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
2020 https://doi.org/10.3390/books978-3-03928-353-8

Additive manufacturing : alloy design and process innovations
2020 https://doi.org/10.3390/books978-3-03928-415-3

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
Karimi, Javad; **Kamboj, Nikhil Kumar**; **Prashanth, Konda Gokuldoss** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p http://fmtdk.ut.ee/teesid-2019/

Additive manufacturing of Mo-Mo(x)S(x+1) functional structures : engineering and electrochemical applications = Lisandustehnoloogia teel valmistatud Mo-Mo(x)S(x+1) funktsionaalsed struktuurid inseneri- ja elektrokeemilistele rakendustele
Alinejadian, Navid 2022 https://doi.org/10.23658/taltech.43/2022 https://digikogu.taltech.ee/et/Item/636a0175-ae97-4a28-a2a1-c3b75c7c1eb6 https://www.ester.ee/record=b5511559*est

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
Maurya, Himanshu Singh; Jayaraj, Jayamani; Vikram, Raja Jothi; **Juhani, Kristjan**; **Sergejev, Fjodor**; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 170436 https://doi.org/10.1016/j.jallcom.2023.170436 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Aluminum matrix composites reinforced with metallic glass particles with core-shell structure
Guana, H.D.; Lia, C.J.; Gaoa, P.; **Prashanth, Konda Gokuldoss** Materials science and engineering : A 2020 / art. 138630, 5 p. : ill https://doi.org/10.1016/j.msea.2019.138630 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Annealing of Al-Zn-Mg-Cu alloy at high pressures : evolution of microstructure and the corrosion behavior
Suo, Chuanjun; Ma, Pan; Jia, Yandong; Liu, Xiao; Shi, Xuerong; Yu, Zhishui; **Prashanth, Konda Gokuldoss** Materials 2021 / art. 2076, 17 p. : ill https://doi.org/10.3390/ma14082076 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Balloon expandable coronary stent materials : a systematic review focused on clinical success
Vishnu, Jithin; Manivasagam, Geetha; Mantovani, Diego; **Prashanth, Konda Gokuldoss** In vitro models 2022 / p. 151-175 https://doi.org/10.1007/s44164-022-00009-w

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

Bioceramic scaffolds by additive manufacturing for controlled delivery of the antibiotic vancomycin
Kamboj, Nikhil Kumar; Rodriguez, Miguel Angel; **Rahmani Ahranjani, Ramin**; **Prashanth, Konda Gokuldoss**; **Hussainova, Irina** Proceedings of the Estonian Academy of Sciences 2019 / p. 185–190 : ill https://doi.org/10.3176/proc.2019.2.10 http://www.kirj.ee/public/proceedings_pdf/2019/issue_2/proc-2019-2-185-190.pdf Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Biomorphic porous Ti6Al4V gyroid scaffolds for bone implant applications fabricated by selective laser melting
Hameed, Pearlin; Liu, Chia-Fei; Ummethala, Raghunandan; Singh, Neera; Huang, Her-Hsiung; Manivasagam, Geetha; **Prashanth, Konda Gokuldoss** Progress in additive manufacturing 2021 / p. 455–469 : ill https://doi.org/10.1007/s40964-021-00210-5 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Characterization of gas-atomized equiatomic AlCoCrFeNi powder for additive manufacturing
Karimi, Javad; **Kollo, Lauri**; **Prashanth, Konda Gokuldoss** Metallurgical and materials transactions A : Physical metallurgy and materials science 2023 / p. 3417-3424 : ill https://doi.org/10.1007/s11661-023-07129-2 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Circumventing Solidification Cracking Susceptibility in Al–Cu Alloys Prepared by Laser Powder Bed Fusion
Xi, Lixia; Lu, Qiuyang; Gu, Dongdong; Cao, Shaoting; Zhang, Han; Kaban, Ivan; Sarac, Baran; **Prashanth, Konda Gokuldoss**; Eckert, Jürgen 3D Printing and Additive Manufacturing 2024 / p. E731 - E742 https://doi.org/10.1089/3dp.2022.0207 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

CoB-TiB2 crystalline powders : Synthesis, microstructural analysis and their utilization as reinforcement agent
Khoshsima, Sina; Altıntas, Zerrin; Burkhardt, Ulrich; Schmidt, Marcus; **Prashanth, Konda Gokuldoss**; Somer, Mehmet; Balci, Özge Advanced powder technology 2020 / p. 2964-2972 https://doi.org/10.1016/j.apt.2020.05.026 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparative investigation of microstructure, mechanical properties and strengthening mechanisms of Al-12Si/TiB2 fabricated by selective laser melting and hot pressing
Xi, L. X.; Zhang, H.; Wang, P.; Li, H.C.; **Prashanth, Konda Gokuldoss** Ceramics international 2018 / p. 17635-17642 : ill https://doi.org/10.1016/j.ceramint.2018.06.225 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of additively manufacturing samples fabricated from pre-alloyed and mechanically mixed powders
Zhao, Chao; Wang, Zhi; Li, Daoxi; Xie, Meishen; **Kollo, Lauri**; Luo, Zongqiang; Zhang, Weiwen; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2020 / art. 154603, 5 p. : ill https://doi.org/10.1016/j.jallcom.2020.154603 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of the microstructures and mechanical properties of TI6AL4V fabricated by electron beam melting, spark plasma sintering, and selective laser remelting
Karimi, Javad; **Prashanth, Konda Gokuldoss** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 39 http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

Competition between densification and microstructure of functional materials by Selective Laser Melting
Singh, Neera; **Ummethala, Raghunandan**; Hameed, Pearlin; Sokkalingam, Rathinavelu; **Prashanth, Konda Gokuldoss** Material design & processing communications 2020 / art. e146, 7 p. : ill https://doi.org/10.1002/mdp2.146 Journal metrics at Scopus Article at Scopus

A comprehensive review on development of waste derived hydroxyapatite (HAp) for tissue engineering application
Kumar Yadav, Mayank; **Shukla, Riddhi Hirenkumar**; **Prashanth, Konda Gokuldoss** Materials today: proceedings 2023 / 7 p. : ill https://doi.org/10.1016/j.matpr.2023.04.669

Control of texture and microstructure in additive manufacturing of stainless steel 316L
Kumar, Deepak; Shankar, Gyan; **Prashanth, Konda Gokuldoss**; Suwas, Satyam Journal of alloys and compounds / art. 173040 https://doi.org/10.1016/j.jallcom.2023.173040

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

Corrosion behavior of 17–4 PH stainless steel manufactured by laser powder bed fusion: Effect of graphene coating and heat-treatment
Maharana, P.; Sahu, D. K.; Sahoo, D.; Mallik, A.; Mishra, S.; Ramakrishna, M.; **Prashanth, Konda Gokuldoss**; Gollapudi, S. Materials today communications 2024 / art. 111098 https://doi.org/10.1016/j.mtcomm.2024.111098

Crack formation and control in an AlCoCrFeNi high entropy alloy fabricated by selective laser melting
Wei, Shuimiao; Ma, Pan; Fang, Yacheng; Zhang, Zhiyu; Yang, Zhilu; Shi, Xuerong; **Prashanth, Konda Gokuldoss** 3D Printing and Additive Manufacturing 2024 / p. E628 - E637 https://doi.org/10.1089/3dp.2022.0142 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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
Prashanth, Konda Gokuldoss Material design & processing communications 2020 / art. e137, 10 p. : ill https://doi.org/10.1002/mdp2.137 Journal metrics at Scopus Article at Scopus

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

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

Deformation behavior of metallic lattice structures with symmetrical gradients of porosity manufactured by metal additive manufacturing
Jagadeesh, B.; Duraiselvam, Muthukannan; **Prashanth, Konda Gokuldoss** Vacuum 2023 / art. 111955 https://doi.org/10.1016/j.vacuum.2023.111955 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Densification of the eggshell powder by spark plasma sintering
Shukla, Riddhi Hirenkumar; Sokkalingam, Rathinavelu; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 171079 https://doi.org/10.1016/j.jallcom.2023.171079 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Densification of the eggshell powder by spark plasma sintering
Shukla, Riddhi Hirenkumar; **Rathinavelu, Sokkalingam**; **Kollo, Lauri**; **Prashanth, Konda Gokuldoss** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 56 l. Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

Design of nextIgeneration alloys for additive manufacturing
Prashanth, Konda Gokuldoss Material design & processing communications 2019 / art. 1e50, 4 p. : ill https://doi.org/10.1002/mdp2.50

