

SUSTAINABLE SCIENCE: BRIDGING ECOLOGY AND TECHNOLOGY

Volume III



**Dr. Jyoti Rajput
Dr. S. Ravichandran
Dr. Pallavi Dixit**



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SUSTAINABLE SCIENCE: BRIDGING ECOLOGY AND TECHNOLOGY

(Volume III)

Editors

Dr. Jyoti Rajput

Associate Professor,
Department of Physics,
Lovely Professional University,
Punjab, India.

Dr. S. Ravichandran

Professor,
Department of Chemistry,
Lovely Professional University,
Jalandhar, Punjab, India.

Dr. Pallavi Dixit

Associate Professor,
Department of Botany,
Mahila Vidyalaya Degree College,
Lucknow.

Kripa-Drishti Publications, Pune.

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Edited By: **Dr. Jyoti Rajput, Dr. S. Ravichandran,
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Web: <https://www.kdpublications.in>

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PREFACE

This book entitled "**Sustainable Science: Bridging Ecology and Technology**" deals with the technological advancements, which are imperative to harmonize progress with ecological integrity. We embark on an innovative exploration at the intersection of ecology and scientific technology. This book serves as a compass for navigating the evolving landscape of scientific inquiry, encouraging a harmonious relationship between nature and humanity's technological advancements. Through a lens of sustainability, we have enlightened into the profound connections between ecological principles and cutting-edge technologies, illuminating a path towards a future where scientific endeavors not only push the boundaries of innovation but also foster a resilient coexistence with the natural world. This work aspires to inspire scientists, engineers and policymakers to embrace a holistic approach.

This preface serves as a gateway for ecological innovations, where the power of technology harnessed to mitigate ecological impact, preserve biodiversity that leads to sustainability. The unprecedented rate of industrialization and urbanization in recent decades has brought forth ecological challenges that demand innovative solutions. This book provides a wide range of applications that covers the current innovations and novel approaches for technology to meet global desires. With the impacts of environmental degradation and climate change becoming evident, it has become an imperative to take decisive action towards a more environmentally friendly future. Sustainability not only enhances our quality of life but also protects our valuable natural resources. We wish to express our deep appreciation to all the authors who have enriched their significant contribution of this book with their illuminating knowledge. We believe that this book shall undoubtedly contribute to the advancement and preservation of the green environment. We would also like to express our heartfelt love to our publisher **Mrs. Rajani Adam** for her immense timely help and moral support in bringing out the book in a decent form.

We hope this book will inspire for better future generations. Let this book be a guide, a source of inspiration and a call to action for building a more resilient green and clean world. We assure that, this book will provide a valuable platform to Academicians, Researchers, Industrialists, Scholars and Students to enlighten their knowledge with all diverse fields.

Dr. Jyoti Rajput
Dr. S. Ravichandran
Dr. Pallavi Dixit

CONTENT

1. Martian Harvest: Growing Plants Beyond Earth - Jobanpreet Singh, Shambhavi Sant, Prasanna Babburu, N. Shahina, Jyoti Rajput, Dr. S. Ravichandran	1
1.1 Introduction:	3
1.2 Composition of Martian Soil:.....	4
1.2.1 Types of Composites in Soil on Mars:	4
1.2.2 Obstacles and Benefits for Agricultural Use:.....	4
1.2.3 Compared to the Soil on Earth:	5
1.3 Challenges and Solutions:	5
1.3.1 Difficulties of Growing Plants on Martian Soil:	5
1.3.2 Current Studies and Suggested Solutions:.....	6
1.4 Demonstrations and Achievements in Researching on Mars Soil for Farming: 7	
1.4.1 Investigations in Model Martian Soil Environments:	7
1.4.2 Effective Plant Growth Experiments:.....	8
1.5 Conclusion:.....	8
1.6 References:	9
2. A Way Ahead to Sustainable Agriculture: Zero-Tillage (Myth Vs Reality) - Deepanwita Sadhukhana, M. Jincy	11
2.1 Introduction:	11
2.2 Zero-Tillage:.....	13
2.3 Zero-Tillage in India:	14
2.3.1 Advantages:.....	15
2.3.2 Drawbacks:.....	16
2.4 Yield Effect of Zero-Tillage:.....	17
2.5 Managing Natural Resources:	18
2.6 Environmental Pollution Reduction:	19
2.7 Success Stories:	19
2.8 Myths and Realities of Zero-Tillage:	20
2.9 Tools and Equipment Used in Zero-Tillage Agriculture:	25
2.10 Conclusion:.....	28
2.11 References:	28
3. Trace Elemental Profiling of Environmental Resources: Soil and Water Analysis - Nwe Nwe Aung, Tanveer Ahamad Pandith, Jeeban Prasad Gewali	30
3.1 Introduction:	30

