Patents filed/Published/Granted

S. No.	Title of Invention	Inventors	Status
[1]	A PHOTOVOLTAIC INTEGRATED	(1) AJAYA BHARTI	Publication Date :
	TRIPLE SLOPE SOLAR STILL	(2) RAHUL DEV	24/11/2023
		(3) RAHUL PATEL	
[2]	A PHOTOVOLTAIC INTEGRATED	(1) AJAYA BHARTI	Publication Date :
	TRIPLE SLOPE MULTI-WICK SOLAR	(2) RAHUL DEV	24/11/2023
	STILL	(3) RAHUL PATEL	
[3]	A PHASE CHANGE MATERIAL AND	(1) AJAYA BHARTI	Publication Date :
	RADIANT HEATING BASED SOLAR	(2) RAHUL DEV	24/11/2023
	COOKER	(3) LUKALAPU RAMU	
		(4) AMAN KUMAR	
		AGRAHARI	
[4]	Shaking Solar Cooker	1) Rahul Dev	Publication Date :
		2) Vijay Kumar	Accepted
		3) AJAYA BHARTI	
		4) Jitendra	
		Narayan	
		Gangwar	
		5) Supriya Yadav	
		6) Rahul Sharma	

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- [1] Anuj Jain, Ravi Kant Baranwal, **Ajaya Bharti**, Z. Vakil, and C. S. Prajapati, "Study of Zn-Cu Ferrite Nanoparticles for LPG Sensing", The Scientific World Journal, 2013, Article ID 790359, pp. 1-7, https://doi.org/10.1155/2013/790359, 26/05/2013, 20/06/2013, (**SCI, SCOPUS**)
- [2] Tanveer Alam, M. K. Gupta, R. K. Srivastava, Harinder Singh, **Ajaya Bharti**, "Analysis of Mechanical Properties of Sisal Fibre Reinforced Polymer Composite", International Journal of Engineering Research & Management Technology, 2014, 1, pp.77-81, May-2014
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- [6] Manoj Kumar Gupta, **Ajaya Bharti**, Binayaka Nahak, Niraj Choudhary, Anil Kumar, "Thermal Characteristics of Sisal Composites Containing Charcoal Particles", Materials Today: proceedings 18:3174-3181, DOI:10.1016/j.matpr.2019.07.193, 26 November 2019, (**SCOPUS**)
- [7] Naveen Kumar, **Ajaya Bharti**, Kuldeep K.Saxena, "A Re-Analysis of Effect of Various Process Parameters on The Mechanical Properties of Mg Based MMCs Fabricated By Powder Metallurgy Technique", Materials Today: proceedings, 2020, 9 March 2020, (**SCOPUS**)
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- [11] Vikash Chaudhary, **Ajaya Bharti**, Syed Mohd Azam, Naveen Kumar, Kuldeep K. Saxena,"A Reinvestigation: Effect of TIG Welding Parameters on Microstructure, Mechanical, Corrosion Properties of Welded Joints", Materials Today: Proceedings, 2021, doi.org/10.1016/j.matpr.2021.01.007, 16 February 2021, (**SCOPUS**)
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Research Publications in International Conferences:

Research Publications in International Conferences:				
Sl. No.	Year	Conference		
1.	July 2007	A. Bharti , I. K. Bhat, R. Kumar "Comparative Study on Wear of Different Commercially Available Aluminium Alloys in Presence of Different Lubricants" Proceeding of "11 th International conference on Metrology & Properties of Engineering Surfaces (2007)" organized at University of Huddersfield, U.K. during 17-20 July, 2007		
2.	Aug 2011	Sudhendu N. Tiwari, Artika Rao, Ajaya Bharti, K. M. Gupta "Effect of Torque Tightening at low and high value of stress amplitude on the fatigue strength of Al 2024-T4 double lap bolted joints", Proceeding of "International conference on Advance Materials (ICAM)-2011" page 79, organized by BTL Institute of Technology, Bangalore, India & University of Delaware, USA at BTLIT Bangalore, India during 19-20 August, 2011.		
3.	Aug 2011	Artika Rao, Sudhendu N. Tiwari, Ajaya Bharti , K. M. Gupta "Effect of artificial aging on fretting fatigue behaviour of 2024 Aluminium alloy" Proceeding of "International conference on Advance Materials (ICAM 2011)", page 80, organized by BTL Institute of Technology, Bangalore, India & University of Delaware, USA at BTLIT Bangalore, India during 19-20 August, 2011.		
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- Dec 2017
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 2017

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 2017

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 Academy Chandrayangutta, Hyderabad, India
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 2018

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- Feb
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- Naveen Kumar, Ajaya Bharti, Kuldeep K. Saxena, "Effect of Ti Reinforcement on the Physical and Mechanical Properties of AZ91/Ti Composites" In the proceeding of International Conference on Sustainable Engineering (ICSE-2021)" to be held from 26 27 February, 2021organized at Department of Mechanical Engineering, Engineering College Bikaner, India
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- 30. Oct Devendra Prasad, G Naga Srinivaslu, Ajaya Bharti, Naveen Kumar, Syed Mohd Azam, Kuldeep K. Saxena "Experimental Analysis on Flow Field Pattern of PEM Fuel Cells" In the proceeding of "International conference on Applied Research and Engineering" organized at Mechanical Engineering Department, FEBE, Cape Peninsula University of Technology, South Africa during 26-28 November, 2021.
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- 32. March
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 Foams and Composites Fabricated by Powder Metallurgy using Salt (NaCl)" in the
 proceeding of 'CHEM-CONFLUX22', International Conference on Technological Interventions
 for Sustainability jointly organized by Department of Chemical Engineering, MNNIT,
 Allahabad and Universiti Sains Malaysia during April 14 -16, 2022 (Accepted on 31 March,
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- 33. April 2022 Bhupendra Koshti, Rahul Dev, Ajaya Bharti, Audhesh Narayan and Priyank Srivastava "Hybrid Solar Cooker Befitting Society and Environment: A review" in the proceeding of International Conference on Technological Interventions for Sustainability (CHEM-CONFLUX22), jointly organized by Department of Chemical Engineering, MNNIT, Allahabad and Universiti Sains Malaysia during April 14 -16, 2022 (Accepted on 01 April, 2022)
- 34. April
 2022
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 NEXANCE-The Next Generation Alliance for Scientific and Professional Advancements during
 May 6-7, 2022. doi: https://doi.org/10.13052/rp-978-87-7022-828-2
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 2022 Syed Mohd Azam, Ajaya Bharti, Naveen Kumar, Rahul Dev "A Historical Review on the Efficiency of Perovskite Solar Cells" in the proceeding of International Conference on Advancements in Interdisciplinary Research (AIR2022), organized by Motilal Nehru National Institute of Technology Allahabad, Prayagraj(U.P.) India in association with NEXANCE-The Next Generation Alliance for Scientific and Professional Advancements during May 6 -7, 2022. Proceedings-AIR2022, River Publishers (ISSN: 2794-2333), doi: https://doi.org/10.13052/rp-978-87-7022-828-2
- 36. April
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- 37. April Sarvesh Mishra, Ajaya Bharti, Naveen Kumar, Ashish Mishra, Rahul Dev, and Hariom Tripathi, "Reinvestigation of Microstructural, Mechanical and Wear Properties of FSPed Magnesium Matrix Surface Composites", in the proceeding of International Conference on Advancements in Interdisciplinary Research (AIR2022), organized by Motilal Nehru National Institute of Technology Allahabad, Prayagraj(U.P.) India in association with NEXANCE-The Next Generation Alliance for Scientific and Professional Advancements during May 6 -7, 2022.
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