

AC magnetic loss reduction of SLM processed Fe-Si for additive manufacturing of electrical machines

Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Tarraste, Marek; Vaimann, Toomas; Rassõlkin, Anton; Asad, Bilal; Shams Ghahfarokhi, Payam Energies 2021 / 13 p. : ill <https://doi.org/10.3390/en14051241> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Acoustic analysis of compact silencer solution based on microperforated panel

Villau, Margus; Rämmal, Hans; Lavrentjev, Jüri Modern Materials and Manufacturing 2023 : Tallinn, Estonia, 2–4 May 2023 2024 / art. 030014 <https://doi.org/10.1063/5.0189854> [Article at Scopus](#) [Conference Proceedings at Scopus](#)

Acoustic and thermoacoustic properties of an additive manufactured lattice structure

Di Giulio, Elio; Auriemma, Fabio; Napolitano, Marialuisa; Dragonetti, Raffaele The Journal of the Acoustical Society of America 2021 / art. 3878 <https://doi.org/10.1121/10.0005085> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Additive design possibilities of electrical machines

Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659828>

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, 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 and Performance of E-Type Transformer Core

Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Rassõlkin, Anton; Vaimann, Toomas; Shams Ghahfarokhi, Payam Energies 2021 / art. 3278 <https://doi.org/10.3390/en14113278> [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 electrical machines - towards the industrial use of a novel technology

Vaimann, Toomas; Kallaste, Ants Energies 2023 / art. 544 <https://doi.org/10.3390/en16010544> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Additive manufacturing of prototype axial flux switched reluctance electrical machine

Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rassõlkin, Anton 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 4 p. : ill <https://doi.org/10.1109/IWED52055.2021.9376337>

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](#)

Additively manufactured and topology optimized heatsink for a propulsion motor

Sarap, Martin; Kallaste, Ants; Vaimann, Toomas; Shams Ghahfarokhi, Payam 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p <https://doi.org/10.1109/ICEM60801.2024.10700108>

Additively manufactured spoke-type permanent magnet rotors : Solutions to multidisciplinary design challenges and comparison with traditional design

Ajamloo, Akbar Mohammadi; Tiismus, Hans; Kallaste, Ants; Ibrahim, Mohamed N.; Sergeant, Peter IEEE transactions on energy conversion 2025 / 12 p. <http://doi.org/10.1109/TEC.2025.3619827> <https://ieeexplore.ieee.org/document/11197694>

Ajujahil kaugele jõudnud roheidu päästab maailma suitsukonidest, tehes neist materjali 3D-printerite ja plastitöösturite jaoks

Laikoja, Linda-Liis digipro.geenius.ee 2023 [Ajujahil kaugale jõudnud roheidu päästab maailma suitsukonidest, tehes neist materjali 3D-printerite ja plastitöösturite jaoks](#)

Analysis of advanced passive heatsinks for electrical machines enabled by additive manufacturing

Sarap, Martin; Kallaste, Ants; Shams Ghahfarokhi, Payam; Vaimann, Toomas 2023 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings 2023 / 6 p. : ill <https://doi.org/10.1109/WEMDCD55819.2023.10110940>

Application issues of additive manufacturing in plaster mold casting of metals

Pohlak, Meelis; Sergejev, Fjodor; Tähemaa, Toivo; Saarna, Mart; Viljus, Mart; Hermaste, Aigar Proceedings of the Estonian Academy of Sciences 2025 / p. 181-185 <https://doi.org/10.3176/proc.2025.2.18>

Application of active thermography for the study of losses in components produced by laser powder Bed fusion

Quercio, Michele; Poskovic, Emir; Franchini, Fausto; Fracchia, Elisa; Ferraris, Luca; Canova, Aldo; Tenconi, Alberto; **Tiismus, Hans; Kallaste, Ants** Journal of magnetism and magnetic materials 2024 / art. 171796 <https://doi.org/10.1016/j.jmmm.2024.171796> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application potential of combining strain hardening cementitious composites and helical reinforcement for 3D concrete printed structures : case study of a spiral staircase

Hass, Lauri; Neftci, K.; Bos, F. P.; Salet, T. A. M. Journal of building engineering 2023 / art. 107926 <https://doi.org/10.1016/j.jobe.2023.107926> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An approach to analyze the performance of advanced manufacturing environment

Mahmood, Kashif; Otto, Tauno; Golova, Jelena; Kangru, Tavo; Kuts, Vladimir Procedia CIRP 2020 / p. 628-633 <https://doi.org/10.1016/j.procir.2020.04.042> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Assessment of 3D printed steels and composites intended for wear applications in abrasive, dry or slurry erosive conditions

Kumar, Rahul, 1993-; Antonov, Maksim; Beste, U.; **Goljandin, Dmitri** International journal of refractory metals and hard materials 2020 / art. 105126, 9 p. : ill <https://doi.org/10.1016/j.jirmhm.2019.105126> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Assessment of tribological performance of 3D printed macro features on the metallic surface

Antonov, Maksim; Pohlak, Meelis; Ivanov, Roman; Kariminejad, Arash; Hussainova, Irina Wear 2026 / art. 206398 <https://doi.org/10.1016/j.wear.2025.206398>

At the turning point of the current techno-economic paradigm : commons-based peer production, desktop manufacturing and the role of civil society in the Perezian framework

Kostakis, Vasileios TripleC 2013 / p. 173-190 <https://doi.org/10.31269/triplec.v11i1.463> [Journal metrics at Scopus](#) [Article at Scopus](#)

Axially asymmetric design for additive manufacturing of synchronous reluctance machines

Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 5 p <https://doi.org/10.1109/IEMDC55163.2023.10238995>

Bending and pull-out tests on a novel screw type reinforcement for extrusion-based 3D printed concrete

Hass, Lauri; Bos, Freek Second RILEM International Conference on Concrete and Digital Fabrication : Digital Concrete 2020 2020 / p. 632-645 : ill https://doi.org/10.1007/978-3-030-49916-7_64 [Journal metrics at Scopus](#) [Article at Scopus](#)

Betooni 3D-printimine Eesti kogemuse näitel

director.ee 2023 [Betooni 3D-printimine Eesti kogemuse näitel](#)

Betooniühingu uus juht: «Me ei ole nii rikkad, et loobuda betoonist!»

Kolk, Mariliis; Strandberg, Marek Postimees 2021 / Lk. 11 <https://dea.digar.ee/article/postimees/2021/06/14/11.1>

Bioactive ceramic scaffolds for bone tissue engineering by powder bed selective laser processing : a review

Kamboj, Nikhil Kumar; Ressler, Antonia; **Hussainova, Irina** Materials 2021 / art. 5338 <https://doi.org/10.3390/ma14185338> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Biomimetics

2024 https://www.mdpi.com/journal/biomimetics/special_issues/0K2292JW30

Bond governed interactions between helical reinforcement and 3D printed concrete

Hass, Lauri; Bos, F.P.; Salet, T.A.M. Journal of building engineering 2025 / art. 111447, 28 p. : ill
<https://doi.org/10.1016/j.jobbe.2024.111447>

Can 3D printing bring droplet microfluidics to every lab? - A systematic review

Gyimah, Nafisat; Scheler, Ott; Rang, Toomas; Pardy, Tamas Micromachines 2021 / art. 339 <https://doi.org/10.3390/mi12030339>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Characterizing the bond properties of automatically placed helical reinforcement in 3D printed concrete

