

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

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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 2024 / art. 173040 <https://doi.org/10.1016/j.jallcom.2023.173040> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Corrosion performance and structure of the titanium-based coatings deposited onto stainless steel substrate with arc plating

Rudenja, Sergei; Kulu, Priit; Talimets, Ellen; Mikli, Valdek; Erikhov, F.; Straede, C.A.; Zweg, T. Proceedings of the 40th Annual Technical Conference / Society of Vacuum Coaters 1997 / p. 58-63 : ill

Corrosion resistance of the stainless steel substrate coated by PVD

Rudenja, Sergei; Kulu, Priit; Talimets, Ellen; Mikli, Valdek Materials Engineering-96 : materials of VI-th International Baltic Conference, Kaunas, 22-23 October 1996 1996 / p. 3-6

Drilling of P/M produced stainless steels by using TiN-coated high speed steel tools

Paro, Jukka; Hänninen, Hannu; Kauppinen, Veijo International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference 25-27th September 1997, Tallinn, Estonia 1997 / p. 101-104: ill

Duplex TiN coating on stainless steel : an electrochemical and surface analysis study : doctoral thesis

Rudenja, Sergei 1999 https://www.ester.ee/record=b1330948*est

Duplex TiN coatings deposited by arc plating for increased corrosion resistance of stainless steel substrates

Rudenja, Sergei; Leygraf, C.; Pan, J.; Kulu, Priit; Talimets, Ellen; Mikli, Valdek Surface & coatings technology 1999 / p. 129-136 : ill [http://dx.doi.org/10.1016/S0257-8972\(99\)00033-X](http://dx.doi.org/10.1016/S0257-8972(99)00033-X)

Duplex titanium nitride coatings for corrosion prevention of stainless steel substrate

Rudenja, Sergei; Kulu, Priit; Talimets, Ellen; Mikli, Valdek Proceedings [of] Joint Nordic Conference in Powder Technology, November 26-27, 1997, Helsinki 1997 / p. 37

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

Uva Narayanan, Chellaiya; Daniel, Ashish; Praveenkumar, Kesavan; Manivasagam, Geetha; Suwas, Satyam; **Prashanth, Konda Gokuldoss**; Suya Prem Anand, Pandaravadivoo Journal of Manufacturing Processes 2024 / p. 1582-1593

<https://doi.org/10.1016/j.jmapro.2024.09.108> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of WC grain size and content on erosive wear of manual arc welded hardfacings with low-carbon ferritic-pearlitic steel or stainless steel matrix

Katinas, Egidijus; **Antonov, Maksim**; Jankauskas, Vytenis; Skirkus, Remigijus Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 213-218 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.213> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Enhanced passivity of austenitic AISI 304 stainless steel by low-temperature ion nitriding

Rudenja, Sergei; Odnevall Wallinder, Inger; Leygraf, C.; **Kulu, Priit; Mikli, Valdek** Abstract of 47th International Symposium : Vacuum, Thin Films, Surfaces/Interfaces and proceedings, AVS2000 2000 / p. SE-TuA4

Enhanced passivity of austenitic AISI 304 stainless steel by low-temperature ion nitriding

Rudenja, Sergei; Pan, J.; Odnevall Wallinder, Inger; Leygraf, C.; **Kulu, Priit; Mikli, Valdek** Journal of vacuum science & technology 2001 / 4, p. 1425-1431

Enhancement of corrosion resistance in stainless TiC-base hardmetals

Baranovskaja, Irina; Kübarsepp, Jakob; Kallast, Vambola Proceedings of the Second National DAAAM Conference in Estonia : Science'96 1997 / p. 6-12

Erosion wear behavior of HVOF-sprayed WC/Cr₃C₂-based cermet and martensitic stainless steel coatings on AlSi₇Mg_{0.3} alloy : a comparative study

