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CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.4. RESEARCH PUBLICATION AND AWARDS

3.4.4 Number of Books and Chapters in Edited Volumes Published per Teacher

**COPY OF COVER PAGES FOR
BOOKS**



3.4.4.1 Total Number of books and chapters in edited volumes published during the last five years

Name of the teacher	Title of the book published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
D. Asokan	Pulavi Nunukkam	2018	978 - 93 -86816 - 99 -3	Yes	Pallavi Pathipakkam

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முனைவர் து. அசோகன்

Dr. D. Asokan

தமிழ்

Tamil

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Name of the teacher	Title of the book published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
M.Govindarajan	Green Synthesized Silver Nanoparticles In The Fight Against Mosquitoes	2018	978-3-330-03713-7	Yes	Lap LAMBERT Academic publishing

Mosquito vectors are solely responsible for transmitting diseases such as malaria, dengue, chikungunya, Japanese encephalitis, lymphatic filariasis and, recently, Zika virus. Vector control is an essential requirement in the management of epidemic diseases that are transmitted by mosquitoes. Notably, the excessive use of synthetic pesticides causes emergence of resistance in treated pests and also lead to harmful effect on non-target organisms. This has required an urgent search for development of new and improved mosquito control methods that are cheap, effective and safe for human health and the environment. The green synthesis of eco-friendly metal nanoparticles is a fast-growing branch of current nanoscience with a number of biomedical and entomological implications. The aim of this book is designed for research scholars who studies mosquito control through nanotechnology. The book contains six chapters. Chapter 1 provides a general introduction. In chapter 2, reviews of literature, are given. The chapter 3 provides materials and methods. The observations are presented in chapter 4. The discussion is in chapter 5. Summary is in chapter 6. Finally provide references.



Marimuthu Govindarajan

Green Synthesized Silver Nanoparticles In The Fight Against Mosquitoes



Dr. M. Govindarajan is serving as an Assistant Professor at the Department of Zoology, Annamalai University, India. He has published more than 200 studies on top-ranked journals with impact factor. He has also guided M.Phil and Ph.D scholars. He has received major research project from DST, UGC and ICMR, Government of India, New Delhi, India.



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Name of the teacher	Title of the book published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
M.Govindarajan	Plant extracts to control the Zika virus mosquito vector	2019	978-613-9-91126-4	Yes	Lap LAMBERT Academic publishing

Mosquito-borne diseases, such as malaria, yellow fever, dengue, West Nile and Zika virus are of huge medical and veterinary importance. The control of arboviral diseases, particularly dengue and Zika virus, sadly lacks in reliable and effective treatments of the infection, therefore vector control still plays pivotal importance. On the other hand, the overuse of synthetic insecticides led to several public health and ecological problems, including environmental pollution, effects on non-target organisms, as well as development of resistance in targeted vectors. Insecticides from natural products may boost the effectiveness of vector control programs. This book is designed for research scholars who studies mosquito control through medicinal plant extracts. The book contains seven chapters. Chapter 1 provides a general introduction. In chapter 2, reviews of literature are given. The chapter 3 provides the biology of Zika virus mosquito vector. Chapter 4 covers the materials and methods. The observations are presented in chapter 5. The discussion is in chapter 6. Summary is in chapter 7. Finally provide references.

Marimuthu Govindarajan

Plant extracts to control the Zika virus mosquito vector

Dr. M. Govindarajan is serving as an Assistant Professor at the Department of Zoology, Annamalai University, India. He has published more than 200 studies on top-ranked journals with impact factor. He has also guided M.Phil and Ph.D scholars. He has been received major research project from DST, UGC and ICMR, Government of India, New Delhi, India.

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Name of the teacher	Title of the book published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
M.Govindarajan	A handbook of practical Zoology Vol. 2- Chordates	2018 - 2019	978-93-5321-561-3	Yes	Nadar Publication, Kumbakonam, Tamil Nadu.

Students gain practical understanding via applying the scientific method in the Practical Zoology book. Students at the Zoology program's undergraduate and postgraduate levels will find this lab manual very helpful. This laboratory handbook offers instances of zoological experiments as well as several processes, techniques, and methods about the study of water. There was an examination of the ecology of the water. The development of a number of different species is covered in this discussion. Students are taught about the development of embryos as well as the qualitative aspects of biochemistry research. Students who are pursuing a degree in animal behavior will find that reading this book is of tremendous use to them.



M. Moorthi
M. Govindarajan

Practical Zoology

Ecology, Evolution, Embryology, Animal Physiology and Biochemistry

Dr. M.Moorthi works as an Assistant Professor of Zoology and Wildlife Biology, A.V.C. College (Autonomous), Mayiladuthurai, Tamil Nadu, India. Dr. M. Govindarajan serves as an Assistant Professor of Zoology, Government College for Women (A), Kumbakonam, Tamil Nadu, India.



