

The Journal of Solid Waste Technology and Management (JSWTM)

Publisher: **International Society of Waste Management, Air and Water (ISWMAW), India**

In Collaboration with: **Widener University, Chester, USA**

JSWTM publishes full length articles that provide significant contributions to the **field of Solid and Liquid Waste Management and Circular Economy -**

Scopes: JSWTM publishes full length articles that provide significant contributions to the field of Solid and Liquid Waste Technology, Management & Recycling of wastes [Plastics, WEEE, MSW, Hazardous, Bio Medical, Construction & Demolition, Biomass, Agricultural, ETP/STP Sludge etc.], Policy Instruments, Energy & Material Recovery, Recycled Products, Composites made using wastes, Waste Utilisation, Standardization, Business models related to Waste Utilisation, Circular Economy, SDG 12, Community development on waste management & Circular Economy. All papers are peer reviewed. Soil Pollution, Remediation, Sustainability, SDG 12 related issues, Community development on waste management & Circular Economy. All papers are peer reviewed.

Issues published in: **January, April, July, & October.** Special issues any time.

Editor-in-Chief: Prof. Dr. Sadhan Kumar Ghosh

Editor: Prof. Dr. Ronald Merskey

Submit your paper to : journalswtm@gmail.com & journalswtm@iswmaw.com

Editorial Board

Editor-in-Chief: Prof. Dr. Sadhan Kumar Ghosh, Director, Sustainable Development & Circular Economy, ISWMAW, & Ex- Dean, Faculty of Engg. & Tech., Jadavpur University, India, Site: www.sadhankghosh.com

Editor: Prof. Dr. Ronald L. Mersky, Professor & Chair, Civil Engineering, Widener University, USA

Associate Editor

Prof. Dr. Agamuthu Pariatamby, Professor, Sunway University, Malaysia,

Dr. Atul Narayan Vaidya, Ex-Director, CSIR-NEERI, Nagpur, India

Prof. Dr. Debendra Chandra Baruah, Dean, Interdisciplinary Schools & Professor, Dept of Energy, Tezpur University, Assam, India

Prof. Dr. Dhanada K. Mishra, Technical Director, Product; RaSect AI (www.raspect.ai); Hong Kong;

Dr. Francesco Di Maria, Asso Professor, University of Perugia. Italy

Prof. Dr. Harish Hirani, Professor, Mech Engg Dept., IIT Delhi; Ex-Director, CMERI-CSIR, India

Prof. Dr. Mehmet Sinan BİLGİLİ, Yıldız Technical University, Istanbul, Turkey

Dr. Prasad Kaparaju, Associate Professor, Griffith School of Engg., Griffith University, Australia

Prof. Prasanta Kumar Dey, Professor, Aston Business School, Aston University, UK

Dr. Premakumara Jagath Dickella Gamaralalage, Director, IGES-CCET, Japan

Dr. Richard Blanchard, Reader in Renewable Energy, Loughborough University, UK;

Prof. Dr. Regina Mambeli Barros, The Federal University of Itajubá, Brazil

Dr. Tapas Das, Saint Martin's University, USA

Prof. Robert W. Peters, University of Alabama at Birmingham, USA

The Journal of Solid Waste Technology and Management (JSWTM)

Publisher: **International Society of Waste Management, Air and Water (ISWMAW), India**

In Collaboration with: **Widener University, Chester, USA**

JSWTM publishes full length articles that provide significant contributions to the **field of Solid and Liquid Waste Management and Circular Economy -**

Scopes: JSWTM publishes full length articles that provide significant contributions to the field of Solid and Liquid Waste Technology, Management & Recycling of wastes [Plastics, WEEE, MSW, Hazardous, Bio Medical, Construction & Demolition, Biomass, Agricultural, ETP/STP Sludge etc.], Policy Instruments, Energy & Material Recovery, Recycled Products, Composites made using wastes, Waste Utilisation, Standardization, Business models related to Waste Utilisation, Circular Economy, SDG 12, Community development on waste management & Circular Economy. All papers are peer reviewed. Soil Pollution, Remediation, Sustainability, SDG 12 related issues, Community development on waste management & Circular Economy. All papers are peer reviewed.

Issues published in: **January, April, July, & October.** Special issues any time.

