

Cooling rate control combined with refractory Mo and/or V addition to enhance the mechanical properties of CoCrFeMnNi alloy

Gonzalez, Sergio; Garay-Reyes, Carlos Gamaliel; Martinez-Garcia, Alfredo; **Prashanth, Konda Gokuldoss**; Ruiz-Esparza-Rodriguez, Marco Antonio; Hurtado-Macias, Abel; Eckert, Juergen H.; Martinez-Sanchez, Roberto Journal of materials research and technology 2025 / p. 459-469 <https://doi.org/10.1016/j.jmrt.2025.03.074>

Cu-Ni-Sn alloy fabricated by melt spinning and selective laser melting: a comparative study on the microstructure and formation kinetics

Zhao, Chao; Wang, Zhi; Li, Daoxi; **Kollo, Lauri**; Luo, Zongqiang; Zhang, Weiwen; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2020 / p. 13097–13105 <https://doi.org/10.1016/j.jmrt.2020.09.047> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dissimilar welding of Al0.1CoCrFeNi high-entropy alloy and AISI304 stainless steel

Sokkalingam, Rathinavelu; Muthupandi, Veerappan; Sivaprasad, Katakam; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2019 / p. 2683-2694 : ill <https://doi.org/10.1557/jmr.2019.186> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electric properties of anorthite ceramics prepared from illitic clay and oil shale ash

Csaki, Štefan; Štubna, Igor; **Kaljuvee, Tiit**; Dobron, Patrik; Lukač, František; Trnik, Anton Journal of materials research and technology 2022 / p. 4164-4173 <https://doi.org/10.1016/j.jmrt.2022.11.030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Grain refinement in laser manufactured Al-based composites with TiB2 ceramic

Xi, Lixia; Guo, Shuang; Wang, Ruiqi; Ding, Kai; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2020 / p. 2611–2622 <https://doi.org/10.1016/j.jmrt.2020.04.059> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The influence of process parameters on the microstructure and properties of the TiC/Ti-alloy composites fabricated by the directed energy deposition process

Wang, Yongxia; Fan, Wei; Zhou, Fan; **Prashanth, Konda Gokuldoss**; Feng, Zhe; Zhang, Siyu; Tan, Hua; Lin, Xin Journal of materials research and technology 2025 / p. 164-174 <https://doi.org/10.1016/j.jmrt.2024.12.043>

Irradiation-induced atomic migration and its effect on the surface and mechanical properties of laser additive manufactured MWCNTs/Al–Mg–Sc–Zr composites

Xi, Lixia; Zhang, Yuting; Geng, Xiaofeng; Gu, Dongdong; Shi, Keyu; Ramasamy, Parthiban; **Prashanth, Konda Gokuldoss**; Eckert, Jürgen Journal of materials research and technology 2025 / p. 4043-4054 <https://doi.org/10.1016/j.jmrt.2025.02.109>

Lightweight 3D printed Ti6Al4V–AlSi10Mg hybrid composite for impact resistance and armor piercing shielding

Rahmani Ahranjani, Ramin; Antonov, Maksim; Brojan, Miha Journal of materials research and technology 2020 / p. 13842-13854 : ill <https://doi.org/10.1016/j.jmrt.2020.09.108> [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>

Microstructure and mechanical performances of NiCoFeAlTi high-entropy intermetallic reinforced CoCrFeMnNi high-entropy alloy composites manufactured by selective laser melting

Yang, Hong; Ma, Pan; Zhang, Zhiyu; Xie, Xiaochang; Yang, Ping; Zhang, Han; Jia, Yandong; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2024 / p. 6275-6287 <https://doi.org/10.1016/j.jmrt.2024.11.022>

Microstructure and mechanical properties of AlCoCrFeMnNi HEAs fabricated by selective laser melting

Ma, Pan; Fang, Yacheng; Wei, Shuimiao; Zhang, Zhiyu; Yang, Hong; Wan, Shiguang; **Prashanth, Konda Gokuldoss**; Jia, Yandong Journal of materials research and technology 2023 / p. 7090-7100 <https://doi.org/10.1016/j.jmrt.2023.07.124> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructure and metastable phase formation of Mo-added Ti6Al4V alloys under laser micro-alloying

Ye, Zimeng; Yu, Zerong; Zhao, Kexin; **Prashanth, Konda Gokuldoss**; Sun, Zhiping; Zeng, Dejun; Zhang, Hengxin; Liu, Sizhe; Zhang, Fengying Journal of materials research and technology 2025 / p. 785-795 <https://doi.org/10.1016/j.jmrt.2025.06.072>

Microstructure and tribological behavior of Al-12Si – Nano graphene composite fabricated by laser metal deposition process