Development of Cu-based shape memory alloy through selective laser melting from elemental powder mixture: Processing and characterization
Singh, Shalini; Palani, I. A.; Dehgahi, Shirin; Qureshi, A. J.; Jinoop, A. N.; Paul, C. P.; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 171029 https://doi.org/10.1016/j.jallcom.2023.171029 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Development of Ti-eggshell composite for bio-implants applications = Ti-munakoore komposiidi väljatöötamine bioimplantaatide rakenduste jaoks
Shukla, Riddhi Hirenkumar 2025 https://www.ester.ee/record=b5730420*est https://digikogu.taltech.ee/et/Item/e2ae3e2f-5df1-47bb-ac63-a3f64e703685 https://doi.org/10.23658/taltech.10/2025

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

Dissimilar welding of high-entropy alloy to Inconel 718 superalloy for structural applications
Sokkalingam, Rathinavelu; Pravallika, B; Sivaprasad, Katakam; Muthupandi, Veerappan; **Prashanth, Konda Gokuldoss** Journal of materials research 2022 / p. 272-283 https://doi.org/10.1557/s43578-021-00352-w Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

EBSD 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
Lokeshkumar, E.; Premchand, C.; Palanivel, Manojkumar; Shishir, R.; Krishna, L. Rama; **Prashanth, Konda Gokuldoss**; Rameshbabu, Nagumothu Surface and coatings technology 2023 / art. 129591 https://doi.org/10.1016/j.surfcoat.2023.129591 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of interlayer delay on the microstructure and mechanical properties of wire arc additive manufactured wall structures
Singh, Shalini; Jinoop, Arackal Narayanan; Tarun Kumar, Gorlea Thrinadh Ananthvenkata; Palani, Iyamperumal Anand; Paul, Christopher R. C.; **Prashanth, Konda Gokuldoss** Materials 2021 / art. 4187, 13 p. : ill https://doi.org/10.3390/ma14154187 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of lattice surface treatment on performance of hardmetal - titanium interpenetrating phase composites
Holovenko, Yaroslav; **Kollo, Lauri**; **Saarna, Mart**; **Rahmani Ahranjani, Ramin**; Soloviova, 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
Xi, Lixia; Guo, Shuang; **Prashanth, Konda Gokuldoss**; **Sarac, Baran**; **Eckert, Jürgen** Vacuum 2021 / art. 110405 https://doi.org/10.1016/j.vacuum.2021.110405 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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
Zhang, Zhiyu; Ma, Pan; Fang, Yacheng; Yang, Zhilu; Zhang, Nan; **Prashanth, Konda Gokuldoss**; Jia, Yandong Journal of alloys and compounds 2023 / art. 169417 https://doi.org/10.1016/j.jallcom.2023.169417 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of powder bed preheating on the crack formation and microstructure in ceramic matrix composites fabricated by laser powder-bed fusion process
Maurya, Himanshu Singh; Kosiba, Konrad; **Juhani, Kristjan**; **Sergejev, Fjodor**; **Prashanth, Konda Gokuldoss** Additive manufacturing 2022 / art. 103013, 13 p. : ill https://doi.org/10.1016/j.addma.2022.103013 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of powder characteristic and aging treatment on the corrosion behavior of selective laser melted Al-20Si alloy
Ma, Pan; Zhang, Zhiyu; Ke, Yu; Yang, Shuhao; Deng, Kun; Cheng, Peng; Chen, Hongdian; **Prashanth, Konda Gokuldoss** Transactions of the Indian Institute of Metals 2022 / p. 2367-2377 https://doi.org/10.1007/s12666-022-02548-y Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of precipitation heat treatment on a mechanically alloyed Al-based composite reinforced with metallic glassy powder
Deng, Guiying; Wang, Zhi; Hu, Yuan; Zhao, Qizhong; Zhang, Weiwen; Yang, Chao; Li, Liejun; **Prashanth, Konda Gokuldoss**; Suryanarayana, Challapalli Advanced engineering materials 2024 / 10 p https://doi.org/10.1002/adem.202401075

Effect of preheating and cooling of the powder bed by laser pulse shaping on the microstructure of the TiC based cermets
Maurya, Himanshu Singh; **Kollo, Lauri**; **Juhani, Kristjan**; **Sergejev, Fjodor**; **Prashanth, Konda Gokuldoss** Ceramics international 2022 / p. 20612-20618 https://doi.org/10.1016/j.ceramint.2022.04.029 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of process parameters on the properties of β-Ti-Nb-based alloys fabricated by selective laser melting: A review
Subramanian, Shangavi; **Mohanty, Shalini**; **Prashanth, Konda Gokuldoss** Materials today: proceedings 2023 https://doi.org/10.1016/j.matpr.2023.03.461 Journal metrics at Scopus Article at Scopus

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

Effect of scanning strategy on microstructure and texture evolution in a selective laser melted Al-33Cu eutectic alloy
Vikram, R. J.; Gokulnath, S. A.; **Prashanth, Konda Gokuldoss**; Suwas, Satyam Journal of alloys and compounds 2023 / art. 168098, 10 p. : ill https://doi.org/10.1016/j.jallcom.2022.168098 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of selective laser melting process parameters on microstructural and mechanical properties of TiC–NiCr cermet
Aramian, Atefeh; Sadeghian, Zohreh; Razavi, Seyed Mohammad J.; **Prashanth, Konda Gokuldoss**; Berto, Filippo Ceramics international 2020 / p. 28749-28757 https://doi.org/10.1016/j.ceramint.2020.08.037 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of substrate plate heating on the microstructure and properties of selective laser melted Al-20Si-5Fe-3Cu-1Mg alloy
Ma, Pan; Ji, Pengcheng; Jia, Yandong; Shi, Xuerong; Yu, Zhishui; **Prashanth, Konda Gokuldoss** Materials 2021 / art. 330 https://doi.org/10.3390/ma14020330 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of the laser processing parameters on the selective laser melting of TiC–Fe-based cermets
Maurya, Himanshu Singh; **Kollo, Lauri**; **Tarraste, Marek**; **Juhani, Kristjan**; **Sergejev, Fjodor**; **Prashanth, Konda Gokuldoss** Journal of manufacturing and materials processing 2022 / art. 35, 11 p. : ill https://doi.org/10.3390/jmmp6020035 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of TiB2 addition on the mechanical and biological response of spark plasma sintered Ti6Al7Nb matrix composites
Singh, Neera; Ummethala, Raghunandan; Surreddi, Kumar Babu; Jayaraj, Jayamani; **Sokkalingam, Rathinavelu**; Rajput, Monika; Chatterjee, Kaushik; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2022 / art. 166502 https://doi.org/10.1016/j.jallcom.2022.166502 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of TiB2 particles on microstructure and crystallographic texture of Al-12Si fabricated by selective laser melting
Xi, L.; Wang, P.; **Prashanth, Konda Gokuldoss**; Li, H. Journal of alloys and compounds 2019 / p. 551-556 : ill https://doi.org/10.1016/j.jallcom.2019.01.327 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of wear debris entrapment on the tribological performance of AlCoCrFeNi produced by selective laser melting or spark plasma sintering
Karimi, Javad; **Antonov, Maksim**; **Prashanth, Konda Gokuldoss** Metallurgical and materials transactions A : Physical metallurgy and materials science 2022 / p. 4004-4010 https://doi.org/10.1007/s11661-022-06805-z Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Electrochemical analysis of friction welded 17-4 PH stainless steel components manufactured by selective laser melting
Dinesh, Lanka; Nitheesh Kumar, R.; **Prashanth, Konda Gokuldoss**; Sivaprasad, K. International journal on interactive design and manufacturing 2023 / 8 p. : ill https://doi.org/10.1007/s12008-023-01659-0 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Electrochemical merits of selective laser melted Mo/MoS2 composite in aqueous solutions
Alinejadian, Navid; Kazemi, Sayed Habib; **Kollo, Lauri**; **Grossberg-Kuusk, Maarja**; Odnevall, Inger Charlotta; **Prashanth, Konda Gokuldoss** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 7 l. Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

Electroless Ni-P-MoS2-Al2O3 composite coating with hard and self-lubricating properties
Mohanty, Shalini; Jamal, Naghma; Das, Alok Kumar; **Prashanth, Konda Gokuldoss** Materials 2022 / art. 6806 https://doi.org/10.3390/ma15196806 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Electron beam melting of (FeCoNi)86Al7Ti7 high-entropy alloy
Peng, Cong; Jia, Yandong; Liang, Jian; Xu, Long; Wang, Gang; Mu, Yongkun; Sun, Kang; Ma, Pan; **Prashanth, Konda Gokuldoss**

