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Department: Mechanical Engineering

No. of Publication :24

Journal Publication:

Type of	DOI No.	Name of the	Name of	ISSN
Journal		Article	the Author	No.

Book Chapter Publication:

DOI No.	Name of the Article	Name of the Author	ISBN No.	Year
	Generation of	Abhishek	978-81-	2023
	electricity through	Poddar	964878-1-2	
	speed breaker			
	Advanced	Abhishek	978-81-	2023
	materials analysis	Poddar	964878-0-5	
	through x-ray Diffraction			
	technique			
https://doi.org/10.62906/bs.book.209	Dynamic	Abhishek	978-93-6233-	2023
nepsi// doi.org/ 10.02/00/05.000k.20/	Revelations:	Poddar	705-4	2023
	Advanced Modal			
	Analysis of a			
	Cantilever Beam			
1 //1 //0. <000 1 1.000</td <td>using ANSYS</td> <td></td> <td>070 02 (222</td> <td>2022</td>	using ANSYS		070 02 (222	2022
https://doi.org/10.62906/bs.book.209	Chilling Innovations:	Abhishek Poddar	978-93-6233- 705-4	2023
	Thermoelectric	Poddar	703-4	
	Refrigeration for			
	Sustainable			
	Cooling			
https://doi.org/10.62906/bs.book.209	Comprehensive	Abhishek	978-93-6233-	2023
	Review:	Poddar	705-4	
	Innovative			
	Hydroelectric Solutions for			
	Sustainable Power			
	Generation			
https://doi.org/10.62906/bs.book.209	Understanding	Abhishek	978-93-6233-	2023
	Skin Friction	Poddar	705-4	
	Dynamics:			
	Numerical			
	Simulation and			
	Analysis of Skin Friction			
	Coefficient			
	Coefficient			

	Distribustion in			l
	Distribution in			
	Cyclone			
	Separators			
https://doi.org/10.62906/bs.book.209	Cyclonic Velocity	Abhishek	978-93-6233-	2023
	Dynamics:	Poddar	705-4	
	Advanced			
	Numerical			
	Simulation and			
	Analysis of			
	Velocity			
	Distribution in			
	Cyclone Separator			
https://doi.org/10.62906/bs.book.211	Understanding	Abhishek	978-93-6233-	2023
	Skin Friction	Poddar	761-0	
	Dynamics:			
	Numerical			
	Simulation and			
	Analysis of Skin			
	Friction			
	Coefficient			
	Distribution in			
	Cyclone			
	Separators			
https://doi.org/10.62906/bs.book.211	Comprehensive	Abhishek	978-93-6233-	2023
integration grant	Review:	Poddar	761-0	2028
	Innovative		, 01 0	
	Hydroelectric			
	Solutions for			
	Sustainable Power			
	Generation			
https://doi.org/10.62906/bs.book.211	Cyclonic Velocity	Abhishek	978-93-6233-	2023
10.02700/05.000K.211	Dynamics:	Poddar	761-0	2023
	Advanced	1 oddai	701-0	
	Numerical			
	Simulation and			
	Analysis of			
	Velocity			
	Distribution in			
	Cyclone			
	Separators			

Other Publication Details (if any)

Patent Publication:

- "Autonomous Robo-Soccer Competition System", Abhishek Poddar, Soumak Bose, Soumya Ghosh, Bikas Panja, Abhishek Dhar, Saurabh Adhikari, Subharnil Som, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431060663A]
- ii. "Harnessing Hydro Energy on a Small Scale: Portable Mini Hydropower Plants", Abhishek Poddar, Soumya Ghosh, Arijit Mukherjee, Suman Kumar Ghosh, Abhishek Dhar, Saurabh Adhikari, Subharnil Som, Intellectual Property India, Office of the Controller General of

Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431060513A]

Conference Paper:

iii.

- i) Abhishek Poddar, Arijit Mukherjee, Suman Kumar Ghosh, Soumya Ghosh, Samrat Biswas "Numerical analysis on Casson nanofluid over a surface with nonlinear thermal radiation and binary chemical reaction" International Conference on Integrative Science and Engineering (ICISE) 2023.
- ii) Abhishek Poddar, Suman Kumar Ghosh, ArijitMukherjee, Samrat Biswas, Soumya Ghosh, "Effects of Ion-Slip and Hall Currents on MHD Nanofluid Flow with Thermal Diffusion Using Spectral Quasi-Linearization Method" International Conference on Integrative Science and Engineering (ICISE) 2023.
- iii) Mr. Abhishek Poddar "Explorative Study of Evolution of Vorticity Distribution in the Flow Field around Savonious Turbine" Proceedings of the International Conference on Integrative Science and Engineering (ICISE-2023) Swami Vivekananda University Barrackpore West Bengal India. September 28-30 2023.
- iv) Mr. Abhishek Poddar "Numerical analysis on Casson nanofluid over a surface with nonlinear thermal radiation and binary chemical reaction" Proceedings of the International Conference on Integrative Science and Engineering (ICISE-2023) Swami Vivekananda University Barrackpore West Bengal India. September 28-30 2023.
- v) Mr. Abhishek Poddar "Effects Of Ion-Slip And Hall Currents On Mhd Nanofluid Flow With Thermal Diffusion Using Spectral Quasi-Linearization Method" Proceedings of the International Conference on Integrative Science and Engineering (ICISE-2023) Swami Vivekananda University Barrackpore West Bengal India. September 28-30 2023.
- vi) Mr. Abhishek Poddar "A comprehensive review of functionally graded material manufacturing methods applications and challenges." Proceedings of the International Conference on Integrative Science and Engineering (ICISE-2023) Swami Vivekananda University Barrackpore West Bengal India. September 28-30 2023.
- vii) Mr. Abhishek Poddar "Qualitative study of fluid handling equipment utilizing ecofriendly human-powered rotary device: A novel design approach" Proceedings of the International Conference on Integrative Science and Engineering (ICISE-2023) Swami Vivekananda University Barrackpore West Bengal India. September 28-30 2023.
- viii) Abhishek Poddar, Samrat Biswas, Sayan Paul, Suman Kumar Ghosh, Soumya Ghosh, Soumak Bose "Decoding Strain Rate Distribution on a Wind Turbine Blade for Performance Optimization" Proceedings of the International Conference on Engineering Design and Computing (ICEDC-2024) Swami Vivekananda University Barrackpore West Bengal India. February 22-24 2024.
- ix) Abhishek Poddar, Samrat Biswas, Sayan Paul, Suman Kumar Ghosh, Soumya Ghosh, Soumak Bose "The Whirlwind's Whisper: Unveiling the Distribution of Velocity Circumferential in Flow and its Dance with Flow around HAWT Blade" Proceedings of the International Conference on Engineering Design and Computing (ICEDC-2024) Swami Vivekananda University Barrackpore West Bengal India. February 22-24 2024.
- x) Abhishek Poddar, Samrat Biswas, Sayan Paul, Suman Kumar Ghosh, Soumya Ghosh, Soumak Bose "Explorative Study of Velocity Curl Distribution at Different Section along Span-Wise Location of HAWT Blade" Proceedings of the International Conference on Engineering Design and Computing (ICEDC-2024) Swami Vivekananda University Barrackpore West Bengal India. February 22-24 2024.