Editor-in-Chief: Prof. Dr. Sadhan Kumar Ghosh

Editor: Prof. Dr. Ronald Merskey

Submit your paper to : journalswtm@gmail.com & journalswtm@iswmaw.com

Members, Editorial Board

Dr. A. N. Naperi, President, CBS University of Agriculture, Philippines	Prof. Dr. Michael M. Nelles, Universität Rostock, Germany
Prof. A. Oberlin, Professor, DIT (Dar es Salaam), Tanzania	Prof. Dr. Obid Tursunov, Power Supply & Renewable En. Sources Dept. TIAME National Research University, Tashkent, Uzbekistan
Prof. Amr Abdelghany, University of Cairo, Giza, Egypt	Dr. Rubén Rodríguez-Alegre, LEITAT Technological Center, Spain
Prof. Ernesto de la Torre Chauvin, Escuela Politécnica Nacional, Quito, Ecuador	Prof. Dr. Md. Rafizul Islam, Professor, KUET, Khulna, Bangladesh,
Prof. Mst. Farzana Rahman Zuthi, CUET, Chattagram, Bangladesh	Prof. Dr. S. W. Rhee, Professor, Kyonggy University, South Korea
Prof. Dr. Guray Salihoglu, Professor, Uludag University, Turkey	Prof. Dr. Sasmita Samanta, Vice Chancellor, KIIT (DU), India
Dr. H. N. Chanakya, Ex-Chair, CST, IISc, Bangalore, India	Dr. S. V. Srinivasa, CSIR- CLRI, Chennai, India
Dr. Heinz Schandl, CSIRO, Australia	Prof. Ir. I D A A Warmadewanthi, ITS Nopember, Indonesia
Dr. Isaac Fernandez, Consultant, Ex-CETIM Tech, Spain	Prof. Rahul Baidya, Institute of Engineering & Management,
Prof. Jinhui Li, Tsinghua University, China	Prof. Suggala .V. Satyanarayana, JNT University India
Prof K N Satyanarayana, Director, IIT, Tirupati, India	Prof. Eugeniusz Koda, University in Warsaw, Poland
Dr. Kare H. Karstensen, Chief Scientist, SINTEF, Oslo, Norway	Prof. David O. Olukanni, Covenant University, Nigeria.
Prof. K. Hemchandra Reddy, Chairman, APSCHE, India	Prof. Hao Wang, University of Southern Queensland (UniSQ)
Prof. Misuzu Asari, Kyoto University, Japan	Prof. Oladele A. Ogunseitan, University of California, Irvine
Mr. M. Divis Rao, Director, Divis Laboratory, India	Prof. Anurag Garg, IIT Bombay, India
Prof. M. Alamgir, Member-UGC, Bangladesh	Prof. Brajesh Dubey, IIT Kharagpur, India
Prof. Michael Koech, Kenyatta University, Kenya	
Dr. Nguyen T. S. Thang, ISPONRE, Vietnam	
Prof. Dr. Machunda, Professor, Nelson Mandela Univ. Tanzania	

The Journal of Solid Waste Technology and Management (JSWTM)

Publisher: **International Society of Waste Management, Air and Water (ISWMAW), India**

In Collaboration with: **Widener University, Chester, USA**

JSWTM publishes full length articles that provide significant contributions to the **field of Solid and Liquid Waste Management and Circular Economy -**

Scopes: JSWTM publishes full length articles that provide significant contributions to the field of Solid and Liquid Waste Technology, Management & Recycling of wastes [Plastics, WEEE, MSW, Hazardous, Bio Medical, Construction & Demolition, Biomass, Agricultural, ETP/STP Sludge etc.], Policy Instruments, Energy & Material Recovery, Recycled Products, Composites made using wastes, Waste Utilisation, Standardization, Business models related to Waste Utilisation, Circular Economy, SDG 12, Community development on waste management & Circular Economy. All papers are peer reviewed. Soil Pollution, Remediation, Sustainability, SDG 12 related issues, Community development on waste management & Circular Economy. All papers are peer reviewed.

Issues published in: **January, April, July, & October.** Special issues any time.

