

## **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**

Tätte, Tanel; **Hussainov, Medhat**; Gurauskis, Jonas; Mändar, Hugo; Kelp, Glen; Rand, R.; Paalo, Madis; Hanschmid, Kelli;

**Hussainova, Irina** Technical proceedings of the 2010 NSTI Nanotechnology Conference & Expo : Nanotech 2010. Vol.2,

Nanotechnology 2010: Electronics, Devices, Fabrication, MEMS, Fluidics and Computational 2010 / p. 245-248 : ill

[https://www.researchgate.net/publication/231121928\\_Alkoxide-based\\_precursors\\_for\\_direct\\_drawing\\_of\\_metal\\_oxide\\_micro\\_and\\_nanofibres](https://www.researchgate.net/publication/231121928_Alkoxide-based_precursors_for_direct_drawing_of_metal_oxide_micro_and_nanofibres)

## **An experimental investigation of effect of the velocity slip on modification of the grid-generated turbulence in a gas-solid particles flow [Electronic resource]**

**Hussainov, Medhat; Kartušinski, Aleksander; Rudi, Ülo; Štšeglov, Igor; Tisler, Sergei** Proceedings of the 3rd International Symposium on Two-Phase Flow Modelling and Experimentation : ISTP-2004 : Pisa, Italy, September 22-26, 2004 2004 / paper No. a504. [CD-ROM]

[https://www.researchgate.net/publication/356393906\\_Experimental\\_study\\_of\\_the\\_effect\\_of\\_velocity\\_slip\\_and\\_mass\\_loading\\_on\\_the\\_modification\\_of\\_grid-generated\\_turbulence\\_in\\_gas-solid\\_particles\\_flows](https://www.researchgate.net/publication/356393906_Experimental_study_of_the_effect_of_velocity_slip_and_mass_loading_on_the_modification_of_grid-generated_turbulence_in_gas-solid_particles_flows)

## **An experimental study of effect of particles on a turbulence of gas in a gas-solid particles flows**

**Hussainov, Medhat; Kartušinski, Aleksander; Rudi, Ülo; Štšeglov, Igor; Tisler, Sergei** NATO Advanced Study Institute Flow and Transport Processes in Complex Obstructed Geometries : from Cities and Vegetative Canopies to Industrial Problems : Kyiv, Ukraine, May 4-12, 2004 2004 / p. 108-109

## **An experimental study of the grid-generated turbulence in a two-phase flow - the control of the velocity slip [Electronic resource]**

**Hussainov, Medhat; Kartušinski, Aleksander; Štšeglov, Igor; Stock, D.E.; Tisler, Sergei** Proceedings of the 11 Workshop on Two-Phase Flow Predictions : 2005, Merseburg, Germany 2005 / [12] p. [CD-ROM]

## **Application of nanoindentation for constituent phases testing in ceramic–metal composites**

**Hussainova, Irina; Jasiuk, Iwona; Hussainov, Medhat** Technical proceedings of the 2010 NSTI Nanotechnology Conference & Expo - Nanotech 2010. Vol. 1, Nanotechnology 2010 : Advanced materials, CNTs, Particles, Films and Composites 2010 / p. 152-155 : ill

## **Application of particle tracking velocimetry for studying the dispersion of particles in a turbulent gas flow**

**Kartušinski, Aleksander; Rudi, Ülo; Tisler, Sergei; Hussainov, Medhat; Štšeglov, Igor** High temperature 2012 / p. 381-390 : ill  
<https://link.springer.com/article/10.1134/S0018151X12030133>

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

Tätte, Tanel; Kolesnikova, Anna; **Hussainov, Medhat**; Talviste, R.; Lõhmus, Rünno; Romanov, Alexey; **Hussainova, Irina**; Part, Marko; Lõhmus, Ants Journal of nanoscience and nanotechnology 2010 / 9, p. 6009-6016 <https://pubmed.ncbi.nlm.nih.gov/21133140/>

## **Deposition of fine solid particles in laminar flat-plate boundary layers [Electronic resource]**

**Hussainov, Medhat; Kartušinski, Aleksander; Michaelides, Efstrathios; Rudi, Ülo; Štšeglov, Igor; Tisler, Sergei** Proceedings of FEDSM2007 : 5th joint ASME/JSME Fluids Engineering Conference, San Diego, California, USA, July 30 - August 2, 2007 2007 / [7] p. [CD-ROM] <https://asmedigitalcollection.asme.org/FEDSM/proceedings-abstract/FEDSM2007/42886/911/327596?redirectedFrom=PDF>

