

RESEARCH PAPERS PRESENTED/ PUBLISHED

Patents

- Purushottam Mishra, **Suryanarayan B. Mishra**, (2025), “A Method of Clad Deposition over a Polyhedral substrate,” Patent Application No. 202511052980, Date of Filing: May 31, 2025.

International Journals

- Purushottam Mishra, **S.B. Mishra**, (2025), “Oxidation behaviour of microwave hybrid heating processed CoCrNiTiMo high entropy alloy cladding,” **Materials Chemistry and Physics**, Vol. 341, 130833, pp. 1-13, Published online: April 15, 2025, <https://doi.org/10.1016/j.matchemphys.2025.130883>. (**Q1, SCI, Impact Factor 4.7**).
- Purushottam Mishra, **S.B. Mishra**, (2025), “Failure Analysis of T91 finish superheater tube in 660 MW supercritical thermal power plant,” **Journal of Materials Engineering and Performance**, Vol. 34, pp.11493-11505. doi.org/10.1007/s11665-024-09997-0. (**Q2, SCIE, Impact Factor 2.2**).
- Bhavna Pandey, Manoj Khurana, **Suryanarayan B. Mishra**, (2025), “Influence of quality management practices on organizational performance: mediating role of industry 4.0 technologies,” **The TQM Journal**, Published online: June 19, 2025. <https://doi.org/10.1108/TQM-09-2024-0349>, (**Q1, SCIE, Impact Factor 4.4**).
- A. Dwivedi, M.K. Khurana, Y.G. Bala, **S.B. Mishra**, (2025), “Influence of Modified Heat Treatment on Microstructure, Hardness and Wear Resistance of Inconel 718 Fabricated by Powder Bed Fusion-Laser Beam Additive Manufacturing Process,” **Journal of Materials Engineering and Performance**, online published May 05 2025, <https://doi.org/10.1007/s11665-025-11290-7>, (**Q2, SCIE, Impact Factor 2.2**).
- A. Dwivedi, M.K. Khurana, Y.G. Bala, **S.B. Mishra**, (2025), “Microstructure and mechanical properties at elevated temperatures of as-built and heat-treated Inconel 718 produced through laser powder bed fusion processes,” **Rapid Prototyping Journal**, Vol. 31, Issue 3, pp.635–650, <https://doi.org/10.1108/RPJ-07-2024-0293>, (**Q1/2, SCI, Impact Factor 3.8**).
- Srikant Tiwari, **S.B. Mishra**, (2024), “In-vitro wear of Titanium reinforced Hydroxyapatite coatings in simulated body fluid,” **ASME Journal of Tribology**, Vol. 146(11): 114001, <https://doi.org/10.1115/1.4065983>, (**Q1, SCI, Impact Factor 3**).
- Abhay Shankar Yadav, **S.B. Mishra**, (2024), “Comparative erosion performance of HVOF and LVOF sprayed NiCrSiBCFe-WC-Co coating,” **Surface Engineering**, Vol. 40(5), pp. 575-590. [doi:10.1177/02670844241273542](https://doi.org/10.1177/02670844241273542) (**Q1, SCIE, Impact Factor 2.8**).
- Manavendra Mishra, **S.B. Mishra**, and D. K. Shukla, (2024), “Characterisation and erosion wear behaviour of Ni-13%WC8Co microwave clad on AISI-316 steel,” **Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications**, online published Aug 2, 2024, Vol. 239, Issue:3, pp. 528-539. <https://doi.org/10.1177/14644207241266661>, (**Q2, SCIE, Impact Factor 2.5**).
- Abhay Shankar Yadav, **S.B. Mishra**, (2024), “Comparison on erosion performance of HVOF sprayed NiCrSiBCFe-WC-Co and NiCrSiBCFe-Cr3C2NiCr coatings,” **Tribology - Materials, Surfaces & Interfaces**, 2024;18(3):197-214. [doi:10.1177/17515831241274443](https://doi.org/10.1177/17515831241274443). (**Q3, ESCI, Impact Factor 2**).

