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Academic Qualifications: M.Sc, Ph.D (I.I.T Delhi)			
Teaching Experience (Year)	08 years	Research Experience (Year)	06 years
Area of Research	Renewable Energy Systems and Nanotechnology		
Publications	<u><i>Journal publications</i></u>		
	(a) <u><i>International journal publications</i></u>		
	1. Sahota, L., Tiwari, G.N., (2016), Effect of Al ₂ O ₃ nanoparticles on the performance of passive double slope solar still, Solar Energy 130, 260–272. (Impact factor: 7.18)		
	2. Sahota, L., Tiwari, G.N., (2016), Effect of nanofluids on the performance of passive double slope solar still: A comparative study using characteristic curve, Desalination 388, 9–21. (Impact factor: 11.21)		
	3. Tiwari, G.N., Sahota, L., (2017), Review on the energy and economic efficiencies of passive and active solar distillation systems, Desalination 401, 151–179. (Impact factor: 11.21)		
	4. Sahota, L., Shyam, Tiwari, G.N., (2017), Analytical characteristic equation of nanofluid loaded active double slope solar still coupled with helically coiled heat exchanger, Energy Conversion and Management 135, 308-326. (Impact factor: 11.53)		
	5. Sahota, L., Tiwari, G.N., (2017), Energy matrices, enviroeconomic and exergoeconomic analysis of passive double slope solar still with water based nanofluids, Desalination 409 (2017) 66–79. (Impact factor: 11.21)		
	6. Sahota, L., Tiwari, G.N., (2017), Review on series connected photovoltaic thermal (PVT) systems: analytical and experimental studies, Solar Energy 150 (2017) 96–127. (Impact factor: 7.18)		
	7. Sahota, L., Tiwari, G.N., (2017), Exergoeconomic and enviroeconomic analysis of hybrid double slope solar still loaded with nanofluids, Energy Conversion and Management 148 (2017) 413–430. (Impact factor: 11.53).		
	8. Kasaeian A., Moaleman, A., Aramesh, M., Mahian, O., Sahota, L., Tiwari, G.N., (2017), Simulation of the performance of a solar concentrating photovoltaic-thermal collector, applied in a combined cooling heating and power generation system, Energy Conversion and Management , 160 (2017) 191–208. (Impact factor: 11.53)		
	9. Sahota, L., V.S. Gupta, Tiwari, G.N., (2018), Analytical study of thermo-physical performance of nanofluid loaded hybrid double slope solar still, Journal of Heat Transfer 112404, 140 (2018) , (Impact factor: 5.58). ISSN no. 00221481.		

10. **L. Sahota**, V. Saini, V.K. Jain, G.N. Tiwari (2019), Performance and cost analysis of a modified built-in-passive condenser and semitransparent photovoltaic module integrated passive solar distillation system, **Journal of Energy Storage** ,100809, 24 (2019). ISBN number 2352-152X (**Impact factor: 6.58**).
11. Swati Arora, Harendra Pal Singh, **Lovedeep Sahota**, Manoj K. Arora, Ritik Arya, Sparsh Singh, Aayush Jain, Arvind Singh (2020), Performance and cost analysis of photovoltaic thermal (PVT)-compound parabolic concentrator (CPC) collector integrated solar still using CNT-water based nanofluids. **Desalination** 495, 114595 (**Impact factor: 11.21**)
12. Swati Arora, Harendra Pal Singh, **Lovedeep Sahota***, Manoj Kumar Arora, Sparsh Singh, Ritik Arya, Abhinav Prashar, (2022), Energy metrics, enviro-economic and characteristic equation-based performance analysis of photovoltaic thermal compound parabolic concentrator (PVT -CPC) coupled solar still equipped with heat exchanger using SWCNTs and MWCNTs-water nanofluids, (**Accepted: 222338459**) **International Journal of Ambient Energy**, (**Impact factor: 2.4**)

(b) International/national conference publications

1. **Sahota, L.**, Tiwari, G.N., (2016), Effect of Al₂O₃, TiO₂, and CuO- water based nanofluids on heat transfer coefficients of passive double slope solar still, International Journal of energy environment and economics, Nova Science Publishers, Inc. Vol. 23, ISSN: 1054-853X.
2. **Sahota, L.**, Tiwari, G.N., (2016), Productivity enhancement of passive double slope solar still using Al₂O₃ and TiO₂- water based nanofluids, Poster presented in International Energy Conference 2016 (June 14-15), London, U.K.
3. **Sahota, L.**, Tiwari, G.N., Rajput, P., Performance of passive double slope solar still with different nanofluids, Poster presented in Open House, April 23, 2016, I.I.T Delhi.
4. **Sahota, L.**, Tiwari, G.N., Effect of Al₂O₃-water based nanofluid on the thermo-physical characteristics of active double slope solar still coupled with helically coiled heat exchanger, Renewable Energy Sources for Sustainable Climate, National Conference SOLARIS, Feb 07-09, 2017, I.I.T BHU, Varanasi, India.
5. **Sahota, L.**, Arora, L., Singh, H.P., Sahoo, G., (2020), “Thermo-physical characteristics of passive double slope solar still loaded with MWCNTs and Al₂O₃-water based nanofluid, Materials Today: Proceedings, Elsevier publisher, ISSN: 2214-7853.
6. Harendra Pal Singh, Swati Arora, **Lovedeep Sahota**, Manoj Kumar Arora, Aayush Jain, Arvind Singh, (2022), Evaluation of the performance parameters of a PVT system: Case study of composite environmental conditions for different Indian cities. Materials Today: Proceedings, Elsevier publisher, ISSN: 2214-7853.
7. Supreeti Das, **Lovedeep Sahota**, (2022). Heat transfer and cost analysis of circular heating source based tubular rods loaded with thermal oil-MWCNT nanofluid. Materials Today: Proceedings, Elsevier publisher, ISSN: 2214-7853.

(c) Books

1. Tiwari, G.N., **Sahota, L.**, (2017), Advanced Solar Distillation Systems: Thermal Modeling, Basic Principle and Its Applications. Springer (Nature) publications (ISBN 978-981-10-4671-1).

(d) Book chapters

1. Tiwari, G.N., **Sahota, L.**, (2017), “Exergy and Techno-Economic Analysis of Solar Thermal Desalination” in Sustainable Desalination Handbook: Process Design and Implementation Strategies, Elsevier publisher, ISBN- 9780128152447.

(e) Projects

1. Co-PI of Faculty Research Program (FRP) Grant under Institute of Eminence, University of Delhi, Completed in **2021-2022**. (Ref. No./IoE/2021/12/FRP)