

Additively manufactured spoke-type permanent magnet rotors : Solutions to multidisciplinary design challenges and comparison with traditional design

Ajamloo, Akbar Mohammadi; **Tiismus, Hans; Kallaste, Ants**; Ibrahim, Mohamed N.; Sergeant, Peter IEEE transactions on energy conversion 2025 / 12 p. <http://doi.org/10.1109/TEC.2025.3619827> <https://ieeexplore.ieee.org/document/11197694>

Deformation and energy absorption studies on FBCC and FBCCz lattice structures with symmetrical density gradients produced by L-PBF of Ti-6Al-4V alloy

Jagadeesh, B.; Duraiselvam, Muthukannan; **Prashanth, Konda Gokuldoss** Materials today: proceedings 2024 / 6 p <https://doi.org/10.1016/j.matpr.2024.02.008>

Development of an axial flux SRM through additive manufacturing

Hussain, Shahid; Kallaste, Ants; Naseer, Muhammad Usman; Tiismus, Hans; Vaimann, Toomas 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p <https://doi.org/10.1109/ICEM60801.2024.10700569>

EBSO investigation of microstructure and microtexture evolution on additively manufactured TiC-Fe based cermets—Influence of multiple laser scanning

Maurya, Himanshu Singh; Vikram, R. J.; **Kumar, Rahul, 1993-**; Rahmani Ahranjani, Ramin; **Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss** Micron 2024 / art. 103613 <https://doi.org/10.1016/j.micron.2024.103613> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hierarchical microstructures and strengthening mechanisms of nano-TiC reinforced CoCrFeMnNi high-entropy alloy composites prepared by laser powder bed fusion

Chen, Hongyu; Kosiba, Konrad; Lu, Twen; Yao, Ning; Liu, Yang; Wang, Yonggang; **Prashanth, Konda Gokuldoss**; Suryanarayana, Challapalli Journal of Materials Science & Technology 2023 / p. 245-259 : ill <https://doi.org/10.1016/j.jmst.2022.06.053> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Load and temperature dependent sliding wear performance of Binder Jet 3D printed stainless-steel bonded cermet

Maurya, Himanshu Singh; Akhtar, F.; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2025 / p. 1199-1212 <https://doi.org/10.1016/j.jmrt.2025.06.095>

Manufacturability and deformation studies on a novel metallic lattice structure fabricated by Selective Laser Melting

Baskaran, Jagadeesh; Muthukannan, Duraiselvam; **Shukla, Riddhi Hirenkumar; Prashanth, Konda Gokuldoss** Vacuum 2024 / art. 113065 <https://doi.org/10.1016/j.vacuum.2024.113065> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Metallic multimaterials fabricated by combining additive manufacturing and powder metallurgy

Yadav, Mayank Kumar; Shukla, Riddhi Hirenkumar; Xi, Lixia; Wang, Zhi; **Prashanth, Konda Gokuldoss** Journal of composites science 2025 / art. 80 <https://doi.org/10.3390/jcs9020080>

Metal-metal interpenetrating phase composites: A review

Zhang, Zuyao; Wang, Zhi; Zhao, Qizhong; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2024 / art. 176951 <https://doi.org/10.1016/j.jallcom.2024.176951> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructural homogenization through laser remelting in an additively manufactured Ti-40Nb sample from elemental feedstock powders

Subramanian, Shangavi; Yadav, Mayank Kumar; Jayaraj, J.; Yangyang, Fan; Xi, Lixia; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2025 / p. 4305-4320 <https://doi.org/10.1016/j.jmrt.2025.08.203>

Microstructure and mechanical properties of NiTi-SS bimetallic structures built using wire arc additive manufacturing

Singh, Shalini; Jinoop, A. N.; Palani, Iyampuram Anand; Paul, Christ Prakash; Tomar, K. P.; **Prashanth, Konda Gokuldoss** Materials letters 2021 / art. 130499, 4 p. : ill <https://doi.org/10.1016/j.matlet.2021.130499> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructure and texture evolution during the manufacturing of in situ TiC-NiCr cermet through selective laser melting process

Aramian, Atefeh; Sadeghian, Zohreh; Wan, Di; **Holovenko, Yaroslav**; Razavi, Nima; Berto, Filippo Materials Characterization 2021 / art. 111289, 14 p. : ill <https://doi.org/10.1016/j.matchar.2021.111289> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modelling of magnetization processes of 3D-Printed Fe-Si components by means of an artificial neural network implemented in a FEM scheme