## **Deposition of solid particle in laminar boundary layer on a flat plate**

**Kartušinski, Aleksander; Krupenski, Igor; Tisler, Sergei; Hussainov, Medhat; Štšeglov, Igor** High temperature 2009 / 6, p. 892-901 <https://link.springer.com/article/10.1134/S0018151X09060170>

## **Deposition of solid particles at streamlined surface in turbulent flow**

**Kartušinski, Aleksander; Rudi, Ülo; Štšeglov, Igor; Tisler, Sergei; Hussainov, Medhat** Dynamics of non-spherical particles in fluid turbulence, Udine Italy, 2011, April 6-8 2011 / [1] p

## **Deposition of solid particles at streamlined surface in turbulent flow**

**Kartušinski, Aleksander; Rudi, Ülo; Štšeglov, Igor; Tisler, Sergei; Hussainov, Medhat** 7th International Conference on Multiphase Flow : ICMF 2010 : Tampa, FL USA, May 30-June 4, 2010 2010 / [8] p. : ill

## **Deposition of solid particles in laminar flat-plate boundary layer [Electronic resource]**

**Hussainov, Medhat; Kartušinski, Aleksander; Rudi, Ülo; Štšeglov, Igor; Tisler, Sergei** 6th International Conference on Multiphase Flow : ICMF2007 : Leipzig, Germany, July 9-13 2007 / [8] p. [CD-ROM]

## **Dispersion of solid particles in grid-generated turbulent flow**

**Hussainov, Medhat; Kartušinski, Aleksander; Rudi, Ülo; Štšeglov, Igor; Tisler, Sergei** ANSYS Workshop "Multiphase Flows - Simulation, Experiment and Application" : 24-26 June 2008, Dresden, Germany 2008 / ? p

**Effect of solid particles on turbulence of gas in two-phase flows**

Hussainov, Medhat 2005 [https://www.esther.ee/record=b2041758\\*est](https://www.esther.ee/record=b2041758*est)

**Effect of thermo-elastic residual stresses on erosive performance of cermets with core-rim structured ceramic grains**

Hussainova, Irina; Kolesnikova, Anna; Hussainov, Medhat; Romanov, Alexey Wear 2009 / 1/4, p. 177-185 : ill

**Effect of thermo-elastic residual stresses on erosive performance of cermets with core-rim structured ceramic grains**

Hussainova, Irina; Kolesnikova, Anna; Hussainov, Medhat; Romanov, Alexey Wear 2009 / p. 177-185 : ill

<https://www.sciencedirect.com/science/article/pii/S0043164809001446>

**Effects of the variation of mass loading and particle density in gas-solid particle flow in pipes**

Kartušinski, Aleksander; Michaelides, Efstathios; Hussainov, Medhat; Rudi, Ülo Powder technology 2009 / 2, p. 176-181

<https://www.sciencedirect.com/science/article/pii/S0032591009001958>

**Estimation of the deposition of fine solid particles in a laminar flat-plate boundary layer**

Hussainov, Medhat; Kartušinski, Aleksander; Rudi, Ülo; Štseglov, Igor; Tisler, Sergei UK-Israel Workshop "Sprays : Modelling versus Experimentation" : Brighton, UK, July 16-18, 2007 2007 / ? p

**Eulerian–Eulerian RSTM-PDF modeling of turbulent particulate flow**

Kartušinski, Aleksander; Michaelides, Efstathios E.; Hussainov, Medhat; Štseglov, Igor; Akhmadullin, Ildar Mathematics 2023 / art. 2647, 15 p. : ill <https://doi.org/10.3390/math11122647> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Experimental study of the effect of velocity slip and mass loading on the modification of grid-generated turbulence in gas-solid particles flows**

Hussainov, Medhat; Kartušinski, Aleksander; Rudi, Ülo; Štseglov, Igor; Tisler, Sergei Proceedings of the Estonian Academy of Sciences. Engineering 2005 / 2, p. 169-180 : ill [https://artiklid.elnet.ee/record=b1017959\\*est](https://artiklid.elnet.ee/record=b1017959*est)

**Formation of aerosol particles by low-frequency sound-stimulated combustion**

Dušenko, Veera; Hussainov, Medhat; Štseglov, Igor; Tiikma, Toomas Proceedings of the Estonian Academy of Sciences. Engineering 2003 / 2, p. 137-147 : ill

**Grid-generated turbulence in two-phase flow : the effect of parameters of the carrier medium and particles**

Kartušinski, Aleksander; Rudi, Ülo; Tisler, Sergei; Hussainov, Medhat; Štseglov, Igor High temperature 2009 / 2, p. 272-278 <https://link.springer.com/article/10.1134/S0018151X09020187>

