Full List of Publications_Ashish Ganvir

As of 21.04.2026, my scientific output comprises **over 85 contributions**, including **36 peer reviewed journal articles**, **9 peer-reviewed conference papers**, **4 peer-reviewed monographs**, and **41 non-peer-reviewed outputs** (such as conference talks, invited talks, keynote talks, seminars etc.).

A. Articles in international journals with a review procedure

2026

1.1 Chinmayee Nayak, Arman Hasani, Gidla Vinay, Ermei Mäkilä, Ebenezer Owusu, Nikhil Kamboj, Malgorzata Grazyna Makowska, Alex Lynam, Acacio Rincon Romero, Sneha Goel, Tanvir Hussain, Antti Salminen & **Ashish Ganvir**, High-Resolution Synchrotron µXRD and µXRF for Local Phase and Elemental Analysis in Suspension Plasma Sprayed Environmental Barrier Coatings, **Journal of Thermal Spray Technology,** Volume 35, pages 650–662, https://doi.org/10.1007/s11666-026-02159-9 , 2026

1.2 Arman Hasani, Chinmayee Nayak, Vinay Gidla, Antti Salminen, Shrikant Joshi, Sneha Goel, Vasanth Gopal, Ermei Makila, Mathias Juan, **Ashish Ganvir**, Laser post-processing as a surface engineering strategy for atmospheric plasma-sprayed thin-film all-solid-state battery components, **Applied Surface Science,** Volume 735, 166624 https://doi.org/10.1016/j.apsusc.2026.166624 , July 2026,

1.3 Gidla Vinay, Stefan Björklund, Ilari Angervo, **Ashish Ganvir**, Shrikant Joshi, Scalable single-step fabrication of high-entropy oxide coatings by axial solution precursor plasma spray, **Journal of the European Ceramic Society,** Volume 46, Issue 8, 118150, https://doi.org/10.1016/j.jeurceramsoc.2026.118150 , July 2026.

1.4 Gidla Vinay, Ravi Kant, Aki Piiroinen, Chinmayee Nayak, **Ashish Ganvir**, Harpreet Singh, Enhancing Cold-Sprayed Nickel–Aluminum Bronze Coatings on Magnesium via Scanner-Based Laser Remelting, **Journal of Thermal Spray Technology**, https://doi.org/10.1007/s11666-025-02150-w, January 2026.

2025

1.5 Muhammad Ammar Anjum, Ananya Nath, Sneha Goel, Ermei Mäkilä, Sagar Sarkar, Antti Salminen, **Ashish Ganvir**, Tribocorrosion Performance of Additively Manufactured CuNi30 and SS-316L in Marine Environments: Seawater Resistant Alloys, **Journal of Materials Research and Technology,** 39, 7453-7468, https://doi.org/10.1016/j.jmrt.2025.10.247, November–December 2025.

1.6 Siddharth Suman, Sneha Goel, Juhani Rantala, Asta Nurmela, Abhinav Anand, **Ashish Ganvir,** Ran Sui, Zaiqing Que, Microstructural evolution, deformation modes, and failure mechanisms in laser powder bed fusion processed nickel-free and 316L stainless steels, **Materials & Design,** 259, 114882 https://doi.org/10.1016/j.matdes.2025.114882, November 2025

1.7 Abhinav Anand, Chinmayee Nayak, Ermei Mäkilä, Zaiqing Que, Heidi Piili, Sneha Goel, Antti Salminen, **Ashish Ganvir,** Tribocorrosion behavior of nickel-free duplex and 316L stainless steels fabricated by laser powder bed fusion in artificial seawater, **Journal of Materials Research and Technology,** Volume 38, September–October 2025, Pages 2197-2211, https://doi.org/10.1016/j.jmrt.2025.08.070

1.8 Arman Hasani, Shrikant Joshi, Antti Salminen, Sneha Goel, Joakim Reuteler, Malgorzata Grazyna Makowska, **Ashish Ganvir,** Localized phase and elemental mapping in solid-state-lithium-battery LTO anode thin-film produced by a novel suspension plasma spray approach, **Journal of Thermal Spray Technology**, https://doi.org/10.1007/s11666-025-02003-6, April 2025

