

A novel alumina – nanocarbon hybrid material

Ivanov, Roman; Anoshkin, Ilya; Nasibulin, Albert; **Hussainova, Irina**; Kauppinen, Esko NT13: Fourteenth International Conference on the Science and Applications of Nanotubes : 24-28 June, 2013, Espoo, Finland 2013 / p. 309

Alumiiniumiga legeritud tsinksulfiidi defektstruktuuri uurimine

Kirik, A.; Lott, Kalju XXXII üliõpilaste teaduslik-tehnilise konverentsi ettekannete teesid : pühendatud V. I. Lenini 110. sünniaastapäevale : 16.-18. aprill 1980 1981 / lk. 126-127 https://www.ester.ee/record=b1322611*est

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://fmdtk.ut.ee/teesid/>

Characterization of Interfaces Between the Metal Film and Silicon Carbide Semiconductor = Metallkontakti ja ränikarbiidi vahelise liidespinna karakteriseerimine

Ziko, Mehadi Hasan 2021 <https://digikogu.taltech.ee/et/Item/34be534c-63e8-4013-b271-eaf1a7cb22e7>
https://www.ester.ee/record=b5471196*est <https://doi.org/10.23658/taltech.52/2021>

A comparative study on physical properties of Al-doped zinc oxide thin films deposited from zinc acetate and zinc acetylacetonate by spray pyrolysis

Eensalu, Jako Siim; Krunks, Malle; Gromõko, Inga; Katerski, Atanas; Mere, Arvo Energetika 2017 / p. 46-55 : ill <https://doi.org/10.6001/energetika.v63i2.3519>

Diffusion in the interface region of Ti/TiAl-Nb bonding

Kommel, Lembit Defects and diffusion forum 2006 / p. 193-200
https://www.researchgate.net/publication/240837273_Diffusion_in_the_Interface_Region_of_TiTiAl-Nb_Bonding

Diffusion in the interface region of Ti/TiAl-NB buding

Kommel, Lembit Book of abstracts of International Conference on Diffusion in Solids : Past, Present and Future : DiSo-05 : 23-27 May, Moscow, Russia 2005 / p. 29 https://www.researchgate.net/publication/240837273_Diffusion_in_the_Interface_Region_of_TiTiAl-Nb_Bonding

Direct CVD growth of multi-layered graphene closed shells around alumina nanofibers

Ivanov, Roman; Mikli, Valdek; Kübarsepp, Jakob; Hussainova, Irina 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. 77-80 : ill <http://dx.doi.org/10.4028/www.scientific.net/KEM.674.77>

Effect of atomic oxygen irradiation on the structural and tribological properties of the MoS₂/Al₂O₃/PI composites

Zhao, Gai; Wang, Qihua; **Hussainova, Irina**; Ding, Qingjun 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. 239-243 : ill <http://dx.doi.org/10.4028/www.scientific.net/KEM.674.239>

Evolution of microstructure and hardness in aluminum processed by high pressure torsion extrusion

Omranpour Shahreza, Babak; Ivanisenko, Yulia; Kulagin, Roman; **Kommel, Lembit**; Sanchez, E. Garcia; Nugmanov, Dayan; Scherer, Torsten; Heczal, Anita; Gubicza, Jeno Materials Science and Engineering : A 2019 / art. 138074, 10 p. : ill <https://doi.org/10.1016/j.msea.2019.138074> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental, analytical, and numerical study of transient elastic waves from a localized source in an aluminium strip

Mračko, Michal; Adamek, Vítězslav; **Berezovski, Arkadi**; Kober, Jan; Kolman, Radek Applied acoustics 2021 / art. 107983 <https://doi.org/10.1016/j.apacoust.2021.107983> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A few-layered graphene on alumina nanofibers for electrochemical energy conversion

Hussainova, Irina; Ivanov, Roman; Stamatin, Serban; Anoshkin, Ilya; Skou, Eivind; Nasibulin, Albert Carbon 2015 / p. 157-164 : ill <https://doi.org/10.1016/j.carbon.2015.03.004>

