

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

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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 <https://doi.org/10.3390/ma14010164> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Deep-ultraviolet emitter : rare-earth-free ZnAl₂O₄ nanofibers via a simple wet chemical route

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](#)

Dichroic absorption of aligned graphene-augmented inorganic nanofibers in the terahertz regime

Xenidis, Nikolaos; Przewloka, Aleksandra; Stelmaszczyk, Kamil; Haras, Maciej; Smirnov, Serguei; Krajewska, Aleksandra; **Ivanov, Roman;** **Hussainova, Irina;** Oberhammer, Joachim; Skotnicki, Tomas; Mierczyk, Zygmunt; Lioubtchenko, Dmitri Applied materials today 2024 / art. 102245 <https://doi.org/10.1016/j.apmt.2024.102245>

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 <https://doi.org/10.4028/www.scientific.net/KEM.674.77> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Directional conductivity in layered alumina

Hussainova, Irina; Saffarshamshirgar, Ali; **Ivanov, Roman;** Volobujeva, Olga; Romanov, Alexey; Gasik, Michael Current applied physics 2022 / p. 68-73 : ill <https://doi.org/10.1016/j.cap.2020.06.009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrochemically synthesised CdSe nanofibers and pearl-chain nanostructures for photovoltaic applications

Kois, Julia; Bereznev, Sergei; Gurevits, Jelena; Volobujeva, Olga Materials letters 2013 / p. 110-113 : ill <https://doi.org/10.1016/j.matlet.2012.11.122> [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 (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 31-34 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.31> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Fibrous alumina-based Ni-CeO₂ catalyst : synthesis, structure and properties in propane pre-reforming

Potemkin, D. I.; **Aghayan, Marina;** Kamboj, Nikhil Kumar; **Hussainova, Irina** Materials letters 2018 / p. 35-37 : ill <https://doi.org/10.1016/j.matlet.2017.12.039> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fibrous alumina-based Ni-MO_x (M= Mg, Cr, Ce) catalysts for propane pre-reforming

Uskov, S. I.; Potemkin, D. I.; **Kamboj, Nikhil Kumar;** Snytnikov, P.V.; **Hussainova, Irina** Materials letters 2019 / art. 126741, 4 p. : ill <https://doi.org/10.1016/j.matlet.2019.126741> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Functionalization of gamma-alumina nanofibers by alpha-alumina via solution combustion synthesis

Aghayan, Marina; Voltshin, Nikolai; Rodriguez, Miguel Angel; Rubio-Marcos, Fernando; **Dong, Minjie;** **Hussainova, Irina** Ceramics international 2014 / p. 12603-12607 : ill <https://doi.org/10.1016/j.ceramint.2014.04.087> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Graphene coated alumina nanofibers as zirconia reinforcement

Ivanov, Roman; **Hussainova, Irina;** **Aghayan, Marina;** **Petrov, Mihail** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 348-353 : ill

Graphene covered alumina nanofibers as toughening agent in alumina ceramics

Hussainova, Irina; Drozdova, Maria; **Aghayan, Marina;** **Ivanov, Roman;** Perez-Coll, Domingo 13th International Ceramics Congress. Part B 2014 / p. 49-53

Graphene-augmented nanofiber scaffolds trigger gene expression switching of four cancer cell types

Kazantseva, Jekaterina; **Ivanov, Roman;** Gasik, Michael; Neuman, Toomas; **Hussainova, Irina** ACS biomaterials science & engineering 2018 / p. 1622-1629 : ill <https://doi.org/10.1021/acsbiomaterials.8b00228> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hybrid graphene/alumina nanofibers for electroconductive zirconia

Drozdova, Maria; Perez-Coll, Domingo; **Aghayan, Marina;** **Ivanov, Roman;** Rodriguez, Miguel Angel; **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. 15-20 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.15> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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, Viktoria;** **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](#)

The investigation of the production of salt-added polyethylene oxide/chitosan nanofibers

Varnaite-Žuravliova, Sandra; **Savest, Natalja;** Baltušnikaite-Guzaitiene, Julija; Abraitene, Aušra; **Krumme, Andres** Materials 2024 / art. 132 <https://doi.org/10.3390/ma17010132> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mesoporous fibrous silicon nitride by catalytic nitridation of silicon

Minasyan, Tatevik; **Liu, Le;** Aghayan, Marina; Rodriguez, Miguel Angel; **Aydinyan, Sofiya;** **Hussainova, Irina** Progress in natural science: materials international 2019 / p. 190-197 : ill <https://doi.org/10.1016/j.pnsc.2019.03.017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A novel approach to electroconductive ceramics filled by graphene covered nanofibers

Drozdova, Maria; **Hussainova, Irina V.;** Pérez-Coll, Domingo; **Aghayan, Marina;** **Ivanov, Roman A.;** Rodriguez, M. A. Materials and Design 2016 / p. 291 - 298 <https://doi.org/10.1016/j.matdes.2015.10.148> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Polymer nanofiber deposition in lab-on-a-chip devices by electrospinning

Pardy, Tamas; **Jõemaa, Rauno;** Ender, Ferenc; **Rang, Toomas;** Hegedus, Kristof; Balogh-Weiser, Diana 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 4 p. : ill <https://doi.org/10.1109/BEC49624.2020.9277494>

A Review on graphene-based electrospun conductive nanofibers, supercapacitors, Anodes, and cathodes for lithium-ion batteries

Javed, Kashif; **Oolo, Marco;** **Savest, Natalja;** **Krumme, Andres** Critical Reviews in Solid State and Materials Sciences 2019 / p. 427-443 : ill <https://doi.org/10.1080/10408436.2018.1492367> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

Aghayan, Marina; Potemkin, D. I.; Rubio-Marcos, Fernando; Uskov, S. I.; Snytnikov, N.; **Hussainova, Irina** ACS applied materials and interfaces ACS applied materials & interfaces 2017 / p. 43553-43562 : ill <https://doi.org/10.1021/acsami.7b08129> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 <https://doi.org/10.1016/j.tca.2015.01.009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thermal transport and thermoelectric effect in composites of alumina and graphene-augmented alumina nanofibers

Saffarshamshirgar, Ali; Belmonte, Manuel; Tewari, Girish C.; **Rojas Hernandez, Rocio Estefania;** Seitsonen, Jani; **Ivanov, Roman;** Karppinen, Maarit; Miranzo, Pilar; **Hussainova, Irina** Materials 2021 / art. 2242 <https://doi.org/10.3390/ma14092242> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Towards controllable electrospinning: a systematic analysis of the effect of input parameters on nanofiber morphology

Mahdian, Mehrab; Stummer, Tamas; Sepsik, Norman; **Ender, Ferenc;** Balogh-Weiser, Diana; **Pardy, Tamas** techrxiv.org 2025 / 86 p <https://doi.org/10.36227/techrxiv.174662365.53016549/v1>