1.9 Ananya Nath, Chinmayee Nayak, Ruchi Sharma, Muhammad Ammar Anjum, **Ashish Ganvir,** Antti Salminen, Sagar Sarkar, Effect of scan strategies on the tribological properties of maraging steel manufactured by PBF-LB, **Tribology International,** Volume 213, January 2026, 111017, https://doi.org/10.1016/j.triboint.2025.111017

1.10 Gidla Vinay, Ravi Kant, **Ashish Ganvir,** Ermei Mäkilä, Harpreet Singh, Insights into cold-spray deposition of Nickel-Aluminum Bronze (NAB) on a soft substrate (Al alloy): emphasizing substrate influence on inter-splat bonding, **Applied Surface Science**, Volume 712, 7 December 2025, 164170, https://doi.org/10.1016/j.apsusc.2025.164170

2024

1.11 Sneha Goel, Martin Bojinov, Jan Capek, Timo Saario, Efthymios Polatidis, Tuomas Kantonen, Malte Blankenburg, Antti Salminen, **Ashish Ganvir,** Zaiqing Que, Corrosion behaviour of laser powder bed fusion manufactured nickel-free stainless steels in high-temperature water; **Corrosion Science**, Volume 239, October 2024, 112410

1.12 Chinmayee Nayak, Abhinav Anand, Nikhil Kamboj, Tuomas Kantonen, Karoliina Kajander, Vilma Tupala, Terhi J Heino, Rahul Cherukuri, Gaurav Mohanty, Jan Čapek, Efthymios Polatidis, Sneha Goel, Antti Salminen, **Ashish Ganvir,** Tribological behavior and biocompatibility of novel Nickel-Free stainless steel manufactured via laser powder bed fusion for biomedical applications, **Materials & Design**, 242, 113013,

1.13 Charlotte de Formanoir, Milad Hamidi Nasab, Lucas Schlenger, Steven Van Petegem, Giulio Masinelli, Federica Marone, Antti Salminen, **Ashish Ganvir,** Kilian Wasmer, Roland E Logé; “Healing of keyhole porosity by means of defocused laser beam remelting: operando observation by X-ray imaging and acoustic emission-based detection”; **Additive Manufacturing**, 79, 2024, 103880;

1.14 Arman Hasani, Mathis Luya, Nikhil Kamboj, Chinmayee Nayak, Shrikant Joshi, Antti Salminen, Sneha Goel, **Ashish Ganvir**; Laser Processing of Liquid Feedstock Plasma-Sprayed Lithium Titanium Oxide Solid-State-Battery Electrode, **Coatings** 2024, 14(2), 224;

2023

1.15 Milad Hamidi Nasab, Giulio Masinelli, Charlotte de Formanoir, Lucas Schlenger, Steven Van Petegem, Reza Esmaeilzadeh, Kilian Wasmer, **Ashish Ganvir,** Antti Salminen, Florian Aymanns, Federica Marone, Vigneashwara Pandiyan, Sneha Goel, Roland Logé;

"Harmonizing Sound and Light: X-Ray Imaging Unveils Acoustic Signatures of Stochastic Inter-Regime Instabilities during Laser Melting"; **Nature Communications** volume 14, Article number: 8008 (2023)

1.16 K. Pandian, M. Neikter, F. Bahbou, **A. Ganvir**, T. Hansson, R. Pederson, "Fatigue behavior of low-temperature hot isostatic pressed electron beam powder bed fusion manufactured Ti-6Al-4V"; **Journal of Alloys and Compounds**, Volume 962, Issue 5, 171086, 2023

2021

1.17 **A. Ganvir**, A. R. Jahagirdar, A. Mulone, L. Örnfeldt, S. Björklund, U. Klement, S. Joshi, "Novel utilization of liquid feedstock in high velocity air fuel (HVAF) spraying to deposit solid lubricant reinforced wear resistant coatings", **Journal of Materials Processing and Technology**, Vol 295, 117203, 2021

1.18 **A. Ganvir**, S. Goel, S. Govindarajan, A. R. Jahagirdar, S. Björklund, U. Klement, S. Joshi, "Tribological performance assessment of Al2O3-YSZ composite coatings deposited by hybrid powder-suspension plasma spraying", '**Surface and Coatings Technology'**, Volume 409, 15, 126907, 2021

