



# WORLD PM2024

13-17 October 2024  
YOKOHAMA, JAPAN

## Powder Metallurgy World Congress & Exhibition

"Make a better world with PM" WORLD PM2024 in YOKOHAMA, JAPAN

### Oral Presentation Award

Rasmus Gunnerek

Chalmers University of Technology

"Correlation between High Build Speed Process Parameters and Pore Characteristics of 316L Stainless Steel Manufactured by Powder Bed Fusion – Laser Beam"

Gerrit Hellenbrand

RWTH-Aachen University

"Stressability of PM-Gears under Consideration of Local Porosity"

Shota Kariya

Osaka university

"Basal Oriented Columnar Microstructure Formation in Laser Powder Bed Fusion Prepared  $\alpha$  Titanium Alloy"

Sofia Kazi

Chalmers University of Technology

"Changes in powder surface chemistry during reuse of pure copper in powder bed fusion-electron beam"

Philip Koenig

Ruhr University Bochum

"Nitrogen-Enhanced Martensitic Cr Steel: Advancing Strength, Corrosion Resistance, and Sustainability in Additive Manufacturing"



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### Oral Presentation Award

Takechika Nakamura

JFE Steel Corporation

"Prototype Evaluation of Axial Gap Motor with Soft Magnetic Composite Cores"

Janko Stajkovic

University of Innsbruck

"Advancing Tungsten LPBF with Pyrometry: Assessing Parameter Stability Using Dimensionless Numbers and Pyrometric Data"

Hanami Suzuki

Tokyo Metropolitan University

"Microstructure and high temperature mechanical properties of IN718 fabricated by Metal Injection Molding"

Yuan Wang

"National Taiwan University of Science and Technology, Auroral Sinter Metals CO, LTD.

Foundations and Innovations in Sintering Automation Control: Multidimensional Capacity Optimization and Visual Positioning"

Kenta Yamanaka

Tohoku University

"Electron-Beam Powder Bed Fusion of High-Carbon Co-Cr-Mo Alloys for Industrial Applications"