- Srikant Tiwari, **S.B. Mishra**, (2023), "LVOF sprayed Ti-HAp composite coatings for internal fixation devices in orthopaedic applications," **Surface and Coatings Technology**, Vol. 474, 130054, doi.org/10.1016/j.surfcoat.2023.130054, (Q1, SCI, Impact Factor 6.1).
- Prashant Kumar Singh, **S.B. Mishra**, Shyamsunder Mishra, Pallvita Yadav, (2023), "Comparative studies on oxidation behaviour of cobalt-based D-gun coatings on boiler steel," **Surface and Coatings Technology**, Vol. 474, 130055, doi.org/10.1016/j.surfcoat.2023.130055, (Q1, SCI, Impact Factor 6.1).
- P. Mishra, **S.B. Mishra**, (2023), A Review of High-temperature Oxidation Behaviour of Thermally Sprayed Boiler Tube Materials in Advanced Coal-fired Thermal Power Plants. *NanoWorld J* 9(S1): S374-S379. doi: 10.17756/nwj.2023-s1-073, (Q4, Scopus indexed).
- Srikant Tiwari, **S.B. Mishra**, (2021), "Post annealing effect on corrosion behavior, bacterial adhesion, and bioactivity of LVOF sprayed hydroxyapatite coating," **Surface and Coatings Technology**, Vol. 405, 126500, doi.org/10.1016/j.surfcoat.2020.126500, (Q1, SCI, Impact Factor 6.1).
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- Prashant Kumar Singh, **S.B. Mishra**, (2020), "Studies on solid particle erosion behaviour of D-Gun sprayed WC-Co, Stellite 6 and Stellite 21 coatings on SAE213-T12 boiler steel at 400°C temperature," **Surface and Coatings Technology**, Vol. 385, 15 March 2020, 125353, https://doi.org/10.1016/j.surfcoat.2020.125353, (Q1, SCI, Impact Factor 6.1).
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- **S.B. Mishra**, K. Chandra, S. Prakash, (2015), “Erosion–Corrosion Behaviour of Nickel and Iron Based Superalloys in Boiler Environment,” **Oxidation of Metals**, Vol. 83, No.1-2, pp. 101-117, (Q1/2, SCI, Impact Factor 2.2).
- **S.B. Mishra**, S. Prakash, (2015), “Erosion-corrosion behaviour of Ni-20Cr plasma coating in actual boiler environment,” **Surface Engineering**, Vol. 31, Issue 1, pp. 29-38, (Q1, SCI, Impact Factor 2.8).
- N.K Mishra, **S.B. Mishra**, R. Kumar, (2015), “Characterisation and oxidation of LVOF sprayed Al₂O₃-40%TiO₂ coating on superalloys,” **Surface Engineering**, Vol. 31, Issue 5, pp. 349–353, (Q1, SCI, Impact Factor 2.8).
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- N.K. Mishra, **S.B. Mishra**, R. Kumar, (2014), “Oxidation Resistance of Low Velocity Oxy Fuel Sprayed Al₂O₃-13TiO₂ Coating on Nickel Based Superalloys at 800°C”, **Surface and Coatings Technology**, Vol. 260, pp. 23-27, (Q1, SCI, Impact Factor 6.1).
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- N.K. Mishra, A.K. Rai, **S.B. Mishra**, R. Kumar, (2014), “Hot Corrosion Behaviour of Detonation Gun Sprayed Stellite-6 and Stellite-21 Coating on Boiler Steel SAE 431 at 900°C”, **International Journal of Corrosion**, Vol. 2014, Article ID 146391, 4 pages. [http://dx. doi.org/10.1155/2014/146391](http://dx.doi.org/10.1155/2014/146391). Citation Index=01, (Q3, ESCI and Scopus Indexed Journal, Impact Factor 1.5).
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- **S.B. Mishra**, K. Chandra, S. Prakash (2013), “Dry sliding wear behaviour of Nickel-, Iron- and Cobalt- based superalloys,” **Tribology - Materials, Surfaces & Interfaces**, Vol. 7, No. 3, pp. 122-128, (Q3, ESCI, Impact Factor 2).

