

**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**

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**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>

**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 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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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**

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## Microwave synthesis of B4C nanopowder for subsequent spark plasma sintering

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

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## Phase and microstructure evolution patterns at combustion synthesis of high-entropy M2AlC (M=Ti/Ta/V/Nb/Cr) MAX phase

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

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

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

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## Solidification of Al-xCu alloy under high pressures

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

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## 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

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

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## 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

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**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**  
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