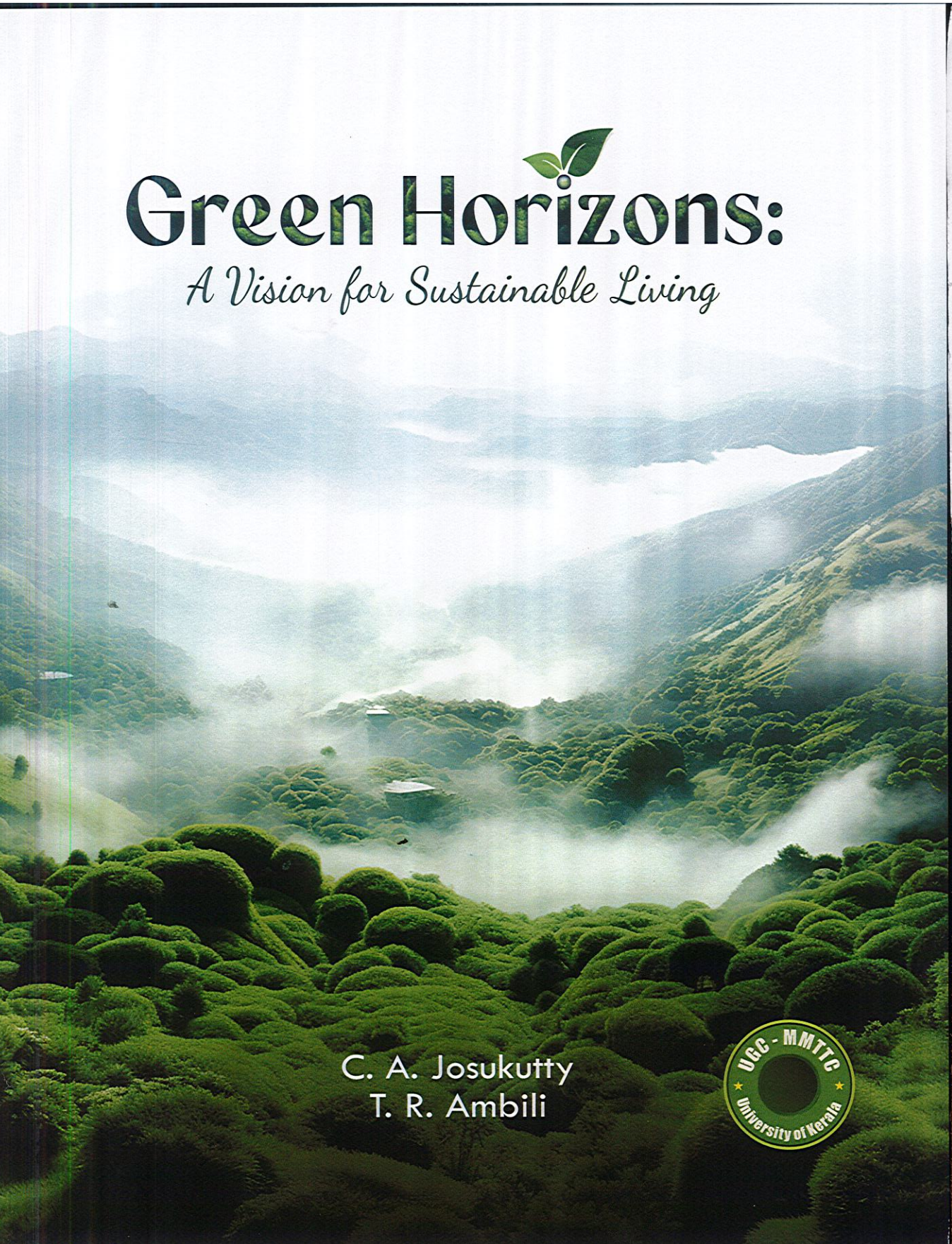




Green Horizons:

A Vision for Sustainable Living

C. A. Josukutty
T. R. Ambili



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Ambili T. R.**

Title of the Book

GREEN HORIZONS: A Vision for Sustainable Living

Date of Release

11 February 2026

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Printed at

St Thomas Press, Pala

Published by

UGC-MMTTC, University of Kerala, Thriuvananthapuram, Kerala
In collaboration with Alphonsa College, Pala
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FOREWORD

The topics of sustainability and climate change are broad and multifaceted, touching on natural systems, scientific inquiry, and human society. This book entitled, "*Green Horizons: A vision for sustainable living*" brings together a collection of contributions that reflect this breadth, drawing from chemistry, biology, and the social sciences. Rather than following a single unifying theme, the volume presents several independent perspectives that address different aspects of these interconnected fields.