Journal of alloys and compounds 2023 / art. 170752 https://doi.org/10.1016/j.jallcom.2023.170752 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Electron-beam welding of high-entropy alloy and stainless steel: microstructure and mechanical properties
Sokkalingam, Rathinavelu; Mastanaiah, P.; Muthupandi, Veerappan; Sivaprasad, Katakam; **Prashanth, Konda Gokuldoss** Materials and manufacturing processes 2020 / p. 1885-1894 https://doi.org/10.1080/10426914.2020.1802045 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Enhancing the tensile properties of laser repairing Ti-6Al-4V alloys: Optimization of strain distribution based on composition fine-turning
Zhang, H.; Wang, G.; Yang, S.; Wang, N.; **Prashanth, Konda Gokuldoss**; Ye, Z.; Zhao, K.; Zhang, F.; Tan, H. Journal of Materials Science & Technology 2024 / p. 1-11 https://doi.org/10.1016/j.jmst.2024.02.065

Evaluating the microstructural formation in Mo added Ti6Al4V alloy fabricated by direct energy deposition using a laser-stop strategy
Ye, Z.; Yu, Z.; Gao, P.; **Prashanth, Konda Gokuldoss**; Zhang, F.; Zhao, K.; Tan, H. Additive Manufacturing 2024 / art. 104226 https://doi.org/10.1016/j.addma.2024.104226

Evaluation of fatigue crack growth rates and fracture toughness in a selective laser-melted Ti-5.6Al-3.8V alloy with optimized microstructure after heat treatment
He, Yuqi; **Zhao, Kexin**; **Zhang, Ying**; **Prashanth, Konda Gokuldoss**; **Ye, Zimeng**; **Yu, Zerong**; **Zhang, Fengying** Materials science and engineering : A 2025 / art. 147822 https://doi.org/10.1016/j.msea.2025.147822

Evolution of microstructure and mechanical properties of LM25–HEA composite processed through stir casting with a bottom pouring system
Chinababu, Mekala; Krishna, Nandivelegu Naga; Sivaprasad, Katakam; **Prashanth, Konda Gokuldoss**; Bhaskara, Eluri Materials 2022 / art. 230 https://doi.org/10.3390/ma15010230 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Evolution of site-specific solidification microstructure and texture during additive manufacturing of stainless steel 316L by laser powder bed fusion
Kumar, Deepak; Aditya, Yarlapati Naga; **Prashanth, Konda Gokuldoss**; Suwas, Satyam Materials Characterization 2025 / art. 114971 https://doi.org/10.1016/j.matchar.2025.114971

Face centered cubic titanium in high pressure torsion processed carbon nanotubes reinforced titanium composites
Li, F. X.; Chen, P.; Chen, Z.; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2019 / p. 939-945 : ill https://doi.org/10.1016/j.jallcom.2019.07.277 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Feedstock preparation, microstructures and mechanical properties for laser-based additive manufacturing of steel matrix composites
Chen, Hongyu; Kosiba, Konrad; Suryanarayana, Challapalli; Lu, Tiwen; Liu, Yang; Wang, Yonggang; **Prashanth, Konda Gokuldoss** International materials reviews 2023 / p. 1192-1244 https://doi.org/10.1080/09506608.2023.2258664 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Fiber laser welded cobalt super alloy L605 : optimization of weldability characteristics
Prasad, B. Hari; Madhusudhan Reddy, G.; Das, Alok Kumar; **Prashanth, Konda Gokuldoss** Materials 2022 / art. 7708 https://doi.org/10.3390/ma15217708 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Forming ability of the WC-based ceramic metal composites with different Fe-based binders by unique laser beam modulation
Maurya, Himanshu Singh; **Juhani, Kristjan**; **Sergejev, Fjodor**; **Kumar Yadav, Mayank**; **Hussain, Abrar**; **Prashanth, Konda Gokuldoss** Next Materials 2025 / art. 100524 https://doi.org/10.1016/j.nxmate.2025.100524

Friction welding of electron beam melted Ti-6Al-4V
Qin, P.T.; Damodaram, R.; Maity, Tapabrata; Zhang, W.W.; Yang, C.; Wang, Zhi; **Prashanth, Konda Gokuldoss** Materials Science and Engineering : A 2019 / art. 138045, 6 p. : ill https://doi.org/10.1016/j.msea.2019.138045 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Frictional wear and corrosion behavior of AlCoCrFeNi high-entropy alloy coatings synthesized by atmospheric plasma spraying
Mu, Yongkun; Zhang, Liangbo; Xu, Long; **Prashanth, Konda Gokuldoss**; Zhang, Nizhen; Ma, Xindi; Jia, Yuefei; Xu, Yulai; Jia, Yandong; Wang, Gang Entropy 2020 / art. 740 https://doi.org/10.3390/e22070740 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

Hardness, corrosion behavior, and microstructural characteristics of a selective laser melted 17-4 PH steel : technical note
Chaitanya, P.; Goud, R.; Raghavan, R.; Ramakrishna, M.; **Prashanth, Konda Gokuldoss**; **Gollapudi, S.** CORROSION : The Journal of Science and Engineering 2022 / p. 465-472 https://doi.org/10.5006/3962 Journal metrics at Scopus Article at scopus Journal metrics at WOS Article at WOS

Heat treatment and laser shock peening of AlSi10Mg alloy produced by selective laser melting : microstructure, hardness and residual stress analysis
Babalou, Reza; Azarbarmas, Morteza; **Prashanth, Konda Gokuldoss** Materials today communications 2025 / art. 112408 https://doi.org/10.1016/j.mtcomm.2025.112408

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

High pressure torsion induced lowering of Young's modulus in high strength TNZT alloy for bio-implant applications
Maity, Tapabrata; Balci, Özge; Gammer, C.; Ivanov, E.; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Journal of the mechanical behavior of biomedical materials 2020 / art. 103839, 10 p. : ill https://doi.org/10.1016/j.jmbbm.2020.103839 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

High temperature dry sliding wear behaviour of selective laser melted Ti-6Al-4V alloy surfaces
Praveenkumar, Kesavan; Vishnu, Jithin; Samuel, Calvin; Gopal, Vasanth; Arivarasu, Moganraj; Lackner, Jürgen M.; Meier, Benjamin; Karthik, D.; **Prashanth, Konda Gokuldoss**; **Yadav, Mayank Kumar** Journal of materials processing technology 2024 / art. 118439, 12 p. : ill https://doi.org/10.1016/j.jmatprotec.2024.118439 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

High virucidal potential of novel ceramic-metal composites fabricated via hybrid selective laser melting and spark plasma sintering routes
Rahmani Ahranjani, Ramin; Molan, Katja; Brojan, Miha; **Prashanth, Konda Gokuldoss**; Stopar, David The international journal of advanced manufacturing technology 2022 / p. 975-988 : ill https://doi.org/10.1007/s00170-022-08878-x Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

High-entropy eutectic composites with high strength and low Young's modulus
Maity, Tapabrata; **Prashanth, Konda Gokuldoss**; Balcı, Özge; Cieslak, Grzegorz; Spychalski, Maciej; Kulik, Tadeusz; Eckert, Jürgen Material design & processing communications 2021 / art. e211 https://doi.org/10.1002/mdp2.211 Journal metrics at Scopus Article at Scopus

Hybrid metal-ceramic biomaterials fabricated through powder bed fusion and powder metallurgy for improved impact resistance of craniofacial implants
Rahmani Ahranjani, Ramin; **Kamboj, Nikhil Kumar**; Brojan, Miha; **Antonov, Maksim**; **Prashanth, Konda Gokuldoss** Materialia 2022 / art. 101465 https://doi.org/10.1016/j.mtla.2022.101465 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Impact of the scanning strategy on the mechanical behavior of 316L steel synthesized by selective laser melting
Salman, O. O.; Brenne, F.; Niendor, T.; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Journal of Manufacturing Processes 2019 / p. 255-261 : ill https://doi.org/10.1016/j.jmapro.2019.07.010 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Importance of the micro-lattice structure of selective laser melting processed Mo/Mo(x)S(x+1) composite: Corrosion studies on the electrochemical performance in aqueous solutions
Alinejadian, Navid; Kazemi, Sayed Habib; **Grossberg-Kuusk, Maarja**; **Kollo, Lauri**; Odnevall, Inger Charlotta; **Prashanth, Konda Gokuldoss** Materials today chemistry 2022 / art. 101219 https://doi.org/10.1016/j.mtchem.2022.101219 Journal metrics at Scopus Article at Scopus Journalmetrics at WOS Article at WOS