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- **S.B. Mishra**, K. Chandra and S. Prakash, (2008), “Characterisation and Erosion behaviour of NiCrAlY Coating Produced by Plasma Spray Method on two Different Ni-based superalloys,” **Materials Letters**, Vol. 62, Issues 12-13, pp. 1999-2002, (**Q2, SCI, Impact Factor 3**).
- **S.B. Mishra**, K. Chandra, S. Prakash and B. Venkataraman, (2006), “Erosion Performance of Coatings Produced by Shrouded Plasma Spray Process on a Co-Base Superalloy,” **Surface and Coatings Technology**, Vol. 201, pp. 1477-1487, (**Q1, SCI, Impact Factor 6.1**).
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Books Chapter

- Shivam Singh and **S. B. Mishra**, (2024), Analysis of Printing Parameters on the Performance of Robotic Gripper Jaws. In: C. V. Chandrashekara, N. Rajesh Mathivanan, K. Hariharan (eds) Recent Advances in Materials and Manufacturing, Proceedings of ISME 2023. Springer Nature Singapore Pvt Ltd. 2024, ISSN 2195-4356 ISSN 2195-4364 (electronic), ISBN 978-981-97-3653-9/ ISBN 978-981-97-3654-6 (eBook), <https://doi.org/10.1007/978-981-97-3654-6>, pp.281-292.
- N. Kumar, V. Kumar, **S.B. Mishra**, (2018), Oxidation and Hot Corrosion Performance of Al₂O₃-40%TiO₂ Coating on Nickel Based Superalloys at 800 °C. In: Antony K., Davim J. (eds) Advanced Manufacturing and Materials Science. Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Cham, ISBN 978-3-319-76276-0, pp.349-358, doi :https://doi.org/10.1007/978-3-319-76276-0_35.
- A. S. Yadav, **S.B. Mishra**, “Slurry erosive wear study of D-Gun sprayed coatings on SAE 431,” Published in the International Conference on Control Computing Communication & Materials (ICCCCM) at Allahabad, 3-4 August 2013, Print ISBN: 978-1-4799-1374-9, INSPEC Accession Number:13880361, Digital Object Identifier :10.1109/ICCCCM.2013.6648923, pp. 1-5.

International Conferences

- Abhay Shankar Yadav, **S.B. Mishra** “Performance of HVOF-sprayed composite coatings against erosion on structural steel,” presented and published in the International Conference on Advance Materials for Sustainable Future (ICAMSF-2025), organized by Chitkara University, Punjab, India held during March 28-29, 2025.