Hardness of multi wall carbon nanotubes reinforced aluminium matrix

Bradbury, Christopher R.; **Gomon, Jaana-Kateriina; Kollo, Lauri**; Kwon, Hansang; Leparoux, Marc Journal of alloys and compounds 2014 / p. 362-367 : ill

High strength ductile aluminium matrix composite = Kõrgtugev ja plastne alumiiniumkomposiitmaterjal

Kallip, Kaspar 2017 <https://digi.lib.ttu.ee/i/?9114>

Homogeneous deposition of copper oxide on mesoporous 1D alumina nanofibres by combustion approach

Kirakosyan, Khachatur; Aghayan, Marina; Rodriguez, Miguel Angel; **Taleb, Masoud; Hussainova, Irina** Proceedings of the Estonian Academy of Sciences 2016 / p. 97-100 : ill https://artiklid.elnet.ee/record=b2768206*est

Hot and cold of pressing effect on ECAP-parallel channel composite based on Al/ANF material

Pramono, Agus; Kommel, Lembit; Kollo, Lauri; Veinthal, Renno Advanced materials research 2015 / p. 343-347
<http://dx.doi.org/10.4028/www.scientific.net/AMR.1123.343>

Hot and cold regions during accumulative roll bonding of Al/Al₂O₃ nanofibre composites

Pramono, Agus; Kollo, Lauri; Veinthal, Renno Proceedings of the Estonian Academy of Sciences 2016 / p. 132-137 : ill
https://artiklid.elnet.ee/record=b2768216*est

Hot consolidation of aluminum and aluminum nano-MMC powders by Equal Channel Angular Pressing

Kollo, Lauri; Kallip, Kaspar; Gomon, Jaana-Kateriina; Kommel, Lembit Materials science = Medžiagotyra 2012 / p. 234-237 : ill
https://www.researchgate.net/publication/267226658_Hot_Consolidation_of_Aluminium_and_Aluminium_nano-MMC_Powders_by_Equal_Channel_Angular_Pressing

Influence of interphases on the mechanical properties of alumina nanofibers reinforced alumina nanocomposite

Aghayan, Marina; Hussainova, Irina; Gasik, Michael; Kollo, Lauri Proceedings of the 1st ISN2A, 1st International Symposium on Nanoparticles/Nanomaterials and Applications : Caparica - Almada, Portugal, 20th-22th January 2014 2014 / p. 97

Investigation of different carbon nanotube reinforcements for fabricating bulk AlMg5 matrix nanocomposites

Kallip, Kaspar; Leparoux, Marc; AlOgab, Khaled A. Journal of alloys and compounds 2015 / p. 710-718 : ill
<http://dx.doi.org/10.1016/j.jallcom.2015.06.169>

Investigation of different carbon nanotube reinforcements for fabricating bulk AlMg5 matrix nanocomposites [Online resource]

Kallip, Kaspar; Leparoux, Marc; AlOgab, Khaled A. Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fntdk.ut.ee/teesid/>

Investigation of severe plastic deformation processes for aluminum based composites = Alumiiniumi baasil komposiitide süvaplase deformatsiooni protsesside uurimine

Pramono, Agus 2016 <https://digi.lib.ttu.ee/i/?7098> https://www.ester.ee/record=b4640507*est

Keevitajate atesteerimine. Sulakeevitus

Laansoo, Andres 2010 https://www.ester.ee/record=b2595016*est

Laengukandjate liikuvuse määramine alumiiniumiga legeeritud tsinksulfiidis kõrgel temperatuuril

Veski, T.; Lott, Kalju XXXII üliõpilaste teaduslik-tehnilise konverentsi ettekannete teesid : pühendatud V. I. Lenini 110. sünniaastapäevale : 16.-18. aprill 1980 1981 / lk. 127 https://www.ester.ee/record=b1322611*est

Laser powder-bed fusion of ceramic particulate reinforced aluminum alloys: a review

Minasyan, Tatevik; Hussainova, Irina Materials 2022 / art. 2467 <https://doi.org/10.3390/ma15072467> [Journal metrics at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Layered functionally graded alumina ceramic composites

