

**Research Publications Details (International and National)
2024-25, 2023-24, 2022-23, 2021-22 (Academic Years)**

S.NO	Name of Faculty Member	Title of the Research Paper	Year of Publication	Name of the Journal	ISSN No.	National / International
1	Dr. Vidushi Karol	Improved energy storage and electrocaloric properties in Sm ³⁺ and Fe ³⁺ substituted BCZT ceramics	2024	Journal of Electronic Materials	0361-5235	International
2	Dr. Anita Manhas	Annealing-Induced Changes in Sol-Gel Synthesized Nano-CoFe ₂ O ₄ : A Study of Structure, Morphology and Magnetism	2024	Physics Letters A	0375 -9601	International
3	Dr. Suvidha Pandey	Synthesis of novel isoxazole/dihydroisoxazole tethered β -lactam hybrids via regioselective 1,3-dipolar cycloaddition methodology on 3-phenylthio- β -lactams	2024	Journal of Sulfur Chemistry	950-971	International
4	Dr. Sham Singh	Analysis of solar plasma parameters during intense geomagnetic storm (SYM/H<-100) in 2023	2024	Radiation Effects and Defects in Solids	1029-4953	International
5	Dr. Sham Singh	Solar activity and cosmic ray intensity variation with geomagnetic activity during 1996-2022	2024	Ukr. J. Phys.	2071-0194	International
6	Dr. Sham Singh	Correlation the interplanetary characteristics and the occurrence of geomagnetic large storms	2024	Scope	1177-5653	International
7	Dr. Ayushi Jain	Toxic implication of nanoparticles: a review of factors, mechanism, exposure and control strategies.	2024	International Journal of Environmental Science and Technology	1735-1472	International
8	Dr. Manpreet Kaur	Porphyrin Metal-organic Framework Sensors for Chemical and Biological Sensing	2024	Journal of Fluorescence	1053-0509	International
9	Dr. Manpreet Kaur	Hazardous 2,4,6-trinitrophenol (TNP) detection in water by amine and azine functionalized metal-organic framework	2024	Journal of Fluorescence	1053-0509	International
10	Satish Kumar	Formability analysis of Steel and Copper based alloy sheet by using Erichsen Cupping Test Machine	2024	Journal of Polymer and Composites	2321-2810	International
11	Dr. Preeti Mehta	Hydrogels: An overview of its classifications, Properties and Applications	2023	Journal of the Mechanical Behavior of Biomedical Materials	1751-6161	International
12	Dr. Rajat Syal	Investigation of energy storage properties in lead-free BZT- 40BCT relaxor ceramic 4t	2023	Materials Today: Proceedings	2214-7853	International
13	Dr. Rajat Syal	Optimization of sintering temperature for dielectric studies of La doped BZT ceramics	2023	Materials Today: Proceedings	2214-7853	International
14	Dr. Rajat Syal	Chemical engineering at morphotropic phase boundary: Interplay with thermally stabilized ultra-high energy storage and electrocaloric response	2023	Solid State Sciences	1873-3085	International
15	Dr. Rajat Syal	Observation of recoverable energy response in Na _{0.5} Bi _{0.5} TiO ₃ -Ba _{0.85} Sr _{0.15} Zr _{0.1} Ti _{0.9} O ₃ -Ni _{0.7} Zn _{0.3} Fe ₂ O ₄ lead-free composites for energy storage applications	2023	Journal of Materials Science: Materials in Electronics	0957-4522	International
16	Dr. Harsimranjot Kaur	Tb-doped SnO ₂ Nanostructures for Fluorescence sensing and dye degradation applications	2023	Journal of Material Science: Materials in Electronics	0957-4522	International
17	Dr. Meena Devi	Hydrogels: An overview of its classifications, Properties and Applications	2023	Journal of the Mechanical Behavior of Biomedical Materials	1751-6161	International
18	Inderjot kaur	Scrutinising the Debatement of a Female Body through Marital Violence and Digital Media in Meena Kandasamy's When I Hit You	2023	Literature & Aesthetics	2200-0437	International
19	Monika Sharma	A Review on the synthesis, medicinal and biological properties of vanillin and its derivatives	2023	GIS Science JOURNAL	1869-9391	International
20	Monika Sharma	Hydrogels: An overview of its classifications, Properties and Applications	2023	Journal of the Mechanical Behavior of Biomedical Materials	1751-6161	International

