

Air vortex assisted electrospinning unit for nanoyarn production

Viirsalu, Mihkel; Kivirand, Teet; Krumme, Andres; Savest, Natalja Baltic Polymer Symposium 2015 : Sigulda, Latvia, September 16-18 : programme and proceedings 2015 / p. 53

Air vortex electrospinning method for nanofiber yarn production [Online resource]

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Alkoxide-based precursors for direct drawing of metal oxide micro- and nanofibres

Tätte, Tanel; Hussainov, Medhat; Paalo, Madis; Part, Marko; Talviste, Rasmus; Kiisk, Valter; Mändar, Hugo; Põhako, Kaija; Pehk, Tönis; Reivelt, Kaido; Natali, Marco; Gurauskis, Jonas; Lõhmus, Ants; Mäeorg, Uno Science and technology of advanced materials 2011 / [12] p.: ill

Alkoxide-based precursors for direct drawing of metal oxide micro- and nanofibres

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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

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

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

Atomic layer deposition of aluminaon g-Al₂O₃ nanofibres

Jõgiaas, Taivo; Arroval, Tõnis; Kollo, Lauri; Hussainova, Irina Physica status solidi (a) : applications and materials science 2014 / p. 403-408 : ill

Biomechanical Features of Graphene-Augmented Inorganic Nanofibrous Scaffolds and Their Physical Interaction with Viruse

Gasik, Michael; Ivanov, Roman; Kazantseva, Jekaterina; Bilotsky, Yevgen; Hussainova, Irina Materials 2021 / art. 164
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Chemical vapour deposition of graphene coating onto ceramic nanofibers substrates and applications thereof = Grafeenpinde keemiline aursadestus keraamilistele nanokiududele ja nende kasutus

Ivanov, Roman 2017 <https://digi.lib.ttu.ee/i/?9128>

Crack formation during post-treatment of nano- and microfibres prepared by sol-gel technique

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Rojas Hernandez, Rocio Estefania; Rubio-Marcos, Fernando; Romet, Ivo; Del Campo, Adolfo; Gorni, Giulio; Hussainova, Irina; Fernandez, Jose Francisco; Nagirnyi, Vitali Inorganic Chemistry 2022 / p. 11886-11896 <https://doi.org/10.1021/acs.inorgchem.2c01646> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Deposition of iron oxide nanoparticles on mesoporous alumina network by wet-combustion technology

Kamboj, Nikhil Kumar; Saffarshamshirgar, Ali; Shirshneva-Vaschenko, Elena; Hussainova, Irina Materials chemistry and physics 2019 / p. 340-346 : ill <https://doi.org/10.1016/j.matchemphys.2018.12.095> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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 (BALTMATTRIB & 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 (BALTMATTRIB & 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>

Electrocatalysts for oxygen reduction reaction based on electrospun polyacrylonitrile, styrene–acrylonitrile copolymer and carbon nanotube composite fibres

Mooste, Marek; Kibena-Pöldsepp, Elo; **Vassiljeva, Viktoria; Uibu, Mai; Krumme, Andres** Journal of materials science 2019 / p. 11618–11634 : ill <https://doi.org/10.1007/s10853-019-03725-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electroconductive composite of zirconia and hybrid graphene/alumina nanofibers

Hussainova, Irina; Drozdova, Maria; Perez-Coll, Domingo Journal of the European Ceramic Society 2017 / p. 3713-3719 : ill <https://doi.org/10.1016/j.jeurceramsoc.2016.12.033>

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Hussainova, Irina; Drozdova, Maria; Ivanov, Roman; Kale, Sudhir S.; Jasiuk, Iwona Proceedings of the 42nd international conference on advanced ceramics and composites 2019 / p. 251–258 <https://doi.org/10.1002/9781119543343.ch25> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

Electrodeposited ZnO morphology transformations under the influence of SeO₂ additive: Rods, disks, nanosheets network

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Electrospinning of a polymer membrane reinforced with carbon nanotubes = Süsinik nanotorudega tugevdatud polümeerse membraani elektroketrus

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Electrospinning of nanofibrous composites with cellulose acetate, ionic liquids and graphene oxide = Tselluloosatsetaadi, ioneerete vedelike ja grafeenoksandi nanokiuliste komposiitide elektroketrus

Javed, Kashif 2019 <https://digi.lib.ttu.ee/i/?12424>

Electrospun fibrous materials with propolis extracts for edible food packagings

Zelca, Zane; Merijs-Meri, Remo; **Krumme, Andres**; Bernava, Aina Molecules 2023 / art. 5497 <https://doi.org/10.3390/molecules28145497>

Electrospun nanofibrous materials for energy storage and harvesting

Krasnou, Illia; Plamus, Tiia; Vassiljeva, Viktoria; Malmberg, Siret; Tarasova, Elvira; **Krumme, Andres** Baltic Polymer Symposium 2019 : Vilnius, Lithuania, 18-20 September 2019 : programme and proceedings 2019 / p. 27 : ill [Molecularly imprinted polymers](#)

Electrospun polyacrylonitrile-derived Co and Fe containing nanofibre catalysts for oxygen reduction reaction at the alkaline membrane fuel cell cathode

Mooste, Marek; Kibena-Pöldsepp, Elo; **Vassiljeva, Viktoria**; Kikas, Arvo; Käärik, Maike; Kozlova, Jekaterina; Kisand, Vambola; Külväir, Marian; Cavaliere, S.; Leis, Jaan; **Krumme, Andres**; Sammelselg, Väino; Holdcroft, Steven; Tammeveski, Kaido ChemCatChem 2020 / p. 4568–4581 : ill <https://doi.org/10.1002/cctc.202000658> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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Enhancing NIR emission in ZnAl₂O₄:Nd,Ce nanofibers by co-doping with Ce and Nd: a promising biomarker material with low cytotoxicity