Hass, Lauri; Bos, F.P.; Salet, T.A.M. Construction and building materials 2022 / art. 129228, 16 p. : ill
<https://doi.org/10.1016/j.conbuildmat.2022.129228> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

CNC machining of halftone and lithophane images into wood-based panels

Kiiman, Karmo; Luga, Üllar; Kers, Jaan Proceedings of the 12th Meeting of the Northern European Network for Wood Science and Engineering (WSE) : Wood Science and Engineering - a Key Factor on the Transition to Bioeconomy : September 12-13, 2016, Riga, Latvia 2016 / p. 74-79 : ill <http://www.kki.lv/dokumenti/WSE2016.pdf>

CNC machining of halftone and lithophane images into wood-based panels [Online resource]

Kiiman, Karmo; Luga, Üllar; Poltimäe, Triinu; Kers, Jaan Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / p. 1 <http://fntdk.ut.ee/teesid-2018/>

Commons-based peer production and digital fabrication : the case of a RepRap-based, Lego-built 3D printing-milling machine

Kostakis, Vasileios; Papachristou, Marios Telematics and informatics 2014 / p. 434-443 : ill <https://doi.org/10.1016/j.tele.2013.09.006>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparative Study of Advanced Heatsink Structures for Improved Thermal Performance in Axial Flux Motors

Sarap, Martin; Singh, Shalini; **Kallaste, Ants**; Qureshi, Ahmed Jawad; **Tiismus, Hans; Vaimann, Toomas**; Shams Ghahfarokhi, Payam IEEE Access 2025 / p. 100850-100860 <https://doi.org/10.1109/ACCESS.2025.3577289>

The concept of information technology for ensuring accessibility to art objects for the visually impaired persons

Hovorushchenko, Tetiana; Voichur, Oleg; Hovorushchenko, Olha; **Boyarchuk, Artem**; Zasornova, Iryna IntelITSIS 2024 : 5th International Workshop on Intelligent Information Technologies and Systems of Information Security, March 28, 2024 : proceedings 2024 / p. 208-222 <https://ceur-ws.org/Vol-3675/> [Article at Scopus](#) [Conference Proceedings at Scopus](#)

Concepts of additively manufactured electrical machines and components

Vaimann, Toomas; Tiismus, Hans; Kallaste, Ants 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 6 p <https://doi.org/10.1109/EPE58302.2023.10149252>

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](#)

Corrections to “Opportunities and Challenges of Utilizing Additive Manufacturing Approaches in Thermal Management of Electrical Machines”

Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; **Kallaste, Ants**; Marques Cardoso, Antonio J.; **Belahcen, Anouar; Vaimann, Toomas; Tiismus, Hans; Asad, Bilal** IEEE Access 2021 / p. 62532 <https://doi.org/10.1109/ACCESS.2021.3074827> [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](#)

Design and modeling of contoured airgap topology for additively manufactured electrical machines = Kõverdatud õhupilu topoloogiaga kihtlisandusmeetodil valmistatud elektrimasinate projekteerimine ja modelleerimine

Naseer, Muhammad Usman 2025 https://www.ester.ee/record=b5747039*est <https://doi.org/10.23658/taltech.32/2025>
<https://digikogu.taltech.ee/et/Item/af3abd72-6077-43be-b7ed-5fa0b3f58602>

Design and performance of laser additively manufactured core induction motor

Tiismus, Hans; Kallaste, Ants; Naseer, Muhammad Usman; Vaimann, Toomas; Rassõlkin, Anton IEEE Access 2022 / p. 50137-50152 <https://doi.org/10.1109/ACCESS.2022.3173317> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design global, manufacture local : exploring the contours of an emerging productive model

Kostakis, Vasileios; Niaros, Vasileios; Dafermos, George; Bauwens, Michel Futures 2015 / p. 126-135 : ill <https://doi.org/10.1016/j.futures.2015.09.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design of an additively manufactured polymer composite electrical machine

Sarap, Martin; Kallaste, Ants; Naseer, Muhammad Usman; Tiismus, Hans; Rjabtsikov, Viktor; Shams Ghahfarokhi, Payam; Vaimann, Toomas; Aman, Alexander; Kutia, Mykhailo 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227413>

Design of an additively manufactured thermal solution for an axial flux switched reluctance motor

Sarap, Martin; Singh, Shalini; Kallaste, Ants; Jawad Qureshi, Ahmed Jawad; Tiismus, Hans; Vaimann, Toomas; Shams Ghahfarokhi, Payam Case studies in thermal engineering 2025 / art. 105805 <https://doi.org/10.1016/j.csite.2025.105805>

Design optimization of 3D-printed permanent magnet clutch

Andriushchenko, Ekaterina 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2022 / p. 31-32 : ill https://www.ester.ee/record=b5457278*est

Design optimization of permanent magnet clutch with Ārtap framework

Andriushchenko, Ekaterina; Kaska, Jan; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rassõlkin, Anton Periodica polytechnica electrical engineering and computer science 2021 / p. 106-112 <https://doi.org/10.3311/PPee.17007> [Journal metrics at Scopus](#) [Article at Scopus](#)

Design procedure and preliminary analysis for the introduction of axial asymmetry in the synchronous reluctance machines : [proceedings]

Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton 2023 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings 2023 / 6 p. : ill <https://doi.org/10.1109/WEMDCD55819.2023.10110903>

Determining the thermal conductivity of additively manufactured metal specimens

Sarap, Martin; Kallaste, Ants; Shams Ghahfarokhi, Payam; Tiismus, Hans; Vaimann, Toomas 2022 29th International Workshop on Electric Drives: Advances in Power Electronics for Electric Drives (IWED) 2022 / 4 p <https://doi.org/10.1109/IWED54598.2022.9722591>

Development of an axial flux SRM through additive manufacturing

Hussain, Shahid; Kallaste, Ants; Naseer, Muhammad Usman; Tiismus, Hans; Vaimann, Toomas 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p <https://doi.org/10.1109/ICEM60801.2024.10700569>

Development of the reconfigurable continuous track robot

Valme, Daniil 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 15-16 : ill https://www.ester.ee/record=b5504019*est

Digiehituse tulevikutegija on Kerdo Kütt

EhitusEST 2021 / lk. 34-35 : fot https://www.ester.ee/record=b4442657*est <https://digikogu.taltech.ee/en/Item/6cf35e3f-60cd-4067-aaaa-29cc49606c70>

A Digital ecosystem for personal manufacturing : an architecture for cloud-based distributed manufacturing operating systems

Vedešin, Anton; Dogru, John Mehmet Ulgar; Liiv, Innar; Draheim, Dirk; Ben Yahia, Sadok MEDES '19 : A Digital Ecosystem for Personal Manufacturing : An Architecture for Cloud-based Distributed Manufacturing Operating Systems : proceedings 2019 / p. 224-228 : ill <https://doi.org/10.1145/3297662.3365792>

Direct conductor cooling of outer-rotor machine enabled by additive manufacturing

Sarap, Martin; Kallaste, Ants; Shams Ghahfarokhi, Payam; Tiismus, Hans; Vaimann, Toomas 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 4 p <https://doi.org/10.1109/IEMDC55163.2023.10238858>

Doktoritöö: 3D-printimine avab elektrimasinate ehitamisel uue horisondi [Võrguväljaanne]

Alvela, Ain novaator.err.ee 2022 [Doktoritöö: 3D-printimine avab elektrimasinate ehitamisel uue horisondi](#) <https://digikogu.taltech.ee/et/Item/1a6cde04-f268-42c1-95d7-b9a43dd70046>