Korobov, Yuri; **Antonov, Maksim**; Astafiev, Vladimir; Brodova, Irina; Kutaev, Vladimir; Estemirova, Svetlana; Devyatyarov, Mikhail; Okulov, Artem Journal of manufacturing and materials processing 2024 / art. 231 <https://doi.org/10.3390/jmmp8050231> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Erosive Wear of Stainless Steel-Based Hardfacings with Ex-Situ and In-Situ Synthesized TiC

Yöyler, Sibel; Surženkov, Andrei; Tarraste, Marek; Kolnes, Mart; Juhani, Kristjan Coatings 2025 / art. 658 <https://doi.org/10.3390/coatings15060658>

Eurokoodeks 3 : teraskonstruksioonide projekteerimine

Loorits, Kalju 2008 https://www.ester.ee/record=b2459148*est

Eurokoodeks 3 [Vörguteavik] : teraskonstruksioonide projekteerimine. Osa 1-4, Üldreeglid. Täiendavad reeglid roostevaba terase jaoks = Eurocode 3 : design of steel structures. Part 1-4, General rules. Supplementary rules for stainless steel

2021 https://www.ester.ee/record=b5417337*est

Eurokoodeks 3 [Vörguteavik] : teraskonstruksioonide projekteerimine. Osa 1-4, Üldreeglid. Täiendavad reeglid roostevaba terase jaoks = Eurocode 3 : design of steel structures. Part 1-4, General rules. Supplementary rules for stainless steel

2021 https://www.ester.ee/record=b5417334*est

Eurokoodeks 3: Teraskonstruksioonide projekteerimine

Loorits, Kalju 2008 https://www.ester.ee/record=b2459146*est

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>

Fatigue characteristics of PM steels = Pulberteraste väsimuskarakteristikud

Saarna, Mart 2008 https://www.ester.ee/record=b2413163*est

Fatigue of duplex steels in corrosive environment

Saarna, Mart Proceedings of the 5th International Conference of DAAAM Baltic : Industrial Engineering - Adding Innovation Capacity of Labour Force and Entrepreneur : 20-22 April 2006, Tallinn, Estonia 2006 / p. 289-293 : ill

Fatigue of duplex steels in synthetic white water environment

Saarna, Mart Powder metallurgy progress : journal of science and technology of particle materials 2006 / 3, p. 142-145

Friction studies of metal surfaces with various 3D printed patterns tested in dry sliding conditions

Holovenko, Yaroslav; **Antonov, Maksim**; Kollo, Lauri; **Hussainova, Irina** Proceedings of the Institution of Mechanical Engineers. Part J, Journal of engineering tribology 2018 / p. 43-53 <https://doi.org/10.1177/1350650117738920> [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](#)

Keevitamine : soovitud metallmaterjalide keevitamiseks. Osa 3, Roostevabade teraste kaarkeevitus = Welding : recommendations for welding of metallic materials. Part 3, Arc welding of stainless steels

2012 https://www.ester.ee/record=b2873974*est

Longitudinal mode L(0,4) used for the determination of the deposit width on the wall of a pipe

Chati, Farid; Leon, Fernand; El Moussaoui, Mustapha; **Klauson, Aleksander**; Maze, Gerard NDT&E international 2011 / p. 188-194 : ill <https://doi.org/10.1016/j.ndteint.2010.12.001>

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](#)

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](#)

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](#)

Milline pann osta? Kas odav pann teeb töö ära sama hästi kui kallis?
Arndt-Kalju, Margit; Kirikal, Siiri; Skuin, Mari; Tarkmeel, Krõõt delfi.ee 2023 [Milline pann osta? Kas odav pann teeb töö ära sama hästi kui kallis?](#)

A non-vacuum dip coated SiO₂ interface layer for fabricating CIGS solar cells on stainless steel foil substrates
Misra, Prashant; Atchuta, S. R.; **Mandati, Sreekanth**; Sarada, Bulusu V.; Rao, Tata Naransinga; Sakthivel, S. Solar energy 2021 / p. 471-477 : ill <https://doi.org/10.1016/j.solener.2020.12.007>

