$ 250.-

Environmentally Degradable Materials based on Multicomponent Polymeric Systems

Edited by Cornelia Vasile, *P.Poni, Institute of Macromolecular Chemistry* and Gennady E. Zaikov, *Emanuel Institute of Biochemical Physics of Russian Academy of Sciences, Moscow*

Environmentally Degradable Materials (EDPs) should replace petroleum-based plastics where recycling is not viable for logistic or labor cost reason. This book discusses the general background of obtaining such systems, compatibilization methodologies, control of the rate of degradation and final products after degradation, life time assessment, toxicological aspects, applications and market aspects. This book is a complete guide to the subject of biodegradable materials based on multi-component polymeric systems, such as hydrogels, and interpenetrating polymeric networks.



- March 2009
- ISBN 978 90 04 16726 1
- *Hardback* (x, 528 pp.)
- List price EUR 207.- / US\$ 295.-

Recent Advances in Polymer Nanocomposites

S. Thomas, *Mahatma Gandhi University*,
G.E. Zaikov, *Emanuel Institute of Biochemical Physics of Russian Academy of Sciences, Moscow*
and S.V. Valsaraj, *Mahatma Gandhi University*

This book is a collection of technical papers focusing on the preparation, characterization and application of polymer nanocomposites. The various chapters in the book are written by prominent researchers from industry, academia, and government/private research laboratories across the globe. Different techniques adopted for the preparation of nanocomposites, their methods of characterization and their applications are discussed. The main objective of this book is to summarize in a fairly comprehensive manner many of the recent technical accomplishments in the area of polymer nanocomposites. The book is intended to serve as a one stop reference resource for important research accomplishments in the area of polymer nanocomposites.



- December 2008
- ISBN 978 90 04 16210 5
- *Hardback* (xii, 422 pp.)
- List price EUR 155.- / US\$ 238.-

Chemical Processes with Participation of Biological and Related Compounds

Biophysical and Chemical Aspects of Porphyrins, Pigments, Drugs, Biodegradable Polymers and Nanofibers

Edited by T.N. Lomova and
G.E. Zaikov, *Emanuel Institute of Biochemical Physics of Russian Academy of Sciences, Moscow*

The book is devoted to kinetics and thermodynamics of the processes with participation of some biological compounds and their synthetic analogues. Aspects of their acting as model enzymes, molecular receptors, photo sensitizers, pharmacophores, and biopharmaceutical compounds are under consideration. Quantitative characteristics of transfer of cations, anions and small organic molecules, fermentative catalysis, diffusion of the drug molecular through biological membranes are found. Mechanisms of the processes are discussed. Biological activity of studied compounds is evaluated. Bio-damages of materials as well as adhesions of microorganisms on materials surface are investigated.



- December 2009
- ISBN 978 90 04 17224 1
- *Hardback* (400 pp.)
- List price EUR 149.- / US\$ 218.-

Special Topics on Materials Science and Technology

An Italian Panorama

Edited by D. Acierno, A. d'Amore, D. Caputo and R. Cioffi

This volume collects selected papers presented and discussed during the 9th National Conference organized by the Italian Association of Materials Engineering, AIMAT – www.aimat.it, from June 29th to July 2nd 2008 at Piano di Sorrento (Napoli, Italy). It gives a valuable representation of some highlights on the research and development activities running in 21 Italian Universities and Research Centers in the field of Material Science and Engineering. All the reported research lines are focused onto a methodological approach which takes into account scientific issues together with engineering aspects related to real applications.



Frequency Increase!



Advanced Composite Materials

The official Journal of the Japan Society for Composite Materials and the Korea Society for Composite Materials

Editors-in-Chief: C.-G. Kim, Daejeon and Y. Kogo, Tokyo

- 2011: Volume 20 (in 6 issues)
- ISSN 0924-3046 / E-ISSN 1568-5519
- Institutional subscription rates
Electronic only: EUR 1098.- / US\$ 1493.-
Print only: EUR 1208.- / US\$ 1642.-
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Advanced Composite Materials, a quarterly publication of the *Japan Society for Composite Materials* and the *Korean Society for Composite Materials*, provides an international forum for researchers, manufacturers and designers who are working in the field of composite materials and their structures. Issues contain articles on all aspects of current scientific and technological progress in this interdisciplinary field. The topics of interest are physical, chemical, mechanical and other properties of advanced composites as well as their constituent materials; experimental and theoretical studies relating microscopic to macroscopic behavior; testing and evaluation with emphasis on environmental effects and reliability; novel techniques of fabricating various types of composites and of forming structural components utilizing these materials; design and analysis for specific applications. *Advanced Composite Materials* publishes refereed original research papers, review papers, technical papers and short notes as well as some translated papers originally published in the *Journal of the Japan Society for Composite Materials*. Issues also contain news items such as information on new materials and their processing.