EBSI 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](#)

Eddy current loss reduction prospects in laser additively manufactured soft magnetic cores

Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 1511-1516 <https://doi.org/10.1109/ICEM51905.2022.9910679>

Eesti Maaülikoolis valiti parim 3D Fusion tootedisainer

goodnews.ee 2024 [Eesti Maaülikoolis valiti parim 3D Fusion tootedisainer](#)

Eesti sai esimese 3D-metalliprinteri

Ehitaja 2015 / lk. 34

The effect of build direction on the thermal conductivity of additively manufactured AIS10Mg and silicon-steel samples

Sarap, Martin; Kallaste, Ants; Shams Ghahfarokhi, Payam; Tiismus, Hans; Vaimann, Toomas 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 538-543 <https://doi.org/10.1109/ICEM51905.2022.9910944>

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 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](#)

The effect of printing direction on the strength characteristics of a 3D printed concrete wall section

Põldaru, Mattias; Tammkõrv, Karl; Tuisk, Tanel; Kiviste, Mihkel; Puust, Raido Buildings 2023 / art. 2917 <https://doi.org/10.3390/buildings13122917> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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 surface features stiffness on tribological performance of 3D printed light-weight Ti6Al4V alloy

Antonov, Maksim; Pohlak, Meelis; Ivanov, Roman; Hussainova, Irina Modern materials and manufacturing 2023 2024 / art. 040015 <https://doi.org/10.1063/5.0189279> [Conference proceedings at Scopus](#) [Article at Scopus](#)

The effect of temperature and sliding speed on friction and wear of Si3N4, Al2O3, and ZrO2 balls tested against AlCrN PVD coating

Antonov, Maksim; Afshari, Hossein; Baroninš, Janis; Adoberg, Eron; Raadik, Taavi; Hussainova, Irina Tribology international 2018 / p. 500-514 : ill <https://doi.org/10.1016/j.triboint.2017.05.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrical and thermal anisotropy in additively manufactured AlSi10Mg and Fe-Si samples

Sarap, Martin; Tiismus, Hans; Kallaste, Ants; Saarna, Mart; Kolnes, Märt; Shams Ghahfarokhi, Payam; Vaimann, Toomas Machines 2025 / art. 1 <https://doi.org/10.3390/machines13010001>

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

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](#)

Elektrimootorite 3D-printimine ei ole ulme

Vaimann, Toomas; Kallaste, Ants Director. Inseneeria 2021 / lk. 74-78 : fot <https://director.ee/2021/02/03/elektrimootorite-3d-printimine-ei-ole-ulme/> http://www.ester.ee/record=b2336521*est

Enamete dimensionidega printerid

Laas, Peeter Studioosus 2013 / lk. 28 https://www.ester.ee/record=b1558644*est

Erosive wear resistance of nature-inspired flexible materials

Kumar, Rahul, 1993-; Antonov, Maksim; Holovenko, Yaroslav; Surženkov, Andrei Tribology letters 2020 / art. 51, 8 p. : ill <https://doi.org/10.1007/s11249-020-01296-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evaluation of 3D-printed magnetic materials for additively-manufactured electrical machines

Selema, Ahmed; Beretta, Margherita; Van Coppenolle, Matty; **Tiismus, Hans; Kallaste, Ants**; Ibrahim, Mohamed N.; Rombouts, Marleen; Vleugels, Jozef; Kestens, Leo A.I.; Sergeant, Peter Journal of magnetism and magnetic materials 2023 / art. 170426, 12 p. : ill <https://doi.org/10.1016/j.jmmm.2023.170426> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evaluation of Geometrical Precision and Surface Roughness Quality for the Additively Manufactured Radio Frequency Quadrupole Prototype

Torims, Toms; Ratkus, G.; Pikurs, D.; Krogere, D.; Vretenar, M.; Cherif, A.; Gruber, S.; Lopez, E.; Pozzi, M.; **Otto, Tauno** 13th International Particle Accelerator Conference, June 12-17, 2022 : conference proceedings 2022 / p. 787-791 : ill <https://doi.org/10.18429/JACoW-IPAC2022-TUOXSP3> <https://accelconf.web.cern.ch/ipac2022/papers/IPAC2022-proceedings.pdf>

Evaluation of geometrical precision and surface roughness quality for the additively manufactured radio frequency quadrupole prototype

Torims, Toms; Cherif, A.; Delerue, Nicholas; Foppa Pedretti, M.; Gruber, Samira; Krogere, Dagnija; Lopez, Elena Torres; **Otto, Tauno**; Pikurs, Guntis; Pozzi, Matteo; Ratkus, A.; Thielmann, Michael; Vedani, Maurizio; Vretenar, Maurizio; Wagenblast, Philipp C. 13th International Particle Accelerator Conference (IPAC'22) 12 - 17 June 2022, Bangkok, Thailand 2023 / art. 012089 <https://doi.org/10.1088/1742-6596/2420/1/012089> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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>

Experimental analysis of end mill axis inclination and its influence on 3D areal surface texture parameters

Logins, Andris; Rosado Castellano, Pedro; Torims, Toms; Gutierrez, Santiago C.; **Sergejev, Fjodor** Proceedings of the Estonian Academy of Sciences 2017 / p. 194-201 : ill <https://doi.org/10.3176/proc.2017.2.09> http://www.ester.ee/record=b2355998*est https://artiklid.elnet.ee/record=b2820942*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental measurements and numerical modelling of additively manufactured Fe-Si cores

Stella, Marco; Faba, Antonio; Fulginei, F. Riganti; Quercio, Michele; Scorretti, Riccardo; Bertolini, Vittorio; Sabino, Luis Gustavo; **Tiismus, Hans; Kallaste, Ants**; Cardelli, Ermanno Journal of magnetism and magnetic materials 2024 / art. 171752 <https://doi.org/10.1016/j.jmmm.2024.171752> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fabrication of localized diamond-filled copper structures via selective laser melting and spark plasma sintering

Rahmani Ahranjani, Ramin; Karimi, Javad; Kamboj, Nikhil; Kumar, Rahul, 1993-; Brojan, Miha; Tchórz, Adam; Skrabalak, Grzegorz; Lopes, Sergio Ivan Diamond and related materials 2023 / art. 109916 <https://doi.org/10.1016/j.diamond.2023.109916> [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](#)

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](#)

The galvanostatic co-deposition of 3D-grown Ni-rGO nanocomposite : redox enhancement through reduction, texture, and morphology : oral presentation

Alinejadian, Navid; Nasirpour, Farzad Graphene Summit 2021 : Global Virtual Summit on Carbon, Graphene, 0D, 1D, and 2D materials, July 22-23, 2021, Beaverton, Oregon, United States of America : online 2021 / p. 2 <https://re.public.polimi.it/retrieve/handle/11311/1180988/644510/Global%20virtual%20summit%20on%20Carbon%2C%20graphene%20...%20-%2022-23.07.2021%20-%20Program.pdf>

Helical reinforcement in 3D printed concrete : development and characterization of a novel reinforcement technique = Heeliksarmatuur 3D-prinditud betoonis : uudse armeerimistehnika väljatöötamine ja iseloomustamine

Hass, Lauri 2025 https://www.ester.ee/record=b5729299*est <https://digikogu.taltech.ee/et/Item/8dbb1c2d-6025-4491-a2ce-60867c902d90>

