

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

Al-SiC nanocomposites produced by high-energy milling and hot pressing

Kollo, Lauri; Bradbury, Christopher R.; Leparoux, Marc 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 25 : ill

Aluminium - stainless steel hybrid composites obtained by selective laser melting and centrifugal casting [Online resource]

Holovenko, Yaroslav; **Kollo, Lauri**; **Kolnes, Märt** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fmtdk.ut.ee/teesid/>

Aluminum based composite by novelty process : Repetitive Press Roll Bonding (RPRB)

Pramono, Agus; **Kollo, Lauri**; **Veinthal, Renno** Procedia chemistry 2015 / p. 473-479 : ill <http://dx.doi.org/10.1016/j.proche.2015.12.081>

Atomic layer deposition for hard nanocoatings

Jõgiaas, Taivo; **Kollo, Lauri**; **Hussainova, Irina** Baltic ALD 2014 : 12th International Baltic Conference on Atomic Layer Deposition : May 12-13, 2014, Helsinki, Finland 2014 / p. 91-92

Atomic layer deposition of alumina on g-Al₂O₃ nanofibres

Jõgiaas, Taivo; Arroval, Tõnis; **Kollo, Lauri**; **Hussainova, Irina** Physica status solidi (a) : applications and materials science 2014 / p. 403-408 : ill <https://doi.org/10.1002/pssa.201330083> [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](#)

Characterization of TiC-FeCrMn cermets produced by powder metallurgy method

Kolnes, Märt; **Kübarsepp, Jakob**; **Kollo, Lauri**; **Viljus, Mart** Medžiagotyra = Materials science 2015 / p. 353-357 : ill <https://doi.org/10.5755/j01.ms.21.3.7364> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Combination of SLM-SPS approaches for tribological, antibacterial and biomaterial applications = Kombineeritud SLM-SPS meetod triboloogiliste, antibakteriaalsete ja biosobivate materjalide valmistamiseks

Rahmani Ahranjani, Ramin 2020 <https://digikogu.taltech.ee/et/Item/4cd6a755-29d9-4168-a281-a21edca6c729>

Combustion synthesis of MoSi₂ based composite and selective laser sintering thereof

Minasyan, Tatevik; **Aghayan, Marina**; **Liu, Le**; **Aydinyan, Sofiya**; **Kollo, Lauri**; **Hussainova, Irina**; Rodriguez, Miguel Angel Journal of the European Ceramic Society 2018 / p. 3814-3821 : ill <https://doi.org/10.1016/j.jeurceramsoc.2018.04.043> [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 mechanical and antibacterial properties of TiO₂/Ag ceramics and Ti₆Al₄V-TiO₂/Ag composite materials using combined SLM-SPS techniques

Rahmani Ahranjani, Ramin; **Rosenberg, Merilin**; **Ivask, Angela**; **Kollo, Lauri** Metals 2019 / art. 874, 13 p. : ill <https://doi.org/10.3390/met9080874> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Composites compaction by severe plastic deformation

Kommel, Lembit; **Kollo, Lauri** Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 29

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

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Densification of the eggshell powder by spark plasma sintering

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Effect of atomic layer deposited aluminium oxide on mechanical properties of porous silicon carbide

Jõgiaas, Taivo; **Kollo, Lauri**; Kozlova, Jekaterina; Tamm, Aile; **Hussainova, Irina**; Kukli, Kaupo Ceramics international 2015 / p. 7519-7528 : ill <https://doi.org/10.1016/j.ceramint.2015.02.074> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of hot isostatic pressing on cellular lattice structures obtained by selective laser melting [Electronic resource]

Holovenko, Yaroslav; Kollo, Lauri; Jõeleht, Marek; Pohlak, Meelis; Veinthal, Renno World PM2016 proceedings 2016 / [USB]

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 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 sinter/HIP technology on properties of TiC-NiMo cermets

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Effect of the laser processing parameters on the selective laser melting of TiC-Fe-based cermets

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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 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

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

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Grain size-dependent mechanical and wear properties of TiC-FeNi steel cermets

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Hardness of hot consolidated Al-SiC nanocomposites from planetary milled powders

Kollo, Lauri; Leparoux, Marc; Bradbury, Christopher R.; **Kommel, Lembit**; Carreno-Morelli, Efrain; Rodriguez-Arbaizar, M. World PM2010 proceedings. Vol. 1, Powder Manufacturing and Processing, Miniaturization and Nanotechnology, Powder Pressing 2010 / p. 341-346 https://www.researchgate.net/publication/272160715_Hardness_of_Hot_Consolidates_Al-SiC_Nanocomposites_from_Planetary_Milled_Powders

Hardness of multi wall carbon nanotubes reinforced aluminium matrix composites

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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

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Influence of pressurized sintering on the performance of TiC-based cermets

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Investigation of planetary milling for nano-silicon carbide reinforced aluminium metal matrix composites

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Mechanical properties and wear performance of compression sintered TiC based cermets

Klaasen, Heinrich; Kollo, Lauri; Kübarsepp, Jakob Powder metallurgy 2007 / 2, p. 132-136

Mechanically activated synthesis of ZrC nanopowders to produce composites with TiC and Mo additives

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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

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Nano-silicon carbide reinforced aluminium produced by high-energy milling and hot consolidation

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A novel approach to fabricate Si₃N₄ by selective laser melting

Minasyan, Tatevik; Liu, Le; Aghayan, Marina; Kollo, Lauri; Kamboj, Nikhil Kumar; Aydinyan, Sofiya; Hussainova, Irina Ceramics international 2018 / p. 13689-13694 : ill <https://doi.org/10.1016/j.ceramint.2018.04.208> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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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](#)

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Production of metal–ceramic lattice structures by selective laser melting and carburizing or nitriding

Holovenko, Yaroslav; Kollo, Lauri; Jõelet, Marek; Ivanov, Roman; Soloviova, Tetiana; **Veinthal, Renno** Proceedings of the Estonian Academy of Sciences 2019 / p. 131–139 : ill <https://doi.org/10.3176/proc.2019.2.02> http://www.kirj.ee/public/proceedings_pdf/2019/issue_2/proc-2019-2-131-139.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Progress in additive manufacturing of MoS₂-based structures for energy storage applications – a review

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Reactive sintering of zirconium carbide based systems

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Reactive sintering of (Ti,W)C-Ni and TiC-FeNiSi cermets from high-energy milled powders

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Role of laser remelting and heat treatment in mechanical and tribological properties of selective laser melted Ti6Al4V alloy

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