21	Monika Sharma	Eu-Gd@BiPO4 Nano-composite: A potential heterogenous catalyst in Biginelli Reaction	2023	Journal of Molecular Liquids	0167-7322	International
22	Ms. Anu Thind	A review on the techniques used in the migration of virtual machine	2023	International Journal of Creative Research Thoughts	2320-2882	International
23	Dr. Sham singh	Investigation of energy storage properties in lead-free BZT- 40BCT relaxor ceramic	2023	Materials Today: Proceedings	2214-7853	International
24	Dr Sham Singh	Cosmic-Ray Modulation in relation to Solar and Heliospheric Parameters	2023	Proceedings of Science	1824-8039	International
25	Dr Sham Singh	Interplanetary Origin of Large Geomagnetic Storms ($Dst \leq -100$ nt) During (2017–2021)	2023	Scope	1177-5653	International
26	Dr Vidushi Karol	Energy build-up factors estimation for BaZr _{0.10} Ti _{0.90} O ₃ , Ba _{0.90} La _{0.10} TiO ₃ and Ba _{0.90} La _{0.10} Zr _{0.10} Ti _{0.90} O ₃ , ceramics in shielding applications	2023	Nuclear Engineering and Technology	1738-5733	International
27	Namrata Thakur	Interplanetary Origin of Large Geomagnetic Storms ($Dst \leq -100$ nt) During (2017–2021)	2023	Scope	1177-5653	International
28	Inderjot kaur	Patriarchal High-Handedness and Gender Bigotry: A Barbed Wire for a Sustainable Future	2022	Literary Voice	2277-4521	International
29	Dr. Sangeeta	Astrophysical reaction rates with realistic nuclear level densities	2022	Physical Review C	2469-9985	International
30	Ripple Dhingra	Metasurface Antennas for Wireless Applications: Applications & Challenges, Design of Metamaterial Unit Cell	2022	NEUROQUANTOLOGY	1303-5150	International
31	Dr. Sangeeta	Nuclear level densities away from line of β -stability	2022	Journal of Physics G: Nuclear and Particle Physics	1361-6471	International
32	Ms. Namarta Thakur	Solar Utility Enhancement in IC engine Cars	2022	Journal of Xiadin univesity	1001-2400	International
33	Dr. Sumeet goyal	Implementation And Modeling of Low Power Sleepy Stack Sram	2022	Journal of Advanced Sciences	2198-3844	International
34	Dr. Manpreet Kaur	Solar Utility Enhancement in IC engine Cars	2022	Journal of Xiadin univesity	1001-2400	International
35	Dr. Rahul kakkar	Implementation And Modeling of Low Power Sleepy Stack Sram	2022	Journal of Advanced Sciences	2198-3844	International
36	Inderjot kaur	Child development, gender incongruity and significance of religious philosophy for sustainability: A comparative study	2022	International Journal of Early Childhood Special Education (INT-JECSE)	1308-5581	International
37	Dr. Joginder Singh	Implementation And Modeling of Low Power Sleepy Stack Sram	2022	Journal of Advanced Sciences	2198-3844	International
38	Dr. Sumeet Goyal	Mathematical modelling for prediction of spread of corona virus and artificial intelligence/machine learning-based technique to detect COVID-19 via smartphone sensors	2022	Int. J. Modelling, Identification and Control,	1746-6172	International
39	Dr. Rahul Kakkar	Mathematical modelling for prediction of spread of corona virus and artificial intelligence/machine learning-based technique to detect COVID-19 via smartphone sensors	2022	Int. J. Modelling, Identification and Control,	1746-6172	International
40	Dr. Joginder Singh	Mathematical modelling for prediction of spread of corona virus and artificial intelligence/machine learning-based technique to detect COVID-19 via smartphone sensors	2022	Int. J. Modelling, Identification and Control,	1746-6172	International
41	Ms. Ripple Sahni	Solar Utility Enhancement in IC engine Cars	2022	Journal of Xiadin univesity	1001-2400	International
42	Dr. Sumeet goyal	A Study on Mathematical model for Image Processing	2022	International Journal of Exploration in Science and Technology	2456-1118	International
43	Dr. Joginder Singh	A Study on Mathematical model for Image Processing	2022	International Journal of Exploration in Science and Technology	2456-1118	International
44	Dr. Rahul kakkar	A Study on Mathematical model for Image Processing	2022	International Journal of Exploration in Science and Technology	2456-1118	International
45	Aneesh Goyal	Decision on the range of peak current during cryogenically assisted electric discharge machining process	2022	Materials Today: Proceedings	2214-7853	International
46	Dr. Rajat Syal	Ultra-high energy storage efficiency in La-doped BCZT relaxor ceramic	2022	IEEE Xplore	1944-9380	International