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Composite Interfaces

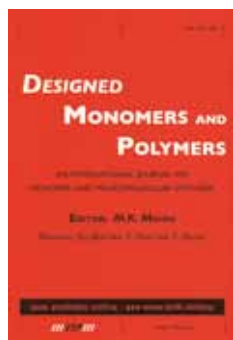
Editor-in-Chief: H. Ishida, Cleveland

- 2011: Volume 18 (in 9 issues)
- E-ISSN 1568-5543
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Composite Interfaces provides a forum for interdisciplinary scientific and engineering research on composite interfaces/ interphases and their related phenomena. It presents new concepts and approaches for composite interface study. Presenting new concepts for composite interface study, the journal balances interest in chemistry, physical properties, mechanical properties, molecular structures, characterization techniques and theories. *Composite Interfaces* covers a wide range of topics including - but not restricted to - surface treatment of reinforcing fibers and fillers; effect of interface structure on mechanical properties, physical properties, curing and rheology; coupling agents; synthesis of matrices designed to promote adhesion; molecular and atomic characterization of interfaces; interfacial morphology; dynamic mechanical study of interphases; interfacial compatibilization; adsorption; tribology. The journal publishes articles encompassing composites with organic and inorganic materials and includes composites applied to aerospace, automotive appliances, electronics, construction, marine, optical and biomedical fields. Although blends, coatings and adhesives are not traditionally called composites, they are an important part of the journal since their interfacial structures and properties have great similarities to composite interfaces.

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Designed Monomers and Polymers

An international journal on monomer and macromolecular synthesis

Editor: M.K. Mishra, *Phillip Morris USA Research Center*
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- 2011: Volume 14 (in 6 issues)
- E-ISSN 1568-5551
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Electronic only: EUR 890.- / US\$ 1210.-

Designed Monomers and Polymers provides a forum for the prompt publication of peer-reviewed, English-language papers on all areas of macromolecular design and application. Emphasis will be placed on the macromolecular preparations including the synthesis, characterization and application of monomers. The experimental part should be provided in such detail (including specific observations, precautionary notes, use of new materials, techniques, and their possible problems, etc.) that it could be reproduced by any researcher wishing to repeat the work. The subjects of macromolecular science, initiators, macroinitiators for macromolecular design, as well as the kinetics, mechanism and modeling aspects of polymerization, will be included too. *Designed Monomers and Polymers* provides an interface between organic, and polymer chemistries and aims to bridge the gap between monomer synthesis and the design of new polymers. The subject of monomers may include old monomers but new methods of synthesis. Authors must show the evidence for polymerization (including polycondensation, sequential combination, oxidative coupling, radiation, plasma polymerization, etc.) for new monomers. The field of monomers encompasses functional prepolymers of various architectures such as hyperbranched polymers, telechelic polymers, macromonomers, or dendrimers. Articles on monomers have been scattered over a vast number of journals: there is no polymer journal that covers a specialized subject such as monomers, whereas monomers are the building blocks of polymers. *Designed Monomers and Polymers* seeks to redress the balance by providing an international forum for addressing the issue of monomers and the art and science of macromolecular design.

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Journal of Adhesion Science and Technology

The international journal of theoretical and basic aspects of adhesion science and its applications in all areas of technology

Editor-in-Chief: K.L. Mittal, *Hopewell Junction*
Co-Editors: H.-J. Kim, *Seoul*, J.M. Martín-Martínez, *Alicante*

- 2011: Volume 25 (in 20 issues)
- ISSN 0169-4243 / E-ISSN 1568-5616
- Institutional subscription rates
Electronic only: EUR 2492.- / US\$ 3325.-
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The *Journal of Adhesion Science and Technology* provides a forum for the basic aspects, theories and mechanisms of adhesion and deals with applications of adhesion principles in all areas of technology. Issues contain original articles, reviews and short communications in the following areas: theories of adhesion; surface energetics; fracture mechanics; development and applications of surface-sensitive methods to study adhesion phenomena; nondestructive methods for bond failure studies; techniques for the measurement of adhesion of thin films, thick films and coatings; surface modification of polymers to improve their adhesion; mechanisms and studies of coupling agents; adhesive joints, wood bonding and adhesion aspects of composite materials; biomedical materials; structural adhesives; paint and coatings (e.g. in relation to corrosion control); adhesion aspects in microelectronics; adhesion of lithographic materials; metallized plastics; rubber and elastomer adhesion; adhesion of aerospace materials.

