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

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

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

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

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

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

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 https://doi.org/10.1089/3dp.2022.0207

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 Tl6AL4V 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

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

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 2023 https://doi.org/10.1089/3dp.2022.0142

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

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

Densification of the eggshell powder by spark plasma sintering
Shukla, Riddhi; **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 next‐generation 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

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, R.; Rahmani, Ramin; **Juhani, Kristjan**; **Sergejev, Fjodor**; **Prashanth, Konda Gokuldoss** Micron 2024 / art. 103613 https://doi.org/10.1016/j.micron.2024.103613

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

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

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 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

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

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 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 2024 / 8 p. : ill https://doi.org/10.1007/s12008-023-01659-0

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

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

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

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

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

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

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

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 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 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 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

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

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

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

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 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

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

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

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

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**; **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, 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

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

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

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

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 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 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

Microstructure and properties of in‖situ 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

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

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

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

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

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

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

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

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

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 https://doi.org/10.1007/s12666-023-03247-y

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

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 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

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

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

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

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

Selective laser melting of TiC-Fe using 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

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

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

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

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 2023 / p. ? 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 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; **Prashanth, Konda Gokuldoss** Transactions of the Indian Institute of Metals 2023 / p. 435-445 https://doi.org/10.1007/s12666-022-02748-6

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

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

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 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 2023 https://doi.org/10.1089/3dp.2021.0296

Work hardening in selective laser melted AlI12Si alloy
Prashanth, Konda Gokuldoss Material design & processing communications 2019 / art. e46, 4 p. : ill https://doi.org/10.1002/mdp2.46