The chapters included here represent ongoing efforts to understand environmental challenges through research and observation. Some focus on biological or chemical processes, while others consider social dimensions that influence how scientific knowledge is applied or understood. Taken together, authors illustrate the varied ways in which sustainability and climate change are currently being examined across disciplines.

This collection does not attempt to provide comprehensive solutions or a definitive framework. Instead, it offers a snapshot of approaches, questions, and methods that are relevant to contemporary discussions. The diversity of topics reflects the reality that progress in this area often occurs incrementally and from multiple directions.

It is hoped that this volume will be useful as a reference or starting point for readers with an interest in environmental research and related social considerations. By presenting different viewpoints side by side, the book aims to encourage careful reading, comparison, and further inquiry, contributing in a modest way to the broader conversation on sustainability and climate change.

Prof. C. T. Aravinda Kumar
Vice Chancellor, MG University Kottayam

PREFACE

The twenty-first century stands at a decisive moment, where environmental integrity, social equity and economic development must be carefully balanced to sustain life on Earth. Rapid industrialisation, climate change, biodiversity loss, pollution and unsustainable consumption patterns have intensified the need for informed, inclusive, and innovative responses. *Green Horizons: A Vision for Sustainable Living* emerges from this global context as an interdisciplinary effort to explore, analyse and reimagine pathways toward a sustainable and resilient future.

This edited volume brings together diverse scholarly contributions that reflect the interconnected nature of sustainability. Drawing from environmental science, biodiversity conservation, climate studies, green technologies, economics, ethics, public policy, traditional knowledge systems, and the humanities, the book affirms that sustainable living cannot be addressed through a single discipline. It is a shared responsibility that calls for collaboration across scientific, cultural, and social domains.

Several chapters focus on biodiversity conservation and ecosystem integrity, with particular reference to India's rich ecological heritage, especially Kerala and the Western Ghats. Studies on biodiversity mainstreaming, gene banks, wildlife sanctuaries, Myristica swamps, mangrove restoration, non-native species, and taxonomy highlight the balance between conservation and development. Research on insects, molluscs, plants, and ethnomedicinal resources further underscores the scientific and practical value of biodiversity and the importance of integrating traditional knowledge with modern conservation practices.

A significant portion of the volume addresses climate change and environmental degradation, examining their scientific, political, ethical, and social dimensions. Chapters on climate justice, environmental responsibility, sustainability ethics, and policy perspectives offer critical insights into global inequality and environmental governance.

Engagement with literature and cultural expressions further enriches the discourse by linking environmental awareness with collective memory and creativity.

The book also highlights the role of green technologies and scientific innovation in shaping a low-carbon future. Contributions on sustainable materials, clean energy research, environmental modelling, and river system analysis demonstrate how science can support pollution control, ecological restoration, and sustainable development, when guided by ethical responsibility.

Equally important are the chapters that explore the human dimensions of sustainability. Discussions on behavioural economics, circular economy models, waste reduction, public health, women's leadership, and indigenous knowledge systems highlight inclusivity, equity and community-based approaches as essential to sustainable living.

By bringing together theoretical perspectives and region-specific case studies, *Green Horizons: A Vision for Sustainable Living* bridges global environmental challenges with local realities. The volume is intended as a valuable resource for researchers, educators, students, policymakers, and environmentally conscious readers, encouraging critical thinking, responsible action, and collective engagement.

The editors extend their sincere gratitude to all contributors, reviewers, and institutions whose support made this publication possible. We gratefully acknowledge the collaboration and publication support of the UGC–Malaviya Mission Teacher Training Centre (UGC–MMTTC), University of Kerala, Thiruvananthapuram, whose guidance and institutional commitment strengthened the scholarly and societal relevance of this work.

