

*Call for review articles*

Environmental Chemistry for a  
Sustainable World

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**SPRINGER NATURE**



# Innovations for Sustainable Water Resources

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## INSTRUCTIONS TO AUTHORS

### About Environmental Chemistry for a Sustainable World

Environmental Chemistry for a Sustainable World (ECSW) is a series published by Springer Nature since 2012 and available at <http://www.springer.com/series/11480>. Springer Nature is one of the world's leading global research, educational and professional publishers.

### Pre-submission

Authors should first send a tentative title to Dr. Shivendu Ranjan at [shivenduranjan@gmail.com](mailto:shivenduranjan@gmail.com), who will provide examples of ECSW chapters.

### Submission

***The submission deadline is 1st October 2019***

Submission of articles should be in PDF format, to Dr. Mahesh Ganesapillai at [drmaheshgpillai@gmail.com](mailto:drmaheshgpillai@gmail.com) or to Dr. Shivendu Ranjan at [shivenduranjan@gmail.com](mailto:shivenduranjan@gmail.com). Additionally, a cover letter containing a list of six suggested international reviewers including the title, name, postal address and e-mail address must be attached with the manuscript submitted. Samples of published chapters can be provided upon request.

### Selection

Editors and external peer-reviewers will evaluate manuscripts. The actual rejection rate is 30%. Only manuscripts of very high quality will be accepted.

### Publication

The book will be published in 2020. A pdf of the published chapter will be provided free of charge. Authors will then be offered the option to publish an abridged version in the journal Environmental Chemistry Letters, of 3.1 impact factor.

## **Aims and topics**

For this book, we invite scientists, scholars, academicians and students to write literature reviews on recent developments, methods, trends and breakthrough solutions for water conservation, sustainability and allied fields. The chapter should be of admirable quality and must highlight the current water crisis scenario and thereby, should promote holistic approaches and solutions for overall sustainability.

### **Potential topics include, but are not limited to:**

#### **I. Desalination in Water Treatment**

- Hybrid and novel desalination processes
- Non-conventional energy-based desalination
- Water purification technologies
- Renewable energy powered desalination
- Thermal and membrane desalination of sea water and brackish water
- Reject management

#### **II. Industrial Water Technologies**

- Process water technologies
- Innovative technologies in industrial wastewater treatment,
- Fouling, scaling and corrosion control
- Recycling and reuse of wastewater
- Wastewater processing in the downstream petroleum sector
- Modelling and simulation in the petroleum industry

#### **III Separation Technologies in Waste Water Treatment**

- Adsorption and biosorption
- Membrane separation processes
- Hybrid processes in membrane technology
- Advanced oxidation processes
- Ultrafiltration and nanofiltration membranes
- Ozone water treatment
- Biological water treatment
- Greenhouse gas combating using Wastewater

#### **IV. Water Infrastructure Development**

- Integrated water management
- Water management in agriculture
- Smart water grid, sensor technology for automation and control
- Data analytics in network planning
- Interlinking water bodies
- Storm water management
- Waterless toilets
- Zero water discharge

#### **V. Water and Environment**

- Nutrient recovery from wastewater stream
- Information technology in the water sector
- Operation and maintenance of sanitation
- Water resources for sustainable development
- Water auditing
- Governance, policy and regulations
- Capacity development and environmental awareness

## **Chapters**

*ECSW* publishes *review articles* analyzing the critical points of current knowledge including substantive findings as well as theoretical and methodological contributions to a particular topic. Literature reviews are secondary sources, and as such, report no or very few original work.

## General guidelines

Guidelines to draft a review article are available at <http://fr.slideshare.net/lichtfouse/writea-review>. General advices on writing are available in the book *Scientific Writing for Impact Factor Journals* at [https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=42211](https://www.novapublishers.com/catalog/product_info.php?products_id=42211)

**Manuscripts that do not follow strictly the rules below will be rejected at submission**

## Sections

Article sections should be: Title, Authors, Author postal and e-mail addresses, Abstract, 10 Keywords, Contents (list of sections), 1. Introduction, 2. Section title, 3. Section title, 3.1 Subsection title... X. Conclusion, Acknowledgments, References.