In situ Al3BC/Al composite fabricated via solid-solid reaction: An investigation on microstructure and mechanical behavior
Maity, Tapabrata; Prakash, Aditya; Roy, Debdas; **Prashanth, Konda Gokuldoss** Applied sciences 2025 / art. 5189 https://doi.org/10.3390/app15095189

In situ fabrication of TiC-NiCr cermets by selective laser melting
Aramian, Atefeh; Sadeghian, Zohreh; **Prashanth, Konda Gokuldoss**; Berto, Filippo International journal of refractory metals and hard materials 2020 / art. 105171, 8 p. : ill https://doi.org/10.1016/j.ijrmhm.2019.105171 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

In situ production of low-modulus Ti-Nb alloys by selective laser melting and their functional assessment toward orthopedic applications
Singh, Neera; Srikanth, K. P.; Gopal, Vasanth; Rajput, Monika; Manivasagam, Geetha; **Prashanth, Konda Gokuldoss** Journal of Materials Chemistry B 2024 / p. 5982-5993 : ill https://doi.org/10.1039/D4TB00379A Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

In vitro corrosion behavior of selective laser melted Ti-35Nb-7Zr-5Ta
Ummethala, Raghunandan; Jayaraj, Jayamani; Karamched, Phani S.; Rathinavelu, Sokkalingam; Singh, Neera; Surreddi, Kumar Babu; **Prashanth, Konda Gokuldoss** Journal of Materials Engineering and Performance 2021 / p. 7967-7978 https://doi.org/10.1007/s11665-021-05940-9 Journal metric at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The influence of Laves phase morphology on the mechanical properties of rotary friction welded Inconel 718 fabricated by selective laser melting
Dinesh, Lanka; Susila, Periyasamy; **Prashanth, Konda Gokuldoss**; Sivaprasad, Katakam Materials science and engineering : A 2025 / art. 148416 https://doi.org/10.1016/j.msea.2025.148416

Influence of powder characteristics on processability of AlSi12 alloy fabricated by selective laser melting
Baitimerov, Rustam; Lykov, Pavel; Zherebtsov, Dmitry; Radionova, Ludmila; Shultc, Alexey; **Prashanth, Konda Gokuldoss** Materials 2018 / art. 742, 14 p. : ill https://doi.org/10.3390/ma11050742 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

Influence of severe straining and strain rate on the evolution of dislocation structures during micro-/nanoindentation in high entropy lamellar eutectics
Maity, Tapabrata; **Prashanth, Konda Gokuldoss**; Balci, Özge International journal of plasticity 2018 / p. 121-136 : ill https://doi.org/10.1016/j.ijplas.2018.05.012 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Influence of substrate plate heating on the fabrication of Al-12Si produced by selective laser melting
Xi, L. X.; Ma, Pan; Jia, Yandong; Chaubey, A. K.; Wang, Z.; **Prashanth, Konda Gokuldoss** Transactions of the Indian National Academy of Engineering 2021 / p. 1027-1036 https://doi.org/10.1007/s41403-021-00240-z

Influence of substructures on the selective laser melted Ti-6Al-4V alloy as a function of laser re-melting
Karimi, Javad; Xie, Meishen; Wang, Zhi; **Prashanth, Konda Gokuldoss** Journal of manufacturing processes 2021 / p. 1387-1394 https://doi.org/10.1016/j.jmapro.2021.06.059 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Influence of the interlayer temperature on structure and properties of CMT wire arc additive manufactured NiTi structures
Singh, Shalini; Palani, Iyamperumal Anand; Dehgahi, Shirin; Paul, Christ Prakash; **Prashanth, Konda Gokuldoss**; Jawad Qureshi, Ahmed Jawad Journal of Alloys and Compounds 2023 / art. 171447, 10 p. https://doi.org/10.1016/j.jallcom.2023.171447 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Interfacial structure and wear properties of selective laser melted Ti/(TiC+TiN) composites with high content of reinforcements
Xi, Lixia; Ding, Kai; Gu, Dongdong; Guo, Shuang; Cao, Mengzhen; Zhuang, Jie; Lin, Kaijie; Okulov, Ilya; Sarac, Baran; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2021 / art. 159436, 9 p.: ill https://doi.org/10.1016/j.jallcom.2021.159436 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Interpenetrating composites : A nomenclature dilemma
Prashanth, Konda Gokuldoss Materials 2025 / art. 273 https://doi.org/10.3390/ma18020273

Investigating the structure, microstructure, and texture in selective laser melted sterling silver 925
Vikram, R. J.; **Kollo, Lauri**; **Prashanth, Konda Gokuldoss**; Suwas, Satyam Metallurgical and materials transactions A : Physical metallurgy and materials science 2021 / p. 5329–5341 : ill https://doi.org/10.1007/s11661-021-06471-7 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

An Investigation into the Thermomechanical Processing and Dynamic Recrystallization Mechanisms of High-Magnesium Aluminum Alloys
Ye, Zili; Zhou, Zixiao; Ye, Zhaolin; Wang, Zhi; Zhao, Qizhong; **Prashanth, Konda Gokuldoss** Materials 2025 / art. 2734 https://doi.org/10.3390/ma18122734

Investigation of the tribological behavior of the additively manufactured TiC-based cermets by scratch testing
Maurya, Himanshu Singh; Jayaraj, Jayamani; Wang, Z.; **Juhani, Kristjan**; **Sergejev, Fjodor**; **Prashanth, Konda Gokuldoss**

Journal of alloys and compounds 2023 / art. 170496, 9 p. : ill https://doi.org/10.1016/j.jallcom.2023.170496 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Laser additive manufacturing of nano-TiC particles reinforced CoCrFeMnNi high-entropy alloy matrix composites with high strength and ductility
Chen, Hongyi; Lu, Twen; **Prashanth, Konda Gokuldoss**; Kosiba, Konrad Materials Science and Engineering : A 2022 / art. 142512 https://doi.org/10.1016/j.msea.2021.142512 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Laser hybrid wire arc additive manufacturing for fabricating thin sections
Singh, Shalini; Jinoop, Arackal Narayanan; Tarun Kumar, Gorlea Thrinadh Ananthvenkata; Shukla, Ashish; Palani, Iyamperumal Anand; Resnina, Natalia; Paul, Christ Prakash; **Prashanth, Konda Gokuldoss** Transactions of the Indian National Academy of Engineering 2022 / p. 175–183 : ill https://doi.org/10.1007/s41403-021-00258-3

Laser powder bed fusion of WC-Ni cermets : microstructural, phase and mechanical studies
Singh, Shalini; Meszaros, Kimberley; Narayanan, Jinoop Arackal; Dehgahi, Shirin; **Prashanth, Konda Gokuldoss**; Qureshi, Ahmed Jawad Tungsten 2025 https://doi.org/10.1007/s42864-025-00329-w

Linear patterning of high entropy alloy by additive manufacturing
Karimi, Javad; Ma, P.; Ji, Y.D.; **Prashanth, Konda Gokuldoss** Manufacturing letters 2020 / p. 9-13 : ill https://doi.org/10.1016/j.mfglet.2020.03.003 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

Machine learning assisted design of high-entropy alloys with ultra-high microhardness and unexpected low density
Zhao, Shunli; Jiang, Bin; Song, Kaikai; Liu, Xiaoming; Wang, Wenyu; Si, Dekun; Zhang, Jilei; Chen, Xiangyan; Zhou, Changshan; Liu, Pingping; Chen, Dong; Zhang, Zequn; Ramasamy, Parthiban; Tang, Junlei; Lv, Wenquan; **Prashanth, Konda Gokuldoss**; Sopu, Daniel; Eckert, Jurgen Materials & design 2024 / art. 112634 https://doi.org/10.1016/j.matdes.2024.112634

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

Maximizing the degree of rejuvenation in metallic glasses
Yuan, Xudong; Sopu, Daniel; Spieckermann, Florian C.; Song, Kaikai; Ketov, Sergey V.; **Prashanth, Konda Gokuldoss**; Eckert, Juergen H. Scripta Materialia 2022 / art. 114575 https://doi.org/10.1016/j.scriptamat.2022.114575 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Mechanical and tribological behavior of gravity and squeeze cast novel Al-Si alloy
Chandra, Vadlamudi Srinivasa; Sivaprasad, Katakam; Dhanasekaran, Subramaniam; **Prashanth, Konda Gokuldoss** Metals 2022 / art. 194 https://doi.org/10.3390/met12020194

