

**Additive manufacturing : alloy design and process innovations**

**Prashanth, Konda Gokuldoss**; Wang, Zhi Materials 2020 / art. 542, 2 p <https://doi.org/10.3390/ma13030542> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Additive manufacturing : alloy design and process innovations**

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**Additive manufacturing : alloy design and process innovations**

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**Additive manufacturing and allied technologies**

Sivaprasad, Katakam; Ramesh Babu, Amarapuram; **Prashanth, Konda Gokuldoss** Transactions of the Indian Institute of Metals 2023 / p. 269 <https://doi.org/10.1007/s12666-023-02892-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Additive manufacturing and allied technologies**

Sivaprasad, Katakam; Ramesh Babu, Nagumothu; **Prashanth, Konda Gokuldoss** International Journal of Materials Research = Zeitschrift für Metallkunde 2023 / p. 823 <https://doi.org/10.1515/ijmr-2023-3011>

**Additive manufacturing of a martensitic Co–Cr–Mo alloy : Towards circumventing the strength–ductility trade-off**

Wang, Zhi; Tang, S.Y.; Scudino, Sergio; Ivanov, Y.P.; Qu, R.T.; Wang, D.; Yang, C.; Zhang, W.W.; Greer, A.L.; Eckert, Juergen H.; **Prashanth, Konda Gokuldoss** Additive Manufacturing 2021 / art. 101725 <https://doi.org/10.1016/j.addma.2020.101725> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Additive manufacturing of aluminum-based metal matrix composites - a review**

Tang, Shengyang; Ummethala, Raghunandan; Suryanarayana, Challapalli; Eckert, Jürgen; **Prashanth, Konda Gokuldoss**; Wang, Zhi Advanced engineering materials 2021 / 2100053 <https://doi.org/10.1002/adem.202100053>

**Additive manufacturing of CMCs with bimodal microstructure**

**Maurya, Himanshu Singh**; Vikram, R. J.; Kosiba, Konrad; **Juhani, Kristjan**; **Sergejev, Fjodor**; Suwas, Satyam; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 168416, 5 p. : ill <https://doi.org/10.1016/j.jallcom.2022.168416> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Additive manufacturing of CoCrFeMnNi high-entropy alloy/AISI 316L stainless steel bimetallic structures**

Sokkalingam, Rathinavelu; Chao, Zhao; Sivaprasad, Katakam; Muthupandi, Veerappan; Jayaraj, Jayamani; Ramasamy, Parthiban; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Advanced engineering materials 2023 / art. 2200341 <https://doi.org/10.1002/adem.202200341> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Additive manufacturing of cryogenic chemically complex alloys with sponge bone-like reticular nanoscale superstructure**

**Xie, Kaiqiang**; Ma, Pan; Fang, Yacheng; Yang, Hong; Wan, Shiguang; Wu, Zhibin; **Shi, Jinqiang**; **Prashanth, Konda Gokuldoss**; Gargarella, Piter; Zhang, Lunyong Composites Part B : Engineering 2025 / art. 112786 <https://doi.org/10.1016/j.compositesb.2025.112786>

**Additive manufacturing of high-entropy alloys**

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**Additive manufacturing of TiC-based cermet with stainless steel as a binder material**

**Maurya, Himanshu Singh**; **Juhani, Kristjan**; **Sergejev, Fjodor**; **Prashanth, Konda Gokuldoss** Materials today: proceedings 2022 / p. 824-828 <https://doi.org/10.1016/j.matpr.2022.02.428> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Additive manufacturing of TiC-based cermets : a detailed comparison with spark plasma sintered samples**

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**Aluminum matrix composites reinforced with metallic glass particles with core-shell structure**

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### **Annealing of Al-Zn-Mg-Cu alloy at high pressures : evolution of microstructure and the corrosion behavior**

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### **Balloon expandable coronary stent materials : a systematic review focused on clinical success**

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### **Binder jetting 3D printing of green TiC-FeCr based cermets- Effect of sintering temperature and systematic comparison study with Laser powder bed fusion fabricated parts**

**Maurya, Himanshu Singh**; Marczyk, J.; Juhani, Kristjan; Sergejev, Fjodor; Kumar, R.; Hussain, Abrar; Akhtar, F.; Hebda, M.; **Prashanth, Konda Gokuldoss** Materials Today Advances 2025 / art. 100562 <https://doi.org/10.1016/j.mtadv.2025.100562>

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### **Biomorphic porous Ti6Al4V gyroid scaffolds for bone implant applications fabricated by selective laser melting**

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### **Characterization of gas-atomized equiatomic AlCoCrFeNi powder for additive manufacturing**