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M. Moorthi, M. Govindarajan



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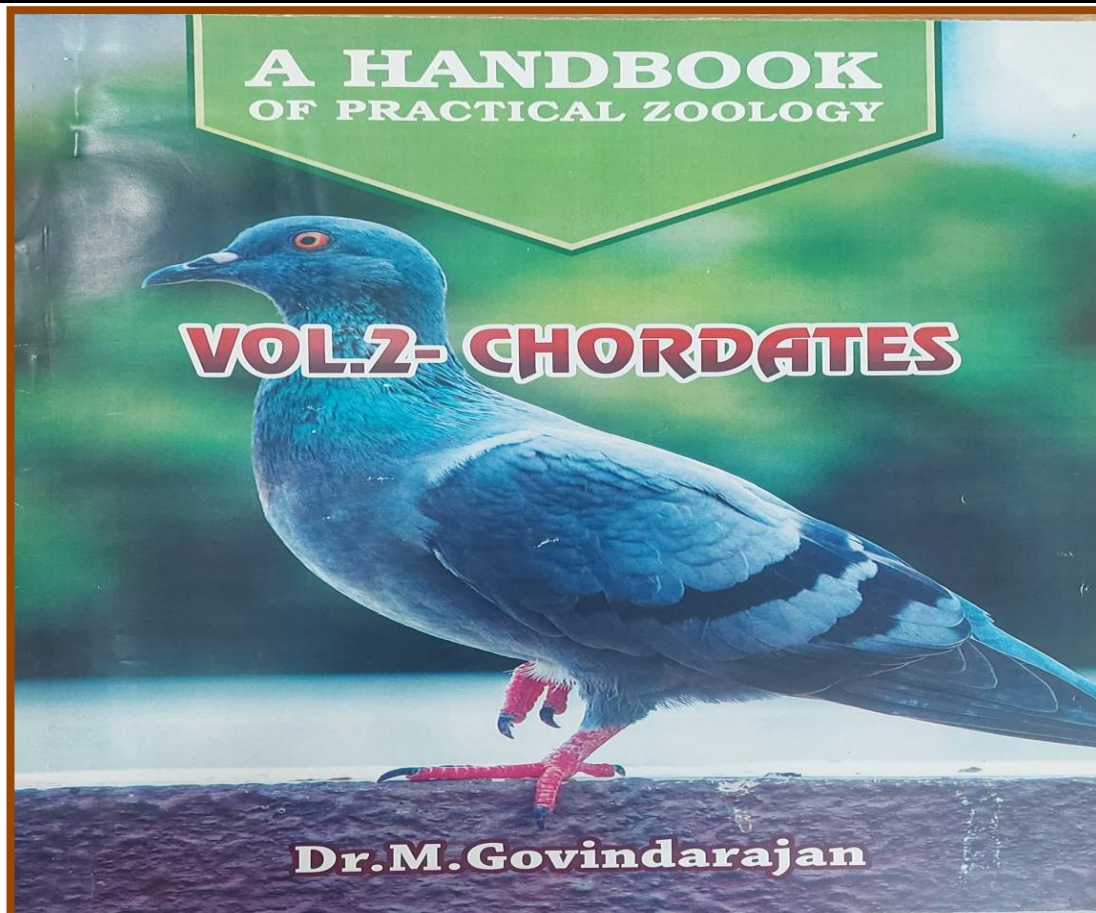


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Name of the teacher	Title of the book published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
M.Govindarajan	A handbook of practical Zoology Vol. 3- Allied Zoology	2018 - 2019	978-93-5321-625-2	Yes	Nadar Publication, Kumbakonam, Tamil Nadu.



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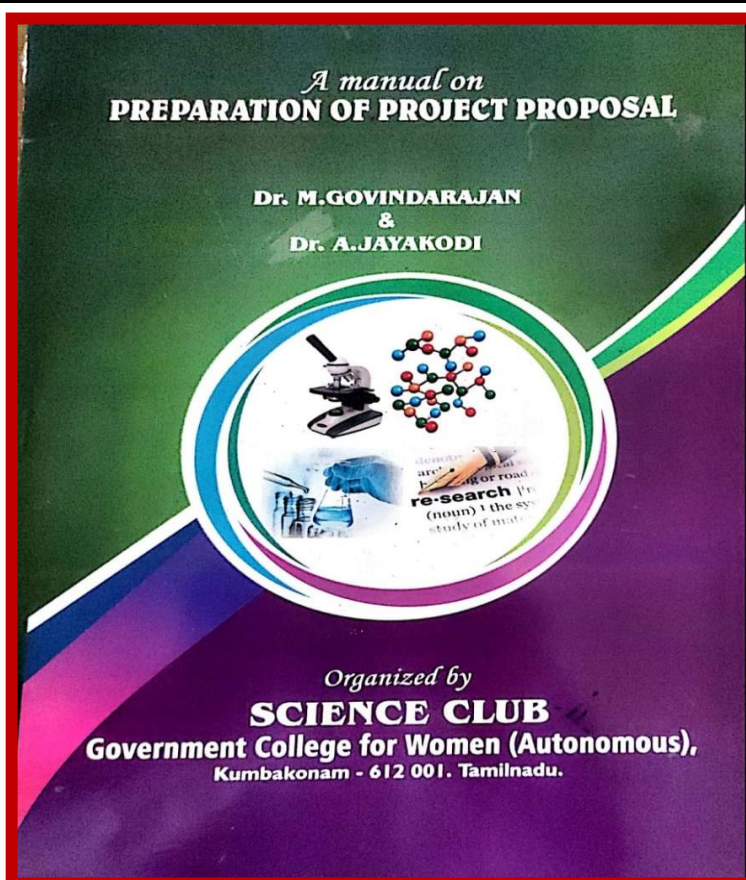


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Name of the teacher	Title of the book published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
Dr. M.Govindarajan Dr.A.Jayakodi	A Manual on Preparation of Project Proposal	2019	978-93-53-82-735-9	Yes	Nadar Publication, Kumbakonam, Tamil Nadu.