Stella, Marco; Faba, Antonio; Bertolini, Vittorio; Fulginei, F. Riganti; Sabino, Lorenzo; **Tiismus, Hans; Kallaste, Ants**; Cardelli, Ermanno 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p <https://doi.org/10.1109/ICEM60801.2024.10700301>

Modelling of magnetization processes of 3D-printed Fe-Si components by means of an artificial neural network implemented in a Finite Element Scheme

Stella, Marco; Faba, Antonio; Bertolini, Vittorio; Riganti-Fulginei, Francesco; Sabino, Lorenzo; **Tiismus, Hans; Kallaste, Ants;** Cardelli, Ermanno IEEE Open Journal of the Industrial Electronics Society 2025 / p. 1650-1662
<http://doi.org/10.1109/OJIES.2025.3620857> <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=11202631&tag=1>

A novel Ti-eggshell-based composite fabricated by combined additive manufacturing-powder metallurgical routes as bioimplants

Shukla, Riddhi Hirenkumar; Yadav, Mayank Kumar; Madruga, Liszt Yeltsin Coutinho; Jaymani, Jayraj; Popat, Ketul; Wang, Zhi; Xi, Lixia; **Prashanth, Konda Gokuldoss** Ceramics international 2024 / 11 p <https://doi.org/10.1016/j.ceramint.2024.12.073>

Preliminary design analysis of an axial flux yokeless stator switched reluctance machine

Hussain, Shahid; Kallaste, Ants; Naseer, Muhammad Usman; Sarap, Martin; Tiismus, Hans; Vaimann, Toomas 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p <https://doi.org/10.1109/RTUCON60080.2023.10413130>

Recent advances in additive manufacturing of refractory high entropy alloys (RHEAs): A critical review

Yarlapati, Akshaya; Aditya, Y. N.; Kumar, Deepak; Vikram, Raja Jothi; Yadav, Mayank Kumar; Reddy, Kallem Shekharf; **Prashanth, Konda Gokuldoss** Journal of alloys and metallurgical systems 2024 / art. 100120 <https://doi.org/10.1016/j.james.2024.100120> [Journal metrics at Scopus](#) [Article at Scopus](#)

Response of stress relieving and solution annealing treatment on tensile properties and fracture toughness of additively manufactured stainless steel 316L

Kumar, Deepak; Arya, Abhinav; Dutta, Shubhendu Anupam; Jhavar, Suyog; **Prashanth, Konda Gokuldoss;** Suwas, Satyam Journal of Materials Engineering and Performance 2025 / art. 145021 <https://doi.org/10.1007/s11665-025-11334-y>

Review of design freedom offered by additive manufacturing for performance enhancement of electrical machine

Ahmad, Zahoor; Kallaste, Ants; Vaimann, Toomas; Naseer, Muhammad Usman; Hussain, Shahid; Rassölkin, Anton IEEE Open Journal of the Industrial Electronics Society 2024 / p. 1300-1323 <https://doi.org/10.1109/OJIES.2024.3509547> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Review on nature-inspired interfaces and mechanical interlocking techniques in additively manufactured adhesively bonded joints

Hari Krishna, P.H.; DhilipKumar, Thulasidhas; Shankar, Karthik V.; Hariprasad, M.P.; Murali, Arun Prasad; El-Rayyes, Ali; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2025 / p. 998-1016 <https://doi.org/10.1016/j.jmrt.2025.09.150>

Study of axial flux stator structures in additive manufacturing material and soft magnetic composite

Pierluigi, Amoroso; Poskovic, Emir; **Tiismus, Hans;** Quercio, Michele; Ferraris, Luca; Tenconi, Alberto 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p <https://doi.org/10.1109/ICEM60801.2024.10700312>

06Cr15Ni4CuMo selective laser melted additive manufacturing technology steel : mechanical and tribological properties

Jayaraman, Maya; Sivaprasad, Katakam; Ravisankar, B.; **Prashanth, Konda Gokuldoss** Transactions of the Indian Institute of Metals 2025 / art. 208 <https://doi.org/10.1007/s12666-025-03658-z>

Wear behavior of selective laser melted 06Cr15Ni4CuMo steel

Maya, Jayaraman; Sivaprasad, Katakam; Ravisankar, B.; **Prashanth, Konda Gokuldoss** Transactions of the Indian Institute of Metals 2024 / p. 1795 - 1804 <https://doi.org/10.1007/s12666-023-03216-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)