3.1.1 Environmental Pollution and Degradation:.....	31
3.1.2 Microbe-Mediated Trace Element Biogeochemical Cycle:	31
3.1.3 Focus on Bioremediation and Bio-Sensing:.....	31
3.1.4 Different Properties of Trace Elements in Soil and Water:	32
3.1.5 Study of Soil and Water Samples:.....	32
3.2 Literature Review:.....	32
3.2.1 Trace Element Analysis:	33
3.2.2 Microbial Isolation and Identification:.....	34
3.3 Innovative Techniques:	34
3.4 Research Innovation and Contribution:.....	35
3.5 Limitations of the Research:	35
3.6 References:.....	35

**4. Emerging Sustainable Materials: Paving the Path to a Greener Future -
Harjit Singh, Guravtar Singh, Maninder Singh, Vineet Pushya, Jyoti Rajput,
Amarjeet Kaur 38**

4.1 Introduction to Sustainable Materials: Paving the Path to a Greener Future ...	38
4.2 Characteristics of Sustainable Materials: Nurturing a Greener Tomorrow.....	39
4.3 Environmental Benefits of Emerging Sustainable Materials: Fostering a Greener	40
4.4 Economic Advantages of Sustainable Materials: Nurturing a Greener Prosperity	41
4.5 Social Implications of Sustainable Materials: Nurturing a Greener Society ...	42
4.6 Innovations in Sustainable Materials: Charting a Green Technological Frontier	43
4.7 Applications of Emerging Sustainable Materials in Various Industries: Building a	44
4.8 Principles of Recycling and Upcycling: Transformative Paths to Sustainability	45
4.9 Conclusion: Navigating Towards a Sustainable Tomorrow	46
4.10 Reference:.....	46

**5. Harnessing Nature's Power: An Exploration of Renewable Energy Sources -
Harjit Singh, Maninder Singh, Jyoti Rajput, Amarjeet Kaur, Vishal Thakur 48**

5.1 Introduction:	49
5.2 Tracing the evolution of renewable energy from ancient practices to modern	49
5.2.1 Solar Power: Tapping into the Sun's Abundance	50
5.2.2 Wind Energy: Harnessing the Air's Movement.....	51
5.2.3 Hydropower: The Power of Flowing Water.....	52
5.3 Harnessing Earth's Heat: Exploring Geothermal Energy for Heating and Electricity Generation	55
5.4 Technological Innovations in Geothermal Energy: Advancements and Enhanced Geothermal Systems (EGS)	56
5.5 The Role of Biomass: Defining Biomass and its Conversion into Bioenergy .	56

5.5.1 Types of Biomass Energy: Diverse Forms and Sustainability Challenges	58
5.6 Exploring New Frontiers: Emerging Renewable Technologies	58
5.6.1 Potential and Challenges: Navigating the Landscape of Renewable Technologies Adoption	59
5.7 Conclusion: Embracing a Sustainable Energy Future	60
5.8 References:	60
6. Soil as A Depositing Medium of Man-Made Pollutants - Sunakbaeva Dilara	64
6.1 Introduction:	64
6.2 Conclusion:	73
6.3 References:	74
7. Cleaning Up Space Debris by Using Nuclear Technology - Jobanpreet Singh, Shammah Shumirai Mwale, Agnel Antony, Dr. S. Ravichandran	76
7.1 Introduction:	77
7.2 Literature Review:	78
7.3 The Fundamental Framework of Nuclear Based Eliminator:	79
7.4 Methodology:	80
7.4.1 Advantages:	81
7.4.2 Disadvantages:	82
7.5 Safety Measurements of Usage of Nuclear Energy for Clean-Up of Space Junk:	83
7.6 Future Concerns and Considerations:	84
7.7 Conclusion:	85
7.8 References:	86
8. Remote Sensing with Different Types of Sensors and Platforms - R. Murali, Anand George, Gritta Elizabeth Jolly, M. Jincy, Dr. S. Ravichandran	87
8.1 Introduction:	87
8.2 Sensors:	88
8.2.1 Types of Sensors:	88
8.3 Scanners:	88
8.3.1 Multi-Spectral Scanners:	88
8.4 Platforms:	90
8.4.1 Types of Platforms:	90
8.5 Orbits:	91
8.6 Applications of Remote Sensing in Agriculture:	92
8.6.1 Observation of Vegetation Canopy:	93
8.6.2 Evaluation of Crop Condition:	94
8.6.3 Irrigation Management:	94
8.6.4 Limitations of Remote Sensing:	95