1.19 **A. Ganvir**, S. Nagar, N. Markocsan, K. Balani, "Deposition of hydroxyapatite coatings by axial plasma spraying: influence of feedstock characteristics on coating microstructure, phase and mechanical properties", **Journal of the European Ceramic Society**, Volume 41, Issue 8, pp 4637-4649, 2021,

1.20 **A. Ganvir**, M. Gupta, N. Kumar, N. Markocsan, "Effect of suspension characteristics on the performance of thermal barrier coatings deposited by suspension plasma spray", **Ceramics International**, Volume 47, Issue 1, pp 272-283, 2021

2020

1.21 Y. E. Zafer, S. Goel, **A. Ganvir**, A. Jansson, S. Joshi; "Encapsulation of Electron Beam Melting Produced Alloy 718 to Reduce Surface Connected Defects by Hot Isostatic Pressing"; **Materials**, 13(5), 1226, 2020

2019

1.22 P. Hameed, V. Gopal, S. Bjorklund, **A. Ganvir**, D. Sen, N. Markocsan, G. Manivasagam "Axial suspension plasma spraying: An ultimate technique to tailor Ti6Al4V surface with HAp for orthopedic applications"; **Colloids and Surfaces B: Bio interfaces** 173, 806-815, 2019

1.23 W Algenaid, **A Ganvir**, RF Calinas, J Varghese, KV Rajulapati, S Joshi, "Influence of microstructure on the erosion behavior of suspension plasma sprayed thermal barrier coatings"; **Surface and Coatings Technology** 375, 86-99, 2019

1.24 **A Ganvir**, S Björklund, Y Yao, S VSS Vadali, U Klement, S Joshi, "A Facile Approach to Deposit Graphenaceous Composite Coatings by Suspension Plasma Spraying"; **Coatings** 9 (3), 171, 2019

1.25 **A. Ganvir**, N. Curry, R. Calinas, N. Markocsan, S. Joshi, "Experimental visualization of microstructure evolution during suspension plasma spraying of thermal barrier coatings"; **Journal of the European Ceramic Society**, Vol 39, Issues 2–3, pp 470-481, 2019

2018

1.26 J. Ekberg, **A. Ganvir**, U. Klement, S. Creci, and L. Nordstierna, "The Influence of Heat Treatments on the Porosity of Suspension Plasma-Sprayed Yttria-Stabilized Zirconia Coatings"; **Journal of Thermal Spray Technology**, pp. 1–11, Jan. 2018.

1.27 **A. Ganvir**, S. Joshi, N. Markocsan, and R. Vassen, "Tailoring columnar microstructure of axial suspension plasma sprayed TBCs for superior thermal shock performance"; **Materials & Design**, vol. 144, pp. 192-208, April 2018

1.28 **A. Ganvir**, V. Vaidhyanathan, N. Markocsan, M. Gupta, Z. Pala, and F. Lukac, "Failure analysis of thermally cycled columnar thermal barrier coatings produced by high-velocity-air fuel and axial-suspension-plasma spraying: A design perspective"; **Ceramics International**, vol. 44, no. 3, pp. 3161–3172, Feb. 2018.

2017

1.29 U. Klement, J. Ekberg, and **A. Ganvir**, "EBSD Analysis and Assessment of Porosity in Thermal Barrier Coatings Produced by Axial Suspension Plasma Spraying (ASPS)"; **Material Science Forum**, vol. 879, pp. 972–977, 2017.

1.30 **A. Ganvir**, C. Kumara, M. Gupta, and P. Nylen, "Thermal Conductivity in Suspension Sprayed Thermal Barrier Coatings: Modeling and Experiments"; **Journal of Thermal Spray Technology**, vol. 26, no. 1–2, pp. 1–12, Jan. 2017.

2016

1.31 **A. Ganvir**, N. Markocsan, and S. Joshi, "Influence of Isothermal Heat Treatment on Porosity and Crystallite Size in Axial Suspension Plasma Sprayed Thermal Barrier Coatings for Gas Turbine Applications"; **Coatings**, vol. 7, no. 1, p. 4, Dec. 2016.