47	Dr. Rajat Syal	Synthesis and characterization of Ca substituted Ni-Zn nanoferrites- microstructural, magnetic and dielectric analysis	2022	Elsevier	0925-8388	International
48	Gurinderjit Kaur	A Study on Mathematical model for Image Processing	2022	International Journal of Exploration in Science and Technology	2456-1118	International
49	Dr. Rajat Syal	Simulation of Mos2 based Asymmetric Nano-Channel Rectifier	2022	IEEE Xplore	1944-9380	International
50	Dr. Harpal Singh	Silicon Material Based Tunnel FET for Controlling Ambipolar Current	2021	Silicon	1876-9918	International
51	Dr. Priyanka Kaushal	Passive Image Forensics using Universal Techniques: A Review	2021	Artificial Intelligence Review	1573-7462	International
52	Dr. Harpal Singh	Mathematical modeling of viscothermoelastic diffusive body with phase lags	2021	International Journal of Latest Trends in Engineering and Technology	2278-621X	International
53	Dr. Shalini	Synthesis and characterisation of zinc oxide nanoparticles and its antimicrobial activity against Staphylococcus aureus and Micrococcus	2021	International journal of nanoparticles	1753-2507	International
54	Inderjot kaur	Portrayal of Power Dynamics In Bapsi Sidhwa's Novel 'The Pakistani Bride'	2021	Psychology and Education Journal	1553-6939	International
55	Dr. Priyanka Kaushal	Mathematical modeling of viscothermoelastic diffusive body with phase lags	2021	International Journal of Latest Trends in Engineering and Technology	2278-621X	International


 Head
 Department of Applied Sciences,
 Chandigarh Engineering College,
 CGC Landran, (Mohali)-140307

Conference Publications Details (International and National) 2024-25, 2023-24, 2022-23, 2021-22 (Academic Years)