8.6.5 Remote Sensing in Precision Agriculture (PA):	96
8.7 Conclusion:.....	96
8.8 References:	96

9. Revolutionary Advancements in Precision Agriculture: Nurturing Techniques for India’s Agricultural Revival - V. Mouleeshwaran, G. B. Athul, Sudarshna Kumari, M. Jincy, Dr. S. Ravichandran..... 99

9.1 Introduction:	99
9.2 The Genesis of Precision Agriculture:	100
9.2.1 Understanding Foundational Principles:	100
9.2.2 Data Analytics in Precision Agriculture:	100
9.2.3 Satellite Imaging for Farm Management:	101
9.3 Machine Learning Algorithms for Decision Support:.....	102
9.3.1 Case Study:.....	102
9.4 Practical Applications and Success Stories:.....	102
9.4.1 Sustainable Water Usage:.....	102
9.4.2 Enhanced Soil Health:.....	103
9.4.3 Yield Optimization:.....	103
9.5 Technology as the Catalyst:	104
9.5.1 Challenges and Opportunities:	104
9.6 Impact on Agriculture and Beyond:	104
9.6.1 Environmental Sustainability:	104
9.6.2 Food Security and Climate Resilience:	105
9.6.3 Socioeconomic Empowerment:.....	105
9.7 The Road Ahead:.....	105
9.7.1 Technological Advancements:	105
9.7.2 Education and Adoption:.....	105
9.7.3 Overcoming Challenges and Collaboration:	106
9.8 Conclusion:.....	106
9.9 Reference:.....	107

10. Technological Innovations in Rainwater Harvesting - Akanksha Kumari, Sunali Badyal, Madhav Kumar, Prassana Babburu, Mahalakshmi Vanipenta, Jobanpreet Singh, Pooja, Dr. S. Ravichandran 109

10.1 Introduction:	111
10.2 Literature Review:.....	112
10.3 Integration of AI and IoT:	113
10.4 Innovative Sensor Technologies:	115
10.5 Remote Supervision and Management:.....	115
10.6 Sustainable Technologies:.....	116
10.7 Developments in Water Purification and Filtration:	117
10.8 Challenges and Future Directions:	119
10.9 Conclusion:.....	120
10.10 References:	121

11. Green Startups and Entrepreneurship in Ecological Solutions - <i>Sucheta Ghosh, Ayan Majumdar, Nandini Kundu Mukherjee, Dr. S. Ravichandran,</i> <i>Dr. Pallavi Dixit</i>	122
11.1 Green Entrepreneurship:.....	123
11.1.1 Key Principles of Green Entrepreneurship Include:.....	123
11.1.2 Rise of Green Startup and Entrepreneurship:.....	124
11.1.3 Factors Contribute to The Increasing Prominence of Green Entrepreneurship:	124
11.2 How Waste Material Can Create Entrepreneurial Ideas?.....	126
11.3 Solid Waste Generation Per Capita:	126
11.3.1 Some Common Examples of Startups Are:.....	127
11.4 References:	128
12. Elevating Soil Organic Carbon Levels: The Dynamics of Conservation Agriculture - Baggani Manoj Kumar, Jyoti Rajput	130
12.1 Background:	130
12.2 Adopting Sustainable Farming: Transitioning to Conservation Agriculture (CA).....	131
12.3 The Cornerstones of CA: Redefining Agriculture Through Three Key Principles	132
12.3.1 Minimum Soil Disturbance Farming- Conservation Tillage:.....	133
12.3.2 Harnessing Permanent Plant Cover:.....	134
12.3.3 Enhancing Sustainability with Crop Diversification:.....	134
12.4 Potential horizons: The Way Forward for Conservation Agriculture	134
12.5 Changing the Landscape: The Global Expansion of Conservation.....	135
12.6 Sustainability Cultivation: Practices for Agricultural Conservation	136
12.7 Cultivating Harmony: Pest, Weed, and Fertility Management in Conservation Agriculture.....	137
12.8 Addressing Challenges in Conservation Agriculture Advancement:.....	138
12.9 Conclusion:.....	139
12.10 References:	139
13. Sustainable Agriculture in Food Industry - Muhammad Yasir Naeem, <i>Batuhan Selamoglu, Mesut Selamoglu, Zeliha Selamoglu, N.Shahina,</i> <i>Dr. S. Ravichandran</i>	141
13.1 Introduction:	142
13.1.1 Background and Objectives:	142
13.2 Sustainable Agriculture Basics.....	143
13.2.1 Definition, Principles, Benefits	143
13.3 Key Practices in Sustainable Agriculture:.....	146
13.3.1 Organic Farming, Agroecology, Precision Agriculture:	146
13.4 Role of Technology in Sustainable Agriculture:.....	148

