**Curriculum Vitae**

A person wearing glasses and a white shirt

Description automatically generated

Dr. Shailesh Mani Pandey

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Dr. Pandey's academic journey is rooted in his pursuit of excellence and dedication to his field. He has completed his B. Tech in the Mechanical Engineering in the year 2007 and Qualified GATE in 2010. He holds a Master's degree (2012) and a Ph.D. (2017) in Mechanical Engineering from DTU (Delhi Technological University), a prestigious institution known for its strong engineering programs.For his M.Tech dissertation and Doctoral research work, he had the privilege of being supervised by two esteemed professors, Prof. Qasim Murtaza and Prof. R S Walia from Delhi Technological University (DTU) Delhi.

Currently, Dr. Pandey serves as Training and Placement Officer at NIT Patna, where he guides and supports students in their career development, a position he has held since 2020. His area of research includes **Surface Modification, Coating, Tribology, Material Processing; Composite Materials; Metal Matrix Nanocomposites; Nano-Coatings; Wear; Deformation and Corrosion**.

He has guided more than 25 B. Tech projects, 10 M. Tech dissertations. At present, 5 PhD Students are working under his supervision. Dr. Pandey is also the founder and president of the educational and skill-development NGO "**Avhikalpana**" and a Trust “**Research and Innovation Trust**”. He is in the advisory board of various reputed organisations as Collegedunia Web PVT Limited, Impacture Technologies PVT Limited etc. Before joining NIT Patna, Dr. Pandey gained valuable industrial experience of production, planning and control over two years at Sri Ram Piston in Ghaziabad. This hands-on experience in the industry has provided him with practical insights that he integrates into his teaching and research endeavors.

Throughout his career, Dr. Pandey has been actively involved in academic responsibilities and research activities at DTU for over a decade. He has demonstrated his commitment to scholarly pursuits by participating in various international conferences, workshops, seminars, and similar events. His engagement extends beyond attendance as he has also organized such events, showcasing his leadership and organizational skills. In addition to his academic and research engagements, Dr. Pandey has actively worked on various projects sponsored by Department of Science and technology (DST) Government of India in the field of Advanced Materials and surface modification for high temperature based applications. Currently, Dr, Pandey is working on 9 different research projects **(Approx Rs.9 Cr)** funded by DST (Department of Science and Technology). This involvement in DST-sponsored projects signifies his ability to secure research funding and his expertise in contributing to cutting-edge research initiatives.

Dr. Pandey has also worked as different roles like HMC, Cultural secretary, Faculty Advisor of E-Cell, Member of disciplinary committee, Member of Joint Admission Committee, Delhi for the administration of Delhi Technological University and NIT, Patna for over a decade.

Dr. Pandey's rich academic background, industrial experience, and active involvement in research and scholarly activities highlight his well-rounded expertise. He continuously strives to bridge the gap between academia and industry, inspiring students and colleagues with his knowledge and passion for mechanical engineering.

Dr. Pandey, an accomplished scholar and expert in his field, has made significant contributions to the world of academia through his editorial work. He has successfully edited two notable books that have garnered recognition in their respective domains. The first book, titled "**Surface Engineering: Methods and Applications**," was published by CRC Press, a renowned publishing house. This comprehensive work delves into the various techniques and applications of surface engineering, shedding light on the advancements in this critical field. Dr. Pandey's meticulous editing ensures that the book provides valuable insights and knowledge to readers in academia and industry alike. The second book, "**Recent Trends in Mechanical Engineering**," was published by Springer, a leading academic publisher. This publication highlights the latest developments and emerging trends in the vast realm of mechanical engineering. Dr. Pandey's expertise and keen eye for detail are evident in his editing, ensuring that this book serves as an invaluable resource for students, researchers, and professionals in the field. Through his editorial endeavours, Dr. Pandey has demonstrated his commitment to advancing knowledge and disseminating cutting-edge information within the scientific community.