Rojas Hernandez, Rocio Estefania; Rubio-Marcos, Fernando; Gorni, Giulio; Marini, Carlo; **Danilson, Mati**; Pascual, Laura; Ichikawa, Rodrigo Uchida; **Hussainova, Irina**; Fernandez, Jose Francisco Journal of materials chemistry C 2021 / p. 657-670 : ill <https://doi.org/10.1039/D0TC04752J> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fabrication of NiO/NiAl₂O₄ nanofibers by combustion method

Aghayan, Marina; Hussainova, Irina Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATTRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 31-34 : ill <http://dx.doi.org/10.4028/www.scientific.net/KEM.674.31>

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

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Potemkin, D. I.; **Aghayan, Marina; Kamboj, Nikhil Kumar; Hussainova, Irina** Materials letters 2018 / p. 35-37 : ill
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Formation of uniform PVDF fibers under ultrasound exposure in presence of anionic surfactant
Tarasova, Elvira; Tamberg, K.-G.; Viirsalu, Mihkel; Savest, Natalja; Gudkova, Viktorija; Krasnou, Illia; Krumme, Andres
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Functionally graded tunable microwave absorber with graphene-augmented alumina nanofibers
Shamshirgar, Ali Saffar; **Rojas Hernandez, Rocio Estefania; Tewari, Girish C.; Fernandez, Jose Francisco; Ivanov, Roman; Karppinen, Maarit; Hussainova, Irina** ACS applied materials & interfaces 2021 / p. 21613-21625
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Graphene-augmented nanofiber scaffolds demonstrate new features in cells behaviour
Kazantseva, Jekaterina; **Ivanov, Roman; Gasik, Michael; Neumann, Toomas; Hussainova, Irina** Scientific reports 2016 / art. 30150, p. 1-8 : ill <http://dx.doi.org/10.1038/srep30150>

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Taleb, Masoud; Ivanov, Roman; Bereznev, Sergei; Kazemi, Sayed Habib; Hussainova, Irina Microchimica acta 2017 / p. 897-905 : ill <https://doi.org/10.1007/s00604-017-2085-7>

Graphene-encapsulated aluminium oxide nanofibers as a novel type of nanofillers for electroconductive ceramics
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Hybrid graphene/alumina nanofibers for electrodconductive zirconia
Drozdova, Maria; Perez-Coll, Domingo; Aghayan, Marina; Ivanov, Roman; Rodriguez, Miguel Angel; Hussainova, Irina

Hybrid graphene-ceramic nanofibre network for spontaneous neural differentiation of stem cells

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Impact of 1-butyl-3-methylimidazolium chloride on the electrospinning of cellulose acetate nanofibers

Javed, Kashif; Krumme, Andres; Krasnou, Illia; Mikli, Valdek; Viirsalu, Mihkel; Plamus, Tiia; Vassiljeva, Viktorija; Tarasova, Elvira; Savest, Natalja; Mendez, James D. Journal of macromolecular science, part A : pure and applied chemistry 2018 / p. 142-147 : ill <https://doi.org/10.1080/10601325.2017.1387861> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Influence of preparation process on morphology and conductivity of carbon black-based electrospun nanofibers

Tarasova, Elvira; Byzova, Arina; Savest, Natalja; Viirsalu, Mihkel; Gudkova, Viktorija; Märts, Triin; Krumme, Andres Fullerenes, nanotubes and carbon nanostructures 2015 / p. 695-700 : ill <http://dx.doi.org/10.1080/1536383X.2014.974090>

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Varnaite-Žuravliova, Sandra; **Savest, Natalja**; Abraitiene, Aušra; Baltušnikaite-Guzaitiene, Julija; **Krumme, Andres** Materials Research Express 2018 / art. 055308 <https://doi.org/10.1088/2053-1591/aac4ea> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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Voltšihhin, Nikolai; Rodriguez, Miguel Angel; **Hussainova, Irina**; Aghayan, Marina Ceramics international 2014 / p. 7235-7244 : ill

Mechanical properties and self-healing capacity of ultra high performance fibre reinforced concrete with alumina nanofibres : tailoring ultra high durability concrete for aggressive exposure scenarios

Cuenca, Estefania; D'Ambrosio, Leonardo; Lizunov, Dennis; **Tretjakov, Aleksei**; Volobujeva, Olga; Ferrara, Liberato Cement and concrete composites 2021 / art. 103956, 17 p <https://doi.org/10.1016/j.cemconcomp.2021.103956> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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Novel method for producing electrospun composite nanofibre yarns

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Rauwel, Erwan; Nilsen, Ola; **Rauwel, Protima**; Galeckas, Augustinas; Wragg, David; Walmsley, John; **Hussainova, Irina**; Soots, Karel WG2 workshop and 4th ALDCoE annual seminar : 23-24 May 2016, Helsinki, Finland : abstracts 2016 / [1] p. : ill

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The impact of 1-butyl-3-methylimidazolium chloride on electrospinning process of SAN polymer solutions and electrospun fiber morphology

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The investigation of chitosan/polyethylene oxide nanofibers produced by electrospinning

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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>

The template-assisted wet-combustion synthesis of fibrous nickel-based catalyst for carbon dioxide methanation and methane steam reform

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Time-effective synthesis of rhombohedral CuAlO₂ from mesoporous alumina substrate

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