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### **Circumventing Solidification Cracking Susceptibility in Al–Cu Alloys Prepared by Laser Powder Bed Fusion**

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### **CoB-TiB2 crystalline powders : Synthesis, microstructural analysis and their utilization as reinforcement agent**

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### **Comparative investigation of microstructure, mechanical properties and strengthening mechanisms of Al-12Si/TiB2 fabricated by selective laser melting and hot pressing**

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### **Comparison of additively manufacturing samples fabricated from pre-alloyed and mechanically mixed powders**

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### **Control of texture and microstructure in additive manufacturing of stainless steel 316L**

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

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**Corrosion behavior of 17–4 PH stainless steel manufactured by laser powder bed fusion: Effect of graphene coating and heat-treatment**

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**Creep and high temperature fatigue performance of as build selective laser melted Ti-based 6Al-4V titanium alloy**

Viespoli, Luigi Mario; Bressan, Stefano; Itoh, Takamoto; Hiyoshi, Noritake; **Prashanth, Konda Gokuldoss**; Berto, Filippo Engineering failure analysis 2020 / art. 104477, 9 p. : ill <https://doi.org/10.1016/j.engfailanal.2020.104477> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Crystallization and growth kinetics of Zr65Cu25Ni5Ag2.5Al2.5 glass**

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

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

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**Densification of the eggshell powder by spark plasma sintering**

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**Densification of the eggshell powder by spark plasma sintering**

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**Design of next generation alloys for additive manufacturing**

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**Development of Cu-based shape memory alloy through selective laser melting from elemental powder mixture: Processing and characterization**

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

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### **Dissimilar welding of high-entropy alloy to Inconel 718 superalloy for structural applications**

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### **EBSID 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](#)

### **Editorial : Fundamentals and challenges of advanced amorphous and high-entropy alloys**

Song, Kaikai; Huang, Yongjiang; Li, Ran; Qiao, Jichao; Wang, Zhi; **Prashanth, Konda Gokuldoss**; **Sopu, Daniel** Frontiers in materials 2022 / art. 874556, 3 p. : ill <https://doi.org/10.3389/fmats.2022.874556> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effect of electrolyte composition on the surface characteristics of plasma electrolytic oxidation coatings over Ti40Nb alloy**

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### **Effect of Grain Size Distribution on Frictional Wear and Corrosion Properties of (FeCoNi)86Al7Ti7 High-Entropy Alloys**

Sun, Qinhui; Ma, Pan; Yang, Hong; Xie, Kaiqiang; Wan, Shiguang; Sheng, Chunqi; Chen, Zhibo; Yang, Hongji; Jia, Yandong; **Prashanth, Konda Gokuldoss** Entropy 2025 / art. 747 <https://doi.org/10.3390/e27070747>

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### **Effect of lattice surface treatment on performance of hardmetal - titanium interpenetrating phase composites**

**Holovenko, Yaroslav**; Kollo, Lauri; **Saarna, Mart**; **Rahmani Ahranjani, Ramin**; Solovieva, Tetiana; **Antonov, Maksim**; **Prashanth, Konda Gokuldoss**; Cygan, Slawomir; **Veinthal, Renno** International journal of refractory metals and hard materials 2020 / art. 105087, 10 p. : ill <https://doi.org/10.1016/j.ijrmhm.2019.105087> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effect of nanoparticles on morphology and size of primary silicon and property of selective laser melted Al-high Si content alloys**

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### **Effect of NiCoFeAlTi high entropy intermetallic reinforcement particle size on the microstructure and mechanical properties of CoCrFeMnNi high-entropy alloy composites fabricated by selective laser melting**

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### **Effect of powder bed preheating on the crack formation and microstructure in ceramic matrix composites fabricated by laser powder-bed fusion process**

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**Effect of preheating and cooling of the powder bed by laser pulse shaping on the microstructure of the TiC based cermets**

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**Effect of process parameters on the properties of  $\beta$ -Ti-Nb-based alloys fabricated by selective laser melting: A review**

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**Effect of scanning speed on mechanical, corrosion, and fretting-tribocorrosion behavior of austenitic 316L stainless steel produced by laser powder bed fusion process**

Uva Narayanan, Chellaiya; Daniel, Ashish; Praveenkumar, Kesavan; Manivasagam, Geetha; Suwas, Satyam; **Prashanth, Konda Gokuldoss**; Suya Prem Anand, Pandaravadivoo Journal of Manufacturing Processes 2024 / p. 1582-1593 <https://doi.org/10.1016/j.jmapro.2024.09.108> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of scanning strategy on microstructure and texture evolution in a selective laser melted Al-33Cu eutectic alloy**

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