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Name of the teacher	Title of the book published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
K. Krishnappa, J. Pandian & M. Govindarajan	Agricultural Pest Management	2020	978-620-2-67180-4	Yes	Lap LAMBERT Academic publishing

Agriculture is the backbone of the Indian economy nearly 75% of the rural areas of Indian villagers is depending on agriculture. The amount of food production is greatly deteriorated due to the farmer's enemies like pests and diseases. According to UN reports, the total world population now is about 10000 million and we required double the food production. Insect pests and diseases are important limiting factors of agricultural production across the globe and certain important polyphagous pests widely distributed throughout Asia. It has a wide range of hosts, feeding on more than 200 plant species worldwide, of which 100 species are known from India. This book comprises a collection of chapters on morphology, life cycle, and various control measures of agricultural pests. This book looks at the lead to useful guidance for developing the future generation of farmers. Also, the contents of this book will prove useful for researchers and professionals working in the field of agriculture.

Agricultural Pest Management



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Dr.K. Krishnappa and Dr.J. Pandian are working as an Assistant Professor of Zoology and Wildlife Biology, A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai, Tamil Nadu, India. Dr.M. Govindarajan serving as an Assistant Professor of Zoology, Annamalai University, Tamil Nadu, India.



978-620-2-67180-4

Krishnappa, Pandian, Govindarajan

Dr.Kaliyamoorthy Krishnappa
Dr.Jeganathan Pandiyan
Dr.Marimuthu Govindarajan

AGRICULTURAL PEST MANAGEMENT

Morphology, life cycle and control measures



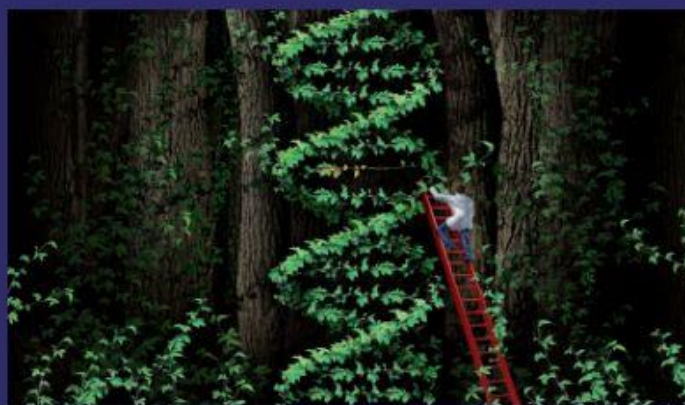
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Name of the teacher	Title of the book published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
S.Umavathi, K. Gopinath & M. Govindarajan	Plant Mutagenesis	2020	978-620-2-66744-9	Yes	Lap LAMBERT Academic publishing

This book comprises a collection of chapters on Mutation breeding approaches for the enhancement of crop growth in terms of productivity. The book looks at ways to establish long term safe, cost-effective and sustainable breeding practices over classical plant breeding methods. Genetic variation is a prerequisite for crop improvement program and was accomplished mainly through mutagenic treatment methods. This book will prove useful for researchers and professionals working in the field of Plant and molecular breeding. The book contains seven chapters. Chapter 1 provides a general introduction. In chapter 2, Effects of mutagens on plants with special reference to biophysical damages are given. Chapter 3 provides mitotic and meiotic chromosomal aberrations due to mutagenic treatment. In chapter 4, the spectrum of morphological mutations and its causes was discussed. The mutagenesis and genetic variability is well explained in chapter 5. Mutagenesis and molecular profiling are discussed in chapter 6. Finally, chapter 7 concludes the molecular approaches and future prospective of mutation breeding.



Dr. S. Umavathi working as an Assistant Professor of Botany, Adhiyaman Arts and Science College for Women, Uthangarai, Tamilnadu, India. Dr. K. Gopinath is serving as a postdoctoral fellow at the School of Materials and Energy, Southwest University, P.R. China. Dr. M. Govindarajan serves as an Assistant Professor of Zoology, Annamalai University, India.

FOR AUTHOR

Dr. Saraswathi Umavathi
Dr. Kasi Gopinath
Dr. Marimuthu Govindarajan

PLANT MUTAGENESIS
Induced Mutation for Crop Improvement



978-620-2-66744-9



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Name of the teacher	Title of the book published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
R. Nivetha, K. Gopinath & M. Govindarajan	Electrocatalysts for Advanced energy	2020	978-620-2-67343-3	Yes	Lap LAMBERT Academic publishing

This book comprises a collection of chapters on Electrocatalyst and Electrode materials for the advanced electrochemical applications. The book looks at ways to establish inexpensively, replace of noble metal for electrochemical energy conversion and storage. The contents of this book will prove useful for researchers and professionals working in the field of Electrochemistry. The book contains six chapters. Chapter 1 provides a general introduction. In chapter 2, described the basics of the electrochemical water splitting mechanism of electrochemical hydrogen evolution reaction. Chapter 3 described the Electrocatalyst. The metal-organic framework was described in chapter 4. Chapter 5 discussed the potential application of the metal-organic framework. Finally, chapter 6 concludes the electrocatalyst and electrode materials for energy conversion and storage applications.