Editor-in-Chief: Prof. Dr. Sadhan Kumar Ghosh

Editor: Prof. Dr. Ronald Merskey

Submit your paper to : journalswtm@gmail.com & journalswtm@iswmaw.com

Research Areas of Editors
Editor-in-Chief: Sadhan Kumar Ghosh Director, Sustainable Development & Circular Economy Research Centre, ISWMAW, Ex- Dean, Faculty of Engg. & Tech., Ex-Professor of Mechanical Eng & Founder Advisor, Centre for Sustainable Dev. & Resource Efficiency Mngt., Jadavpur University, India. Founder & President, International Society of Waste Management, Air & Water (ISWMAW), Ex-Director, CBWE, Govt of India, Ministry of Labour & Employment, Web: www.sadhankghosh.com
Areas of Interest: Solid Waste (Policies, Supply Chain, Recycling, Material & Final Disposal), Liquid Waste Management, Sustainable Env Management, Management of wastes (Hazardous Wastes, E-waste, Plastic Waste, C&DW, & BMW), EPR, Policy & legislation, Waste Coprocessing, Lean Manufacturing, Zero waste, Material & Energy Recovery, 3R, Circular Economy, Resource Efficiency, Secondary Raw Materials, Waste to Energy, Business Excellence Models, Related ISO Standards.
Editor: Ronald L. Mersky, Professor of Civil Engineering, Chair, Department of Civil Engineering, Director of Solid Waste Project, Director of Engineering Outreach; Widener University, Chester, PA 19013, USA
Areas of Interest: Solid waste topics (recycling, landfilling, and energy recovery); Environmental impacts of waste management; Public involvement in the environment; Environmental engineering
Associate Editors
Agamuthu Pariatamby, Professor, Special Studies Division, Jeffrey Cheah Institute on Southeast Asia; and Jeffrey Sachs Center on Sustainable Development; Sunway University, Malaysia;; https://jci.edu.my/agamuthu-pariatamby/
Areas of Interest: SWM, Plastic Biodegradation, Sustainable Env. Management, Life Cycle Analysis, Hazardous Wastes, Solid Substrate Technology, GHG Reduction, MFA & POPs, Circular Economy, EPR, Waste-to- Energy.
Atul Narayan Vaidya, Former Director, CSIR-NEERI, [National Environmental Engineering Research Institute], Nagpur, India
Areas of Interest: Solid and hazardous waste management. quantification and characterization of solid and hazardous wastes; designing of secure landfills; eco-toxicological studies on landfill leachates; designing of MSW transportation system; recycling and reuse of MSW management; and

The Journal of Solid Waste Technology and Management (JSWTM)

Publisher: **International Society of Waste Management, Air and Water (ISWMAW), India**

In Collaboration with: **Widener University, Chester, USA**

JSWTM publishes full length articles that provide significant contributions to the **field of Solid and Liquid Waste Management and Circular Economy -**

Scopes: JSWTM publishes full length articles that provide significant contributions to the field of Solid and Liquid Waste Technology, Management & Recycling of wastes [Plastics, WEEE, MSW, Hazardous, Bio Medical, Construction & Demolition, Biomass, Agricultural, ETP/STP Sludge etc.], Policy Instruments, Energy & Material Recovery, Recycled Products, Composites made using wastes, Waste Utilisation, Standardization, Business models related to Waste Utilisation, Circular Economy, SDG 12, Community development on waste management & Circular Economy. All papers are peer reviewed. Soil Pollution, Remediation, Sustainability, SDG 12 related issues, Community development on waste management & Circular Economy. All papers are peer reviewed.

Issues published in: **January, April, July, & October.** Special issues any time.

Editor-in-Chief: Prof. Dr. Sadhan Kumar Ghosh

Editor: Prof. Dr. Ronald Merskey

Submit your paper to : journalswtm@gmail.com & journalswtm@iswmaw.com

GHG emissions from landfills, Technological options for environmentally sound management of haz. wastes in industries.

Debendra Chandra Baruah,

Dean, Interdisciplinary Schools & Professor, Department of Energy, Tezpur University, P.O.- Napaam, Tezpur, Assam - 784028, India

Areas of Interest: Bioenergy, Rural and agriculture energy management,

Dhanada K. Mishra,

Technical Director, Product; RaSect AI (www.raspect.ai); Hong Kong;

Areas of Interest: Cement substitution and alternative cement, Circular economy, Recycling and Value addition, Climate Change, Carbon Footprint and Sustainable Construction, Sustainability of Built Infrastructure, Cement-based Composites.

Francesco Di Maria,

Associated Professor, Head of the LAR Laboratory (Reuse, Recycle, Recovery of Waste and Residues), Dipartimento di Ingegneria, University of Perugia. Università degli Studi di Perugia, Italy

Areas of Interest: Waste disposal, recycling and recovery of waste and residues with particular attention to integrated sustainable approach

Harish Hirani,

Professor, Mech Engg Dept., IIT Delhi; Ex-Director, CMERI-CSIR, Durgapur, WB; India

Areas of Interest: Design, operation and maintenance of waste disposal plants. Design, O&M of waste water treatment plants

Prasad Kaparaju

Associate Professor, Environment Engineering - Renewable Energy, Griffith School of Engg, Griffith University, Australia

Areas of Interest: Biomass to Biofuels, bioethanol & biofuel production & conversion technologies, nutrient and energy recovery from industrial & agricultural wastes; BioCNG production. Anaerobic Digestion, Env. Biotechnology & Bioprocess Engg, Biomass Pre-treatment & Characterization, Climate Change, GHG Mitigation, Waste and wastewater treatment, biohydrogen etc.