**Personnel Details:**

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| --- | --- |
| **Name** | **Dr. Shailesh Mani Pandey** |
| Designation  Address:  Contact Number:  Email ID: Website: | Training and Placement Officer, NIT Patna /  Assistant Professor (MED) NIT Patna  NIT Patna, Ashok Rajpath, Patna, Bihar (800005)  +91-8750111166  smp.me@nitp.ac.in <https://www.nitp.ac.in/profile?id=smp.me@nitp.ac.in> |

**Educational Qualifications:**

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| **Name of Degree** | **Name of the University** | **Year of Passing** | **% of marks** | **Main Discipline** |
| Master’s | Delhi Technological  University, Delhi | 2012 | 8.66 (CGPA) | Production Engineering |
| Ph. D. | Delhi Technological University, Delhi | 2017 | 93.80  (Course Work) | Mechanical Engineering |

**Experience:**

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| S. No. | Positions Held | Name of the Institute | From | To |
| 1. | Production Engineer | Shri Ram Pistons and Rings Limited, Ghaziabad | 06-08-2007 | 04-08-2009 |
| 2. | Assistant Professor (Grade-II) | Department of Mechanical Engineering, Delhi Technological  University, Bawana Road, Shahabad, Daulatpur, Delhi-110042 | 30-08-2012 | 27-01-2020 |
| 3. | Assistant Professor  (Grade-I) | Department of Mechanical Engineering, NIT Patna, Ashok  Rajpath-Bihar | 28-01-2020 | Till Date |

**Research Thesis Guided:**

* Guided more than 25 B. Tech projects and 10 M. Tech dissertations.
* At present, 8 PhD Students (3 Regular + 5Part-time) are working under his supervision’.

**Participation in Research Projects:**

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| **S. No.** | **Title of Project** | **Funding Agency** | **Financial Outlay (Rs.)** | **Start date** | **End date** | **Name of P.I and other Investigators** | **Status: Started/ completed/in progress** |
| **1** | FIST | DST | 1,15,00,000 | Mar-23 | Mar-28 | **PI: Dr. SM Pandey, NIT Patna,**  Co-PI: Dr. Chetan Hirwani, NIT Patna | On-going |
| **2** | Advance wear and corrosion resistance coating development and commercialization In India | AMT/DST | 5,87,97,022 | 2022 | 2027 | PI: Dr. Anup Keshri, IIT Patna  **Co-PI: Dr. SM Pandey, NIT Patna,** | On-going |
| **3** | Low cost gram scale high quality and defect free Graphene by scalable Plasma spraying | DST | 1,20,00,000 |  |  | PI: Dr. Anup Keshri, IIT Patna  **Co-PI: Dr. SM Pandey, NIT Patna,** | On-going |
| **4** | Development of Robust and Super Hydrophobic Plasma Sprayed Graphene reinforced TiAl Intermetallic membranes with improved Desalination in Membrane Distillation | DST | 57,87,957 |  |  | PI: Dr. Anup Keshri, IIT Patna  **Co-PI: Dr. SM Pandey, NIT Patna,** | On-going |
| **5** | Graphene: The wonder Material of the Future/SYMPOSIA | SERB | 1,55,000 | February 2023 | December 2023 | PI: Dr. SM Pandey, NIT Patna, Co-PI: Dr. Om Ji Shukla, NIT Patna | Completed |
| **6** | Experimental and Numerical Vibroacoustic Performance Evaluation of Honeycomb Core Sandwich Structure | SUPRA- DST | 1,82,75,840 |  |  | **PI: Dr. SM Pandey, NIT Patna,**  Co-PI: Dr. Chetan Hirwani, NIT Patna | Accepted for Evaluation |
| **7** | An investigation on Activated-TIG dissimilar welded joint of creep strength enhanced ferritic/martensitic P91 steel and Inconel 617 superalloy for Advanced Ultra-Supercritical (A-USC) power plant application. | SERB- CRG | 55,68,000 |  |  | **PI: Dr. SM Pandey, NIT Patna,** Co-PI: Dr. Chandan Pandey, IIT Jodhpur | Accepted |
| **8** | Empowering Communities through Surface Engineering Excellence: Skill Development and Sustainable Growth in Tribology and Coatings | CSR/ HEFA | 99,90,160 | Oct-23 | Oct-26 | **PI: Dr. SM Pandey, NIT Patna,** Co-PI: Dr. Chetan Hirwani & Dr. Om Ji Shukla, NIT Patna | Accepted |
| **9** | Development of Graphene and HfO2 doped Nd2Ce2O7 as a Novel Thermal Barrier Coating Material for Ultra-Critical High-Temperature Applications | TDP/DST | 1,45,00,000 | Oct-23 | Oct-25 | **PI: Dr. SM Pandey, NIT Patna,** Co-PI: Dr. Chetan Hirwani, NIT Patna, Dr. Chandan Pandey, IIT Jodhpur & Prof. Qasim Murtaza, DTU Delhi | Accepted |
| **10** | Assessment of E-waste Management Practices in select areas of Bihar under Swachh Bharat Abhiyan | ICSSR | 1,40,000 | Sep-23 | Mar-24 | PI: Dr. SM Pandey, NIT Patna, Co-PI: Dr. Om Ji Shukla, NIT Patna | Accepted |
| **11** | National High-End Workshop on “Nanodiamond: Fabrication and  Characterization | SERB | 5,00,000 |  |  | PI: Dr. SM Pandey, NIT Patna, Co-PI: Dr. Chetan Hirwani & Dr. Om Ji Shukla, NIT Patna | Accepted |