Dr. R. Nivetha working as a Project staff, Center for Nanotechnology Research, VIT, Vellore, Tamil Nadu, India. Dr. K. Gopinath is serving as a postdoctoral fellow at the School of Materials and Energy, Southwest University, P. R. China 400715. Dr. M. Govindarajan serves as an Assistant Professor of Zoology, Annamalai University, Tamil Nadu, India.

Ravi Nivetha
Kasi Gopinath
Marimuthu Govindarajan

Electrocatalysts for Advanced Energy

978-620-2-67343-3



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K. Gopinath, M. Govindarajan & S. Umavathi	Greener Nanomaterials	May 2020	978-620-2-56544-8	Yes	Lap LAMBERT Academic publishing


This book comprises a collection of chapters on advances in green nanomaterials. The book looks at ways to establish long term safe and sustainable forms of nanotechnology through implementation of nanoparticle biosynthesis with minimum impact on the ecosystem. Controlled size and shape nanoparticle influence on plant growth, nutraceutical and pharmacological applications. The book looks at lead to useful guidance for developing the future generation of green synthesized nanomaterials based biomedical applications. The contents of this book will prove useful for researchers and professionals working in the field of nanomaterials and green nanotechnology. The book contains six chapters. Chapter 1 provides a general introduction. In chapter 2, Effects of nanoparticles on plant growth and developments are given. The chapter 3 provides other nanoparticles on plant growth. In chapter 4, contain Nutraceutical applications. The pharmacological application is in chapter 5. Future prospective and conclusion is in chapter 6. Finally provide references.




Kasi Gopinath
Marimuthu Govindarajan
Saraswathi Umavathi

Greener Nanomaterials


Plant Growth, Nutraceutical and Pharmacological Applications



Dr. K. Gopinath serving as a post doctoral fellow at the School of Materials and Energy, Southwest University, P.R. China 400715. Dr. M. Govindarajan is serving as an Assistant Professor of Zoology, Annamalai University, India. Dr. S. Umavathi working as an Assistant Professor of Botany, Adhyan Arts and Science College for Women, Uthangarai, India.



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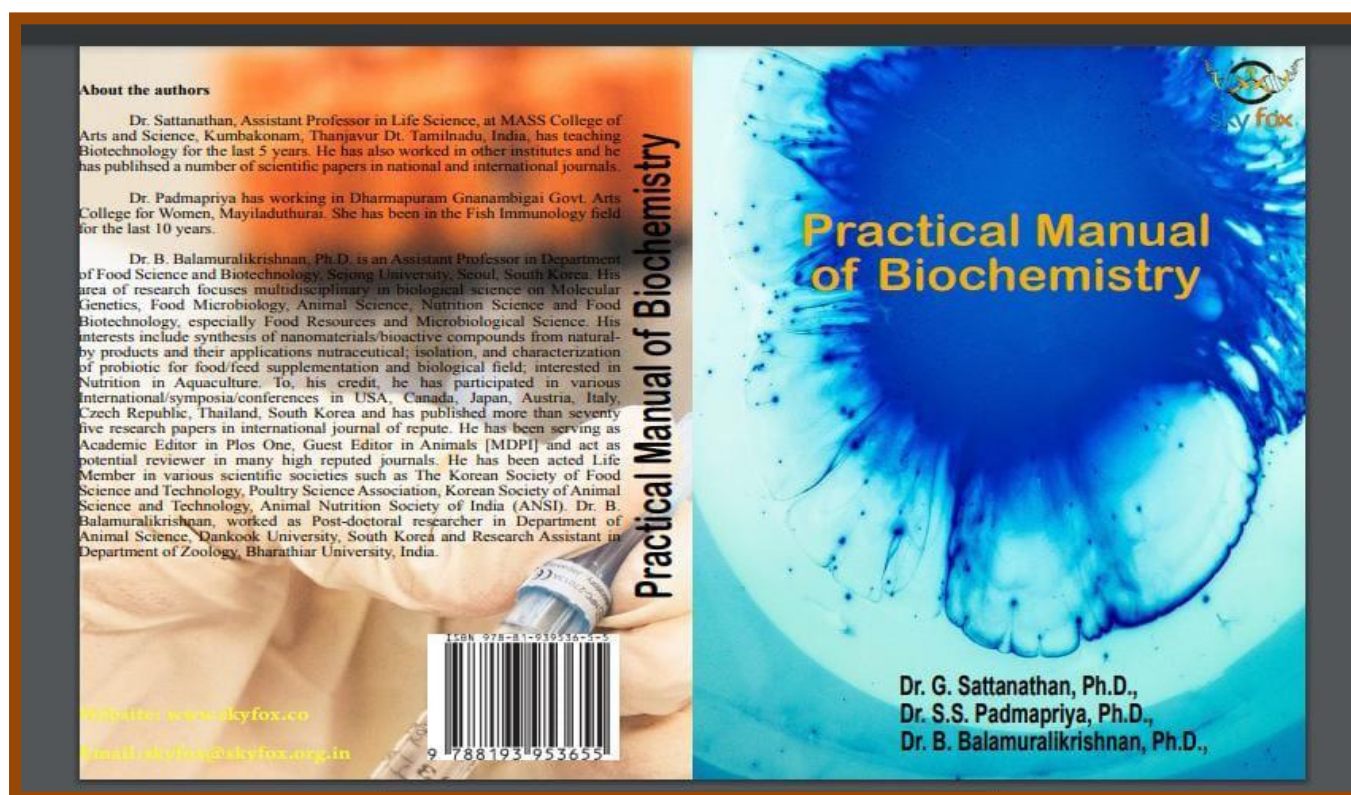