## Abstract

The abstract should be readable by a wide audience, e.g. students, policymakers and the public. The abstract contains two paragraphs: 1) Background/issues: this is the abstract of the Introduction section. This paragraph explains the societal, environmental issues, then the scientific issues, in about 5 sentences. 2) Major advances: this paragraph is the abstract of the article sections (2., 3., 4...). This paragraph of about 5 sentences, starting by e.g. 'Here we review... The major points are:...', lists the major facts, results and trends deduced by literature analysis in article sections. The abstract text must be precise and scientific. The abstract is not a place for introduction, discussion, opinion and vague comments.

## Text

The body text should be written in paragraphs of about 3-8 sentences. Expressions and sentences in parenthesis should be avoided. One message per sentence, one story per paragraph, only.

## Abbreviations

Abbreviations are allowed only for few long expressions and only when there is no place to write the full words, e.g. in some figures, tables and equations. Abbreviations must be explained at first appearance and when deemed necessary for better readability, e.g. at the beginning of sections. All abbreviations appearing in figures and tables must be explained at the end of the corresponding captions.

## Figures

Figures reprinted from already published literature are not allowed due to low quality and copyright issues ; therefore figures from the literature must be redrawn from the original data by the author. Figures must be designed and drawn in colour, high quality and high resolution by the author. Articles must include well-thought figures such as graphs, schemes, tables, and color photos, e.g. one figure per section. Figure captions must include 3-4 sentences explaining the trends and their significance. Figures should indeed be understandable without reading the main text. Abbreviations in figures must be explained at the end of corresponding captions. At the time of article revision, authors must provide all figures in image format (jpg, tif, eps...) in high resolution.

## References

The article should include more than 50 references. References to web addresses are not accepted, unless proven stable. Reference citation in the text: Smith (2006), Smith and Brown (2005), Smith et al. (2004). References should preferably be placed at the end of sentences. References in the list should include the DOI to increase article impact through links. Please note that a major cause of publication delay is due to reference errors, e.g. references in text absent in list, references in list absent in text, references not in the format and errors in numbers (years, volume, pages).

## About the Editors

**Mahesh Ganesapillai** is an Associate Professor in the Department of Chemical Engineering at Vellore Institute of Technology, INDIA. He was granted the esteemed Erasmus Fellowship for his Post-Doctoral research (2014). As an active member of IWA, AIChE and IChE, he is an ardent researcher. His research interests center on the closed-loop fertility cycle for sustainability in sanitation and agricultural production. He has explored the minimization of ammonia volatilization in animal husbandry and agriculture. He was guest speaker at many reputed institutes in India, and is a consultant to companies involved in waste minimization and management. Prof. Ganesapillai is the author of over thirty six manuscripts on resource recovery and management systems. Currently, he is working on an international project on solid waste management in partnership with University of Leeds and University of Manchester with a sanctioned fund worth 200,000 GBP.



**Dr. Aruna Singh** is working as Associate Professor in the Department of Chemical Engineering VIT University, INDIA. After completing her B. Tech in Chemical Engineering from Anna University in the year 1985 she was working as process engineer briefly before doing M. Tech in Food and subsequently PhD in LIT, RTM Nagpur University, India. She has more than 13 years of teaching Experience. She was the Principal Investigator for a Project under Woman Scientist Scheme-A, Govt. of India that was awarded to women. She has about 12 publications in peer reviewed journals (International). She was Guest Speaker at many reputed Institutes in India, and is a consultant to industries involved in food processing, waste minimization and management. She has visited more than nine countries to present her research and delivered invited. She is also a visiting Professor in Caledonian College of Engineering, Muscat, Sultanate of Oman. Her research interests include food processing, microwave pre-treatment and solar cabinet design and drying. She is also involved in biotechnological intervention to treat waste. Professor Aruna is also a Fellow of the American Institute of Chemical Engineers, Indian Institute of Chemical Engineers and Indian Science Congress (ISC)