Drozdova, Maria; Ivanov, Roman; Rodriguez, Miguel Angel; Hussainova, Irina ECerS 2017 : 15th Conference & Exhibition of the European Ceramic Society, July 9–13, 2017, Budapest, Hungary : Book of abstracts 2017 / p. 227
<https://static.akcongress.com/downloads/ecers/ecers2017-abstract-book.pdf>

Marketable products derived from aluminium-containing industrial wastes

11. uluslararası alüminyum sempozyumu : bildiriler kitabı = 11th international aluminium symposium : proceedings book 2023 / p. 263-269 http://www.alusist.com/Content/ALUS11_Bildiriler_Kitabi.pdf

Mechanical and structural characterization of multiphase B4C/Al composites synthesized by SHS

Kimmari, Eduard; Kommel, Lembit 15th International Baltic Conference "Engineering Materials & Tribology. Baltmattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 33-34

Mechanical and tribological behavior of gravity and squeeze cast novel Al-Si alloy

Chandra, Vadlamudi Srinivasa; Sivaprasad, Katakam; Dhanasekaran, Subramaniam; Prashanth, Konda Gokuldoss Metals 2022 / art. 194 <https://doi.org/10.3390/met12020194>

Metallide keevitusprotseduuride spetsifitseerimine ja atesteerimine

Tallermo, Harri 1998 https://www.ester.ee/record=b1060921*est

Metallide keevitusprotseduuride spetsifitseerimine ja atesteerimine : keevitusprotseduuri katse. Osa 2, Alumiiniumi ja selle sulamite kaarkeevitus = Specification and qualification of welding procedures for metallic materials : welding procedure test. Part 2, Arc welding of aluminium and its alloys (ISO 15614-2:2005)

2011 https://www.ester.ee/record=b2730254*est

Mis alumiiniumil viga on?

Risthein, Endel Elektriala 1999 / 3, lk. 14-15 https://artiklid.elnet.ee/record=b1002946*est

Novel alumina-nanocarbon hybrids

Hussainova, Irina; Anoshkin, Ilya; Ivanov, Roman; Kübarsepp, Jakob 38th International Conference & Exposition on Advanced Ceramics and Composites : abstract book : January 26-31, 2014, Daytona Beach, Florida 2014 / p. 117

A numerical sensitivity analysis of fluid-structure interaction simulations on slamming loads and responses

Hosseinzadeh, Saeed; Topa, Ameen; Tabri, Kristjan IOP conference series : materials science and engineering 2023 / art. 012017, 9 p. : ill <https://doi.org/10.1088/1757-899X/1288/1/012017>

Production technology elaboration and characterization of Al-MWCNT, Al-fullerenes and Al-B4C composites

Kommel, Lembit; Metsvahi, Rainer; Mihhalsenkov, M. Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 651-656 : ill

Restkaevude päised ja hoolduskaevude päised sõiduteede ja jalakäijate aladele. Osa 3, Terasest ja alumiiniumsulamitest rest- ja hoolduskaevude päised [Võrguteavik] = Gully tops and man hole tops for vehicular and pedestrian areas. Part 3, Gully tops and manhole tops made of steel or aluminium alloys

2018 https://www.ester.ee/record=b5176150*est

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](#)

Severe plastic deformation of metals by using high pressure torsion extrusion = Metallide süvaplantne deformeerimine kõrgsurve-väändeekstrusiooni meetodil

Omranpour Shahreza, Babak 2019 <https://digikogu.taltech.ee/et/Item/e74f8a8e-4021-4cd2-b1f0-cb91d05b9a56>

Sulaalumiiniumi katsestend

Rämonen, R.; Thalfeldt, J.; Loigom, Villem XXXII üliõpilaste teaduslik-tehnilise konverentsi ettekannete teesid : pühendatud V. I. Lenini 110. sünniaastapäevale : 16.-18. aprill 1980 1981 / lk. 103-104 https://www.ester.ee/record=b1322611*est

Surface fatigue of Al-metal matrix composites at impact loading

Saarna, Mart; Sergejev, Fjodor; Gomon, Jaana-Kateriina; Kollo, Lauri; Leparoux, Marc Engineering materials and tribology 2013 / p. 119-124 : ill

ZrC+TiC synergically reinforced metal matrix composites with micro/nanoscale reinforcements prepared by laser powder bed fusion