<https://doi.org/10.23658/taltech.1/2025>

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](#)

Human foot motion simulation during walking

Žigailov, Sergei; **Arjassov, Gennadi**; **Penkov, Igor**; Musalimov, Victor Machines, technologies, materials 2019 / p. 198-201 : ill <https://stumejournals.com/journals/mtm/2019/5/198>

Hüdrograafia hariduse uued horisondid ja võimalused

arileht.delfi.ee 2023 [Hüdrograafia hariduse uued horisondid ja võimalused](#)

Hysteresis loss evaluation of additively manufactured soft magnetic core

Tiismus, Hans; **Kallaste, Ants**; **Belahcen, Anouar**; **Rassölkin, Anton**; **Vaimann, Toomas** 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1657-1661 <https://doi.org/10.1109/ICEM49940.2020.9270836>

Hysteresis measurements and numerical losses segregation of additively manufactured silicon steel for 3D printing electrical machines

Tiismus, Hans; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas**; **Rassölkin, Anton**; Lukichev, Dmitry Applied sciences 2020 / art. 6515, 15 p <https://doi.org/10.3390/app10186515> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ida-Tallinna Keskhaigla arendab taastusravi koos Tehnikaülikooliga [Võrguväljaanne]

Liiviste, Prit pealinn.ee 2021 ["Ida-Tallinna Keskhaigla arendab taastusravi koos Tehnikaülikooliga."](#)

Idufirma Filaret toodab suitsukonidest 3D printimiseks materjali [Võrguväljaanne]

digi.geenius.ee 2022 [Idufirma Filaret toodab suitsukonidest 3D printimiseks materjali](#)

Impact of the scanning strategy on the mechanical behavior of 316L steel synthesized by selective laser melting

Salman, O. O.; Brenne, F.; Niendorf, 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](#) [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](#)

Increasing of rapid prototyping performance by 3D printing technologies

Sonk, Kaimo; **Matsi, Birthe**; **Otto, Tauno**; **Roosimölder, Lembit** Journal of machine engineering 2009 / 1S, p. 121-129

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 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>

Inseneride ja arstide loodud nutikorsett tõhustab vildakselgsuse ravi [Võrguväljaanne]

postimees.ee 2022 [Inseneride ja arstide loodud nutikorsett tõhustab vildakselguse ravi](#)

Intellectual property protection of 3D printing using secured streaming

Sepp, Paula-Mai; Vedešin, Anton; Dutt, Pawan Kumar The future of law and eTechnologies 2016 / p. 81-109 : ill http://dx.doi.org/10.1007/978-3-319-26896-5_5

20 000 vandaalikindlat mesilast

Mente et Manu 2018 / lk. 6 : fot <https://www.ttu.ee/ttu-uudised/ajaleht-mente-et-manu/mente-et-manu/> http://www.ester.ee/record=b1242496*est
https://artiklid.elnet.ee/record=b2836001*est

Kohalikud 3D printimise gurud räägivad asjast

Reino, Rasmus Studioosus 2014 / lk. 14 https://www.ester.ee/record=b1558644*est

Kolledž kutsub kasutama kõige moodsamaid seadmeid

Põhjarannik 2016 / lk. 3

3D-prinditud jahuti muudab elektrimasinad töökindlamaks ja tõhusamaks

Sarap, Martin novaator.err.ee 2023 [3D-prinditud jahuti muudab elektrimasinad töökindlamaks ja tõhusamaks](#)

3D-printimine teel tööstusesse

Puusild, Harro; Strandberg, Marek Äripäev 2016 / lk. 34-35

3D printimine avab elektrimasinate tootmisel ennenägematuid võimalusi

Vaimann, Toomas Elektriala 2023 / lk. 22-23 : portr., fot https://www.ester.ee/record=b1240496*est

3D-printerid leiavad tee kooli

Lees, Merike Äripäev 2015 / Tööstus, Lk. 18-22 <https://dea.digar.ee/article/aptoostus/2015/04/28/17.1>

3D-printimise tavatu turvaauk

Strandberg, Marek Inseneeria 2016 / lk. [8] : ill https://artiklid.elnet.ee/record=b2762497*est

3D-printimise võimalused on meditsiinis piiratud

Kolk, Mariliis Postimees 2021 / Lk. 8-9 : ill <https://dea.digar.ee/article/ak/2021/05/15/6.2>

3D-prinditud koerad, majad ja autod – kuidas aitab printimine keskkonda päästa?

aripaev.ee 2023 [3D-prinditud koerad, majad ja autod – kuidas aitab printimine keskkonda päästa?](#)

3D-printer on tööstuses muutumas sama tavaliseks kui klassikaline paberiprinter

Tööstus : [ajalehe Eesti Päevaleht lisa] 2023 / Lk. 20-23 https://www.ester.ee/record=b4750061*est

3D-printer on tööstuses muutumas sama tavaliseks kui klassikaline paberiprinter

Aunap, S. Tööstus : [ajalehe Eesti Päevaleht lisa] 2023 / Lk. 20-22 https://www.ester.ee/record=b4750061*est

3D-printimine töötab teha mootoritele uuenduskuuri

Tiismus, Hans novaator.err.ee 2023 [3D-printimine töötab teha mootoritele uuenduskuuri](#) <https://digikogu.taltech.ee/et/Item/1a6cde04-f268-42c1-95d7-b9a43dd70046> https://www.ester.ee/record=b5511687*est

Kui prindiks äkki... uue maja?!

Veldre, Tõnu saartehaal.postimees.ee 2024 [Kui prindiks äkki... uue maja?!](#)

Kuidas printida metalli?

Einama, Kaido Director. Inseneeria 2018 / lk. 102-107 : fot http://www.ester.ee/record=b1519314*est
https://artiklid.elnet.ee/record=b2832919*est

Kuidas selja sirgu saab? Insenerid ja arstid arendasid välja nutikorseti!

Vill, Ants director.ee 2022 <https://director.ee/2022/07/14/kuidas-selja-sirgu-saab-insenerid-ja-arstid-arendasid-valja-nutikorseti/>

Kundas uuritakse, kuidas tsementi rohelisemaks muuta

postimees.ee 2023 [Kundas uuritakse, kuidas tsementi rohelisemaks muuta](#)

Kutsehariduskeskus asub kõigile 3D-printimist õpetama

Mutso, Lauri parnu.postimees.ee 2022 [Kutsehariduskeskus asub kõigile 3D-printimist õpetama](#)

Laser additively manufactured magnetic core design and process for electrical machine applications

Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Lind, Liina; Virro, Indrek; Rassõlkin, Anton; Dedova, Tatjana Energies

2022 / art. 3665 <https://doi.org/10.3390/en15103665> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Laserbased solidification of cermets/cemented carbides: processing|microstructure|property relationships

Maurya, Himanshu Singh; Akhtar, Farid; Prashanth, Konda Gokuldoss *Advanced Materials Technologies* 2025 / 41 p
<https://doi.org/10.1002/admt.202500988>

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>

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

Masinad, mis prindivad mudeleid : [ruumilisest printimisest]

Meliorski, Martin; Otto, Tauno *Eesti Ekspress* 2007 / 17. mai, Homme 4, lk. 44-45
<https://ekspress.delfi.ee/artikkel/69113595/masinad-mis-prindivad-mudeleid>

Material properties for 3D printing electrical machines

Tiismus, Hans 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 139-140
https://www.ester.ee/record=b5183874*est