Mechanical behavior of Ti6Al4V scaffolds filled with CaSiO3 for implant applications
Rahmani Ahranjani, Ramin; **Antonov, Maksim**; **Kollo, Lauri**; **Holovenko, Yaroslav**; **Prashanth, Konda Gokuldoss** Applied sciences 2019 / art. 3844, 11 p. : ill https://doi.org/10.3390/app9183844 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Mechanical properties and microstructural evolution of Ti-25Nb-6Zr alloy fabricated by spark plasma sintering at different temperatures
Zhu, Qing; Chen, Peng; Xiao, Qiushuo; Li, Fengxian; Yi, Jianhong; **Prashanth, Konda Gokuldoss**; Eckert, Jürgen Metals 2022 / art. 1824 https://doi.org/10.3390/met12111824 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Mechanical properties of two novel non-equiatomic Zr-Hf-Ti-Cu-Ni-Co-Al High Entropy Alloys with high glass forming ability
Gonzalez, Sergio; Wurster, Stefan; Garay-Reyes, Carlos Gamaliel; Hurtado-Macias, Abel; Ramasamy, Parthiban; Oleszak, Dariusz; Gammer, Christoph; **Prashanth, Konda Gokuldoss**; Martinez-Garcia, Alfredo; Eckert, Juergen H.; Martinez-Sanchez, Roberto Journal of alloys and compounds 2025 / art. 180196 https://doi.org/10.1016/j.jallcom.2025.180196

Mechanical properties, microstructure, and actuation behavior of wire arc additive manufactured nitinol : titanium bimetallic structures

Singh, Shalini; Demidova, Elena; Resnina, Natalia; Belyaev, Sergey; Palani, Iyamperumal Anand; Paul, Christ Prakash; Kumar, Ajit; **Prashanth, Konda Gokuldoss** 3D Printing and Additive Manufacturing 2022 https://doi.org/10.1089/3dp.2021.0324

Mechanism of high-pressure torsion-induced shear banding and lamellar thickness saturation in Co-Cr-Fe-Ni-Nb high-entropy composites
Maity, Tapabrata; **Prashanth, Konda Gokuldoss**; Janda, Alexander Journal of materials research 2019 / p. 2672-2682 : ill https://doi.org/10.1557/jmr.2019.149 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Mechanisms controlling fracture toughness of additively manufactured stainless steel 316L
Kumar, Deepak; Jhavar, Suyog; Arya, Abhinav; **Prashanth, Konda Gokuldoss**; Suwas, Satyam International journal of fracture 2022 / p. 61-78 https://doi.org/10.1007/s10704-021-00574-3 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Metallic coatings through additive manufacturing: a review
Mohanty, Shalini; **Prashanth, Konda Gokuldoss** Materials 2023 / art. 2325 : ill https://doi.org/10.3390/ma16062325 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

Microstructural and mechanical behaviour of friction welded SS316L components fabricated by selective laser melting
Dinesh, Lanka; Damodaram, R.; Sivaprasad, Katakam; **Prashanth, Konda Gokuldoss** Materials today communications 2023 / art. 107430 https://doi.org/10.1016/j.mtcomm.2023.107430 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Microstructural evolution and mechanical properties of selective laser melted Ti-6Al-4V induced by annealing treatment
Wang, Pei; Chen, Feng-hua; Eckert, J.; Pilz, S.; Scudino, S.; **Prashanth, Konda Gokuldoss** Journal of Central South University 2021 / p. 1068–1077 : ill https://doi.org/10.1007/s11771-021-4680-3 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Microstructural homogenisation of selective laser melted Ti6Al4V and CoCrFeMnNi high-entropy alloys = Selektiivse lasersulatuse teel valmistatud Ti6Al4V ja kõrgentroopse CoCrFeMnNi sulamite mikrostruktuuri homogeniseerimine
Karimi, Javad 2022 https://doi.org/10.23658/taltech.52/2022 https://digikogu.taltech.ee/et/Item/96573682-77a0-4fcb-b5df-b53cc9a3bfeb https://www.ester.ee/record=b5511815*est

Microstructural, mechanical, corrosion, and biological behavior of spark plasma sintered commercially pure zinc for biomedical applications
Yadav, Mayank Kumar; **Shukla, Riddhi Hirenkumar**; Praveenkumar, K.; Nilawar, Sagar; Perugu, Chandra Sekhar; Sellamuthu, Prabhukumar; Chatterjee, Kaushik; Suwas, Satyam; Jayaraj, Jayamani; **Prashanth, Konda Gokuldoss** Materials advances 2025 https://doi.org/10.1039/D5MA00092K

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 Al–(12-20)Si bi-material fabricated by selective laser melting
Zhang, Shikai; Ma, Pan; Jia, Yandong; Yu, Zhishui; Sokkalingam, Rathinavelu; Shi, Xuerong; Ji, Pengcheng; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Materials 2019 / art. 2126, 11 p. : ill https://doi.org/10.3390/ma12132126 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 mechanical properties of HEA alloys fabricated by selective laser melting of powder mixtures
Karimi, Javad; **Prashanth, Konda Gokuldoss** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 24 https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

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

Singh, Shalini; Jinoop, A. N.; Palani, Iyamperumal 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 mechanical properties of TiB2/Al-5Cu composites fabricated by multi-material laser powder bed fusion
Liang, Zixi; Qi, Junfang; **Prashanth, Konda Gokuldoss**; Kang, Nan; Wang, Pei Optics and laser technology 2025 / art. 111922 https://doi.org/10.1016/j.optlastec.2024.111922

Microstructure and mechanical property of bimodal-size metallic glass particle-reinforced Al alloy matrix composites
Xie, M.S.; Wang, Zhi; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2020 / art. 152317, 6 p. : ill https://doi.org/10.1016/j.jallcom.2019.152317 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 nanoindentation creep behavior of binary Al-Cu alloy synthesized at high pressure
Ma, Pan; Zhang, Zhiyu; Liu, Xiao; Shi, Xuerong; **Prashanth, Konda Gokuldoss**; Jia, Yandong JOM : the journal of the minerals, metals & materials society 2023 / p. 176-183 https://doi.org/10.1007/s11837-022-05545-0 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Microstructure and properties of inIsitu high entropy alloy/tungsten carbide composites by mechanical alloying
Sokkalingam, Rathinavelu; **Tarraste, Marek**; Surreddi, Kumar Babu; **Traksmaa, Rainer**; Muthupandi, Veerappan; Sivaprasad, Katakam; **Prashanth, Konda Gokuldoss** Material design & processing communications 2020 / 9 p. : ill https://doi.org/10.1002/mdp2.175 Journal metrics at Scopus Article at Scopus

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

Microstructure and tribological behavior of Fe-based amorphous alloy fabricated by plasma spraying and laser remelting
Ma, Pan; Yang, Zhilu; Fang, Longfei; Zhang, Zhiyu; Fang, Yacheng; Zhang, Nan; **Prashanth, Konda Gokuldoss**; Jia, Yandong Transactions of the Indian Institute of Metals 2023 / p. 1007-1014 https://doi.org/10.1007/s12666-022-02814-z Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Microstructure evolution and hot deformation behavior of spray-deposited TiAl alloys
Jia, Yandong; Xu, Long; Ma, Pan; **Prashanth, Konda Gokuldoss** Journal of materials research 2018 / p. 2844-2852 : ill https://doi.org/10.1557/jmr.2018.249 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Microstructure evolution and tensile property of high entropy alloy particle reinforced 316 L stainless steel matrix composites fabricated by laser powder bed fusion
Zhang, Xinqi; Yang, Dongye; Jia, Yandong; Wang, Gang; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 171430 https://doi.org/10.1016/j.jallcom.2023.171430 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Microstructure formation and mechanical performance of micro-nanoscale ceramic reinforced aluminum matrix composites manufactured by laser powder bed fusion
Xi, Lixia; Feng, Lili; Gu, Dongdong; **Prashanth, Konda Gokuldoss**; Kaban, Ivan; Wang, Ruiqi; Xiong, Ke; Sarac, Baran; Eckert, Jürgen Journal of alloys and compounds 2023 / art. 168803 https://doi.org/10.1016/j.jallcom.2023.168803 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Microstructure, mechanical properties, and corrosion behavior of 06Cr15Ni4CuMo processed by using selective laser melting
Maya, Jayaraman; Sivaprasad, Katakam; Kumar, Guttula Venkata Sarath; Baitimerov, Rustam; Lykov, Pavel; **Prashanth, Konda Gokuldoss** Metals 2022 / art. 1303 https://doi.org/10.3390/met12081303 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

