

**Aasta tehase žürii: tööstus on investeerimisel ebakindel, kuid raha vajadusel leitakse**

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**Abrasion and erosion resistance of cermets : a review**

Kübarsepp, Jakob; Juhani, Kristjan; Tarraste, Marek Materials 2022 / art. 69 <https://doi.org/10.3390/ma15010069> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Abrasive wear resistant composite hardfacings with ex-situ and in-situ synthesized carbide reinforcement =**

**Abrasiivkulumiskindlad komposiitpindad ex-situ ja in-situ sünteesitud karbiidkõvafaasiga**

Tkachivskiy, Dmytro 2021 <https://doi.org/10.23658/taltech.41/2021> <https://digikogu.taltech.ee/et/Item/4ee05e38-b68b-4bb6-a708-6f2b8159f947>

**Abrasive-erosive wear of thermally sprayed coatings from experimental and commercial Cr3C2-based powders**

Sarjas, Heikki; Surženkov, Andrei; Juhani, Kristjan; Antonov, Maksim; Adoberg, Eron; Kulu, Priit; Viljus, Mart; Traksmäa, Rainer; Matikainen, Ville; Vuoristo, Petri Journal of thermal spray technology 2017 / p. 2020-2029 : ill <https://doi.org/10.1007/s11666-017-0638-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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**Academic development support for implementing CDIO**

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**Acoustic analysis of compact silencer solution based on microperforated panel**

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**Acoustic and thermoacoustic properties of an additive manufactured lattice structure**

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**Acoustic lumped element techniques to measure the low frequency response of porous materials**

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**Acoustic study of multi-layered microperforated elements for fibreless noise control applications**

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**Acoustic study on motorcycle helmets with application of novel porous material**

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**The Activities of IGIP**

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### **Adaptation of Laboratory tests for the assessment of wear resistance of drill-bit inserts for rotary-percussive drilling of hard rocks**

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### **Adaptive industrial robots using machine vision**

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### **Additive manufacturing : alloy design and process innovations**

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### **Additive manufacturing of a martensitic Co–Cr–Mo alloy : Towards circumventing the strength–ductility trade-off**

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### **Additive manufacturing of aluminum-based metal matrix composites - a review**

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### **Additive manufacturing of CMCs with bimodal microstructure**

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### **Additive manufacturing of CoCrFeMnNi high-entropy alloy/AISI 316L stainless steel bimetallic structures**

Sokkalingam, Rathinavelu; Chao, Zhao; Sivaprasad, Katakam; Muthupandi, Veerappan; Jayaraj, Jayamani; Ramasamy, Parthiban; Eckert, Jürgen; Prashanth, Konda Gokuldoss Advanced engineering materials 2023 / art. 2200341 <https://doi.org/10.1002/adem.202200341> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Additive manufacturing of high-entropy alloys**

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### **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**

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### **Additive manufacturing of novel ceramic-based composite scaffolds for bone tissue engineering = Uudsete keraamik**

## **põhinevate komposiitkarkasside kihtlisandustehnoloogia luukoetehnika**

**Kamboj, Nikhil Kumar** 2020 [https://www.ester.ee/record=b5379547\\*est](https://www.ester.ee/record=b5379547*est) <https://digikogu.taltech.ee/et/Item/92f8dc95-1820-45b0-bbdc-4193e44ec978>

## **Additive manufacturing of silicon-wollastonite/bioactive glass based biomaterials by Selective Laser Melting**

**Kamboj, Nikhil Kumar**; Rodríguez Barbero, M. A.; Rodrigo, C.; Kazantseva, Jekaterina; **Hussainova, Irina** 44th International Conference & Exposition on Advanced Ceramics and Composites, January 26–31, 2020, Daytona Beach, Florida : Abstract book 2020 / art. ICACC-S5-028-2020 ; p. 133 [https://ceramics.org/wp-content/uploads/2018/09/ICACC20\\_Abstracts\\_WebFinal.pdf](https://ceramics.org/wp-content/uploads/2018/09/ICACC20_Abstracts_WebFinal.pdf)

## **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**

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## **Additive manufacturing of TiC-based cermets with Fe-based binders using novel laser scan techniques =**

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## **Additively manufactured mesostructured MoSi2-Si3N4 ceramic lattice**

**Minasyan, Tatevik**; Liu, Le; Holovenko, Yaroslav; Aydinyan, Sofiya; **Hussainova, Irina** Ceramics international 2019 / p. 9926-9933 <https://doi.org/10.1016/j.ceramint.2019.02.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Addressing security issues in Industry 4.0 through quantum key distribution**