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Dr.S.S.Padmapriya	Practical manual of Biochemistry	2020	ISBN : 978-81-939536-5-5	Yes	Skyfox Publishing Group 333 Cedar Street, PO Box 208002, New Haven, United States. CT 06520-8002.



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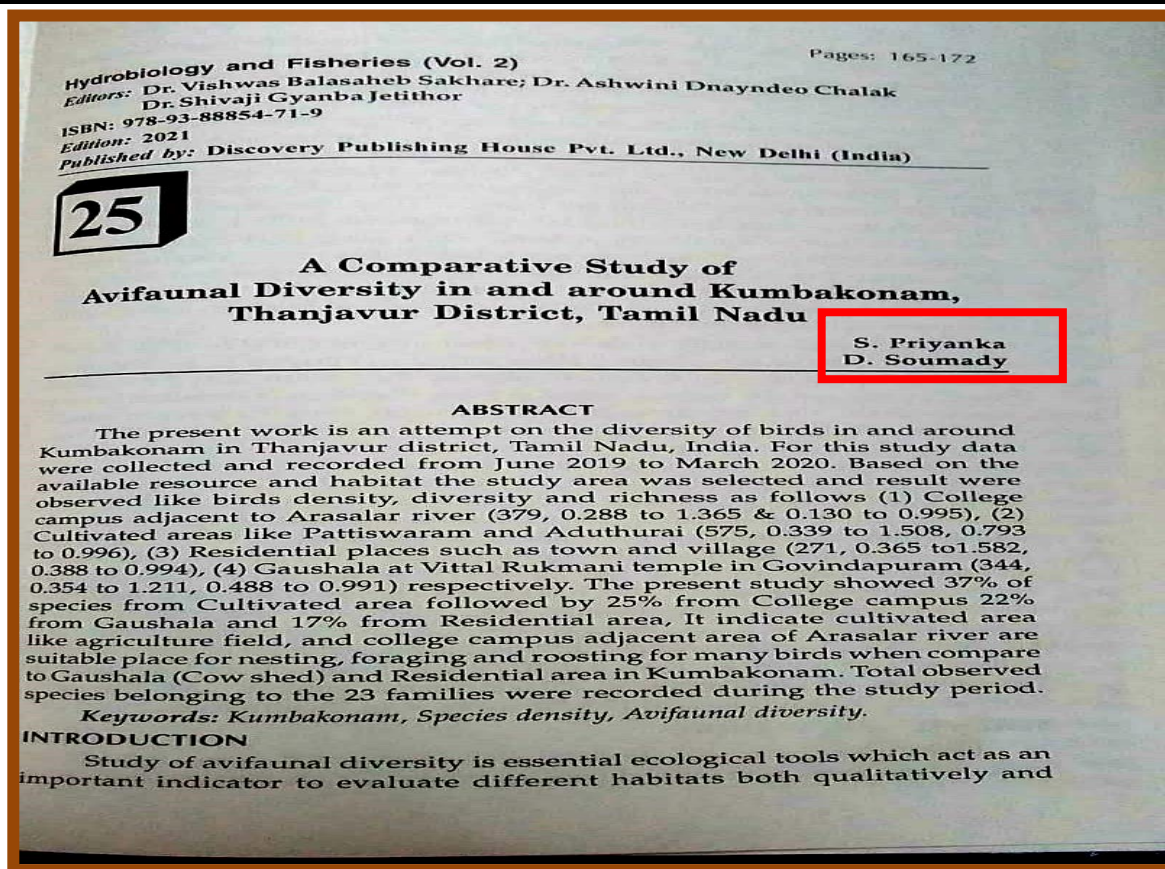
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Name of the teacher	Title of the book published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
Dr.D.Soumady	A comparative study of Avifaunal Diversity in and around Kumbakonam, Thanjavur District, Tamil Nadu, India	2021	978-93-88854	Yes	Discovery Publishing House Pvt.Ltd., New Delhil (India)