**Patents:**

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| **S. No.** | **Patent Title** | **Name of Applicant (s)** | **Patent No.** | **Award Date** | **Agency/Country** | **Status** |
| **1** | Green Energy generation by speed breakers | Anand Kumar Pandey, Shailesh Mani Pandey, Aman Singhal | 500182 | Publication date 12/02/2016 | Publication of the Patent Office, India | Published |
| **2** | Modern Driverless Metro Model | Anand Kumar Pandey, Shailesh Mani Pandey, Aman Singhal | Nil | Publication date 12/02/2016 | Publication of the Patent Office, India | Published |

**Papers in Journals:**

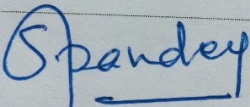
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| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Authors** | **Title** | **Publication** | **Year** | **Publisher** |
| **1** | Alok, Anupam; Kumar, Satyajeet; Pandey, Shailesh Mani; Kumar, Amit; | Review on the effect of surface textured tool in the field of machining | Advances in Materials and Processing Technologies | 2023 | Taylor & Francis |
| **2** | Sirohi, Sachin; Pandey, Shailesh M; Tiwari, Vinita; Bhatt, Dhowmya; Fydrych, Dariusz; Pandey, Chandan; | Impact of laser beam welding on mechanical behaviour of 2.25 Cr–1Mo (P22) steel | International Journal of Pressure Vessels and Piping | 2023 | Elsevier |
| **3** | Maurya, Shubhendra Shivam; Pandey, Krishna Kant; Sharma, Swati; Kumari, Sudha; Mirche, Kamlesh Kumar; Kumar, Deepak; Pandey, Shailesh Mani; Keshri, Anup Kumar; | Microstructural, mechanical and tribological behavior of nanodiamonds reinforced plasma sprayed nickel-aluminum coating | Diamond and Related Materials | 2023 | Elsevier |
| **4** | Mirche, Kamlesh Kumar; Pandey, Krishna Kant; Pandey, Shailesh Mani; Keshri, Anup Kumar; | Microstructure and Corrosion Behavior of Plasma-Sprayed Nanodiamond-Reinforced NiAl Nanocomposite Coating | Journal of Thermal Spray Technology | 2023 | Springer |
| **5** | Singh, Pushpender; Islam, Aminul; Pandit, Niranjan; Indupuri, Satish; Rahman, OS Asiq; Pandey, Shailesh Mani; Keshri, Anup Kumar; | Plasma sprayed graphene/carbon nanotube reinforced lanthanum-cerate hybrid composite coating | Ceramics International | 2023 | Elsevier |
| **6** | Maurya, Anup Kumar; Pandey, Shailesh M; Chhibber, Rahul; Pandey, Chandan; | Structure–property relationships and corrosion behavior of laser-welded X-70/UNS S32750 dissimilar joint | Archives of Civil and Mechanical Engineering | 2023 | Springer |
| **7** | Dak, Gaurav; Pandey, Shailesh M; Pandey, Chandan; | Residual stress analysis, microstructural characterization, and mechanical properties of tungsten inert gas-welded P92/AISI 304L dissimilar steel joints | Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications | 2023 | SAGE Publications Sage UK: London, England |
| **8** | Faheem, Abdul; Tyagi, Ankit; Pandey, SM; Hasan, Faisal; Murtaza, Qasim; | A sustainable ecofriendly additive manufacturing approach of repairing and coating on the substrate: cold spray | Australian Journal of Mechanical Engineering | 2023 | Taylor & Francis |
| **9** | Kumar, Satyajeet; Pandey, SM; | Effect of Y2O3 and TiO2 addition of dispersed powder on phase evolution and microstructural analysis of (Al, Cu) 3Ti intermetallic synthesised via mechanical alloying and powder metallurgy route | Advances in Materials and Processing Technologies | 2023 | Taylor & Francis |