**Dr. Shivendu Ranjan** has expertise in Micro/Nano(Bio)technology and is currently working as Head, Research & Technology Development at E-Spin Nanotech Pvt. Ltd., SIDBI Center, Indian Institute of Technology, Kanpur, India. He has founded and drafted the concept for the first edition of the “VIT Bio Summit” in 2012, and the same has been continued till date by the university. He has worked in CSIR-CFTRI, Mysuru, India as well as UP Drugs and Pharmaceutical Co. Ltd., India and IIFPT, Thanjavur, MoFPI, Govt of India. At IIFPT, Thanjavur, he was involved in a project funded by a leading pharmaceutical company, Dr. Reddy’s Laboratories and have successfully engineered micro-vehicles for model drug molecules.



His research interests are multidisciplinary and include: Micro/Nanobiotechnology, Nano-toxicology, Environmental Nanotechnology, Nanomedicine, and Nanoemulsions. . He is the associate editor of Environmental Chemistry Letters – a Springer journal of 3.59 impact factor – and an editorial board member in Biotechnology and Biotechnological Equipment (Taylor and Francis). He is serving as executive editor of a journal in iMed Press, USA, and also serving as editorial board member and referee for reputed international peer-reviewed journals. He has published six edited books and one authored book in Springer, Switzerland and two with CRC Press, USA. He has recently finished his contract of three volumes of book in Elsevier, two volumes in CRC Press and one with Wiley and RSC (UK). He has published many scientific articles in international peer-reviewed journals and has authored many book chapters as well as review articles. He has bagged several awards and recognitions from different national as well as international organizations.

More details at his website: <https://sites.google.com/view/shivenduranjan/>

**Dr. Nandita Dasgupta** has vast working experience in Micro/Nanoscience and is currently working at LV Prasad Eye Institute, Bhubaneswar, India. She has exposure of working at university, research institutes and industries including VIT University, Vellore, Tamil Nadu, India; CSIR-Central Food Technological Research Institute, Mysore, India,; and Uttar Pradesh Drugs and Pharmaceutical Co. Ltd., Lucknow, India and Indian Institute of Food Processing Technology (IIFPT), Thanjavur, Ministry of Food Processing Industries, Government of India. At IIFPT, Thanjavur, she was involved in a project funded by a leading pharmaceutical company, Dr. Reddy’s Laboratories and have successfully engineered micro-vehicles for model drug molecules. Her areas of interest include Micro/Nanomaterial fabrication and its applications in various fields – medicine, food, environment, agriculture biomedical.



She has published six edited books and one authored book in Springer, Switzerland and two with CRC Press, USA. She has finished a contract for three book volumes in Elsevier, one volume with Wiley, two book volumes in CRC Press and one volume in RSC (UK). She has authored many chapters and also published many scientific articles in international peer-reviewed journals. She has received the Certificate for “Outstanding Contribution” in Reviewing from Elsevier, Netherlands. She has also been nominated for advisory panel for Elsevier Inc., Netherlands. She is the associate editor of Environmental Chemistry Letters – a Springer journal of 3.59 impact factor – and also serving as editorial board member and referee for reputed international peer-reviewed journals. She has received several awards and recognitions from different national and international organizations.

Google Scholar:

<https://scholar.google.co.in/citations?user=u4p3mNkAAAAJ>

**Dr. Eric Lichtfouse**, 58, is a soil biogeochemist studying carbon sequestration at the European Centre for Research and Education in Environmental Geosciences (CEREGE), Aix en Provence, France. He has invented  $^{13}\text{C}$ -dating, a method allowing to measure the relative age of temporal pools of a single molecular substance in a complex media. He is Chief Editor and founder of journal Environmental Chemistry Letters, the book series Sustainable Agriculture Reviews and Environmental Chemistry for a Sustainable World. He is lecturing scientific writing and communication in universities worldwide. He has published the book Scientific Writing for Impact Factor Journal, including the micro-article, a new tool to identify the novelty of experimental results.

<https://cv.archives-ouvertes.fr/eric-lichtfouse>