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](#)

Mesoporous fibrous silicon nitride by catalytic nitridation of silicon and selective laser melting

Minasyan, Tatevik; Liu, Le; Aydinyan, Sofiya; Hussainova, Irina XVI Conference and Exhibition Of The European Ceramic Society : abstract book 2019 / p. 80

Metabolism control in 3D-printed living materials improves fermentation

Butelmann, Tobias; Priks, Hans; Parent, Zoel; Johnston, Trevor G.; Tamm, Tarmo; Nelson, Alshakim; Lahtvee, Petri-Jaan; Kumar, Rahul, 1978- *ACS Applied Bio Materials* 2021 / p. 7195-7203 <https://doi.org/10.1021/acsabm.1c00754> [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](#)

Metallid 3D-sse

Veinthal, Renno; Kollo, Lauri; Pohlak, Meelis *Äripäev* 2015 / Tööstus, lk. 36-38

Metallobjektide 3D-printimine - uued võimalused ja väljakutsed

Pohlak, Meelis; Veinthal, Renno *Eesti Päevaleht* 2015 / Metallileht, lk. 2

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.jalcom.2024.176951> [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](#)

Microstructural homogenization through laser remelting in an additively manufactured Ti-40Nb sample from elemental feedstock powders

Subramanian, Shangavi; Yadav, Mayank Kumar; Jayaraj, J.; Yangyang, Fan; Xi, Lixia; Prashanth, Konda Gokuldoss *Journal of materials research and technology* 2025 / p. 4305-4320 <https://doi.org/10.1016/j.jmrt.2025.08.203>

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](#)

Microstructure and texture evolution during the manufacturing of in situ TiC-NiCr cermet through selective laser melting process

Aramian, Atefeh; Sadeghian, Zohreh; Wan, Di; **Holovenko, Yaroslav**; Razavi, Nima; Berto, Filippo Materials Characterization 2021 / art. 111289, 14 p. : ill <https://doi.org/10.1016/j.matchar.2021.111289> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 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](#)

Modelling of magnetization processes of 3D-Printed Fe-Si components by means of an artificial neural network implemented in a FEM scheme

Stella, Marco; Faba, Antonio; Bertolini, Vittorio; Fulginei, F. Riganti; Sabino, Lorenzo; **Tiismus, Hans; Kallaste, Ants**; Cardelli, Ermanno 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p <https://doi.org/10.1109/ICEM60801.2024.10700301>

Modelling of magnetization processes of 3D-printed Fe-Si components by means of an artificial neural network implemented in a Finite Element Scheme

Stella, Marco; Faba, Antonio; Bertolini, Vittorio; Riganti-Fulginei, Francesco; Sabino, Lorenzo; **Tiismus, Hans; Kallaste, Ants**; Cardelli, Ermanno IEEE Open Journal of the Industrial Electronics Society 2025 / p. 1650-1662 <http://doi.org/10.1109/OJIES.2025.3620857> <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=11202631&tag=1>

Modified initial design procedure for synchronous reluctance motor

Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 1969-1975 <https://doi.org/10.1109/ICEM51905.2022.9910594>

Mo(Si,Al)₂ by laser powder bed fusion of AlSi10Mg and combustion synthesized MoSi₂

Minasyan, Tatevik; Ivanov, Roman; Toyserkani, Ehsan; Hussainova, Irina Materials letters 2022 / art. 131041 <https://doi.org/10.1016/j.matlet.2021.131041> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

MoSi₂ based composites by selective laser melting

Minasyan, Tatevik; Liu, Le; Aydinyan, Sofiya; Hussainova, Irina APICAM2019 program : [abstracts] 2019 / p. [218] <https://www.apicam2019.com.au/LiteratureRetrieve.aspx?ID=200067>

MoSi₂ based composites preparation by combustion synthesis with subsequent selective laser sintering [Online resource]

Minasyan, Tatevik; Rodriguez, Miguel Angel; **Liu, Le; Aghayan, Marina; Kollo, Lauri; Hussainova, Irina** Abstracts : 14th International Ceramics Congress 2018 / CB-10.2:L07 http://2018.cimtec-congress.org/abstracts_focused_session_cb-10

Nooruse kool tegi algust Tehnoloogiakooliga

Kesküla, Marili saartehaal.postimees.ee 2023 [Nooruse kool tegi algust Tehnoloogiakooliga](#)

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](#)

Novel silicon-wollastonite based scaffolds for bone tissue engineering produced by selective laser melting

Kamboj, Nikhil Kumar; Aghayan, Marina; Rodrigo-Vazquez, Sara; Rodriguez, Miguel Angel; **Hussainova, Irina** Ceramics International 2019 / p. 24691-24701 : ill <https://doi.org/10.1016/j.ceramint.2019.08.208> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Novel softwood lignin esters as advanced filler to PLA for 3D printing

ACS omega 2024 / p. 44559-44567 <https://doi.org/10.1021/acsomega.4c06680> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A novel Ti-eggshell-based composite fabricated by combined additive manufacturing-powder metallurgical routes as bioimplants

Shukla, Riddhi Hirenkumar; Yadav, Mayank Kumar; Madrugá, 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>

Numerical investigation of properties of small size Axial Flux Permanent Magnet Motors

Stepien, Mariusz; Mikos, Jan; **Kallaste, Ants; Rassõlkin, Anton** 2019 20th International Symposium on Power Electronics (Ee 2019) : Novi Sad, Serbia, 23 – 26 October 2019 2019 / 4 p <https://doi.org/10.1109/PEE.2019.8923235>

Nutikad naised teevad suitsukonidest biolagunevat plastmaterjali [Võrguväljaanne]

Ramler, Gerli 2022 [Nutikad naised teevad suitsukonidest biolagunevat plastmaterjali](#)

Nutikas ortoos hakkab jälgima oma kandjat

Mente et Manu 2021 / lk. 12 : fot https://www.ester.ee/record=b1242496*est

Nutikorsett aitab vildakselgust ravida

Imeline Teadus 2022 / lk. 23 https://www.ester.ee/record=b2747925*est

Open source 3D printing as a means of learning : an educational experiment in two high schools in Greece

Kostakis, Vasileios; Niaros, Vasileios; Giotitsas, Christos Telematics and informatics 2015 / p. 118-128 : ill <https://doi.org/10.1016/j.tele.2014.05.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Opportunities and challenges of utilizing additive manufacturing approaches in thermal management of electrical machines

Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; **Kallaste, Ants;** Cardoso, Antonio J. Marques; **Belahcen, Anouar; Vaimann, Toomas; Tiismus, Hans; Asad, Bilal** IEEE Access 2021 / art. 9364970, p. 36368-36381 : ill <https://doi.org/10.1109/ACCESS.2021.3062618> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimization of a 3D-printed permanent magnet coupling using genetic algorithm and Taguchi method

Andriushchenko, Ekaterina; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rassõlkin, Anton; Heidari, Hamidreza; Tiismus, Hans Electronics 2021 / art. 494, 16 p. : ill <https://doi.org/10.3390/electronics10040494> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The outsidership dilemma of a healthtech start-up entering the US market

Hammoda, Basel Osama Sayed Ahmed Cases on entrepreneurship and diversity 2024 / p. 67-81 <https://doi.org/10.4337/9781803923857.00012>

Paul hakkab inseneriks

Tomusk, Ilmar 2024 https://www.ester.ee/record=b5685615*est

Performance evaluation of additive manufacturing based test samples for studies of defects in electrical insulation