1.32 **A. Ganvir** et al., "Influence of Microstructure on Thermal Properties of Axial Suspension Plasma-Sprayed YSZ Thermal Barrier Coatings"; **Journal of Thermal Spray Technology**, vol. 25, no. 1–2, pp. 202–212, Jan. 2016.

1.33 **A. Ganvir**, N. Curry, S. Govindarajan, and N. Markocsan, "Characterization of Thermal Barrier Coatings Produced by Various Thermal Spray Techniques Using Solid Powder, Suspension, and Solution Precursor Feedstock Material"; **International Journal of Applied Ceramic Technology**, Vol.13, no 2, pp. 324–332, 2016

2015

1.34 **A. Ganvir**, N. Curry, S. Bjorklund, N. Markocsan, and P. Nylen, "Characterization of Microstructure and Thermal Properties of YSZ Coatings Obtained by Axial Suspension Plasma Spraying (ASPS)"; **Journal of Thermal Spray Technology**, vol. 24, no. 7, pp. 1195–1204, Jun. 2015.

1.35 **A. Ganvir**, N. Curry, N. Markocsan, P. Nylén, and F.-L. Toma, “Comparative study of suspension plasma sprayed and suspension high velocity oxy-fuel sprayed YSZ thermal barrier coatings”; **Surface and Coatings Technology**, vol. 268, pp. 70–76, Apr. 2015.

2022

1.36 Gopaluni, A., Piili, H., **Ganvir, A.,** Salminen, A., A Review Of Microscale And Mesoscale Simulation Of Laser Powder Bed Fusion. In peer review in **ECCOMAS-Springer book** "Advanced Computational Methods and Design for Greener Aviation". DOI: 10.23967/eccomas.2022.234

2. B. Articles in international conference proceedings and compilations with a review procedure

2025

2.1 Ananya Nath, Mohammad Ammar Anjum, Pritam Patra, Ruchi Sharma, Debanjan Das, Rahul Moitra, **Ashish Ganvir**, Antti Salminen, Sagar Sarkar, mechanical and corrosion properties of stainless steel-nano sic mmc fabricated by lpbf: the role of heat treatment; Proceedings of the ASME 2025 International Mechanical Engineering Congress and Exposition - India. Hyderabad, India. September 10–13, 2025. V001T01A026. ASME. https://doi.org/10.1115/IMECE-INDIA2025-160689

2.2 Arman Hasani, Shrikant Joshi, Antti Salminen, Sneha Goel, Antonin Breard, Mathias Juan, Malgorzata Grazyna Makowska, Ermei Mäkilä, Chinmayee Nayak, **Ashish Ganvir,** Advanced synchrotron micro characterization of laser post-processed plasma sprayed LLZO solid-state battery electrolyte, **IOP Conference Series: Materials Science and Engineering**, 1332 012022, August 2025, https://doi.org/10.1088/1757-899X/1332/1/012022

2023

2.3 Abhinav Anand, Nikhil Kamboj, Devarajan Nagarajan, Rohit Kumar Gupta, **Ashish Ganvir**, Thermal post-treatment and material characterization of laser powder bed fusion additively manufactured Ti-6Al-4V; IOP Conference Series: Material Science and Engineering, 1296 (2023) 012030; DOI: 10.1088/1757-899X/1296/1/012030.

2.4 Erik Haapa, Aditya Gopaluni, Heidi Piili, **Ashish Ganvir**, Antti Salminen, Juha Ottelin; Validation of powder layering simulation via packing density measurement for laser-based powder bed fusion; IOP Conference Series: Material Science and Engineering, 1296 (2023) 012030; DOI: 10.1088/1757-899X/1296/1/012030.

2.5 Saeid Parchegani, Heidi Piili, **Ashish Ganvir**, Antti Salminen; Laser welding of additively manufactured parts - A review; IOP Conference Series: **Material Science and Engineering**, 1296 (2023) 012030; DOI: 10.1088/1757-899X/1296/1/012030.

2.6 Nikhil Kamboj, Heidi Piili, **Ashish Ganvir**, Aditya Gopaluni, Chinmayee Nayak, Niko Moritz, Antti Salminen; Bioinert ceramics scaffolds for bone tissue engineering by laser-based

powder bed fusion: a preliminary review; IOP Conference Series: **Material Science and Engineering**, 1296 (2023) 012030; DOI: 10.1088/1757-899X/1296/1/012030.