Yang, Zhilu; Ma, Pan; Zhang, Nan; Yang, Dongye; **Prashanth, Konda Gokuldoss**; Jia, Yandong Journal of materials research and technology 2023 / p. 2311-2322 <https://doi.org/10.1016/j.jmrt.2023.10.095> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microwave synthesis of B4C nanopowder for subsequent spark plasma sintering

Davtyan, D.; Mnatsakanyan, R.A.; **Liu, Le**; **Aydinyan, Sofiya**; **Hussainova, Irina** Journal of materials research and technology 2019 / p. 5823-5832 : ill <https://doi.org/10.1016/j.jmrt.2019.09.052> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Obtaining strength-ductility combination in a laser additive manufactured (FeCoNi)₈₆Al₇Ti₇ high-entropy alloy at cryogenic temperature

Xie, K.; Fang, Y.; Ma, P.; Yang, H.; Wan, S.; **Prashanth, Konda Gokuldoss**; Gargarella, P.; Mu, Y.; Wang, G.; Jia, Y. Journal of materials research and technology 2025 / p. 819-831 <https://doi.org/10.1016/j.jmrt.2024.12.125>

Selective laser melting of a novel 13Ni400 maraging steel : material characterization and process optimization

Patil, Viraj Vishwas; Mohanty, Chinmaya P.; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2023 / p. 3979-3995 <https://doi.org/10.1016/j.jmrt.2023.10.193> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective laser melting of AlCoCrFeMnNi high entropy alloy : effect of heat treatment

Fang, Yacheng; Ma, Pan; Wei, Shuimiao; Zhang, Zhiyu; Yang, Dongye; Yang, Hong; Wan, Shiguang; **Prashanth, Konda Gokuldoss**; Jia, Yandong Journal of materials research and technology 2023 / p. 7845-7856 <https://doi.org/10.1016/j.jmrt.2023.09.121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solidification of Al-xCu alloy under high pressures

Liu, Xiao; Ma, Pan; Jia, Yandong; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2020 / p. 2983-2991 : ill <https://doi.org/10.1016/j.jmrt.2020.01.049> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Specific energy modeling of abrasive cut off operation based on sliding, plowing, and cutting

Awan, Muhammad Rizwan; Gonzalez-Rojas, Hernan Alberto; Perat Benavides, Jose I.; Hameed, Saqib; **Hussain, Abrar**; Sanchez Egea, Antonio J. Journal of materials research and technology 2022 / p. 3302-3310 <https://doi.org/10.1016/j.jmrt.2022.03.185> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis of Ni@SiO₂ and Co@SiO₂ nanomagnets after formation of NiO and Co₂O₃ nanoparticles at low temperatures using CaH₂

Volokhova, Maria; Boldin, Aleksei; Link, Joosep; Tsujimoto, Masahiko; Stern, Raivo; Seinberg, Liis Journal of materials research and technology 2022 / p. 988-992 : ill <https://doi.org/10.1016/j.jmrt.2021.12.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

ZrC+TiC synergically reinforced metal matrix composites with micro/nanoscale reinforcements prepared by laser powder bed fusion

Xi, Lixia; Feng, Lili; Gu, Dongdong; Wang, Ruiqi; Sarac, Baran; **Prashanth, Konda Gokuldoss**; Eckert, Jürgen Journal of materials research and technology 2022 / p. 4645-4657 <https://doi.org/10.1016/j.jmrt.2022.06.149> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thermal deformation behavior and microstructural evolution of the rapidly-solidified Al–Zn–Mg–Cu alloy in hot isostatic pressing state

Zhang, Z.; Cong, H.; Yin, Z.; Qi, B.; Dong, Y.; Kong, L.; Li, H.; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2024 / p. 5927-5939 <https://doi.org/10.1016/j.jmrt.2024.04.235>

Wear behaviour of Cr₃C₂-Ni cermet reinforced hardfacings

Bendikiene, Regita; Ciuplys, Antanas; Sertvytis, Rolandas; **Surženkov, Andrei**; **Tkachivskyi, Dmytro**; **Viljus, Mart**; **Traksmas, Rainer**; **Antonov, Maksim**; **Kulu, Priit** Journal of materials research and technology 2020 / p. 7068-7078 : ill <https://doi.org/10.1016/j.jmrt.2020.05.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Wear mechanisms of PM-HIP tool steels under low and high-stress abrasion : role of carbide type and content

Kumar, Rahul, 1993-; **Antonov, Maksim**; Berglund, Tomas; **Pampori, Tabeen Halawat**; Maurya, Himanshu Singh; **Viljus, Mart** Journal of materials research and technology 2025 / p. 7016-7025 <https://doi.org/10.1016/j.jmrt.2025.04.317>