| **10** | Chourasia, Shubhangi; Pandey, SM; Murtaza, Qasim; Agrawal, Saurabh; Gupta, Kalpana; | Redefining Industry 5.0 in Ophthalmology and Digital Metrology: A Global Perspective | MAPAN | 2023 | Springer India New Delhi |
| **11** | Tiwari, Sandeep; Barman, Asim Gopal; Pandey, Shailesh Mani; Hirwani, Chetan Kumar; | Experimental Measurement of Structural Static and Dynamic Characteristics of Glass/Banana Hybrid Composite | MAPAN | 2023 | Springer India New Delhi |
| **12** | Sirohi, Sachin; Kumar, Naveen; Kumar, Amit; Pandey, Shailesh M; Adhithan, Balamurugan; Fydrych, Dariusz; Pandey, Chandan; | Metallurgical characterization and high-temperature tensile failure of Inconel 617 alloy welded by GTAW and SMAW—a comparative study | Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications | 2023 | SAGE Publications Sage UK: London, England |
| **13** | Chourasia, Shubhangi; Pandey, SM; Keshri, Anup Kumar; | Prospects and Challenges with Legal Informatics and Legal Metrology Framework in the Context of Industry 6.0 | MAPAN | 2023 | Springer India New Delhi |
| **14** | Kumar, Amit; Pandey, Shailesh Mani; Bhattacharyya, Abir; Fydrych, Dariusz; Sirohi, Sachin; Pandey, Chandan; | Selection of electrode material for Inconel 617/P92 steel SMAW Dissimilar welds | Journal of Pressure Vessel Technology | 2023 | American Society of Mechanical Engineers Digital Collection |
| **15** | Satish, Chintham; Kumar, K Vijay; Prasad, Suraj; Kiran, P Sai; Rahman, OS Asiq; Singh, Pushpender; Indupuri, Satish; Shrivastava, Rtanjay; Pandey, Shailesh Mani; Keshri, Anup Kumar; | Effect of Al2O3 and MoS2 reinforcement on microstructure, mechanical, and wear properties of plasma sprayed aluminium hybrid composite coating | Materials Today Communications | 2023 | Elsevier |
| **16** | Kumar, Amit; Guguloth, Krishna; Pandey, Shailesh M; Fydrych, Dariusz; Sirohi, Sachin; Pandey, Chandan; | Study on microstructure-property relationship of Inconel 617 alloy/304L SS steel dissimilar welds joint | Metallurgical and Materials Transactions A | 2023 | Springer US New York |
| **17** | Kumar, Amit; Pandey, Shailesh M; Sirohi, Sachin; Fydrych, Dariusz; Pandey, Chandan; | P92 steel and inconel 617 alloy welds joint produced using ERNiCr-3 filler with GTAW process: Solidification mechanism, microstructure, mechanical properties and residual stresses | Heliyon | 2023 | Elsevier |
| **18** | Maurya, Anup Kumar; Patnaik, Amar; Pandey, Shailesh M; Chhibber, Rahul; Pandey, Chandan; | Tribological performance of gas tungsten arc welded dissimilar joints of sDSS 2507/N50 steel | Journal of Materials Engineering and Performance | 2023 | Springer US New York |
| **19** | Sirohi, Sachin; Kumar, Amit; Pandey, Shailesh M; Purohit, Priyambada; Fydrych, Dariusz; Kumar, Sanjeev; Pandey, Chandan; | Dissimilar autogenous TIG joint of Alloy 617 and AISI 304H steel for AUSC application | Heliyon | 2023 | Elsevier |
| **20** | Bhanu, Vishwa; Fydrych, Dariusz; Pandey, Shailesh M; Gupta, Ankur; Pandey, Chandan; | Activated Tungsten Inert Gas Weld Characteristics of P91 Joint for Advanced Ultra Supercritical Power Plant Applications | Journal of Materials Engineering and Performance | 2023 | Springer US New York |