2016

2.7 **A. Ganvir**, N. Markocsan, F. Lukac, Z. Pala "Influence of microstructure on thermo-cyclic fatigue and thermal shock resistance of axial SPS TBCs" in International Thermal Spray Conference (May 11–14, 2015, Shanghai, China), Shanghai, China, 2016

2.8 **A. Ganvir**, C. Kumara, M. Gupta, and P. Nylén, "Thermal Conductivity in Suspension Sprayed Thermal Barrier Coatings: Modelling and Experiments," in Thermal Spray 2016: Proceedings from the International Thermal Spray Conference (May 11–14, 2015, Shanghai, China), Shanghai, China, 2016

2015

2.9 **A. Ganvir**, N. Curry, N. Markocsan, P. Nylen, M. Vilemova, and Z. Pala, "Influence of Microstructure on Thermal Properties of Columnar Axial Suspension Plasma Sprayed Thermal Barrier Coatings," in Thermal Spray 2015: Proceedings from the International Thermal Spray Conference (May 11–14, 2015, Long Beach, California, USA), Long Beach, California, 2015, pp. 498–505.

3. C. Monographs

3.1 **A. Ganvir**, "Design of suspension plasma sprayed thermal barrier coatings", PhD thesis, June 2018.

3.2 **A. Ganvir**, "Microstructure and Thermal Conductivity of Liquid Feedstock Plasma Sprayed Thermal Barrier Coatings," Licentiate thesis, February 2016.

3.3 **A. Ganvir**, "Comparative analysis of Thermal Barrier Coatings produced using Suspension and Solution Precursor Feedstock" Master's thesis, May 2014.

3.4 **A. Ganvir**, Microstructural & Mechanical properties of YSZ & GDC doped electrolyte used in the SOFC, Bachelor´s thesis, November 2012.

4. E. Other outputs (conference and seminar presentations as well as invited and keynote talks)

2025

4.1 Arman Hasani, Shrikant Joshi, Antti Salminen, Sneha Goel, Joakim Reuteler, Malgorzata Grazyna Makowska, Ermei Mäkilä, **Ashish Ganvir**, Advanced Synchrotron Micro-characterization of All-Solid-State Li-ion Battery Thin-Films Prepared by Suspension Plasma Spraying; The International Thermal Spray Conference and Exposition (ITSC) 2025, Vancouver, Canada, 5-8 May 2025.

4.2 Vinay Gidla, Nicholas Curry, Debashis Nayak, Abhinav Anand, Chinmayee Nayak, Ermei Mäkilä, **Ashish Ganvir**, Evaluating Wear Performance of Plasma-Sprayed Chromia Coatings: Impact of Powder Feeding Rate and a Comparative Study with Ruby Coatings;

The International Thermal Spray Conference and Exposition (ITSC) 2025, Vancouver, Canada, 5-8 May 2025.

4.3 Vinay Gidla, Chinmayee Nayak, Aki Piiroinen, Ravi Kant, Antti Salminen, Harpreet Singh, **Ashish Ganvir**, Development of Cold-Sprayed Nickel Aluminum Bronze Coatings on Magnesium for Enhanced Corrosion Resistance; The International Thermal Spray Conference and Exposition (ITSC) 2025, Vancouver, Canada, 5-8 May 2025.

4.4 Chinmayee Nayak, Arman Hasani, Malgorzata Grazyna Makowska, Ebenezer Owusu, Tanvir Hussain, Sneha Goel, Antti Salminen, Vinay Gidla, **Ashish Ganvir**; High-Resolution Synchrotron µXRD and µXRF for Detailed Phase and Elemental Analysis in Suspension Plasma Sprayed Environmental Barrier Coatings; The International Thermal Spray Conference and Exposition (ITSC) 2025, Vancouver, Canada, 5-8 May 2025.