- xi) Abhishek Poddar, Samrat Biswas, Sayan Paul, Suman Kumar Ghosh, Soumya Ghosh, Soumak Bose "Exploration of Distribution of Velocity Divergence at Different Span-wise location along Horizontal Axis Wind Turbine Blade" Proceedings of the International Conference on Engineering Design and Computing (ICEDC-2024) Swami Vivekananda University Barrackpore West Bengal India. February 22-24 2024.
- xii) Abhishek Poddar, Samrat Biswas, Sayan Paul, Suman Kumar Ghosh, Soumya Ghosh, Soumak Bose "Exploration of Velocity Field Distribution in the Flow Field around Horizontal Axis Wind Turbine" Proceedings of the International Conference on Engineering Design and Computing (ICEDC-2024) Swami Vivekananda University Barrackpore West Bengal India. February 22-24 2024.
- xiii) Arijit Mukherjee, Abhishek Poddar, Sayan Paul, Soumya Ghosh, Suman Kumar Ghosh, Samrat Biswas "Numerical analysis on Casson nanofluid over a surface with nonlinear thermal radiation and binary chemical reaction" Proceedings of the International Conference on Engineering Design and Computing (ICEDC-2024) Swami Vivekananda University Barrackpore West Bengal India. February 22-24 2024.
- xiv) Arijit Mukherjee, Abhishek Poddar, Sayan Paul, Soumya Ghosh, Suman Kumar Ghosh, Soumak Bose "Qualitative study of fluid handling equipment utilizing eco-friendly human-powered rotary device: A novel design approach" Proceedings of the International Conference on Engineering Design and Computing (ICEDC-2024) Swami Vivekananda University Barrackpore West Bengal India. February 22-24 2024.
- Arijit Mukherjee, Dipsankar Chatterjee, Abhishek Poddar, Suman Kumar Ghosh, Soumak Bose "Flex Fuel Technology: Pioneering the Future of the Indian Automobile Industry An Overview" Proceedings of the International Conference on Engineering Design and Computing (ICEDC-2024) Swami Vivekananda University Barrackpore West Bengal India. February 22-24 2024.
- xvi) Abhishek Poddar, Sayan Paul, Suman Kumar Ghosh, Arijit Mukherjee, Soumya Ghosh, Samrat Biswas "Dynamic Revelations: Advanced Modal Analysis of a Cantilever Beam Using ANSYS" International Conference on Integrative Science and Engineering (ICISE-2024) Swami Vivekananda University Barrackpore West Bengal India. June 20-21 2024.
- xvii) Abhishek Poddar, Arijit Mukherjee, Ranjan Kumar, Ravi Nigam, Md Ershad, Suman Kumar Ghosh "Chilling Innovations: Thermoelectric Refrigeration for Sustainable Cooling" International Conference on Integrative Science and Engineering (ICISE-2024) Swami Vivekananda University Barrackpore West Bengal India. June 20-21 2024.
- xviii) Abhishek Poddar, Sayan Paul, Suman Kumar Ghosh, Arijit Mukherjee, Soumya Ghosh, Samrat Biswas "Understanding Skin Friction Dynamics: Numerical Simulation and Analysis of Skin Friction Coefficient Distribution in Cyclone Separators" International Conference on Integrative Science and Engineering (ICISE-2024) Swami Vivekananda University Barrackpore West Bengal India. June 20-21 2024.
- Abhishek Poddar, Sayan Paul, Suman Kumar Ghosh, Arijit Mukherjee, Soumya Ghosh, Samrat Biswas "Cyclonic Velocity Dynamics: Advanced Numerical Simulation and Analysis of Velocity Distribution in Cyclone Separators" International Conference on Integrative Science and Engineering (ICISE-2024) Swami Vivekananda University Barrackpore West Bengal India. June 20-21 2024.
- Abhishek Poddar, Soumitra Roy, Suman Kumar Ghosh, Arijit Mukherjee, Soumya Ghosh, Anupam Mallick "Comprehensive review: Innovative Hydroelectric Solutions for Sustainable Power Generation" International Conference on Integrative Science and Engineering (ICISE-2024) Swami Vivekananda University Barrackpore West Bengal India. June 20-21 2024.