| **21** | Kumar, Amit; Sirohi, Sachin; Pandey, Shailesh Mani; Kumar, Pradeep; Fydrych, Dariusz; Pandey, Chandan; | High-Temperature Tensile Behaviour of GTAW Joints of P92 Steel and Alloy 617 for Two Different Fillers | Materials | 2023 | MDPI |
| **22** | Kumar, Amit; Pandey, Shailesh M; Pandey, Chandan; | Dissimilar weldments of ferritic/martensitic grade P92 steel and Inconel 617 alloy: Role of groove geometry on mechanical properties and residual stresses | Archives of Civil and Mechanical Engineering | 2022 | Springer |
| **23** | Gupta, Kalpana; Murtaza, Qasim; Yuvraj, N; Walia, RS; Pandey, Shailesh Mani; | Tribological behaviour of (CrC) X+ (Mo+ Fe)+(NiCr) X alloy coating by atmospheric plasma spraying on piston ring with liner contact | Advances in Materials and Processing Technologies | 2022 | Taylor & Francis |
| **24** | Kumar, Deepak; Pandey, Krishna Kant; Kumari, Sudha; Nair, Aakash M; Mirche, Kamlesh Kumar; Maurya, Shubhendra Shivam; Pandey, Shailesh Mani; Keshri, Anup Kumar; | Effect of nanodiamond concentration on the electrochemical behavior of plasma sprayed titanium-nanodiamond nanocomposite coatings | Diamond and Related Materials | 2022 | Elsevier |
| **25** | Kumar, Satyajeet; Pandey, Shailesh Mani; | The Study of Assessment Parameters and Performance Measurement of Cold Spray Technique: A Futuristic Approach Towards Additive Manufacturing | MAPAN | 2022 | Springer |
| **26** | Bhanu, Vishwa; Pandey, Shailesh M; Gupta, Ankur; Pandey, Chandan; | Dissimilar weldments of P91 and Incoloy 800HT: Microstructure, mechanical properties, and residual stresses | International Journal of Pressure Vessels and Piping | 2022 | Elsevier |
| **27** | Kumari, Sudha; Islam, Aminul; Mirche, Kamlesh Kumar; Kiran, P Sai; Maurya, Shubhendra Shivam; Kumar, Deepak; Pandey, Shailesh Mani; Keshri, Anup Kumar; | Plasma sprayed graphene reinforced titanium nitride composite coating: An effective solution for mitigating the corrosion attack | Surface and Coatings Technology | 2022 | Elsevier |
| **28** | Kumar, Sanjeev; Sirohi, Sachin; Pandey, Shailesh M; Bhatt, Dhowmya; Pandey, Chandan; | Effect of Single Bevel Groove Geometry on the Impact Strength of Dissimilar Welded Joint of P22 and P91 Steel | Sustainability | 2022 | MDPI |
| **29** | Sirohi, Sachin; Pandey, Shailesh M; Świerczyńska, Aleksandra; Rogalski, Grzegorz; Kumar, Naveen; Landowski, Michał; Fydrych, Dariusz; Pandey, Chandan; | Microstructure and mechanical properties of combined GTAW and SMAW dissimilar welded joints between Inconel 718 and 304L austenitic stainless steel | Metals | 2022 | MDPI |
| **30** | Chourasia, Shubhangi; Tyagi, Ankit; Pandey, SM; Walia, RS; Murtaza, Qasim; | Sustainability of Industry 6.0 in global perspective: benefits and challenges | Mapan | 2022 | Springer |
| **31** | Singh, Shailesh Kumar; Chattopadhyaya, Somnath; Pramanik, Alokesh; Kumar, Sanjeev; Pandey, Shailesh M; Walia, RS; Sharma, Shubham; Khan, Aqib Mashood; Dwivedi, Shashi Prakash; Singh, Sunpreet; | Effect of alumina oxide nano-powder on the wear behaviour of CrN coating against cylinder liner using response surface methodology: Processing and characterizations | Journal of Materials Research and Technology | 2022 | Elsevier |