Shafiq, Muhammad; Taklaja, Paul; Kiitam, Ivar; Tiismus, Hans; Palu, Ivo; Kütt, Lauri 2021 International Conference on Electrical, Computer and Energy Technologies (ICECET) 2021 / 6 l <https://doi.org/10.1109/ICECET52533.2021.9698476>

Performance of additively manufactured prototype transformer core

Tiismus, Hans 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2021 / p. 41-42 : ill https://www.ester.ee/record=b5457278*est

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.jrmhm.2020.105192> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Piret Mägi aitab muuta 3D-printimist keskkonnasõbralikumaks

Helme, Kristi Mente et Manu 2016 / lk. 16-18 : fot https://artiklid.elnet.ee/record=b2756902*est

Possibilities and limitations of three dimensional printing at digital factory

Sonk, Kaimo; Otto, Tauno; Eerme, Martin Proceedings : 10th International Conference on the Modern Information Technology in the Innovation Processes of the Industrial Enterprises : MITIP 2008 : Prague, Czech Republic, 12-14 November 2008 2008 / p. 187-192 : ill

Preliminary design analysis of an axial flux yokeless stator switched reluctance machine

Hussain, Shahid; Kallaste, Ants; Naseer, Muhammad Usman; Sarap, Martin; Tiismus, Hans; Vaimann, Toomas 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p <https://doi.org/10.1109/RTUCON60080.2023.10413130>

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](#)

Production and properties of additively manufactured electrical machine cores = Kihtlisandus meetodil valmistatud elektrimasinate magnetsüdamikud ja nende omadused

Tiismus, Hans 2022 <https://doi.org/10.23658/taltech.49/2022> <https://digikogu.taltech.ee/et/Item/1a6cde04-f268-42c1-95d7-b9a43dd70046>
https://www.ester.ee/record=b5511687*est

Prototype induction motor core preparation with laser additive manufacturing

Tiismus, Hans 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 35-36 : ill https://www.ester.ee/record=b5504019*est

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](#)

Rahvusvahelises koostöös valmis uus valikaine õppekava

Poldre, Annika Õpetajate Leht 2023 / Lk. 18 [Rahvusvahelises koostöös valmis uus valikaine õppekava](#)

Recent advances in additive manufacturing of refractory high entropy alloys (RHEAs): A critical review

Yarlapati, Akshaya; Aditya, Y. N.; Kumar, Deepak; Vikram, Raja Jothe; Yadav, Mayank Kumar; Reddy, Kallem Shekharf; **Prashanth, Konda Gokuldoss** Journal of alloys and metallurgical systems 2024 / art. 100120 <https://doi.org/10.1016/j.james.2024.100120> [Journal metrics at Scopus](#) [Article at Scopus](#)

Recent trends in additive manufacturing and topology optimization of reluctance machines

Hussain, Shahid; Kallaste, Ants; Vaimann, Toomas Energies 2023 / art. 3840 <https://doi.org/10.3390/en16093840> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Recycling of PA-12 in additive manufacturing and the improvement of its mechanical properties

Mägi, Piret; Krumme, Andres; Pohlak, Meelis 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. 9-14 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.9> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Reframing innovation for post-growth : Lessons from patent discourses in 3D printing

Pazaitis, Alexandros; Giotitsas, Christos; Sawides, Leandros; **Kostakis, Vasileios** Science technology and society 2025 / 29 p <https://doi.org/10.1177/09717218251326836>

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>

Review of design freedom offered by additive manufacturing for performance enhancement of electrical machine

Ahmad, Zahoor; Kallaste, Ants; Vaimann, Toomas; Naseer, Muhammad Usman; Hussain, Shahid; Rassõlkin, Anton IEEE Open Journal of the Industrial Electronics Society 2024 / p. 1300-1323 <https://doi.org/10.1109/OJIES.2024.3509547> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A review on additive manufacturing possibilities for electrical machines

Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton Energies 2021 / art. 1940 <https://doi.org/10.3390/en14071940> [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](#)

Review on nature-inspired interfaces and mechanical interlocking techniques in additively manufactured adhesively bonded joints

Hari Krishna, P.H.; DhilipKumar, Thulasidhas; Shankar, Karthik V.; Hariprasad, M.P.; Murali, Arun Prasad; El-Rayyes, Ali; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2025 / p. 998-1016 <https://doi.org/10.1016/j.jmrt.2025.09.150>

Robotically placed reinforcement using the automated screwing device – an application perspective for 3D concrete printing

Hass, Lauri; Bos, Freek Third RILEM International Conference on Concrete and Digital Fabrication : Digital Concrete 2022 2022 / p. 417 - 423 https://doi.org/10.1007/978-3-031-06116-5_62 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Robust design optimization and emerging technologies for electrical machines: challenges and open problems

Orosz, Tamas; **Rassölkin, Anton; Kallaste, Ants**; Arsenio, Pedro; Panek, David; Kaska, Jan; Karban, Pavel Applied sciences 2020 / art. 6653, 33 p. : ill <https://doi.org/10.3390/app10196653> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Role of additive manufacturing in the performance enhancement of electrical machine winding : Current status and future outlook

Ahmad, Zahoor; Kallaste, Ants; Vaimann, Toomas Future Frontiers : PhD Conference on Emerging Technologies : Book of Abstracts 2025 / p. 29 ; oral 18 https://tuit.ut.ee/sites/default/files/2025-05/PhD%20Conference%202025%20Book%20of%20Abstracts_pub3.pdf

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>

Rotiketrjad

Strandberg, Marek Inseneeria 2015 / lk. 8 : fot https://artiklid.elnet.ee/record=b2738560*est

A secure data infrastructure for personal manufacturing based on a novel key-less, byte-less encryption method

Vedešin, Anton; Dogru, John Mehmet Ulgar; **Liiv, Innar; Ben Yahia, Sadok; Draheim, Dirk** IEEE Access 2020 / p. 40039-40056 : ill <https://doi.org/10.1109/ACCESS.2019.2946730> [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 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 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 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 ceramic composites

Aydinyan, Sofiya; Liu, Le; Minasyan, Tatevik; Hussainova, Irina XVI Conference and Exhibition Of The European Ceramic Society : abstract book 2019 / p. 22

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.iplas.2021.102926> [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 Ti-B-Si system produced by SHS [Online resource]

Aydinyan, Sofiya; Liu, Le; Hussainova, Irina Abstracts : 14th International Ceramics Congress 2018 / CB-10.2:L06 http://2018.cimtec-congress.org/abstracts_focused_session_cb-10

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 sintered bio-inspired silicon-wollastonite scaffolds for bone tissue engineering
Kamboj, Nikhil Kumar; Kazantseva, Jekaterina; Rahmani Ahranjani, Ramin; Rodriguez, Miguel Angel; Hussainova, Irina Materials Science and Engineering : C 2020 / art. 111223 <https://doi.org/10.1016/j.msec.2020.111223>

Selective laser sintering of combustion synthesized titanium diboride based composites
Liu, Le; Minasyan, Tatevik; Aydinyan, Sofiya; Hussainova, Irina European Powder Metallurgy Association : proceedings : 14 – 18 October 2018, Bilbao, Spain 2018 / art. 3987459 [USB] <https://www.epma.com/publications/euro-pm-proceedings/product/euro-pm2018-proceedings-usb>