- Purushottam Mishra, **S.B. Mishra** “Microstructural and mechanical properties of microwave hybrid heating processed FeCoCrNiTi_x high entropy alloy cladding,” presented in the International Conference on Advance Materials for Sustainable Future (ICAMSF-2025), organized by Chitkara University, Punjab, India on March 28-29, 2025.
- Abhay Shankar Yadav, **S.B. Mishra**, “A Review on Application of Thermal Spray Coatings for Protection of Boiler Steels against Erosion-Corrosion Wear,” accepted for presentation and publication in the Fourth International Federation of Heat Treatment and Surface Engineering (IFHTSE) Heat Treatment and Surface Engineering Organized by ASM International Chennai Chapter in association with IIT Madras to be held at Chennai Trade Centre, Chennai, India during September 28-30, 2023.
- Manavendra Mishra, **S.B. Mishra**, and D. K. Shukla “Characterization of Ni-13%WC8Co microwave clad on AISI-316 steel,” accepted for presentation and publication in the Fourth International Federation of Heat Treatment and Surface Engineering (IFHTSE) Heat Treatment and Surface Engineering Organized by ASM International Chennai Chapter in association with IIT Madras to be held at Chennai Trade Centre, Chennai, India during September 28-30, 2023.
- Abhishek Shakkar, **S. B. Mishra**, Design and Development of Low Speed Precision Cutter, Accepted for presentation in the International Conference on Digitization and Advancements in Materials and Metallurgical Industries (ICDAMMI) organized by MNIT, Jaipur from 19-20, August 2023.
- Shivam Singh, **S.B. Mishra**, “Analysis of Printing Parameters on the Performance of Robotic Gripper Jaws,” Presented in the 21st ISME International Conference on Advances in Mechanical Engineering being jointly organized by PES University, Bengaluru and IIT Madras under the aegis of Indian Society of Mechanical Engineers (ISME), IITD, New Delhi from July 13-15, 2023.
- Prashant Pandey, **S.B. Mishra**, “An Overview on Oxidation, Hot Corrosion and Erosion Wear Behaviour of Welded Joints and its Prevention,” presented and published in the Sixth Asian Conference on Heat Treatment and Surface Engineering Organized by ASM International Chennai Chapter in association with International Federation of Heat Treatment and Surface Engineering (IFHTSE) held at Chennai Trade Centre, Chennai, India during March 5-7, 2020.
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- Srikant Tiwari, **S.B. Mishra**, “Corrosion of Stainless Steels and its Prevention through Surface Modifications for Biomedical Applications: A Review,” presented and published in the International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (November 15-17, 2018) held at PUSSGRC, Hoshiarpur, Punjab, India.
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- Prashant Kumar Singh, **S.B. Mishra**, “Studies on Erosion Behaviour of SAE-208, SA-231-T12 Boiler Steels at Room Temperature,” presented and published in the IVth International Conference on Production and Industrial Engineering, CPIE-2016 held at Department of Industrial and Production Engineering, Dr. B. R. Ambedkar National Institute of Technology Jalandhar-144011, India
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- N.K. Mishra, **S.B. Mishra**, R. Kumar, “Oxidation Resistance of Low Velocity Oxy Fuel Sprayed Al_2O_3 -13 TiO_2 Coating on Nickel Based Superalloys at 800°C,” Presented in the International Conference on Metallurgical Coatings and Thin Films [ICMCTF14] held from April 28 to May 2, 2014 at San Diego, CA, USA.
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- Prem Pratap Jadon, **S. B. Mishra**, “Influence of Aspect Ratio and CNT Matrix Interphase in Carbon Nanotubes Reinforced Composites by using FEM,” Published in the Proc. of the 5th Int. Conf. on Advances in Mechanical Engg. (ICAME) held at SVNIT, Surat from June 06-08, 2011.
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National Conferences

- N.K. Mishra, **S.B. Mishra**, "The Technology – a solution to Oxidation and Hot Corrosion," National Conference on challenges & Opportunities for Technology Innovation in India (COTTI-2013), 16th Feb. 2013, Ambalika Institute of Management & Technology, Lucknow.
- Santosh Kumar, N. K. Mishra, **S.B. Mishra**, "Role of HVOF sprayed coating of WC-Co-Cr, NiCrSiB on slurry erosion wear of AISI 304 & 316 substrates," National Conference on challenges & Opportunities for Technology Innovation in India (COTTI-2013), 16th Feb. 2013, Ambalika Institute of Management & Technology, Lucknow.
- Naveen Kumar, **S.B. Mishra**, "Effect of composite coatings on high temperature oxidation and hot corrosion of superalloys at different temperatures: a review," National Conference on challenges & Opportunities for Technology Innovation in India (COTTI-2013), 16th Feb. 2013, Ambalika Institute of Management & Technology, Lucknow.
- Abhay Shankar, **S.B. Mishra**, "Role of detonation gun sprayed coatings in improving slurry erosion wear resistance of alloy steels : a review," National Conference on challenges & Opportunities for

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- N.K. Mishra, **S.B. Mishra**, Saurabh Dixit, “Nanotechnology: Towards Tiny Tech Age,” Conference on Nanotechnology, 2008, MIT, Mooradabad, U.P.
- **S.B. Mishra**, K. Chandra and S. Prakash, “Solid Particle Erosion Behaviour of Plasma Sprayed Coatings,” Published in the proceedings of MetaVista–2005 symposium (16th-18th Feb. 2005), held at Department of Metallurgical Engineering, Institute of Engineering & Technology, Pune-411005, Maharashtra, India.