Premakumara Jagath DICKELLA GAMARALALAGE

Director, IGES [The Institute for Global Environmental Strategies] Centre Collaborating with UNEP on Environmental Technologies (CCET), 2108-11, Kamiyamaguchi, Hayama, Kanagawa, 240-0115, Japan

Areas of Interest: Participatory planning, decentralised/ bottom-up development policies, sustainable cities, waste management, 3R (reduce, reuse and recycle), circular society

Richard Blanchard, r.e.blanchard@lboro.ac.uk

The Journal of Solid Waste Technology and Management (JSWTM)

Publisher: **International Society of Waste Management, Air and Water (ISWMAW), India**

In Collaboration with: **Widener University, Chester, USA**

JSWTM publishes full length articles that provide significant contributions to the **field of Solid and Liquid Waste Management and Circular Economy -**

Scopes: JSWTM publishes full length articles that provide significant contributions to the field of Solid and Liquid Waste Technology, Management & Recycling of wastes [Plastics, WEEE, MSW, Hazardous, Bio Medical, Construction & Demolition, Biomass, Agricultural, ETP/STP Sludge etc.], Policy Instruments, Energy & Material Recovery, Recycled Products, Composites made using wastes, Waste Utilisation, Standardization, Business models related to Waste Utilisation, Circular Economy, SDG 12, Community development on waste management & Circular Economy. All papers are peer reviewed. Soil Pollution, Remediation, Sustainability, SDG 12 related issues, Community development on waste management & Circular Economy. All papers are peer reviewed.

Issues published in: **January, April, July, & October.** Special issues any time.

Editor-in-Chief: Prof. Dr. Sadhan Kumar Ghosh

Editor: Prof. Dr. Ronald Merskey

Submit your paper to : journalswtm@gmail.com & journalswtm@iswmaw.com

Reader in Renewable Energy, Wolfson School of Mechanical, Electrical and Manufacturing Engineering; Loughborough University, Loughborough, Leicestershire, Holywell Park; UK;
Areas of Interest: Bioenergy systems, energy for development, sustainability (including life-cycle assessment), and e-learning, Strategic Environmental Assessment of Renewable Energy Policy.
Prof. Dr. Regina Mambeli Barros , remambeli@hotmail.com Professor de Resíduos Sólidos, The Federal University of Itajubá, Brazil,
Strategic Environmental Assessment of Renewable Energy Policy,
Prof. Dr. Mehmet Sinan BİLGİLİ , Civil Engineering Faculty, Env. Engineering Department, Yıldız Technical University, Istanbul, Turkey
Areas of Interest: Focus on sustainable landfill gas management and treatment, waste characterization, municipal waste management, hazardous waste management, biological treatment of waste, hybrid methods for leachate treatment, water and wastewater treatment, hospital wastewater, micropollutant treatment and control, sewage sludge gasification, and environmental effects of nanomaterials.
Dr. Tapas Das , Hal and Inge Marcus School of Engineering, Main Campus (Lacey), Saint Martin's University, 5000 Abbey Way SE, Lacey, WA 98503, USA
Areas of Interest: Water, Domestic & Industrial wastewater treatment, hospital wastewater, sewage sludge treatment, and env. sustainability.

The Journal of Solid Waste Technology and Management (JSWTM)

Publisher: **International Society of Waste Management, Air and Water (ISWMAW), India**

In Collaboration with: **Widener University, Chester, USA**

JSWTM publishes full length articles that provide significant contributions to the **field of Solid and Liquid Waste Management and Circular Economy -**

Scopes: JSWTM publishes full length articles that provide significant contributions to the field of Solid and Liquid Waste Technology, Management & Recycling of wastes [Plastics, WEEE, MSW, Hazardous, Bio Medical, Construction & Demolition, Biomass, Agricultural, ETP/STP Sludge etc.], Policy Instruments, Energy & Material Recovery, Recycled Products, Composites made using wastes, Waste Utilisation, Standardization, Business models related to Waste Utilisation, Circular Economy, SDG 12, Community development on waste management & Circular Economy. All papers are peer reviewed. Soil Pollution, Remediation, Sustainability, SDG 12 related issues, Community development on waste management & Circular Economy. All papers are peer reviewed.

Issues published in: **January, April, July, & October.** Special issues any time.