We place on record our heartfelt thanks to the Administrative Committee of Alphonsa College Pala, for their constant encouragement and guidance. We are especially grateful to the Principal, Prof. Sr. Minimol Mathew, and the Bursar, Rev. Kuriakose Vellachalil, for their guidance and timely support, which were crucial to the successful completion of this book. Above all, we humbly thank God Almighty for His blessings, strength, and grace throughout this endeavour.

We hope that this volume will inspire thoughtful dialogue, foster interdisciplinary collaboration, and contribute to the growing movement toward a greener, more just, and sustainable world.

Josukutty C. A.

Ambili T. R.

FELICITATION

It gives me immense pleasure and a deep sense of pride to felicitate the publication of the book “Green Horizon: A Vision for a Sustainable Living”. This scholarly work comes at a crucial moment in human history, when the need to rethink our relationship with nature has become not just desirable, but indispensable for the survival and well-being of future generations. This book is a thoughtful and timely contribution that addresses some of the most pressing challenges of our age—climate change, environmental degradation, resource depletion, and social responsibility. By bringing together diverse perspectives and interdisciplinary insights, Green Horizon succeeds in presenting sustainability not merely as a concept, but as a shared vision and collective responsibility. It encourages readers to move beyond awareness toward action, innovation, and ethical commitment.

In a world grappling with environmental challenges, institutions of higher learning have a vital role to play in shaping environmentally conscious citizens and responsible leaders. Publications such as Green Horizon strengthen this mission by bridging knowledge with values and theory with practice. This book stands as a testament to the institution’s commitment to academic excellence, research culture, and sustainable thinking.

I would like to congratulate the editors and contributing authors for their intellectual rigor, dedication, and perseverance. Academic writing of this nature demands not only subject expertise, but also social sensitivity and moral courage. The contributors have admirably risen to this challenge, offering ideas that can inspire students, researchers, policymakers, and the wider public alike. The

insights shared within these pages have the potential to spark meaningful change, empowering readers to contribute to a more resilient planet.

I am confident that “Green Horizon: A Vision for a Sustainable Living” will serve as a valuable reference and a source of inspiration for many. I once again extend my heartfelt congratulations to the entire team behind this remarkable work and wish the book every success in reaching a wide and deserving readership.

