

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, **Suryanarayan B. Mishra**, (2026), “Comparison of CoCrNiTiMo and CoCrNiTiMoAl coatings in simulated oxidation conditions at 650 °C, 800 °C, and 950 °C temperatures,” **Surface and Coatings Technology**, Vol. 520, 15 January 2026, 132991, pp. 1-16, <https://doi.org/10.1016/j.surfcoat.2025.132991>. ISSN 0257-8972.
- Manavendra Mishra, **S.B. Mishra**, and D. K. Shukla, (2025), “Erosion performance of microwave processed Nickel-base coatings at an elevated temperature,” **Surface Engineering**, Published online: December 03, 2025, doi:10.1177/02670844251401386. Print ISSN: 0267-0844, Online ISSN: 1743-2944.
- 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>.
- 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(12), pp.11493-11506. doi.org/10.1007/s11665-024-09997-0.
- 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>.
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- 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>.
- 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.
- 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

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- 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.
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- 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.
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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.
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- 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.

- Purushottam Mishra, **S.B. Mishra** “Microwave cladding of FeCoCrNiTi_x High entropy alloy,” Presented in the Northern Region Conference on Advancements and Innovations in Foundry Technology: Driving Sustainable Growth (Green Foundry) [NCON 2024] held on 24-25 August 2024 organized by MNIT, Jaipur.
- 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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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.
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- 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.
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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.