| **32** | Chaudhary, Prashant; Kiran, Prabha; Kate, Nilesh; Pandey, Shailesh; | Experiential tourism–role and application of micro-targeting in enhancing customer experience, engagement and loyalty | Journal of Information and Optimization Sciences | 2022 | Taylor & Francis |
| **33** | Kumar, S; Sirohi, S; Pandey, SM; Bhatt, D; Pandey, C; | Effect of Single Bevel Groove Geometry on the Impact Strength of Dissimilar Welded Joint of P22 and P91 Steel. Sustainability 2022, 14, 11739 |  | 2022 |  |
| **34** | Gupta, Navendu; Singh, Shailesh Kumar; Pandey, Shailesh Mani; | Tribological characterisation of thermal sprayed CrC alloyed coating–A review | Advances in Materials and Processing Technologies | 2021 | Taylor & Francis |
| **35** | Tyagi, Ankit; Pandey, SM; Walia, RS; Murtaza, Qasim; Kumar, Ajay; | Effect of Temperature on the Sliding Wear Composite Behavior Coating of HVOF Sprayed Al2O3 | Advances in Materials and Mechanical Engineering: Select Proceedings of ICFTMME 2020 | 2021 | Springer Nature |
| **36** | Singh, Shailesh Kumar; Chattopadhyaya, Somnath; Pramanik, Alokesh; Kumar, Sanjeev; Basak, Animesh K; Pandey, Shailesh M; Murtaza, Qasim; Legutko, Stanislaw; Litak, Grzegorz; | Tribological properties of chromium nitride on the cylinder liner under the influence of high temperature | Materials | 2020 | MDPI |
| **37** | Ali, Parvesh; Pandey, SM; Ranganath, MS; Walia, RS; Murtaza, Qasim; | Experimentation and modelling of CNT additive abrasive media for micro finishing | Measurement | 2020 | Elsevier |
| **38** | Tyagi, Ankit; Pandey, SM; Walia, RS; Murtaza, Qasim; Mishra, RS; | Characterization and parametric optimization of% change in residual stress of Mo composite coating using Taguchi approach | Materials Research Express | 2020 | IOP Publishing |
| **39** | Tyagi, Ankit; Pandey, SM; Gupta, Kalpna; Walia, RS; Murtaza, Qasim; Krishen, Kumar; | Tribological behavior of sustainable carbon based composite coating for wear resistance applications | Materials Research Express | 2019 | IOP Publishing |
| **40** | Tyagi, Ankit; Pandey, Shailesh Mani; Walia, RS; Murtaza, Qasim; | Characterization and parametric optimization of tribological properties of Mo blend composite coating | Materials Research Express | 2019 | IOP Publishing |
| **41** | Pandey, Shailesh Mani; Murtaza, Qasim; Walia, RS; | Effect of NiCr on dry sliding wear of high carbon iron-molybdenum composite plasma spray coating | International Journal of precision Technology | 2018 | Inderscience Publishers (IEL) |
| **42** | Pandey, Shailesh; Srivastava, Vimal Chandra; | Oxidative-extractive desulfurization of liquid fuel using stannous chloride-acetic acid mixture as catalyst | Petroleum Science and Technology | 2018 | Taylor & Francis |
| **43** | Pandey, Shailesh Mani; Murtaza, Qasim; Walia, RS; | Study of dry wear behavior and morphological characteristic of 60% Mo-20% NiCr-10% CrC-10% Mo+ Fe based alloy coating by atmospheric plasma spray technique | Advances in Materials and Processing Technologies | 2017 | Taylor & Francis |
| **44** | Murtaza, Qasim; Pandey, SM; Niranjan, MS; | A novel manufacturing route for automobile parts through two-wire-arc thermal spray process | Materials and Manufacturing Processes | 2016 | Taylor & Francis |