4.5 **Ashish Ganvir**; Thermal Spray and Lasers: Economical Surface Engineering Routes for Sheet Metal Industrial Application; ohutlevypaivat2025 (Sheet Metal Days 2025), Loima, April 9-10, 2025

4.6 Vinay Gidla, Arman Hasani, Chinmayee Nayak, Vasanth Gopal, Behnam Chameh, Vesa-Pekka Lehto, Josh Thomas, Henrik Eriksson, Mirko Riede, Franz Marquardt, Shrikant Joshi, **Ashish Ganvir**, GRadient- and multi-matErial procEssing of Next-generation solid-state-lithium BAtteries using direct maTerial processing. - GREEN-BAT; **Invited talk;** M-ERA.NET Conference "Advanced Materials & Battery Technologies for a Sustainable Future"| 1-2 April 2025 | Dresden, Germany

4.7 **Ashish Ganvir**, Thermal Spray and Digital Manufacturing Innovations at University of Turku, Finland; **Keynote Talk**; 2nd National Thermal Spray Conference and Expo, CSIR-IMMT Bhubaneshwar, India, February 21-23, 2025

4.8 **Ashish Ganvir**, Advancing Metal Additive Manufacturing for Sustainable Industries: Case Studies in Material and Process Development, **Keynote Talk**, The International Conference on Additive Manufacturing and Characterization 2025 (ICAMC´25), Indian Institute Of Technology Bombay (IIT Bombay), Mumbai, India, January 10-11, 2025.

2024

4.9 Arman Hasani, Shrikant Joshi, Antti Salminen, Sneha Goel, Joakim Reuteler, Malgorzata Grazyna Makowska, **Ashish Ganvir**, Advanced micro-characterization of suspension plasma sprayed multi-layer coatings for All-Solid-State Li-ion Battery, ELMO-LION Summer School, (July 29 - August 2, Padova, Italy).

4.10 Chinmayee Nayak, Arman Hasani, Sneha Goel, Antti Salminen, Malgorzata Grazyna Makowska, Alex Lynam, Acacio Rincon Romero, Tanvir Hussain, **Ashish Ganvir**, Advanced synchrotron µ-XRD and XRF for localized phase and elemental analysis in Annealed+CMAS SPS environmental barrier coatings, Les Rencontres Internationales de la Projection Thermique, 11 RIPT Conference (June 5-7, 2024, Julich, Germany).

4.11 **Ashish Ganvir**; Additive manufacturing of solid-state-batteries; **Invited talk,** Seminar, Tech Turku Week, Morning with Additive Manufacturing (March 4-8, 2024, Turku, Finland);

4.12 Arman Hasani, Shrikant Joshi, Sneha Goel, Malgorzata Grazyna Makowska, **Ashish Ganvir**; **Invited talk,** Unlocking Large-Scale Manufacturing of Solid-State Batteries with Advanced Thermal Spray and Laser Processing, International Conference on Advanced Ceramics for Sustainability (Cera4S), IIT Madras, India (28-30 November, 2024).

2023

4.13 **Ashish Ganvir**; Microanalysis of varied materials produced by additive and related layer-by-layer manufacturing processes; **Invited talk,** 4th Microscopy and Microanalysis Workshop November 15.—17. 2023, Turku, FINLAND,

4.14 Killian Clovis, Arman Hasani, Stefan Björklund, Reza Younesi, **Ashish Ganvir**, Shrikant Joshi; Powder and suspension thermal sprayed coatings as potential solid state thin film battery components; IMAT Advanced Materials and Manufacturing Technologies, October 16 – 19 | Detroit, Michigan, Co-Located with Heat Treat 2023 & Motion + Power Technology Expo, 2023

4.15 Arman Hasani, Shrikant Joshi, Antti Salminen, Sneha Goel, Joakim Reuteler, Malgorzata Grazyna Makowska, **Ashish Ganvir;** Advanced micro-characterization of suspension plasma sprayed multi-layer coatings for Solid-State Battery; in Thermal Spray of Suspensions & Solutions Symposium + EBCs 2023 (TS4E 2023), September 12–13, 2023, University West, Trollhättan, Sweden, 2023