S.No.	Name of Faculty Member	Title of the Research Paper	Year of Publication	Name of the Proceedings	ISSN No.	National / International
1	Gurmeet Kaur	A method for eco- friendly transactions	2024	2024 IEEE 5th India Council International Subsections Conference (INDISCON)	979-8-3503-5035-7	International
2	Anu Thind	Enhancement of virtual machine migration using ABC Algorithm	2024	IEEE Proceeding	979-8-3503-5035-7	International
3	Nisha Kumari	Taxonomy of Technical Challenges in Digital Forensics	2024	IEEE Proceeding	979-8-3503-7141-3	International
4	Nisha Kumari	Mitigating DDos Attacks: A Distributed Blockchain - SDN Secure IoT System Enhanced by Artificial Neural Networks	2024	IEEE Proceeding	978-1-032-81760	International
5	Nisha Kumari	Enhancement of virtual machine migration using ABC Algorithm	2024	IEEE Proceeding	979-8-3503-5035-7	International
6	Dr Harvinder Singh	Enhancement of virtual machine migration using ABC Algorithm	2024	IEEE Proceeding	979-8-3503-5035-7	International
7	Dr Priyanka Kaushal	Enhancement of virtual machine migration using ABC Algorithm	2024	IEEE Proceeding	979-8-3503-5035-7	International
8	Dr Harpal Singh	Enhancement of virtual machine migration using ABC Algorithm	2024	IEEE Proceeding	979-8-3503-5035-7	International
9	Prabhjeet Kaur	Calculate the Asphalt Pavement's binder activity level using Machine learning Techniques	2024	IEEE Proceeding	9.781E+12	International
10	Dr Priyanka Kaushal	Calculate the Asphalt Pavement's binder activity level using Machine learning Techniques	2024	IEEE Proceeding	9.781E+12	International
11	Nisha Kumari	Calculate the Asphalt Pavement's binder activity level using Machine learning Techniques	2024	IEEE Proceeding	9781-00350-1244	International
12	Satish Kumar	Parametric evaluation of PMEDM for the machining of Inconel-800 using response surface methodology	2023	Materials Today: Proceedings	2214-7853	International
13	Dr. Priyanka Kaushal	Face and Iris recognition using neural network : Review	2023	International Conference on Innovative Sustainable Computational Techniques	979-8-3503-0336-0	International
14	Dr. Rahul Mehra	Parametric evaluation of PMEDM for the machining of Inconel-800 using response surface methodology	2023	Materials Today: Proceedings	2214-7853	International
15	Dr Sham Singh	Relation ship between cosmic ray intensity, sunspot cycle with geomagnetic activity	2023	Proceedings of Science	1824-8039	International
16	Harvinder Singh	Experimental investigation of WC-12Co cold sprayed:Substrate hardness, bonding mechanism, powder type	2023	Materials Today: Proceedings	2214-7853	International
17	Harvinder Singh	Development of high pressure cold spray coatings of tungsten carbide composites	2023	Materials Today: Proceedings	2214-7853	International
18	Namrata Thakur	The Relation ship between cosmic ray intensity, sunspot cycle with geomagnetic activity	2023	Proceedings of Science	1824-8039	International
19	Harvinder Singh	Impact of operating parameters on electric discharge machining of cobalt-based alloys	2023	Materials Today: Proceedings	2214-7853	International
20	Harvinder Singh	Parametric optimization and wear analysis of AISI D2 steel components	2023	Materials Today: Proceedings	2214-7853	International

21	Dr. Sham singh	Influence of counter electrode on the photovoltaic properties of Cu ₂ S/CdS heterojunction	2022	AIP Conference Proceedings	1551-7616	International
22	Dr. Harpal Singh	Relevance of Matrices and Image Processing	2022	International Conference on Innovation in Communication, Computing and Sciences (ICCS 2022)	978-81-19079-29-2	International
23	Inderjot Kaur	Digital Media and Relationships: A Study of Meena Kandasamy's Novel, 'When I Hit You Or, a Portrait of the Writer as a Young Wife'	2022	Electronic Textual Cultures: A study of digital literature and literature in digital spaces	0975-2935	International
24	Dr. Priyanka Kaushal	Relevance of Matrices and Image Processing	2022	International Conference on Innovation in Communication, Computing and Sciences (ICCS 2022)	978-81-19079-29-2	International
25	Dr. Priyanka Kaushal	Cluster Formation Algorithm in WSNs Optimize the energy Consumption using Self organizing Map	2021	International Conference on Wireless Sensor Networks, Ubiquitous Computing and Applications (ICWSNUCA-2021)	978-981-16-2919-8	International
26	Dr. Priyanka Kaushal	An Analytical Approach for Traffic Grooming Problems Using Waiting Probability In WDM Networks	2021	International Conference on Wireless Sensor Networks, Ubiquitous Computing and Applications (ICWSNUCA-2021)	2367-3370	International

Head 
 Department of Applied Sciences,
 Chandigarh Engineering College,
 CGC Landran, (Mohali)-140307