Sliding mean value subtraction-based DC drift correction of B-H curve for 3D-printed magnetic materials
Asad, Bilal; Tiismus, Hans; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Shams Ghahfarokhi, Payam Energies 2021 / art. 284, 10 p <https://doi.org/10.3390/en14020284> [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>

SLM-processed MoS₂/MoS₃ nanocomposite for energy conversion/storage applications
Alinejadian, Navid; Kazemi, Sayed Habib; Odnevall Wallinder, Inger Scientific reports 2022 / art. 5030 <https://doi.org/10.1038/s41598-022-08921-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Smart cyber-physical system for pattern recognition of illegal 3D designs in 3D printing
Vedešin, Anton; Dogru, John Mehmet Ulgar; Liiv, Innar; Ben Yahia, Sadok; Draheim, Dirk Smart Applications and Data Analysis : Third International Conference, SADASC 2020, Marrakesh, Morocco, June 25-26, 2020 : proceedings 2020 / p. 74-85 https://doi.org/10.1007/978-3-030-45183-7_6 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Smart cyber-physical system for personal manufacturing = Tark küüberfüüsikaline süsteem personaalseks tootmiseks
Vedešin, Anton 2020 https://www.ester.ee/record=b5386400*est <https://digikogu.taltech.ee/et/Item/4dec3f85-ca80-4b07-ba18-0bec34669868>

SmartIC teaduse teekaardil - uus metalli 3D-printimise süsteem
Otto, Tauno Mente et Manu 2017 / lk. 38 http://www.ester.ee/record=b1242496*est https://artiklid.elnet.ee/record=b2830875*est

State of the art of additively manufactured electromagnetic materials for topology optimized electrical machines
Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton Additive manufacturing 2022 / art. 102778, 19 p. : ill <https://doi.org/10.1016/j.addma.2022.102778> [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](#)

Structural analysis of selective laser melted copper-tin alloy
Rahmani Ahranjani, Ramin; Resende, Pedro R.; Couto, Ruben; Lopes, Sérgio Ivan; Kumar, Rahul, 1993-; Maurya, Himanshu Singh; Karimi, Javad; Afonso, Alexandre M.; Hussain, Abrar; Abrantes, Joao C. C. Journal of alloys and metallurgical systems 2024 / art. 100097 <https://doi.org/10.1016/j.jalms.2024.100097> [Journal metrics at Scopus](#) [Article at Scopus](#)

Study of axial flux stator structures in additive manufacturing material and soft magnetic composite
Pierluigi, Amoroso; Poskovic, Emir; Tiismus, Hans; Quercio, Michele; Ferraris, Luca; Tenconi, Alberto 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p <https://doi.org/10.1109/ICEM60801.2024.10700312>

Survey on 3D technologies : case study on 3D scanning, processing and printing with a model
Abdelmomen, Mohamed; Dengiz, Ozan Fuat; Tamre, Mart 2020 21st International Conference on Research and Education in Mechatronics (REM) 2020 <https://doi.org/10.1109/REM49740.2020.9313881>

Sustainable additive manufacturing : an overview on life cycle impacts and cost efficiency of laser powder bed fusion
Rahmani, Ramin; **Bashiri, Bashir**; Lopes, Sergio Ivan; **Hussain, Abrar**; Maurya, Himanshu Singh; **Vilu, Raivo** Journal of manufacturing and materials processing 2025 / art. 18 <https://doi.org/10.3390/jmmp9010018>

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

06Cr15Ni4CuMo selective laser melted additive manufacturing technology steel : mechanical and tribological properties
Jayaraman, Maya; Sivaprasad, Katakam; Ravisankar, B.; **Prashanth, Konda Gokuldoss** Transactions of the Indian Institute of Metals 2025 / art. 208 <https://doi.org/10.1007/s12666-025-03658-z>

Taibukad tulevikuortoosid prinditakse täpselt patsiendi kehaosa järgi
Imeline Teadus 2020 / lk. 21 https://www.ester.ee/record=b2747925*est

TalTech arendab betooni 3D-printimist

Põldaru, Mattias Mente et Manu 2021 / lk. 46 : fot [Mente et Manu 1/2021 https://www.ester.ee/record=b1242496*est](https://www.ester.ee/record=b1242496*est)

TalTechi teadlaste prinditud luu päästis noore naise jala amputeerimisest [Võrguväljaanne]

Himma, Marju novaator.err.ee 2019 / fot [TalTechi teadlaste prinditud luu päästis noore naise jala amputeerimisest](https://www.ester.ee/record=b1242496*est)

Teadus ja igapäevaelu : teadussaavutuste rakendamine praktikas

Alvela, Ain Tehnikamaailm 2024 / lk. 68-73 : ill., fot., portr https://www.ester.ee/record=b1073050*est

Teaduse aastapreemiad: prinditud elektrimasinate poole

Sirp 2022 / lk. 12 : fot <https://www.sirp.ee/s1-artiklid/c21-teadus/teaduse-aastapreemiad/>

Technologies for additive manufacturing of electrical machines

Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton; Belahcen, Anouar 2019 20th International Conference of Young Specialists on Micro/Nanotechnologies and Electron Devices (EDM) 2019 / p. 651-655 : ill <https://doi.org/10.1109/EDM.2019.8823462>

Tehnikaülikool kutsub Ukraina lapsi tasuta linnalaagrisse [Võrguväljaanne]

Liiviste, Priit pealinn.ee 2022 ["Tehnikaülikool kutsub Ukraina lapsi tasuta linnalaagrisse"](https://www.ester.ee/record=b1073050*est)

Tehnikaülikool printis välja 3D koopia prorektor Kolki ajust

Alliksaar, Kaisa Eesti Päevaleht 2013 / lk. 4 <https://epl.delfi.ee/artikkel/66412890/tehnikaulikool-printis-valja-3d-koopia-prorektor-kolki-ajust>

Tehnikaülikoolis loodav nutikas ortoos hakkab jälgima oma kandjat [Võrguväljaanne]

mu.ee 2021 ["Tehnikaülikoolis loodav nutikas ortoos hakkab jälgima oma kandjat"](https://www.ester.ee/record=b1073050*est)

Temperature-induced wear micro-mechanism transition in additively deposited nickel alloys with different solid lubricants

Kumar, Rahul, 1993-; Hussainova, Irina; Antonov, Maksim; Maurya, Himanshu Singh; Rodríguez Ripoll, Manel Wear 2024 / art. 205452 <https://doi.org/10.1016/j.wear.2024.205452> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of Zinc Oxide on DLP hybrid composite manufacturability and mechanical-chemical resistance

Baroninš, Janis; **Antonov, Maksim**; Abramovskis, Vitalijs; Rautmane, Aija; Lapkovskis, Vjaceslavs; Bockovs, Ivans; Goel, Saurav; Kumar Thakur, Vijay; Shishkin, Andrei Polymers 2023 / art. 4679, p. 1–19 <https://doi.org/10.3390/polym15244679> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of UV-C radiation on the durability of 3D printed plastic parts in disinfectant devices

Tähemaa, Toivo; Sarkans, Martinš; Sarand, Inga; Pohlak, Meelis; Niidas, Aadu; Saarna, Mart IOP conference series : materials science and engineering 2021 / art. 012046, 6 p. : ill <https://doi.org/10.1088/1757-899X/1140/1/012046>

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](#)