**Edited Books:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Authors** | **Title** | **Publication** | **Year** | **Publisher** |
| **1** | Singh, Shailesh Kumar; Chattopadhyaya, Somnath; Murtaza, Qasim; **Pandey, Shailesh Mani**; Walia, RS; Tyagi, Mohit; Kumar, Satyajeet; | A Comprehensive Review of Cold Spray Coating Technique | Recent Trends in Mechanical Engineering: Select Proceedings of PRIME 2021 | 2023 | Springer Nature Singapore Singapore |
| **2** | Maurya, Ambrish; Srivastava, Anmesh Kumar; Jha, Pradeep Kumar; **Pandey, Shailesh Man**i; | Recent Trends in Mechanical Engineering: Select Proceedings of PRIME 2021 |  | 2023 | Springer Nature |
| **3** | Sarote, Prasun; Shukla, Om Ji; **Pandey, Shailesh Mani**; | The Role of Blockchain Technology: COVID-19 Pandemic Point of View | Recent Trends in Mechanical Engineering: Select Proceedings of PRIME 2021 | 2023 | Springer Nature Singapore Singapore |
| **4** | Chourasia, Shubhangi; Tyagi, Ankit; **Pandey, Shailesh Mani**; Murtaza, Qasim; Gupta, Kalpana; | A Critical Review on Design and Examination of High-Temperature Thermal Spray Carbon-Based Composite Coatings at High Temperature | Recent Trends in Mechanical Engineering: Select Proceedings of PRIME 2021 | 2023 | Springer Nature Singapore Singapore |
| **5** | Chourasia, Shubhangi; Tyagi, Ankit; Pandey, Shailesh Mani; Murtaza, Qasim; | A Critical Review of Thermal-Barrier Coatings and Critical Examination on Post Heat Treatment | Recent Trends in Mechanical Engineering: Select Proceedings of PRIME 2021 | 2023 | Springer Nature Singapore Singapore |
| **6** | Singh, Ashish Kumar; Pali, Harveer Singh; Pandey, Shailesh Mani; Karnwal, Ashish; | Experimental Investigations of Butanol as a Diesel Engine Fuel Blends | Recent Trends in Mechanical Engineering: Select Proceedings of PRIME 2021 | 2023 | Springer Nature Singapore Singapore |
| **7** | Sachendra; Pandey, Shailesh Mani; Kumar, Satyajeet; Singh, Shailesh Kumar; Singh, Kuldeep; | A Detailed Review of Friction Stir Processing | Recent Trends in Mechanical Engineering: Select Proceedings of PRIME 2021 | 2023 | Springer Nature Singapore Singapore |
| **8** | Kumar, Parvesh; Pali, Harveer Singh; Kumar, Vikash; Sidharth; Pandey, Shailesh Mani; | Performance and Emissions Characteristics of Unmodified Diesel Engine Running on Waste Plastic Fuel, Diesel, and n-Butanol Blends | Recent Trends in Mechanical Engineering: Select Proceedings of PRIME 2021 | 2023 | Springer Nature Singapore Singapore |
| **9** | Alok, Anupam; Kumar, Amit; Pandey, Shailesh Mani; Pandey, Ajit Kumar; Das, Manas; | A New Journey of Hard Turning with Coated Carbide Insert: A Review | Recent Trends in Mechanical Engineering: Select Proceedings of PRIME 2021 | 2023 | Springer Nature Singapore Singapore |
| **10** | Kem, Luckshya; Tyagi, Lakshya; Gupta, Kalpana; Pandey, Shailesh Mani; | Effect of Forging on Mechanical and Tribological Properties of Aluminium Alloy Composites: A Review | Recent Trends in Mechanical Engineering: Select Proceedings of PRIME 2021 | 2023 | Springer Nature Singapore Singapore |