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Frequency Increase!

Journal of Biomaterials Science, Polymer Edition

Editors: S.L. Cooper, Columbus, K. Kataoka, Tokyo and M. Vert, Montpellier

- 2011: Volume 22 (in 18 issues)
- ISSN 0920-5063 / E-ISSN 1568-5624
- Institutional subscription rates
Electronic only: EUR 2371.- / US\$ 3224.-
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The *Journal of Biomaterials Science, Polymer Edition* publishes fundamental research on the properties of polymeric biomaterials and the mechanisms of interaction between such biomaterials and living organisms, with special emphasis on the molecular and cellular levels. The scope of the journal includes polymers for drug delivery, tissue engineering, large molecules in living organisms like DNA, proteins, and more. As such, the *Journal of Biomaterials Science, Polymer Edition* combines biomaterials applications in biomedical, pharmaceutical and biological fields.

Thomson Scientific's Journal Citations Report for 2009 ranks the *Journal of Biomaterials Science, Polymer Edition* with an Impact Factor of 2.505.

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Advanced Robotics

The international journal of the Robotics Society of Japan. Published jointly with the Robotics Society of Japan.

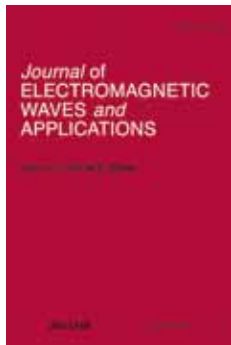
Editor-in-Chief: S. Sugano, Tokyo

- 2011: Volume 25 (in 18 issues)
- ISSN 0169-1864 / E-ISSN 1568-5535
- Institutional subscription rates
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Advanced Robotics is the international journal of the Robotics Society of Japan and has a history of more than twenty years. It is an interdisciplinary journal which integrates publication of all aspects of research on robotics science and technology. *Advanced Robotics* publishes original research papers and review papers from all over the world. Issues contain papers on analysis, theory, design, development, implementation and use of robots and robot technology. The journal covers both fundamental robotics and robotics related to applied fields such as service robotics, field robotics, medical robotics, rescue robotics, space robotics, underwater robotics, agriculture robotics, industrial robotics, and robots in emerging fields. It also covers aspects of social and managerial analysis and policy regarding robots.

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Journal of Electromagnetic Waves and Applications

Editor-in-Chief: W.C. Chew, *Hong-Kong*
Founding Editor-in-Chief: J.A. Kong †

- 2011: Volume 25 (in 18 issues)
- ISSN 0920-5071 / E-ISSN 1569-3937
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This journal covers all aspects of electromagnetic wave theory and its various applications. The journal publishes original papers and review articles on new theories, methodology and computational techniques, and interpretations of both theoretical and experimental results. The aim is to report advancement and progress in the modern development of electromagnetic wave theory and to report new and exciting applications.

The journal's scope is broad and includes the following topics: Wave propagation theory; Remote sensing; Inverse scattering; Geophysical subsurface probing, inversion techniques; Propagation in random media; Oceanography-radar reflection; Meteorology; Ionospheric effects on wave propagation; Ionospheric modifications and heating; Atmospherics; Antenna theory and applications; Transients; Radar measurements and applications; Active experiments using space vehicles; Extra-terrestrial remote sensing; Electromagnetic interferometry;

Ground-based remote sensing; Agricultural remote sensing; Microelectronic, integrated circuits; EM wave transmission in VLSI; Electromagnetic pulse transmission and coupling; Electromagnetic compatibility; Optical and millimeter wave techniques; Integrated optics; Fiber optics; Communication systems; Solid state devices and circuits; Medical applications, biological effects; Ferrite devices; Field and network theory; High power devices and systems; Submicron structures; Waves in composite and amorphous materials; Expert systems in remote sensing; Numerical methods.

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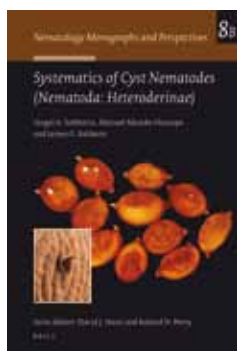
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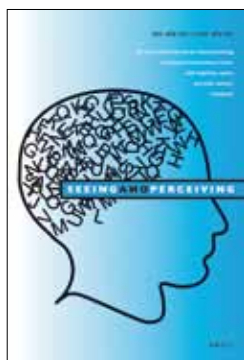
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