NiTi–Cu bimetallic structure fabrication through wire arc additive manufacturing
Singh, Shalini; Demidova, Elena; Resnina, Natalia; Belyaev, Sergey; Iyamperumal, P. A.; Paul, C. P.; **Prashanth, Konda Gokuldoss** Materials 2024 / art. 1006 https://doi.org/10.3390/ma17051006 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A novel crack-free and refined 2195-Ti/CeB6 composites prepared by laser powder bed fusion

Xi, Lixia; Xu, Juncan; Gu, Dongdong; Feng, Lili; Lu, Qiuyang; **Prashanth, Konda Gokuldoss** Materials letters 2023 / art. 133572 https://doi.org/10.1016/j.matlet.2022.133572 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A novel crack-free Ti-modified Mo alloy designed for laser powder bed fusion
Zhang, Cheng; Wang, Pei; Liu, C. Y.; Liu, Zhiyuan; Wu, Mingwei; Gao, X. H.; Li, M. H.; Yang, Chao; **Prashanth, Konda Gokuldoss**; Chen, Zhangwei Journal of alloys and compounds 2022 / art. 164802 https://doi.org/10.1016/j.jallcom.2022.164802 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A novel high-strength Al-based nanocomposite reinforced with Ti-basedmetallic glass nanoparticles produced by powder metallurgy
Zhang, W.W.; Hu, Y.; **Prashanth, Konda Gokuldoss** Materials science and engineering : A 2018 / p. 34-41 . ill https://doi.org/10.1016/j.msea.2018.07.082

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

Novel welding of Al0.5CoCrFeNi high-entropy alloy: corrosion behavior
Sokkalingam, Rathinavelu; Sivaprasad, Katakam; Duraiselvam, Muthukannan; Muthupandi, Veerappan; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2020 / art. 153163, 6 p. : ill https://doi.org/10.1016/j.jallcom.2019.153163 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

Parametric optimization of selective laser melted 13Ni400 maraging steel by Taguchi method
Patil, Viraj Vishwas; Mohanty, Chinmaya P.; **Prashanth, Konda Gokuldoss** Journal of manufacturing and materials processing 2024 / art. 52 https://doi.org/10.3390/jmmp8020052

Perspectives of metal-diamond composites additive manufacturing using SLM-SPS and other techniques for increased wear-impact resistance
Rahmani Ahranjani, Ramin; Brojan, Miha; **Antonov, Maksim**; **Prashanth, Konda Gokuldoss** International journal of refractory metals and hard materials 2020 / art. 105192, 13 p. : ill https://doi.org/10.1016/j.ijrmhm.2020.105192 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Phase formation, microstructure and mechanical properties of Mg67Ag33 as potential biomaterial
Kosiba, Konrad; **Prashanth, Konda Gokuldoss**; Scudino, Sergio Metals 2021 / art. 461, 10 p. : ill https://doi.org/10.3390/met11030461 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Plastic deformation mechanisms in severely strained eutectic high entropy composites explained via strain rate sensitivity and activation volume
Maity, Tapabrata; **Prashanth, Konda Gokuldoss**; Balci, Özge; Wang, Zhi; Jia, Yandong; Eckert, Juergen H. Composites Part B : Engineering 2018 / p. 7-13 https://doi.org/10.1016/j.compositesb.2018.05.033 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Powder metallurgy of Al0.1CoCrFeNi high-entropy alloy
Sokkalingam, Rathinavelu; **Tarraste, Marek**; Surreddi, Kumar Babu; **Mikli, Valdek**; Muthupandi, Veerappan; Sivaprasad, Katakam; **Prashanth, Konda Gokuldoss** Journal of materials research 2020 / p. 2835−2847 https://doi.org/10.1557/jmr.2020.272 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Premature failure of an additively manufactured material
Wang, Zhi; Xie, Meishen; Li, Yuanyuan; Zhang, Weiwen; Yang, Chao; **Kollo, Lauri**; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Npg Asia materials 2020 / art. 30, 10 p. : ill https://doi.org/10.1038/s41427-020-0212-0 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Pressure-assisted sintering of Al-Gd-Ni-Co amorphous alloy powders
Wang, Zhi; **Prashanth, Konda Gokuldoss**; Surreddi, K. B. Materialia 2018 / p. 157–166 : ill https://doi.org/10.1016/j.mtla.2018.07.010

Processing of Al-based composite material by selective laser melting: A perspective
Prashanth, Konda Gokuldoss Materials today: proceedings 2022 / p. 498-504 https://doi.org/10.1016/j.matpr.2022.01.391 Conference proceeding at Scopus Article at Scopus Article at WOS

Quasicrystalline composites by additive manufacturing

Prashanth, Konda Gokuldoss; Scudino, Sergio Applied Engineering, Materials and Mechanics III : 4th International Conference on Applied Engineering, Materials and Mechanics (4th ICAEMM 2019) 2019 / p. 72-76 https://doi.org/10.4028/www.scientific.net/KEM.818.72 Conference proceeding at Scopus Article at Scopus

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.jalmes.2024.100120

Removing the oxide layer in a nanostructured aluminum alloy by local shear deformation between nanoscale phases
Wang, Zhi; **Prashanth, Konda Gokuldoss**; Zhang, W.W. Powder technology 2019 / p. 733-737 : ill https://doi.org/10.1016/j.powtec.2018.11.093 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Research progress on composition design of multicomponent eutectic high entropy alloys
Wan, Shiguang; Ma, Pan; Yang, Hong; Zhang, Nan; Fang, Yacheng; Jia, Yandong; **Prashanth, Konda Gokuldoss** Transactions of the Indian Institute of Metals 2024 / p. 1455 - 1465 https://doi.org/10.1007/s12666-023-03247-y Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Revealing the impact of Hot Isostatic Pressing temperature on the microstructure and mechanical characteristics of Selective Laser Melted CuAlNiMn shape memory alloy
Singh, Shalini; Narayanan, Jinoop Arackal; Dehgahi, Shirin; Qureshi, A. J.; Palani, Iyamperumal Anand; Paul, Christ Prakash; **Prashanth, Konda Gokuldoss** Materials letters 2024 / art. 136452 https://doi.org/10.1016/j.matlet.2024.136452

A review of particulate-reinforced aluminum matrix composites fabricated by selective laser melting
Wang, Pei; Eckert, Jürgen; **Prashanth, Konda Gokuldoss**; Kaban, Ivan; Xi, L.; Scudino, Sergio Transactions of nonferrous metals society of China 2020 / p. 2001-2034 https://doi.org/10.1016/S1003-6326(20)65357-2 http://tnmsc.csu.edu.cn/paper/paperView.aspx?id=paper_321576 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A review on development of bio-inspired implants using 3D printing
Raheem, Ansheed A.; Hameed, Pearlin; **Prashanth, Konda Gokuldoss**; Manivasagam, Geetha Biomimetics 2021 / art. 65 https://doi.org/10.3390/biomimetics6040065 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Role of impinging powder particles on melt pool hydrodynamics, thermal behaviour and microstructure in laser-assisted DED process : A particle-scale DEM – CFD – CA approach
Aggarwal, Akash; Chouhan, Arvind; Patel, Sushil; **Prashanth, Konda Gokuldoss** International journal of heat and mass transfer 2020 / art. 119989, 19 p. : ill https://doi.org/10.1016/j.ijheatmasstransfer.2020.119989 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Role of laser remelting and heat treatment in mechanical and tribological properties of selective laser melted Ti6Al4V alloy
Karimi, Javad; **Antonov, Maksim**; **Kollo, Lauri**; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2022 / art. 163207 https://doi.org/10.1016/j.jallcom.2021.163207 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Role of microstructure on tension-compression asymmetry in additively manufactured stainless steel 316l
Kumar, Deepak; Gupta, Sagar; Aditya, Yarlapati Naga; Jhavar, Suyog; **Prashanth, Konda Gokuldoss**; Suwas, Satyam Metallurgical and materials transactions A : Physical metallurgy and materials science 2025 / p. 1620-1640 https://doi.org/10.1007/s11661-025-07722-7

Selective laser manufacturing of Ti-based alloys and composites : impact of process parameters, application trends, and future prospects
Singh, Nirmal Kumar; Hameed, Pearlin; **Ummethala, Raghunandan**; Manivasagam, Geetha; **Prashanth, Konda Gokuldoss**; Eckert, Juergen H. Materials Today Advances 2020 / Art. 100097 https://doi.org/10.1016/j.mtadv.2020.100097 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Selective laser melting : materials and applications
2020 https://doi.org/10.3390/books978-3-03928-579-2 https://www.mdpi.com/books/pdfview/book/2164