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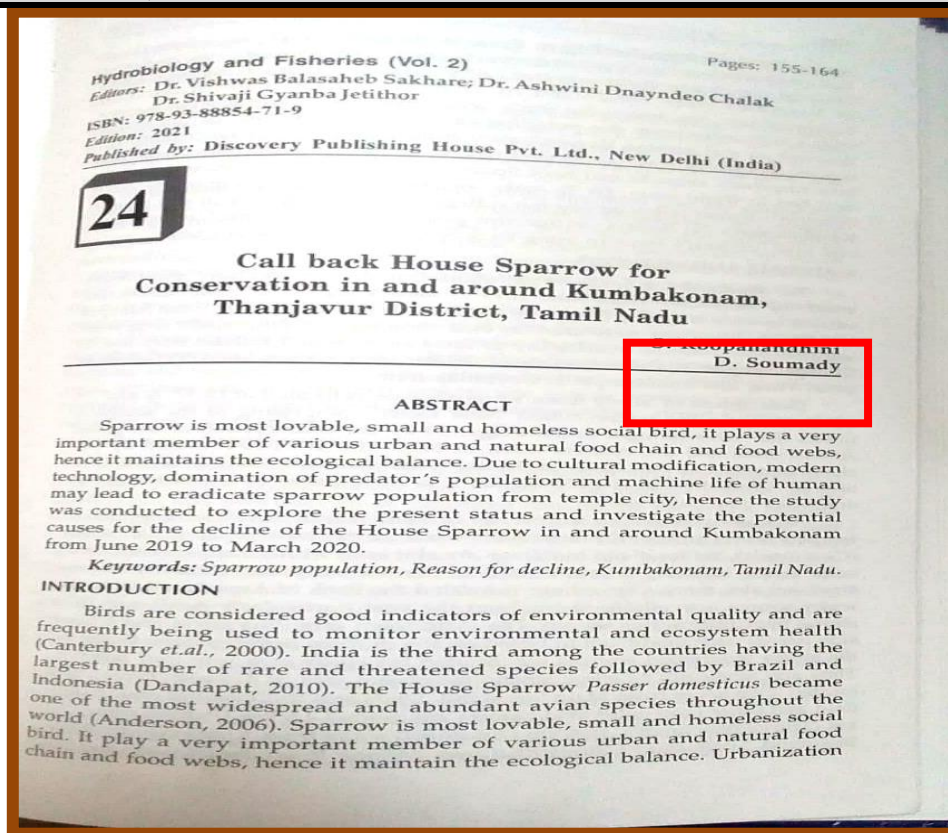
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Dr.D.Soumady	Call back House Sparrow for conservation in and around Kumbakona, Thanjavur District, Tamil Nadu, India	2021	978-93-88854	Yes	Discovery Publishing House Pvt.Ltd., New Delhil (India)



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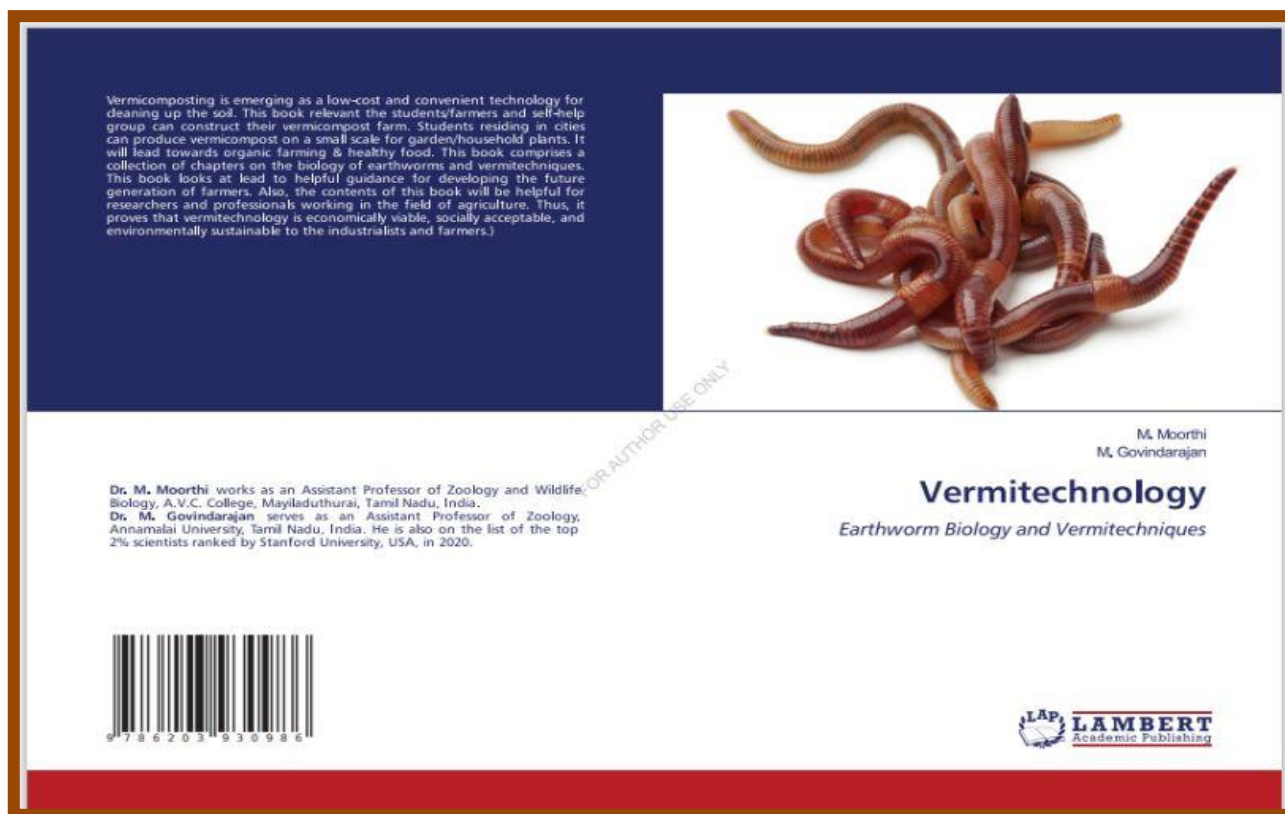
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M.Govindarajan	Vermitechnology- Earthworm Biology and Vermitechnology	2021	978-620-5-49810-1	Yes	Lap LAMBERT Academic publishing