| **11** | Kumar, Satyajeet; Pandey, Shailesh Mani; Kumar, Jay Shankar; | Analysis of Physical Properties and Tribological Wear Behavior of Al-Based Composite Alloy Using Unidirectional Tribo Tester | Recent Trends in Mechanical Engineering: Select Proceedings of PRIME 2021 | 2023 | Springer Nature Singapore Singapore |
| **12** | Walia, RS; Murtaza, Qasim; Pandey, Shailesh Mani; Tyagi, Ankit; | Surface Engineering: Methods and Applications |  | 2022 | CRC Press |
| **13** | Chourasia, Shubhangi; Pandey, Shailesh Mani; Gupta, Kalpana; Murtaza, Qasim; Walia, RS; | Industry 5.0 for sustainable manufacturing: New product, services, organizational and social information | Surface Engineering | 2022 | CRC Press |
| **14** | Faheem, Abdul; Hasan, Faisal; Chourasia, Shubhangi; Tyagi, Ankit; Pandey, Shailesh Mani; Murtaza, Qasim; | A review of metallic deposition in polymer substrate using cold spray additive manufacturing approach | Surface Engineering: Methods and Applications | 2022 | CRC Press |
| **15** | Kumar, Satyajeet; Pandey, Shailesh Mani; | Effects of performance parameters, surface failure and mitigation techniques on steam turbine blades | Surface Engineering: Methods and Applications | 2022 | CRC Press |
| **16** | Chourasia, Shubhangi; Pandey, Shailesh Mani; Gupta, Kalpana; Faheem, Abdul; Murtaza, Qasim; Walia, RS; | Redefining surface in global perspective | Surface Engineering: Methods and Applications | 2022 | CRC Press |
| **17** | Kumar, Deepak; Pandey, SM; Murtaza, Qasim; Singh, Pushpendra; Walia, RS; | Tribological analysis of increasing percentage of CrC content in composite coating by atmospheric plasma spray technique | Optimization Methods in Engineering: Select Proceedings of CPIE 2019 | 2021 | Springer |
| **18** | Tyagi, Ankit; Raj, Jitendra; Chourasia, Shubhangi; Meena, SL; Pandey, SM; Murtaza, Qasim; Walia, RS; Kumar, Ajay; | Effect of sliding velocity on the wear behavior of HVOF sprayed Al 2O 3 coating | Journal of Physics: Conference Series | 2021 | IOP Publishing |
| **19** | Tyagi, Ankit; Pandey, SM; Walia, RS; Murtaza, Qasim; Kumar, Ajay; | Effect of Temperature on the Sliding Wear Behavior of HVOF Sprayed Al 2 O 3 Composite Coating | Advances in Materials and Mechanical Engineering: Select Proceedings of ICFTMME 2020 | 2021 | Springer |
| **20** | Pandey, Shailesh; Saini, Madan Lal; Kumar, Sandeep; | A comparative study on CBIR using color features and different distance method | Advances in Computing and Intelligent Systems: Proceedings of ICACM 2019 | 2020 | Springer |
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**Important academic achievement:**

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| * Associate Editor, MAPAN (Journal of Metrology Society of India, SCI, (2022) * His research expertise lies in the field of Surface Modification via coating and characterization, Material Processing techniques, HVOF coating, wear and tribology, corrosion, anti-friction coating of automobile parts, Composite Materials; Metal Matrix Nano Composites; Nano-Coatings etc., * Dr. Pandey is also the founder and president of the educational and skill-development NGO "Avhikalpana." He has organised two international conferences at NIT Patna and DTU Delhi. |



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Date: **11/02/2024 Signature**

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