Xi, Lixia; Feng, Lili; Gu, Dongdong; Wang, Ruiqi; Sarac, Baran; Prashanth, Konda Gokuldoss; Eckert, Jürgen Journal of materials research and technology 2022 / p. 4645-4657 <https://doi.org/10.1016/j.jmrt.2022.06.149> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tailoring the microstructure and tribological properties in commercially pure aluminium processed by High Pressure Torsion Extrusion

Omranpour Shahreza, Babak; Kommel, Lembit; Sergejev, Fjodor; Ivanisenko, Yulia; Antonov, Maksim Proceedings of the Estonian Academy of Sciences 2021 / p. 540-548 : ill <https://doi.org/10.3176/proc.2021.4.23> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Teras- ja alumiiniumkonstruktsioonide valmistamine

Loorits, Kalju 2009 https://www.ester.ee/record=b2529104*est

Teras- ja alumiiniumkonstruktsioonide valmistamine. Osa 2, Tehnilised nõuded teraskonstruktsioonidele = Execution of steel structures and aluminium structures. Part 2, Technical requirements for steel structures

2012 https://www.ester.ee/record=b2758822*est

Teraskonstruktsioonide ja alumiiniumkonstruktsioonide valmistamine. Osa 3, Tehnilised nõuded alumiiniumkonstruktsioonidele = Execution of steel structures and aluminium structures. Part 3, Technical requirements for aluminium structures

2010 https://www.ester.ee/record=b2638692*est

The aluminum based composite produced by Self propagating High temperature Synthesis

Pramono, Agus; Kommel, Lembit; Kollo, Lauri; Veinthal, Renno Materials science = Medžiagotyra 2016 / p. 41-43 : ill <http://dx.doi.org/10.5755/j01.ms.22.1.7500>

The influence of alumina and zirconia coats on the tribological properties of alumina nanofibers

Aghayan, Marina; Gasik, Michael; Kollo, Lauri; Hussainova, Irina; Rodriguez, Miguel Angel CIMTEC 2014 : 13th International

The influence of refractory composition in binder phase on wear properties of boron carbide aluminium composites
Kommel, Lembit; Traksmäa, Rainer; Kimmari, Eduard Abstracts of 10th Nordic Symposium on Tribology NORDTRIB 2002 / p. 97

The influence of refractory composition in binder phase on wear properties of boron carbide aluminium composites
[Electronic resource]
Kommel, Lembit; Traksmäa, Rainer; Kimmari, Eduard Proceedings of 10th Nordic Symposium on Tribology NORDTRIB 2002 / Ref. 18 [CD-ROM]

The structure and properties forming in boron carbide aluminium composites during processing
Kommel, Lembit; Hussainova, Irina; Kimmari, Eduard Proceedings of World Congress on Powder Metallurgy and Particulate Materials, USA. Vol. 6 2002 / p. 182-187

The template-assisted wet-combustion synthesis of copper oxide nanoparticles on mesoporous network of alumina nanofibers
Aghayan, Marina; Hussainova, Irina; Kirakosyan, Khachatur; Rodriguez, Miguel Angel Materials chemistry and physics 2017 / p. 138-146 : ill <https://doi.org/10.1016/j.matchemphys.2017.01.068>

Thermal and microstructural analysis of doped alumina nanofibers
Aghayan, Marina; Gasik, Michael; **Hussainova, Irina;** Rubio-Marcos, Fernando; **Kollo, Lauri; Kübarsepp, Jakob** Thermochimica acta 2015 / p. 43-48 : ill <http://dx.doi.org/10.1016/j.tca.2015.01.009>

Ultrahigh aspect ratio alumina nanofibers as reinforcements
Hussainova, Irina; Gasik, Michael; **Aghayan, Marina** 38th International Conference & Exposition on Advanced Ceramics and Composites : abstract book : January 26-31, 2014, Daytona Beach, Florida 2014 / p. 117

Using small punch testing method for the analysis of creep behaviour of Al-Al₄C₃ composites
Besterci, Michal; Dobeš, Ferdinand; Kulu, Priit; **Sülleiova, Katarina** Estonian journal of engineering 2010 / 3, p. 243-254 : ill https://artiklid.elnet.ee/record=b2156237*est