Passivation and anodic oxidation of duplex TiN coatings on stainless steel
Rudenja, Sergei; Pan, J.; Odneval Wallinder, Inger; Leygraf, C.; **Kulu, Priit** Journal of The Electrochemical Society 1999 / p. 4082-4086 https://www.researchgate.net/publication/234857934_Passivation_and_Anodic_Oxidation_of_Duplex_TiN_Coating_on_Stainless_Steel

Passivity of TiN layer: role in corrosion prevention of coated steel substrate
Rudenja, Sergei; **Kulu, Priit** Proceedings of the 2nd International Conference, 27-29th April 2000, Tallinn, Estonia / DAAAM International Vienna, DAAAM National Estonia 2000 / p. 225-228 : ill

Plasma-transferred arc-welded composite hardfacings with ZrB₂ and TiC reinforcements
Melakh, Liudmyla; **Surzhenkov, Andrei**; **Juhani, Kristjan**; **Viljus, Mart**; **Traksmäa, Rainer**; Vedel, Dmytro Proceedings of the Estonian Academy of Sciences 2025 / p. 165-169 <https://doi.org/10.3176/proc.2025.2.15>

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>

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>

Roostevaba kastruliga saab tervisliku leeme : [vestlus Ants Virkusega]
Virkus, Ants; **Kirss, Kristel** Sõnumileht 1999 / 17. veebr., lk. 8

100 aastat roostevaba terast
Kulu, Priit Eesti Päevaleht 2013 / Metallileht, lk. 4-5 https://www.ester.ee/record=b1072079*est

Sliding wear of composite stainless steel hardfacing under room and elevated temperature
Surzhenkov, Andrei; **Baroninš, Janis**; **Viljus, Mart**; **Traksmäa, Rainer**; **Kulu, Priit** Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 195-200 : ill <https://doi.org/10.4028/www.scientific.net/SSP.267.195> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Stainless hardmetals and their electrochemical corrosion resistance
Kübarsepp, Jakob; **Kallast, Vambola** Werkstoffe und Korrosion 1994 / p. 452-458: ill

Teraskonstruksioonid
Talvik, Ivar 2005 https://www.ester.ee/record=b2103295*est

Teraskonstruksioonid. Osa 1.4, Roostevabast terasest konstruktsioonide projekteerimine : Eesti projekteerimismid, EPN-ENV 3.1.4 : (eelnoü) : välja antud mai 1997
Loorits, Kalju ET-kartoteek : Eesti ehitustea. ET-1 1997 / ET-1 0113-0198, 24 lk

Tool life in stainless steel AISI 304 : applicability of Colding's tool life equation for varying tool coatings

Johansson, Daniel; Leemet, Tõnu; Allas, Jaanus; Madissoo, Marten; **Adoberg, Eron**; Schultheiss, Fredrik Proceedings of the Estonian Academy of Sciences 2016 / p. 172-176 : ill https://artiklid.einet.ee/record=b2768232*est <https://doi.org/10.3176/proc.2016.2.13>
[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.; Alzuhaireh, Sabih Hashim 4th international conference on architectural & civil engineering sciences 2023 / p. 142-146
<https://doi.org/10.24086/ICACE2022/paper.889>

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](#)

Исследование изнашивания нержавеющей сталей на центробежном трибометре

Kallasvee, Andres; Saar, Bernhard Трение и износ в машинах. 14 1987 / с. 64-68

Коррозионная стойкость нержавеющей порошковых твердых сплавов TiC-сталь

Kallast, Vambola; Kübarsepp, Jakob; Schächter, Klára; Lohonyai, Nándor Periodica polytechnica. Chemical engineering = Химия 1987 / с. 213-219 : ил., табл https://www.ester.ee/record=b1198772*est