

PUBLICATION

[1] Ranjan P., Kumar, P., Chakraborty, T., Sheoran, M., & Sharma S. (2019). A study of structure and electronic properties of chalcopyrites semiconductor invoking Density Functional Theory. *Materials Chemistry and Physics (Elsevier)*, vol. 241, pp. 122346.

[2] Sheoran, M., Sharma, S., & Kumar, P. (2020, March). A compatible standard policy measure to tackle solar photovoltaic waste in Indian scenario. In *Journal of Physics: Conference Series* (Vol. 1504, No. 1, p. 012012). IOP Publishing.

[3] Sheoran, M., Sharma, S., & Kumar, P. (2021). Life Cycle Reassessment Strategy for Existing Bulk and Thin-Film Photovoltaic Materials in Indian Context. In *Innovations in Electrical and Electronic Engineering* (pp. 181-189). Springer, Singapore.

[4] Sheoran M., Kumar P., & Sharma S. (2020), End life cycle recycling policy framework for commercially available solar photovoltaic modules and their environmental impacts, *In Mechatronic Systems Design and Solid Materials, Apple Academic Press*, eBook ISBN 9781003045748.

[5] Sheoran, M., Sharma, S., & Kumar, P. (2020). Life Cycle Environmental Impact Assessment of Crystalline Silicon Solar Panel. *Test Engineering and Management*, ISSN: 0193-4120 (pp 475-480).

[6] Sheoran, M., Kumar, P., & Sharma, S. (2021). A novel policy to tackle life span reassessment of existing bulk and thin-film photovoltaic materials. *International Journal of Environment and Sustainable Development*, 20 (3-4), 316-330.

[7] Sheoran, M., Kumar, P., Sharma, S., Soni, A., & Sahariya, J. (2021). Photovoltaic waste assessment in India and its environmental impact. *Journal of Physics: Conference Series*, 1849(1), 012003. <https://doi.org/10.1088/1742-6596/1849/1/012003>.

[8] Sheoran, M., Kumar, P., Sharma, S., & Bukya, M. (2022). Current situation analysis of solar PV waste management in India. *Materials Today: Proceedings*, 58, 773-782.

[9] Kumar, P., Sheoran, M., Agrawal, A., Soni, A., & Sahariya, J. End Life Cycle Cost-Benefit Analysis of 160 kW Grid-Integrated Solar Power Plant: BSDU Jaipur Campus. In *Energy Conversion and Green Energy Storage* (pp. 43-56). CRC Press.

PAPER UNDER PROCESS:

Book Chapter

1. **Title:** ‘Applications of Recycled Solar Photovoltaic Modules and their Environmental Impact Analysis’
Authors: M. Sheoran, P. Kumar, S. Sharma
Journal: Apple Press (Accepted for Publication).

Research Paper

1. **Title:** After Life Cost Modelling of 160 KW Grid Integrated Solar Photovoltaic Plant: BSDU Jaipur
Authors: M. Sheoran, P. Kumar, S. Sharma, M. Bukya,
Journal: LNEE Series, Springer Nature (Accepted for Publication).

PAPER PRESENTED

- 1. Conference:** ICONRER 2019
Date: 7-9 November 2019
Title: A Novel Policy to Tackle Life Span Reassessment of Existing Bulk and Thin Film Photovoltaic Materials
Authors: Manisha Sheoran, Pancham Kumar, Susheela Sharma
- 2. Conference:** NCRAPS 2019
Date: 19-20 December 2019
Title: A Compatible Standard Policy Measure to Tackle Solar Photovoltaic Waste in Indian Scenario
Authors: Manisha Sheoran, Pancham Kumar, Susheela Sharma
- 3. Conference:** ICDGS 2020
Date: 7-8 February 2020
Title: Photovoltaic Waste Assessment in India and its Environmental Impact
Authors: Manisha Sheoran, Pancham Kumar, Susheela Sharma
- 4. Conference:** International Conference on Electrical and Electronics Engineering (ICEEE 2020)
Date: 28-29 February 2020
Title: Life Cycle Reassessment Strategy for Existing Bulk and Thin Film Photovoltaic Materials in Indian Context
Authors: Manisha Sheoran, Pancham Kumar, Susheela Sharma
- 5. Conference:** ETMDR 2020
Date: 23-25 July 2020
Title: Life Cycle Environmental Impact Assessment of Crystalline Silicon Solar Panel
Authors: Manisha Sheoran, Pancham Kumar, Susheela Sharma
- 6. Conference:** NCRAPS 2020
Date: 19-20 December 2020

Title: Cost benefit modelling of 160 kW Grid Tied Solar Photovoltaic Plant at BSDU Jaipur

Authors: Manisha Sheoran, Pancham Kumar, Susheela Sharma

7. Conference: NCRAPS 2020

Date: 19-20 December 2020

Title: Photovoltaic Waste Assessment in India and its Environmental Impact

Authors: Manisha Sheoran, Pancham Kumar, Susheela Sharma

8. Conference: FLEXEV 2021

Date: 18-19 March 2021

Title: After Life Cost Modelling of 160 kW Grid Integrated Solar Photovoltaic Plant: BSDU Jaipur

Authors: Manisha Sheoran, Pancham Kumar, Susheela Sharma, Mahipal Bukya

WORKSHOPS ATTENDED

1. **Topic:** TEQIEP –III Sponsored Virtual Workshop on “Renewable Energy & Sustainable Development” (01- 05 March 2021)

Organizer: Research and consultancy section NIT Uttarakhand

WEBINAR ATTENDED

1. **Topic:** How to avoid Plagiarism Using –URKUND as a Plagiarism Tool

Date: 2 May, 2020

Organizer: By e-Galactic in association with Ranganathan Society of Social Welfare and Library Development.

2. **Topic:** How to Write an Effective Research Paper

Date: 9 June 2020

Organizer: By Dr. Kumkum Garg from BSDU Jaipur

3. **Topic:** Online National Seminar on Recent Trends in Solar Power (RTSP-2020)

Date: 4 August, 2020

Organizer: Raj Kumar Goel Institute of Technology, Ghaziabad jointly with BSDU Jaipur.