Selective laser melting and spark plasma sintering: a perspective on functional biomaterials
Rahmani Ahranjani, Ramin; Lopes, Sergio Ivan; **Prashanth, Konda Gokuldoss** Journal of functional biomaterials 2023 / art. 521, 33 p. : ill https://doi.org/10.3390/jfb14100521 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Selective laser melting of 316L stainless steel : Influence of TiB2 addition on microstructure and mechanical properties

Salaman, O. O.; Gammer, C.; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Materials today communications 2019 / art. 100615, 7 p. : ill https://doi.org/10.1016/j.mtcomm.2019.100615 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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 Al-7Si-0.5 Mg-0.5Cu : effect of heat treatment on microstructure evolution, mechanical properties and wear resistance
Wang, Pei; Yu, Sijie; Shergill, Jaskarn; Chaubey, Anil; Eckert, Jürgen; **Prashanth, Konda Gokuldoss**; Scudino, Sergio Acta Metallurgica Sinica (English Letters) 2022 / p. 389–396 : ill https://doi.org/10.1007/s40195-021-01279-1 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

Selective laser melting of AlSi10Mg : corrosion behavior
Sellamuthu, Prabhukumar; Sivaprasad, Katakam; **Prashanth, Konda Gokuldoss** Journal of Mines, Metals and Fuels 2024 / p. 93-102 https://doi.org/10.18311/jmmf/2024/36429 Journal metrics at Scopus Article at Scopus

Selective laser melting of aluminum and its alloys
Wang, Zhi; **Ummethala, Raghunandan**; **Singh, Neera**; **Prashanth, Konda Gokuldoss** Materials 2020 / art. 4564 : ill https://doi.org/10.3390/ma13204564 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Selective laser melting of commercially pure molybdenum by laser rescanning
Alinejadian, Navid; Wang, Pei; **Kollo, Lauri**; **Prashanth, Konda Gokuldoss** 3D Printing and Additive Manufacturing 2023 / p. 785-791 https://doi.org/10.1089/3dp.2021.0265 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Selective laser melting of commercially pure silicon
Lai, Zhouyi; Guo, Ting; Zhang, Shengting; Kollo, Lauri; Attar, Hooyar; Wang, Zhi; **Prashanth, Konda Gokuldoss** Journal Wuhan University of Technology, Materials Science Edition 2022 / p. 1155 - 1165 https://doi.org/10.1007/s11595-022-2647-3 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Selective laser melting of Cu-Ni-Sn : a comprehensive study on the microstructure, mechanical properties, and deformation behavior
Zhao, Chao; Wang, Zhi; Li, Daoxi; **Kollo, Lauri**; Luo, Zongqiang; Zhang, Weiwen; **Prashanth, Konda Gokuldoss** International journal of plasticity 2021 / art. 102926 https://doi.org/10.1016/j.ijplas.2021.102926 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Selective laser melting of high-strength, low-modulus Ti–35Nb–7Zr–5Ta alloy
Ummethala, Raghunandan; Karamched, Phani S.; Rathinavelu, Sokkalingam; Singh, Neera; Aggarwal, Akash; Sun, Kang; Ivanov, Eugene; **Kollo, Lauri**; Okulov, Ilya; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Materialia 2020 / art. 100941 https://doi.org/10.1016/j.mtla.2020.100941 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Selective laser melting of Inconel 718 : effect of thermal treatment on mechanical properties
Mohanty, Shalini; **Maurya, Himanshu Singh**; **Prashanth, Konda Gokuldoss** Materials today: proceedings 2023 / 5 p. : ill https://doi.org/10.1016/j.matpr.2023.03.164 Journal metrics at Scopus Article at Scopus

Selective laser melting of in-situ CoCrFeMnNi high entropy alloy : effect of remelting
Karimi, Javad; **Kollo, Lauri**; **Rahmani Ahranjani, Ramin**; Ma, Pan; Jia, Yandong; **Prashanth, Konda Gokuldoss** Journal of Manufacturing Processes 2022 / p. 55-63 https://doi.org/10.1016/j.jmapro.2022.09.056 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Selective laser melting of nanostructured Al-Y-Ni-Co alloy
Wang, Zhi; Scudino, Sergio; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Manufacturing letters 2020 / p. 21−25 https://doi.org/10.1016/j.mfglet.2020.06.005 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Selective laser melting of Ti6Al4V : effect of laser re-melting
Karimi, Javad; Suryanarayana, Challapalli; Okulov, Ilya; **Prashanth, Konda Gokuldoss** Materials Science and Engineering : A 2021 / art. 140558 https://doi.org/10.1016/j.msea.2020.140558 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Selective laser melting of Ti6Al4V : effect of remelting

Karimi, Javad; **Prashanth, Konda Gokuldoss** APICAM2019 program : [abstracts] 2019 / p. [5]
https://www.apicam2019.com.au/LiteratureRetrieve.aspx?ID=200067

Selective laser melting of TiC-based cermet : HIP studies
Maurya, Himanshu Singh; **Kollo, Lauri**; **Tarraste, Marek**; **Juhani, Kristjan**; **Sergejev, Fjodor**; **Prashanth, Konda Gokuldoss** Transactions of the Indian Institute of Metals 2023 / p. 565–570 : ill https://doi.org/10.1007/s12666-022-02684-5 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Selective laser melting of TiC-Fe via laser pulse shaping : microstructure and mechanical properties
Maurya, Himanshu Singh; **Kollo, Lauri**; **Tarraste, Marek**; **Juhani, Kristjan**; **Sergejev, Fjodor**; **Prashanth, Konda Gokuldoss** 3D Printing and Additive Manufacturing 2023 / p. 640-649 https://doi.org/10.1089/3dp.2021.0221 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Selective laser melting: materials and applications
Prashanth, Konda Gokuldoss Selective laser melting: materials and applications 2020 / p. 1-3 : ill https://doi.org/10.3390/jmmp4010013 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Sliding Wear and Debris Evolution in LPBFed Ceramic-Reinforced Steel Composites Under Variable Loads and Temperatures
Maurya, Himanshu Singh; Kumar, Rahul, 1993-; Subramaniyan, Anand Kumar; **Tarraste, Marek**; **Hussain, Abrar**; Rahmani Ahranjani, Ramin; **Juhani, Kristjan**; **Sergejev, Fjodor**; **Prashanth, Konda Gokuldoss** Materials Chemistry and Physics 2025 / art. 131195 https://doi.org/10.1016/j.matchemphys.2025.131195

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

Spark plasma sintering of 13Ni-400 maraging steel: Enhancement of mechanical properties through surface modification
Patil, Viraj Vishwas; **Prashanth, Konda Gokuldoss**; Mohanty, Chinmaya P. Journal of alloys and compounds 2023 / art. 170734 : ill https://doi.org/10.1016/j.jallcom.2023.170734 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Spark plasma sintering of molybdenum silicides synthesized from oxide precursors
Ovali, Didem; Tarraste, Marek; Kaba, Mertcan; Agaogullari, Duygu; **Kollo, Lauri**; **Prashanth, Konda Gokuldoss**; Lütfi Övecoglu, M. Ceramics international 2021 / p. 13827-13836 : ill https://doi.org/10.1016/j.ceramint.2021.01.248 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Spark plasma sintering of Ti6Al4V metal matrix composites: Microstructure, mechanical and corrosion properties
Singh, Neera; Ummethala, Raghunandan; Karamched, Phani S.; Sokkalingam, Rathinavelu; Gopal, Vasanth; Manivasagam, G.; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2021 / art. 158875, 10 p. : ill https://doi.org/10.1016/j.jallcom.2021.158875 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Strong and ductile titanium via additive manufacturing under a reactive atmosphere
Dong, Yangping; Wang, Dawei; Li, Qizhen; Luo, Xiaoping; Zhang, Jian; **Prashanth, Konda Gokuldoss**; Wang, Pei; Eckert, Jürgen; Mädler, Lutz; Okulov, Ilya V.; Yan, Ming Materials today advances 2023 / art. 100347 https://doi.org/10.1016/j.mtadv.2023.100347 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Subtle change in the work hardening behavior of fcc materials processed by selective laser melting
Sokkalingam, Rathinavelu; Sivaprasad, Katakam; **Singh, Neera**; Muthupandi, Veerappan; Ma, Pan; Jia, Yandong; **Prashanth, Konda Gokuldoss** Progress in additive manufacturing 2022 / p. 453-461 https://doi.org/10.1007/s40964-022-00301-x Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Superior wear resistance in EBM-Processed TC4 alloy compared with SLM and forged samples
Zhang, Weiwen; Qin, Peiting; Wang, Zhi; Yang, Chao; **Kollo, Lauri**; Grzesiak, Dariusz; **Prashanth, Konda Gokuldoss** Materials 2019 / art. 782 https://doi.org/10.3390/ma12050782 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Synergistic strengthening mechanisms of dual-phase (TiN+AlN) reinforced aluminum matrix composites prepared by laser powder bed fusion
Wang, Ruiqi; Xi, Lixia; Feng, Lili; Sarac, Baran; **Prashanth, Konda Gokuldoss**; Eckert, Jürgen; Gu, Dongdong 3D printing and additive manufacturing 2024 / p. 907-918 https://doi.org/10.1089/3dp.2023.0004