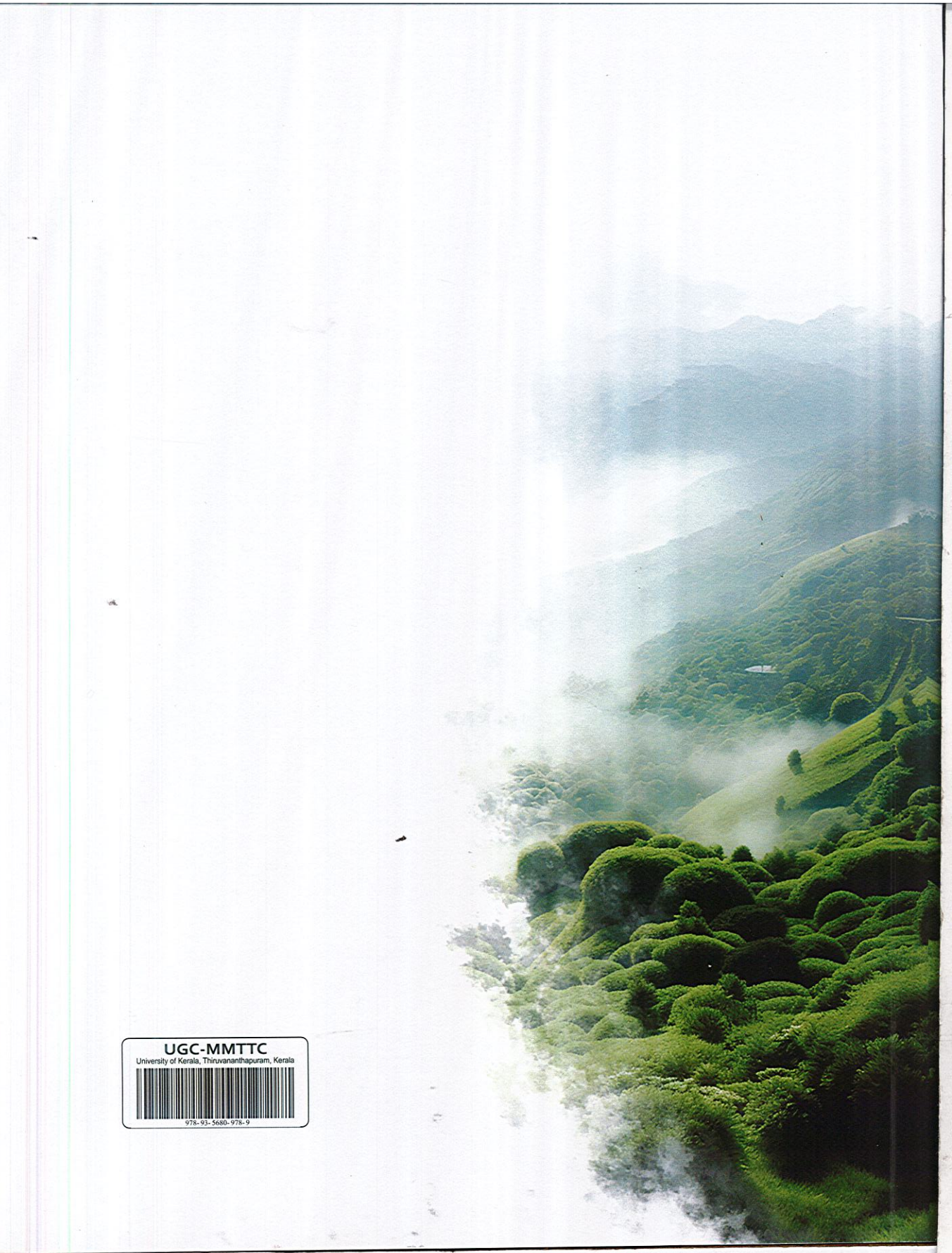
Best wishes for the continued scholarly and social contributions in the years to come.

Prof. (Dr.) Sr. Minimol Mathew
Principal

CONTENT

1. Biodiversity Mainstreaming in India: Legislative Evolution and Regional Implementation - A Case Study of Kerala State.....	13
<i>B. Sandhya, IPS (Rtd), V. Balakrishnan and Baijulal</i>	
2. Environmental Impact Assessment of Electrocatalysts: Towards Sustainable Energy and Green Technologies	24
<i>Jimi K J and Priya Antony</i>	
3. Bridging Scales of Life: From Gene Banks To Wildlife Sanctuaries In Modern Biodiversity Conservation	39
<i>Midhila Baby</i>	
4. Structural Design Principles of Plywood: A Promising Building Material for a Sustainable Future	49
<i>Vijutha Sunny and Feby Jose</i>	
5. Climate Change and The Politics of Responsibility: Negotiating Power, Justice, and Survival	69
<i>Jobin Sebastian</i>	
6. Studies on Microplastic Contamination in Six Rivers of Palakkad District, Kerala	78
<i>Biji CP, Diya Niloofar, Gopika P V and Shaziya T</i>	
7. Drug - Induced Toxicity : Insights From Pharmaceutical Toxicology- Its Evolution-Legality and Ethicality	88
<i>Nandana. S. Nair, Shailesh S. Nair and Ambili T. R.</i>	
8. Millipede Chemical Defenses: An Overview	98
<i>Nikhila Sudhakaran and Manju Elizabeth Kuruvila</i>	
9. Role of Art In Caring for The Earth: A Specimen From A Shakespearean Adaptation.....	107
<i>Rosmy Kattoor</i>	
10. Levelling the Carbon Playing Field: An Analysis of Carbon Border Adjustment Mechanisms (Cbam) as a Response to Trade Competitiveness Concerns	115
<i>Rubymol Philip</i>	
11. The Silence Before the Storm: Reading Silent Spring in the Age of Climate Change	125
<i>Li Anu Jose</i>	
12. Myristica Swamps of the Western Ghats: Understanding Climate Change and Conservation Pathways.....	133
<i>Joseph John and Pratheesh Mathew</i>	
13. Restoring Coastal Resilience: A Review on Mangrove Restoration.....	145
<i>Karthika Surendran and Binu Thomas</i>	
14. Climate Change and Sustainable Living.....	155
<i>Asha Raju</i>	
15. Oxidative Stress and Antioxidant Defence Mechanisms: A Comprehensive Review.....	162
<i>Jince Mary Joseph and Kandhasamy Sowndhararajan</i>	
16. The Significance of Statistical Approaches in Environmental Science: An Extensive Review	174
<i>Manju Jose and Sonia K Thomas</i>	
17. Women as Architects of a Sustainable Environmental Future.....	191
<i>Jilly James, Sheena Varghese, Diana Elizabeth Jose and Kochurani George</i>	
18. Guardians of Biodiversity and Ecosystem Integrity "In Western Ghats: Myristica Forests	201
<i>Julie J Paramundayil</i>	