Editor-in-Chief: Prof. Dr. Sadhan Kumar Ghosh

Editor: Prof. Dr. Ronald Merskey

Submit your paper to : journalswtm@gmail.com & journalswtm@iswmaw.com

1. Submission process: click on the log in link: <https://journal.iswmaw.com/login>

Log in with email and existing password, if you are already registered earlier. For new registration, click on the "Register Now" at the bottom of log in page. Registration page will open. Complete Registration. Remember the password. On Clicking "Register", **My profile** page will open. Enter your profile. Go to the box on the left side and click on "Upload New & Revised Submission" to upload the Abstract, New Paper or Revised paper as the case may be. Complete the form, upload the word files of Paper, and save. Log out. This way the paper is submitted.

Send in email, the Forwarding Letter, List of Reviewers, word document & pdf version of the article, plagiarism similarity %, AI Disclosure and copyright form filled in to: journalswtm@gmail.com & journalswtm@iswmaw.com

- 2. General Instructions:** Submitting the manuscript is a representation that it has not been copyrighted or published, and is not being submitted for publication elsewhere. A forwarding letter along with the paper and other document should be sent to the Editor-in-Chief. The Papers should have a main author to whom correspondence will be sent. The main author carries full responsibility that all other authors have approved the manuscript and to pay the PRF.
- 3. Forwarding Letter: (See the format)**
 - a. A forwarding letter with the title of the paper should contain the following with the following information and document,
 - Personal declaration that the paper has not been copyrighted or published, and is not being submitted for publication elsewhere,
 - Personal declaration: I agreed to pay the Processing Registration Fee (PRF)
 - Declare the name of Plagiarism Detection Software (PDS) used and the % similarity found for the paper (keep max. 15% with self-plagiarism, exclusion of common words & quotes),
 - Mention the Novelty of the paper in 45 words.
- 4. List of Reviewers & Author/s (See the format):** Submit tabular list of 4 reviewers [from different country/ies, none from author's organisation/s] & list of all authors [name, designation, affiliation, email id and mobile no]
- 5. Manuscript (Article):** Include Postal address, email address, country code, mobile no, of the corresponding author. Titles and headings should be of max. 12 words. Avoid using footnotes - instead use referencing. Units should be SI or American with SI in parentheses. Be as concise as feasible – avoid unnecessary or repetitive information. Full article should be between 25,000 to 35,000

The Journal of Solid Waste Technology and Management (JSWTM)

Publisher: **International Society of Waste Management, Air and Water (ISWMAW), India**

In Collaboration with: **Widener University, Chester, USA**

JSWTM publishes full length articles that provide significant contributions to the **field of Solid and Liquid Waste Management and Circular Economy** -

Scopes: JSWTM publishes full length articles that provide significant contributions to the field of Solid and Liquid Waste Technology, Management & Recycling of wastes [Plastics, WEEE, MSW, Hazardous, Bio Medical, Construction & Demolition, Biomass, Agricultural, ETP/STP Sludge etc.], Policy Instruments, Energy & Material Recovery, Recycled Products, Composites made using wastes, Waste Utilisation, Standardization, Business models related to Waste Utilisation, Circular Economy, SDG 12, Community development on waste management & Circular Economy. All papers are peer reviewed. Soil Pollution, Remediation, Sustainability, SDG 12 related issues, Community development on waste management & Circular Economy. All papers are peer reviewed.

Issues published in: **January, April, July, & October.** Special issues any time.

Editor-in-Chief: Prof. Dr. Sadhan Kumar Ghosh

Editor: Prof. Dr. Ronald Merskey

Submit your paper to : journalswtm@gmail.com & journalswtm@iswmaw.com

characters counted with space. Article should be submitted with 25 mm margin on each side on A4 size, using 12 font size times roman letters, single space in **word document and pdf files in single column**. Figure & tables with good readability should be cited in the text or source given.

- Abstract and Keywords:** Abstract (mandatory) in 250 words should clearly outline the main idea/study, Research questions, Research Objectives, outcome & novelty & 5 keywords for indexing purposes.
- Illustrations:** All illustrations (tables, graphs, photographs & figures) should be legible, properly identified by numbers and with short caption and source citation, is any. Each illustration should be cited within the text before the illustrations. The illustrations should mention sources, wherever required.
- References:** APA (American Psychological Association) system [e.g., (Ghosh, 2025), (Merskey et al, 2024), & so on] should be used with alphabetized reference list at the end of the paper. All references should be complete, give adequate information & doi.

For More Information: Telephone: +91 9830044464;/ 87776 86385 (WhatsApp too)

- email: journalswtm@gmail.com, iswmaw@gmail.com

Submit all the articles to the **Submission link:** <https://journal.iswmaw.com/login>

6. Tentative Timeline for Publication (Authors must respond in time)