**Auriemma, Fabio**; Ejmaes, Mikkel Proceedings of the Estonian Academy of Sciences 2025 / p. 175-180 <https://doi.org/10.3176/proc.2025.2.17>

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Michalczewski, Remigiusz; Kalbarczyk, M.; Slomka, Z.; **Hussainova, Irina**; Liu, Le; **Antonov, Maksim** IOP conference series : materials science and engineering 2021 / art. 012010, 9 p <https://doi.org/10.1088/1757-899X/1140/1/012010>

## **Adhesive wear of WC- and TiC-based friction stir welding tool materials for aluminium alloy welding [Electronic resource]**

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## **ADSecData platform: an open-source data platform for autonomous driving cybersecurity**

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## **Advanced autonomous vehicle's functions for safety improvements in urban mobility context = Täiustatud autonoomsete sõidukite funktsioonid ohutuse parandamiseks linnaliikluse kontekstis**

**Malayjerdi, Ehsan** 2022 <https://doi.org/10.23658/taltech.46/2022> [https://www.ester.ee/record=b5511689\\*est](https://www.ester.ee/record=b5511689*est) <https://digikogu.taltech.ee/et/Item/b7da5652-066b-408c-81b4-d15cb6e46fca>

## **Advanced machine learning and experimental studies of polypropylene based polyesters tribological composite systems for sustainable recycling automation and digitalization**

**Hussain, Abrar**; Kübarsepp, Jakob; Sergejev, Fjodor; Goljandin, Dmitri; **Hussainova, Irina**; Podgurski, Vitali; Karjust, **Kristo**; Maurya, Himanshu Singh; Rahmani Ahranjani, Ramin; Sinka, Maris International journal of lightweight materials and manufacture 2025 / p. 252-263 <https://doi.org/10.1016/j.ijlmm.2024.11.001>

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## **Advanced, universal, and facile gel spinning-based aerogel fibrillation : in situ fabrication of highly stretchable TPU-silica hybrid network in ambient conditions**

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**Advancement in perception capabilities for autonomous vehicles : from dataset collection to scene interpretation = Autonomsete sõidukite tajuvõimekuse täiustamine : andmekogumisest stseeni tõlgendamiseni**

**Gu, Junyi** 2024 [https://www.ester.ee/record=b5703761\\*est](https://www.ester.ee/record=b5703761*est) <https://digikogu.taltech.ee/et/Item/a1d10aec-0115-4574-8548-356884ec5e86>  
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**Advancement in production engineering education through Virtual Learning Factory Toolkit concept**

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**Nazaretyan, K.; Aydinian, Sofiya; Kirakosyan, H.; Moskovskikh, D.; Nepapushev, A.; Kuskov, K.; Tumanyan, M.; Zargaryan, A.; Traksmäa, Rainer; Kharatyan, S.** Journal of alloys and compounds 2023 / art. 167589, 13 p  
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**Alloying of TiC-FeCr cermet in manganese vapor**

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**Alumina/graphene/Cu hybrids as highly selective sensor for simultaneous determination of epinephrine, acetaminophen and tryptophan in human urine**

**Taleb, Masoud; Ivanov, Roman; Bereznev, Sergei; Kazemi, Sayed Habib; Hussainova, Irina** Journal of electroanalytical chemistry 2018 / p. 184-192 : ill <https://doi.org/10.1016/j.jelechem.2018.06.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**Aluminate-based nanostructured luminescent materials : design of processing and functional properties**

**Rojas Hernandez, Rocio Estefania; Rubio-Marcos, Fernando; Fernandez, Jose Francisco; Hussainova, Irina** Materials 2021 / art. 4591 <https://doi.org/10.3390/ma14164591> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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



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**Aluminum matrix composites reinforced with metallic glass particles with core-shell structure**

Guana, H.D.; Lia, C.J.; Gao, P.; **Prashanth, Konda Gokuldoss** Materials science and engineering : A 2020 / art. 138630, 5 p. : ill <https://doi.org/10.1016/j.msea.2019.138630> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**An integrated platform for blended learning in engineering education**

Makarova, Irina; Shubenkova, Ksenia; Tikhonov, Danila; **Pashkevich, Anton** Proceedings of the 9th International Conference on Computer Supported Education (CSEDU 2017) : April 21-23, 2017, in Porto, Portugal. Volume 2 2017 / p. 171-176 : ill <http://dx.doi.org/10.5220/0006375601710176>

**An IoT course program to foster the adoption of IoT driven food and agriculture in Sub-Saharan Africa (SSA)**

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**An IoT-based approach to digitalize a manufacturing system**

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