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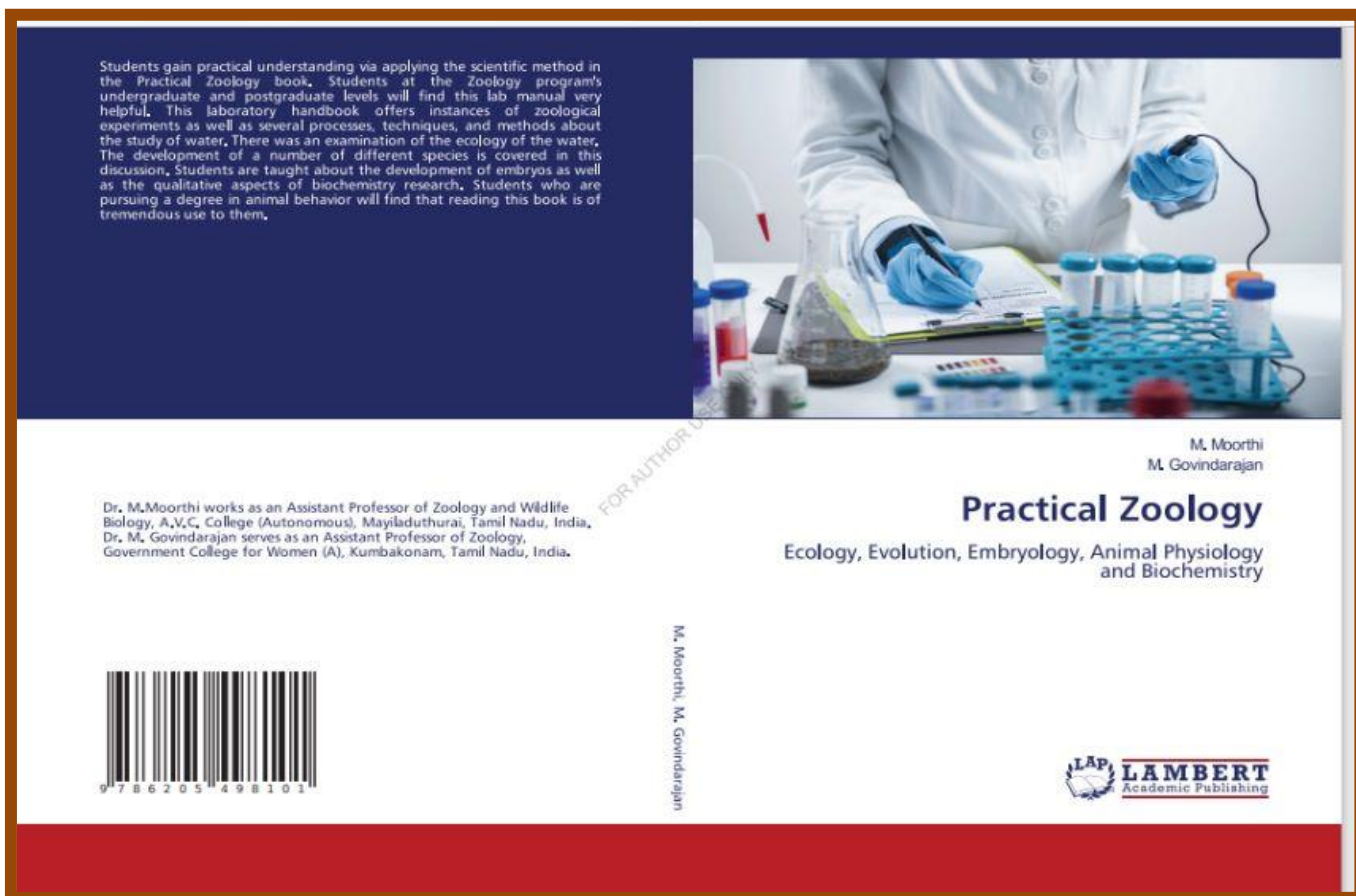
Name of the teacher	Title of the book published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
V.Kavitha	Aquatic biology/Pesticides and Earthworms	2022	978-81-958210	Yes	Discovery publishing house, New Delhi (India)




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Name of the teacher	Title of the book published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
M. Moorthi & M.Govindarajan	Practical Zoology (Ecology, Evolution, Embryology, Animal Physiology and Biochemistry)	2023	978-620-5-49810-1	Yes	Lap LAMBERT Academic publishing