4.16 Roland Axel Richtera, Gowtham Soundarapandiyanb, Vigneashwara Pandiyana, Sneha Goel, Ahmed Fardan, Camille Pauzon, Andaç OÖzsoy, **Ashish Ganvir**, Efthymios Polatidis, Eduard Hryha, Steven Van Petegem; Monitoring of cracking in nickel superalloys during Laser powder bed fusion process with acoustic emission and operando X-ray radiography; in Alloys for Additive Manufacturing Symposium, September 27th-29th, 2023, Universidad Carlos III de Madrid – "Puerta de Toledo" campus. Spain, 2023

4.17 Jan Capek; **Ashish Ganvir**; Tuomas Kantonen; Sneha Goel; Antti Salminen; Efthymios Polatidis; Microstructure and Deformation Behaviour of Microstructurally Manipulated Multi-Phase Laser Powder Bed Fusion 3D-printed Novel Low Nickel Steels: TMS 2023 152ND Annual Meeting & Exhibition, San Diego, California, USA, 19-23 March, 2023.

4.18 Karthikeyan Thalavai Pandian, Erik Lindgren, Magnus Neikter, **Ashish Ganvir**, Christoffer Brochs, Thomas Hansson, Robert Pederson; Defect detection using near-infrared images in Ti-6Al-4V manufactured by electron beam powder bed fusion; EBAM 2023, 22 – 24 March, Erlangen, Germany, 2023

4.19 **Ashish Ganvir**, Engineering the surfaces for sustainable industries, **Invited talk,** in UTU TECH Industry Affiliates Programme: Technology Industry, 16th May 2023, Turku, Finland

4.20 Abhinav Anand, Nikhil Kamboj, Devarajan Nagarajan, Rohit Kumar Gupta, **Ashish Ganvir**, Thermal post-treatment and material characterization of laser powder bed fusion additively manufactured Ti-6Al-4V; NOLAMP- Nordic Laser Materials Processing Conference (19TH-NOLAMP-2023), August 22 – 24, Turku, Finland, 2023

4.21 Erik Haapa, Aditya Gopaluni, Heidi Piili, **Ashish Ganvir**, Antti Salminen, Juha Ottelin; Validation of powder layering simulation via packing density measurement for laser-based powder bed fusion; NOLAMP- Nordic Laser Materials Processing Conference (19TH-NOLAMP-2023), August 22 – 24, Turku, Finland, 2023

4.22 Nikhil Kamboj, Aditya Gopaluni, Heidi Piili, **Ashish Ganvir**, Niko Moritz, Chinmayee Nayak, Bioinert ceramics scaffolds for bone tissue engineering by laser-based powder bed fusion: A mini-review; NOLAMP- Nordic Laser Materials Processing Conference (19TH-NOLAMP-2023), August 22 – 24, Turku, Finland, 2023

4.23 Saeid parchegani chozaki, Heidi Piili, **Ashish Ganvir**, Antti Salminen; Laser welding of additively manufactured parts; NOLAMP- Nordic Laser Materials Processing Conference (19TH-NOLAMP-2023), August 22 – 24, Turku, Finland, 2023

2022

4.24 **A. Ganvir**, "Additive and related layer-by-layer manufacturing processes at University of Turku" in laser forum, **Invited talk,** organized by Finnish Welding Society, September 7- 8, 2022 Hotelli Aquarius, Uusikaupunki, Finland, 2022

4.25 **A. Ganvir**, "Additive manufacturing at University of Turku" in Webinar on Materials Economy and AI, **Invited talk,** organized by Finnish Indian Consortia for Research and Education (FICORE), May 13, 2022, Finland, 2022

4.26 **A. Ganvir**, Additive manufacturing of next-generation solid-state-lithium-batteries, in seminar on Critical Materials in Circular Economy of Cities Academy Programme, **Invited talk,** organized by Academy of Finland, Helsinki, September 21-22, Helsinki, 2022

2021

4.27 **A. Ganvir**, "Additive Manufacturing and Surface Engineering" in Webinar on Breakfast with Professors, **Invited talk,** organized by City of Turku, Finland, May 21, 2021, Turku, Finland, 2021

2020

4.28 **A. Ganvir**, "Additive Manufacturing in Aerospace", **Invited talk,** in seminar on Additive Manufacturing, organized by Centre for Additive Manufacture – Metal (CAM2), Gothenburg, Sweden, February 27th, 2020