19. Taxonomy, Phytochemistry, And Ethnomedicinal Importance of <i>Annona reticulata</i> L. With Special Reference to Kerala, India: A Review 211 <i>Shibu George</i>	29. Diversity and Traditional Knowledge on Herbaceous Plants in Coimbatore – A Perspective of Biodiversity Conservation 309 <i>Aravindhan V. and Monisha P.</i>
20. Behavioral Economics of Sustainability: Why People Don't Act Green 219 <i>Smitha Clary Joseph</i>	30. Green Synthesised Cu-Doped ZnO Nanoparticle for the Effective Application in Triboelectricity 326 <i>Deepamol Varghese, Meera K S, Santhwana Reji, Nandana Dinesh Wajdan, Adithya Rajan, Fathima B and Vinayakan R</i>
21. Review on the Role of Green Technologies in Sustainable Development 225 <i>Elezabeth Basil and Sherin C Baby</i>	31. Environmental Impact Analysis in the Digital Era: The Role of Spectroscopy and Computational Modeling..... 335 <i>Priya Antony, Annu Paul and Cincila. T Joy</i>
22. The Biodiversity Imperative: Restoring Life and Securing the Future 231 <i>Ayisha Henna P P, Renjis T. Tom and Rency R. C</i>	32. A Comprehensive Assessment of Aquatic Plant Diversity in Selected Wetlands of Kozhikode District 348 <i>Renjitha K., Muhsina Thasni, Pooja Krishna, Fathima Hanna K. and Binu Thomas</i>
23. Non-Native Land Molluscs of Kerala 242 <i>Aleena Elizabeth Cyril and Gigi K Joseph</i>	33. Brief description of <i>Hapalopeza nilgirica</i> Wood-Mason, 1891 (Insecta, Mantodea, Gonypetidae) 366 <i>Chinchu Devasia and Manju Elizabeth Kuruvila</i>
24. Waste Reduction: Circular Economy Strategies for Environmental Sustainability 251 <i>Akshaya V K and Delse P. Sebastian</i>	34. Microplastics in <i>Villorita cyprinoides</i> from Thanneermukkom bund region of Vembanad Lake 373 <i>Aditya Surendran I, Shiny K. J and Sojomon Mathew</i>
25. A Numerical and Dynamic Modeling Approach to Environmental Sustainability: Assessing Pollution and Restoration Pathways for the Periyar River, Kerala 261 <i>Julie Thomas, Sheena Mathew and Arya S</i>	
26. Ethnomedicinal Plants Used for Treating Gynecological Disorders Among the Tribal Communities of Wayanad District, Kerala: A Sustainable Health and Conservation Perspective..... 278 <i>Arsha T K, Raji, R and Renjis T Tom</i>	
27. Toxic Effects of Amoxicillin on the Freshwater Cladoceran <i>Moina macrocopa</i> 291 <i>Poornima Baby and Varsha T.V</i>	
28. Sowing Seeds of Sustainability: Echoes of Harappan Agriculture for a Greener Future 298 <i>Alphons George</i>	

A vertical photograph of a mountain landscape. The foreground and middle ground show rolling green hills covered in dense vegetation, possibly tea bushes, with mist or low clouds swirling through the valleys. In the background, more mountain ranges are visible, partially obscured by a thick layer of white mist or clouds. The sky is bright and hazy.

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978-93-5680-978-9