13.4.1 IoT and Smart Farming, Drones and Remote Sensing, Biotechnology in Crop.....	148
13.5 Challenges and Opportunities in Sustainable Agriculture:	151
13.5.1 Challenges: Knowledge Gaps, Access to Finance, Policy Support:	151
13.5.2 Opportunities: Innovation, Stakeholder Collaboration, Consumer Awareness:	152
13.6 Global Impact of Sustainable Agriculture:.....	153
13.6.1 Environmental Conservation, Climate Change Mitigation, Biodiversity Preservation:	153
13.6.2 Social Impacts, Food Security, and Economic Resilience:	155
13.7 Technological Innovations Shaping the Future of Sustainable Agriculture: 157	
13.7.1 Artificial Intelligence in Agriculture, Gene Editing for Crop Improvement, Vertical Farming and Controlled Environment Agriculture:	157
13.8 Emerging Trends in Sustainable Agriculture:	158
13.8.1 Regenerative Agriculture, Circular Economy Practices, Urban Agriculture:	158
13.9 Policy Frameworks and Global Initiatives for Sustainable Agriculture:	160
13.9.1 Agro Ecological Policies, Sustainable Development Goals, Global Partnerships:	160
13.10 The Role of Education and Capacity Building in Sustainable Agriculture:	162
13.10.1 Farmers' Training Programs, Academic Curricula, and Extension Services:	162
13.11 Conclusion:.....	163
13.12 References:	164

14. Advancements in Laser Technology: A Comprehensive Study -
Hariprasad M. S., Jyoti Rajput **167**

14.1 Introduction:	167
14.2 Fundamentals in Laser:	168
14.3 Evolution of Laser Applications:	172
14.4 Recent Technological Development in Laser:	173
14.5 Emerging Trends and Future Prospects:	174
14.6 Conclusion:.....	175
14.7 References:	176

ABOUT THE EDITORS



Dr. Jyoti Rajput received her Ph.D. degree from NIT Jalandhar, Punjab, India in 2019. She is currently an Associate professor of Physics at Lovely Professional University, Punjab, India. Her research focused areas deal with laser induced electron acceleration in vacuum and plasma (DLA, LBWA, PBWA), harmonic generation and THz radiation. She has published around 35 research articles in various international SCI journals and presented her research work at various international conferences/workshops. She is also a member of different renowned associations/societies e.g., PSSI, ISCA etc. She has been an active

reviewer of esteemed international journals like *Modern Physics Letters B*, waves in random and complex media, *Optics Communications*, *IEEE Trans. in Plasma Science* etc. She has delivered many international invited speakers research talks at eminent conferences. At present, she has accomplished one PhD supervision and is supervising around 5 PhD research scholars.



Dr. S. Ravichandran is currently working as Professor in the Department of Chemistry at Lovely Professional University, Jalandhar, Punjab (INDIA). He completed his Ph.D. in 2006 from Madurai Kamaraj University, Madurai (Tamilnadu) and M.Sc. from Pondicherry University, Pondicherry. He has qualified in GATE with a score of 95 percentile conducted by Ministry of Human Research and Development in the year 1998. He has 17 years of Teaching and Research experiences and published 170 International papers. He has published 10 patents and 10 Textbooks and 30 book chapters. He has guided two Ph.D.

scholars. He has received Bharat Shiksha Ratna award and Lifetime achievement award from Global society in 2012, 2013 from New Delhi. He has also received the award of Academic Excellence by Arab Translators Association, Bahrain on 24th November 2021 in recognition of research publications achievement. Received the Life Time Achievement award with medal from Blue Bird Welfare Association, Prayagraj in a National Conference on Recent Trends in Science, Technology and Management conducted by Madhu Vachaspati Institute of Engineering and Technology, Kaushambi (UP) on 13th February 2022. Received the Life Time Achievement Award with medal from Sansnow's Nobel Professional Foundation, Kanyakumari, (Tamilnadu) approved by Ministry of Corporate Affairs, Government of India on 4th th June 2022. Very recently he has received the Incredible Researcher of India Award with medal from Record Owner, Government of India, Ahmedabad on 30th August 2022. He has delivered many international invited speakers research talks at eminent conferences. He has been serving as Editor-in Chief in many International journals. His current interest is to focus on the development of novel greener methodology for Sustainability Development.



Dr. Pallavi Dixit is well renowned in the field of Science and Literature. She is working as Associate Professor in the Department of Botany at Mahila Vidyalaya Degree College, Lucknow. She has authored 03 books and edited 06 books, 01 is under publication, Published 04 Book Chapters more than 80 articles and 17 Research Papers in various journals of National and International repute. She has also presented more than 32 research papers in various National and International Seminar/Conferences, received many prestigious awards and honours in the field of Science and Literature.



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