Synthesis of porous bio-ceramic (Silicon and Calcium silicate) implants by selective laser melting for local delivery of Vancomycin
Kamboj, Nikhil Kumar; **Hussainova, Irina**; Rodriguez Barbero, M. A.; Rodrigo, S.; **Prashanth, Konda Gokuldoss** 43rd International Conference & Exposition on Advanced Ceramics and Composites : abstract book 2019 / p. 190 https://ceramics.org/wp-content/uploads/2018/09/ICACC19_Abstracts_WebFinal.pdf

Synthesis of porous bio-ceramic(Silicon and Calcium silicate) implants by selective laser melting for local delivery of Vancomycin
Kamboj, Nikhil Kumar; **Hussainova, Irina**; Rodríguez Barbero, M. A.; Rodrigo, S.; **Prashanth, Konda Gokuldoss** 43rd International Conference & Exposition on Advanced Ceramics and Composites : abstract book 2019 / p. 190 https://ceramics.org/wp-content/uploads/2018/09/ICACC19_Abstracts_WebFinal.pdf

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

Tailoring anisotropy and heterogeneity of selective laser melted Ti6Al4V alloys
Karimi, Javad; **Kollo, Lauri**; **Prashanth, Konda Gokuldoss** Transactions of the Indian National Academy of Engineering 2023 / p. 245-251 https://doi.org/10.1007/s41403-023-00393-z

Texture dependent strain hardening in additively manufactured stainless steel 316L
Kumar, Deepak; Shankar, Gyan; **Prashanth, Konda Gokuldoss**; Suwas, Satyam Materials Science and Engineering : A 2021 / art. 141483 https://doi.org/10.1016/j.msea.2021.141483 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The impact resistance of highly densified metal alloys manufactured from gas-atomized pre-alloyed powders
Rahmani Ahranjani, Ramin; **Antonov, Maksim**; **Prashanth, Konda Gokuldoss** Coatings 2021 / art. 216, 14 p. : ill https://doi.org/10.3390/coatings11020216 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

Thermal expansion behavior of Al–xSi alloys fabricated using selective laser melting
Jia, Yandong; Zhang, L.B.; Ma, Pan; Scudino, Sergio; Wang, G.; Yi, J.; Eckert, Jürgen; **Prashanth, Konda Gokuldoss** Progress in additive manufacturing 2020 / 11 p. : ill https://doi.org/10.1007/s40964-020-00130-w Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

3D printing of pure molybdenum structures by Selective Laser Melting (SLM)
Alinejadian, Navid; **Prashanth, Konda Gokuldoss**; **Kollo, Lauri** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 14 http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

Ti6Al4V coating on 316L substrate by laser-based fusion process
Shukla, Riddhi Hirenkumar; **Prashanth, Konda Gokuldoss** Transactions of the Indian Institute of Metals 2023 / p. 435-445 https://doi.org/10.1007/s12666-022-02748-6 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ti6Al7Nb-based TiB-reinforced composites by selective laser melting
Singh, Neera; Acharya, S.; **Prashanth, Konda Gokuldoss**; Chatterjee, Kaushik; Suwas, Satyam Journal of materials research 2021 / p. 3691-3700 https://doi.org/10.1557/s43578-021-00238-x Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ti6Al7Nb–TiB nanocomposites for ortho-implant applications
Singh, Neera; Edachery, Vimal; Rajput, Monika; Chatterjee, Kaushik; Kailas, Satish V.; **Prashanth, Konda Gokuldoss** Journal of materials research 2022 / p. 2525–2535 https://doi.org/10.1557/s43578-022-00578-2 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Tribological behavior of 316L stainless steel manufactured by selective laser melting
Al Noaimy, Omar; AlMangour, Bandar; Abdulsalam, Ezzet H.; Eckert, J.; **Prashanth, Konda Gokuldoss**; Chaubey, A. K.; Scudino, S.; Alzuhairyh, Sabih Hashim 4th international conference on architectural & civil engineering sciences 2023 / p. 142-146 https://doi.org/10.24086/ICACE2022/paper.889

Tribological properties of selective laser melted Al12Si alloy
Rathod, H.J.; Nagaraju, T.; **Prashanth, Konda Gokuldoss**; Ramamurty, U. Tribology international 2019 / p. 94-101 : ill https://doi.org/10.1016/j.triboint.2019.04.038 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Tungsten matrix composite reinforced with CoCrFeMnNi high-entropy alloy : impact of processing routes on microstructure and mechanical properties
Satyanarayana, P. V.; Sokkalingam, Rathinavelu; Jena, P. K.; Sivaprasad, Katakam; **Prashanth, Konda Gokuldoss** Metals 2019 / art. 992, 12 p. : ill https://doi.org/10.3390/met9090992 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Understanding the solute segregation and redistribution behavior in rapidly solidified binary Ti-X alloys fabricated through non-equilibrium laser processing
Ye, Zimeng; Zhao, Kexin; Yu, Zerong; **Prashanth, Konda Gokuldoss**; Zhang, Fengying; He, Yuqi; Peng, Yijie; Wu, Wenlu; Tan, Hua Additive Manufacturing 2024 / art. 104561 https://doi.org/10.1016/j.addma.2024.104561

Unusual deformation substructure and strain hardening in an additively manufactured CoCrFeMnNi high entropy alloy under high-velocity impact loading
Chen, Hongyu; Yang, Xiaofeng; Gu, Dongdong; Liu, Yang; Yang, Shengze; Chen, Xiyu; Kosiba, Konrad; Chen, Yufei; Du, Junhang; **Prashanth, Konda Gokuldoss** Journal of Material Science and Technology 2025 / p. 35-51 https://doi.org/10.1016/j.jmst.2025.02.087

Uued inimesed TalTechis
Lukas, Mati; **Joala, Epp**; **Scheler, Ott**; **Jõulu, Janno**; **Smolander, Olli-Pekka**; **Hitch, Michael William**; **Prashanth, Konda Gokuldoss**; **Masso, Anu**; **Sinisalu, Algi** Mente et Manu 2018 / lk. 42-47 : portr http://www.ester.ee/record=b1242496*est http://dea.digar.ee/publication/AKmenteetmanu https://taltech.ee/avalehekulg/?id=10641&category=128006#newsTabsMenu https://artiklid.elnet.ee/record=b2866975*est

Vacuum hot pressing of oxide dispersion strengthened ferritic stainless steels : effect of al addition on the microstructure and properties
Ganesan, Dharmalingam; Sellamuthu, Prabhukumar; **Prashanth, Konda Gokuldoss** Journal of Manufacturing and Materials Processing 2020 / art. 93 https://doi.org/10.3390/jmmp4030093 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Wear and corrosion resistance of a laser powder bed fused AZ91D magnesium matrix composite with TiC reinforcement
Xi, Lixia; Tian, Songmao; Zhang, Dong; Gu, Dongdong; Ramasamy, Parthiban; **Prashanth, Konda Gokuldoss**; Eckert, Jürgen Materials & Design 2025 / art. 114263 https://doi.org/10.1016/j.matdes.2025.114263

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 https://doi.org/10.1007/s12666-023-03216-5

Wire arc additive manufacturing of NiTi 4D structures : influence of interlayer delay
Singh, Shalini; Palani, Iyamperumal Anand; Paul, Christ Prakash; Funk, Alexander; **Prashanth, Konda Gokuldoss** 3D Printing and Additive Manufacturing 2024 / p. 152 - 162 https://doi.org/10.1089/3dp.2021.0296 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Work hardening in selective laser melted AlSi12Si alloy
Prashanth, Konda Gokuldoss Material design & processing communications 2019 / art. e46, 4 p. : ill https://doi.org/10.1002/mdp2.46