2019

4.29 W. Algenaid, **A. Ganvir**, S. Joshi, M. Gupta, "Influence of Microstructure on the Erosion Behavior of Suspension Plasma Sprayed Thermal Barrier Coatings" in International Thermal Spray Conference (May 26-29, 2019, Yokohama, Japan), Yokohama, Japan 2019

2018

4.30 **A. Ganvir**, N. Markocsan, K. Balani, S. Nagar, "Axial suspension plasma sprayed hydroxyapatite coatings: Understanding the relationship between process parameters,

microstructure and properties" in International Thermal Spray Conference (May 07-10, 2018, Orlando, Florida, USA), Orlando, USA 2018

4.31 N. Markocsan, S. Bjorklund, **A. Ganvir**, Axial Suspension Plasma Sprayed Titanium Oxide Coatings N. Markocsan, M. Gupta, Xin-Hai Li , B. Kellman, O. Aranke, A. Ganvir, "Effect of spray parameters on porosity and lifetime of suspension plasma sprayed thermal barrier coatings", in International Thermal Spray Conference (May 07-10, 2018, Orlando, Florida, USA), Orlando, USA 2018

4.32 **A. Ganvir**, R. Calinas, N. Markocsan, N. Curry, S. Joshi, "Evolution of microstructure in suspension plasma sprayed TBCs" in International Thermal Spray Conference (May 07-10, 2018, Orlando, Florida, USA), Orlando, USA 2018

2017

4.33 **A. Ganvir**, N. Markocsan, M. Gupta, R. F. Calinas, N. Vitorino, J. Ekberg, F. Lukac, "Influence of suspension characteristics on microstructure of axial suspension plasma sprayed coatings" in International Thermal Spray Conference (June 07–09, 2017, Düsseldorf, Germany), Düsseldorf, Germany, 2017

4.34 **A. Ganvir**, N. Markocsan, M. Gupta, R. Calinas "Understanding the functional performance of columnar TBCs produced by axial suspension plasma spraying", **Invited talk,** in Thermal Spray of Suspensions & Solutions Symposium (TS4) (September 13–17, 2017, GE Global research center, Niskayuna, USA), Niskayuna, NYC, USA, 2017

4.35 **A. Ganvir**, N. Markocsan, R. Vassen "Sintering behavior of columnar thermal barrier coatings produced by axial suspension plasma spraying" in European congress and exhibition on advanced materials and processes (EUROMAT), September 17–22, 2017, Thessaloniki, Greece

4.36 **A. Ganvir**, N. Markocsan, R. Vassen, S. Joshi "Sintering behavior of columnar thermal barrier coatings produced by axial suspension plasma spraying" in Material science and Technology (MS & T), October 8-12, 2017, Pittsburgh, Pennsylvania, USA

2015

4.37 **A. Ganvir**, N. Markocsan, P. Newbatt "Influence of Coating Morphology on Thermal Properties and Lifetime of Axial Suspension Plasma Sprayed Thermal Barrier Coatings" in Thermal Spray of Suspensions & Solutions Symposium (TS4), December 02 - 03, 2015, Montreal, Canada

2014

4.38 **A. Ganvir**, N. Curry, G. Sivakumar, N. Markocsan, S. Joshi, P. Nylén "New Thermal Barrier Coatings Using Fluid Feedstock Material" in 28th International Conference on Surface Modification Technologies (SMT28-2014), June, 16-18, 2014, Tampere, Finland

4.39 **A. Ganvir**, N. Markocsan, P. Nylén "Suspension plasma spraying: A potential technique to achieve unique microstructures for Thermal Barrier Coatings" in 6th International Workshop on Suspension and Solution Thermal Spraying (S2TS), October, 8-9, 2014, Tours, France

4.40 S. Goel, **A. Ganvir**, N. Markocsan “Image analysis of microstructural features of Suspension Plasma Sprayed coatings” in 6th Asian Thermal Spray Conference, November 24-26, 2014, Hyderabad, India

4.41 P. Nylén, N. Curry, **A. Ganvir**, N. Markocsan “Suspension Plasma Sprayed Thermal Barrier Coatings” in 6th Asian Thermal Spray Conference, November 24-26, 2014, Hyderabad, India