Welding quality and productivity in Al welding in Estonian enterprises [Electronic resource]
Stepanov, Aleksandr; Laansoo, Andres Theses and reports of 5th International Conference "Metals, Welding and Power Metallurgy" : MET2007 : Jurmala, September 13-14.2007 2007 / ? p. [CD-ROM]

Испытание тонкостенного канала индукционного насоса для перекачки жидкого алюминия
Saar, M.; Teearu, Viktor; Papp, M.; Sutt, H. Исследование и проектирование электромагнитных средств перемещения жидких металлов : сборник трудов. 2 1964 / с. 123-130 : илл https://www.ester.ee/record=b2100528*est
<https://digikogu.taltech.ee/et/Item/882f07f6-3851-473d-b12b-e7af7990706d>

Испытания индукционного насоса ЭМН-6 на жидком алюминии
Voldek, Aleksander; Tiismus, Hugo; Jänes, Hans; Veske, Toivo; Liin, Heljut; Tammemägi, Herbert Исследование и проектирование индукционных насосов для транспорта жидких металлов : сборник трудов. 1 1962 / с. 235-245 : илл https://www.ester.ee/record=b2100656*est <https://digikogu.taltech.ee/et/Item/b0ebc529-0556-472c-9f71-a6a62666fb1e>

Исследование легирования сульфида цинка медью, алюминием, галлием и индием
Lott, Kalju; Varvas, Jüri Свойства легированных полупроводников 1977 / с. 98-99 : ill https://www.ester.ee/record=b2708631*est

Исследование легирования сульфида цинка медью, алюминием, галлием и индием
Lott, Kalju; Varvas, Jüri Всесоюзная конференция по физико-химическим основам легирования полупроводниковых материалов : тезисы докладов 1975 / с. 108-109

Использование ионообменных методов при отделении и определении железа и алюминия в сланцевой золе
Kann, Jüri; Milli, V.; Vilbok, Heinrich Сборник научных трудов студентов. 3 1960 / с. 43-51 : илл https://www.ester.ee/record=b2181418*est <https://digikogu.taltech.ee/et/Item/3c57b85a-ce7a-4beb-ab6a-4e0c682a1d0b>

Об устойчивости некоторых материалов в жидком алюминии
Keerus, H.; Saar, M.; Tiismus, Hugo Исследование и проектирование индукционных насосов для транспорта жидких металлов : сборник трудов. 1 1962 / с. 155-165 : илл https://www.ester.ee/record=b2100656*est
<https://digikogu.taltech.ee/et/Item/b0ebc529-0556-472c-9f71-a6a62666fb1e>

Опытная МГД-установка на жидком алюминии
Tiismus, Hugo; Laugis, Juhan; Loigom, Villem; Tomson, Jaan; Irs, Rein; Tarma, Mati; Lehtla, Tõnu; Sakkos, Heinar; Arusoo, Andres; Oorn, Arvo; Pettai, Elmo Всесоюзный симпозиум по автоматизированному линейному и магнитогидродинамическому электроприводу : тезисы докладов 1981 / с. 72-74 https://www.ester.ee/record=b1312096*est

Создание радиационных дефектов и люминесценция в галогенсодержащих каркасных алюмосиликатах :
автореферат ... кандидата физико-математических наук (01.04.07)
Ruus, Tõnu 1987 https://www.ester.ee/record=b1349120*est

Структурные характеристики легированных жаропрочных сплавов на основе Ni3Al
Kommel, Lembit; Kodess, Boris N.; Kommel, Igor Сборник тезисов Первого Российского кристаллографического конгресса :
21-26 ноября 2016, г. Москва 2016 / с. 375 http://www.issp.ac.ru/ebooks/conf/Cryst_Congress_1.pdf

Экспериментальное исследование МГД-привода для транспорта жидкого алюминия
Irs, Rein; Laugis, Juhan; Loigom, Villem; Tiismus, Hugo; Tomson, Jaan Семинар по прикладной магнитной гидродинамике :
тезисы докладов 1978 / с. [136-137]