The political economy of 3D printing

Kostakis, Vasileios; Fountouklis, Michalis Re-public journal 2012

3D measurement setup for angle measurement multi-element photo-detector

Dhoska, Klodian; Kübarsepp, Toomas; Hermaste, Aigar 14th International Symposium "Topical problems in the field of electrical

and power engineering. Doctoral school of energy and geotechnology. II" : Pärnu, Estonia, January 13-18, 2014 2014 / p. 256-258 : ill

3D printed metal and metal-ceramic cellular lattice structures for wear and thermoacoustic applications = 3D prinditud metall- ja metall-keraamilised kärgvõre struktuurid triboloogilistele- ja termoakustilistele rakendustele
Holovenko, Yaroslav 2019 <https://digi.lib.ttu.ee/i/?12289>

3D printing as a means of learning and communication: The 3Ducation project revisited
Pantazis, Alexandros; Priavolou, Christina Telematics and informatics 2017 / p. 1465-1476 : ill
<https://doi.org/10.1016/j.tele.2017.06.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

3D printing of electrical machines is a cutting-edge research in TalTech [Electronic resource]
Kallaste, Ants; Vaimann, Toomas Research in Estonia 2021 / 1 p. : ill <https://researchinestonia.eu/2021/10/14/3d-printing-of-electrical-machines-is-a-cutting-edge-research-in-taltech/>

3D printing of plain and gradient cermets with efficient use of raw materials
Antonov, Maksim; Ivanov, Roman; Holovenko, Yaroslav; Goljandin, Dmitri; Rahmani Ahranjani, Ramin; Kollo, Lauri; Hussainova, Irina Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 239-245 : ill <https://doi.org/10.4028/www.scientific.net/KEM.799.239>
https://www.ester.ee/record=b5235278*est [Conference proceeding at Scopus](#) [Article at Scopus](#)

3D printing of plain and gradient cermets with efficient use of raw materials
Antonov, Maksim; Ivanov, Roman; Holovenko, Yaroslav; Goljandin, Dmitri; Rahmani Ahranjani, Ramin; Kollo, Lauri; Hussainova, Irina Cermets : aggregated book 2023 / p. 83-90 <https://doi.org/10.4028/b-j9Oly>

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://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Topology optimization and additive manufacturing of a loudspeaker soft magnetic core
Sarap, Martin; Pärtel, Marcus; Kallaste, Ants; Tiismus, Hans; Vaimann, Toomas 2024 International Conference on Electrical and Computer Engineering Researches (ICECER) 2024 / 5 p <https://doi.org/10.1109/ICECER62944.2024.10920438>

Tracing sustainable production from a degrowth and localisation perspective : a case of 3D printers
Priavolou, Christina; Troullaki, Katerina; Tsiouris, Nikiforos; Giotitsas, Christos; Kostakis, Vasileios Journal of cleaner production 2022 / art. 134291 <https://doi.org/10.1016/j.jclepro.2022.134291> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tulge 3D-printimist õppima!
Sakk, Monica Õpetajate Leht 2015 / lk. 7 <https://dea.digar.ee/?a=d&d=opetajateleht20150828.1.7>

Töötav elektrimootor otse printerist – jah, see on võimalik!
Vaimann, Toomas Õhtuleht 2022 / Lk. 19 <https://dea.digar.ee/article/oh tuleht/2022/03/12/14>

Ukrainlane 3D-prindib sõjas vigastada saanutele implantaate
Alvela, Ain Postimees 2022 / Lk. 7 <https://dea.digar.ee/article/postimees/2022/11/29/9.1>

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>

Use of selective laser melting for manufacturing the porous stack of a thermoacoustic engine
Auriemma, Fabio; Holovenko, Yaroslav Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 246-251 : ill
<https://www.scientific.net/KEM.799.246> https://www.ester.ee/record=b5235278*est <https://doi.org/10.4028/www.scientific.net/KEM.799.246>
[Conference proceeding at Scopus](#) [Article at Scopus](#)

Using functional requirements to determine optimal additive manufacturing technology
Sonk, Kaimo; Hermaste, Aigar; Sarkans, Martinš; Paavel, Marko Proceedings of the 11th International Conference of DAAAM Baltic Industrial Engineering : 20-22th April 2016, Tallinn, Estonia 2016 / p. 79-84 : ill <http://innomet.ttu.ee/daaam/>

Utilization of additive manufacturing in the thermal design of electrical machines : a review
Sarap, Martin; Kallaste, Ants; Shams Ghahfarokhi, Payam; Tiismus, Hans; Vaimann, Toomas Machines 2022 / art. 251

Uudne ja soodne metalli 3D-printer

Mente et Manu 2018 / lk. 34 : fot http://www.ester.ee/record=b1242496*est <http://dea.digar.ee/publication/AKmenteetmanu>
https://www.ttu.ee/public/m/mente-et-manu/MM_05_2018/mobile/index.html https://artiklid.elnet.ee/record=b2868931*est

Uued võimalused 3D-printimise valdkonnas - metallide printimine peagi võimalik ka Eestis

Jõelet, Marek; Kollo, Lauri; Pohlak, Meelis; Veinthal, Renno Inseneeria 2015 / lk. 32-35 : ill
https://artiklid.elnet.ee/record=b2725592*est

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 / p. 1795 - 1804 <https://doi.org/10.1007/s12666-023-03216-5> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Wear resistance of (Diamond-Ni)-Ti6Al4V gradient materials prepared by combined selective laser melting and spark plasma sintering techniques

Rahmani Ahranjani, Ramin; Antonov, Maksim; Kollo, Lauri Advances in tribology 2019 / art. 5415897, 12 p. : ill
<https://doi.org/10.1155/2019/5415897> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Wire arc additive manufacturing of NiTi 4D structures : influence of interlayer delay

Singh, Shalini; Palani, Iyemperumal 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

Ülevaade lõputöödest : TaTechi elektrotehnika ja mehhatroonika õppekaval sai magistrikraadi seitse lõpetajat

Rassõlkin, Anton Elektriala 2025 / lk. 32-33 : fot https://www.ester.ee/record=b1240496*est

Ülikool peibutab tehnikaimega : [TTÜs tutvustati tulevastele üliõpilastele kolmemõõtmelisi mudeleid printivat seadet : masinaehituse instituudi assistendi Annes Suti kommentaaridega]

Tuul, Harry; Sutt, Annes Äripäev 2006 / 28. märts, lk. 20 : fot <https://www.aripaev.ee/uudised/2006/03/27/ulikool-peibutab-tehnikaimega>

Η ανάδυση του ορόπριου κινήματος και η τρισδιάστατη εκτύπωση

Kostakis, Vasileios δράσεις κοινωνικής αυτο-οργάνωσης και διαδικτύο : προς μια έννοια οργάνωσης 2.0 2013 / p. [5]

Реконструктор человеческих тел : как выживает технологичный бизнес в Украине

Moroz, Dmitri rus.postimees.ee 2022 [Реконструктор человеческих тел: как выживает технологичный бизнес в Украине](https://rus.postimees.ee/8267453/tallinnskiy-tehnicheskij-universitet-otkryvaet-laboratoriyu-3d-pechati-betonom)

Реконструктор человеческих тел [Online resources]

Moroz, Dmitri Postimees 2022 / c. 15

Таллиннский технический университет открывает лабораторию 3D-печати бетоном

rus.postimees.ee 2025 <https://rus.postimees.ee/8267453/tallinnskiy-tehnicheskij-universitet-otkryvaet-laboratoriyu-3d-pechati-betonom>