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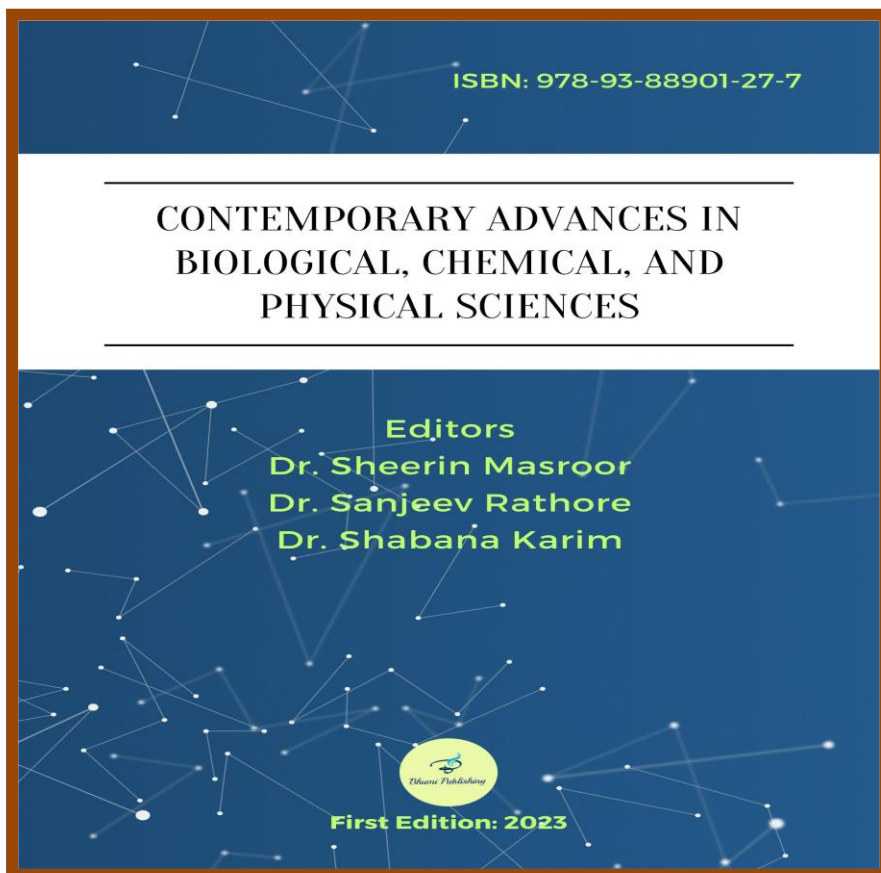


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M. Kiruthika	Contemporary advances in biological, chemical and physical sciences (Chapter 5)	2023	978 - 93 - 88901 - 27 - 7	Yes	Bhumi Publishing



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Bhumi Publishing, India

REMOVAL OF HEXAVALENT CHROMIUM [Cr (VI)] FROM AQUEOUS MEDIUM BY KOH ACTIVATED AERIAL ROOT OF FICUS BENGHALENSIS. L CARBON: ADSORPTION DYNAMICS AND EQUILIBRIUM STUDIES

M. Kiruthiga*¹ and K. Ramesh²

¹Department of Chemistry, Government College for Women (Autonomous), Kumbakonam, Thanjavur Dt, India (Affiliated to Bharathidasan University)

²Department of Chemistry, Poompuhar College (Autonomous), Melaiyur Mayiladuthurai Dt, India (Affiliated to Annamalai University)

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Abstract:

The present paper reports on the use of modified activated carbon as an environmental friendly adsorbent, obtained from aerial root of *Ficus Benghalensis*, for the removal of Cr (VI) from aqueous solution. The activated carbon was prepared from aerial root of *Ficus Benghalensis* by KOH treatment (FBPHAC). Batch studies revealed that the effects of different experimental parameters like pH, dose, contact time, initial ion concentration and temprature. The experimental data showed that the rapid capture of Cr (VI) ions onto FBPHAC is explained by Langmuir isotherm model. The Kinetic modelling showed that a pseudo second order model was suitable to describe the kinetic equilibrium data and suggesting a fast adsorption rate of Cr (VI) ion.

Introduction:

Contamination of water by toxic heavy metals through the discharge of industrial wastewater is a global environmental concern ^[1]. Numerous metals such as Sb, Cr (VI), Cd, Cu, Pb, Hg, etc., have toxic effects on mankind and environment ^[2]. Hexavalent Chromium is one among the mentioned toxic heavy metals essential to human life and health. In minute quantities, the metal is essential in maintaining the health of an individual, whereas excess of the same is carcinogenic. Prolonged exposure to Cr (VI) causes serious illness to human ^[3]. According to the WHO, its permissible level in surface water bodies is 0.05 mg/L and its concentration in industrial wastewaters varies from 0.5 to 270 mg/L. Lather, tanning, pigment, textile, wood preservation, chrome plating, cement and photography industries etc., are the major contributors of hexavalent chromium into the environment ^[4]. Hence, the treatment of contaminated water is the need of the hour. Chemical precipitation, membrane separations, ion exchange, solvent extraction, adsorption, electrodialysis and reverse osmosis are the existing methods for the treatment of industrial waste water. Among these techniques the adsorption is considerably effective due to the feasibility and applicability of low-priced sorbents. It has great potential in significantly reducing such environmental problems, increasing productivity and helping to remediate the environment ^[5].

Several low-cost adsorbents, such as agricultural wastes, industrial solid wastes, biomass, clays minerals and zeolites, are usually utilized for Cr (VI) removal [1].



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S. Geetha	Secure Data Management for Online Learning Applications	2023	978-10-032-645-38	Yes	Taylor and Francis



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