**Numerical simulation of grid-generated turbulent particulate flow by three-dimensional Reynolds stress**

Kartušinski, Aleksander; Rudi, Ülo; Stock, David; Hussainov, Medhat; Štseglov, Igor; Tisler, Sergei; Šablinski, Aleksandr Proceedings of the Estonian Academy of Sciences 2013 / p. 161-174 : ill <https://doi.org/10.3176/proc.2013.3.02> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Particles deposition at horizontal flat plate in turbulent particulate flow**

Kartušinski, Aleksander; Hussainov, Medhat; Michaelides, Efstathios; Rudi, Ülo; Štseglov, Igor; Tisler, Sergei; Krupenski, Igor The Canadian journal of chemical engineering 2014 / p. 1-12 : ill <https://doi.org/10.1002/cjce.21923> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Reynolds stress turbulence model for particulate grid-generated turbulence**

Kartušinski, Aleksander; Rudi, Ülo; Stock, David; Hussainov, Medhat; Štseglov, Igor; Tisler, Sergei; Krupenski, Igor Proceedings of the 8th International Conference on Multiphase Flow (ICMF 2013) : Jeju, Korea, May 26-31, 2013 2013 / p. 1-9 : ill

**Rheological properties of MWCNT-doped titanium-oxo-alkoxide gel materials for fiber drawing**

Tätte, Tanel; Hussainov, Medhat; Amiri, Mahsa; Vanetsev, Alexander; Paalo, Madis; Hussainova, Irina Materials 2022 / art. 1186 <https://doi.org/10.3390/ma15031186> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**RSTM numerical simulation of channel particulate flow with rough wall**

Kartušinski, Aleksander; Rudi, Ülo; Hussainov, Medhat; Štseglov, Igor; Tisler, Sergei; Krupenski, Igor; Stock, David Computational and numerical simulations 2014 / p. 41-63 : ill

**Sonic stimulation of natural gas combustion**

Hussainov, Medhat; Kääär, Harri; Štseglov, Igor; Tiikma, Toomas Proceedings of the Estonian Academy of Sciences. Engineering 1997 / 3, p. 147-157

**Structure and rheological behavior of alkoxide-based precursors for drawing of metal oxide micro- and nanofibres**

Hussainov, Medhat; Tätte, Tanel; Paalo, Madis; Gurauskis, Jonas; Mändar, Hugo; Lõhmus, Ants Advanced materials research 2011 / p. 354-358 [https://www.researchgate.net/publication/240305001\\_Structure\\_and\\_Rheological\\_Behavior\\_of\\_Alkoxide-Based\\_Precursors\\_for\\_Drawing\\_of\\_Metal\\_Oxide\\_Micro- and\\_Nanofibres](https://www.researchgate.net/publication/240305001_Structure_and_Rheological_Behavior_of_Alkoxide-Based_Precursors_for_Drawing_of_Metal_Oxide_Micro- and_Nanofibres)

**Technique for experimental studying of elongational behavior of high reactivity viscoelastic liquids : application to alkoxide-based sol-gel precursors**

**Hussainov, Medhat;** Tätte, Tanel; Kelp, Glen; Rand, Rait International Workshop on Dynamics in Viscous Liquids III : Accademia Nazionale dei Lincei, Rome, March 30 - April 2, 2011 : abstracts booklet 2011 / p. 126 : ill

**Technique for extensional rheology characterization of highly reactive viscoelastic liquids**

**Hussainov, Medhat;** Tätte, Tanel; **Hussainova, Irina** Rheologica acta 2012 / p. 729-742 : ill

<https://www.infona.pl/resource/bwmeta1.element.springer-5e1b1676-4a52-342f-a190-f79755c0ab15>

**3D RANS-RSTM numerical simulation of channel turbulent particulate flow with wall roughness**

**Kartušinski, Aleksander; Rudi, Ülo; Stock, David; Hussainov, Medhat; Štseglov, Igor; Tisler, Sergei** 11th International Conference on Numerical Analysis and Applied Mathematics 2013 : ICNAAM-2013 : Rhodes, Greece, 21-27 September 2013 2013  
<https://doi.org/10.1063/1.4825690> Conference Proceedings at Scopus Article at Scopus Article at WOS

**3D RSTM and PDF modeling for turbulent particulate channel flows**

**Kartušinski, Aleksander; Hussainov, Medhat; Rudi, Ülo; Štseglov, Igor; Tisler, Sergei** Smart and Green Interfaces : COST Action MP 1106 - Annual meeting and 5th International Conference on Heat Transfer and Fluid Flow in Microscale Joint Conference : 22-24 April 2014, Campus St. Charles, Marseille, France : book of abstracts 2014 / p. O-39

**3D RSTM modeling for particulate grid-generated turbulent and shear flows [Electronic resource]**

**Kartušinski, Aleksander; Hussainov, Medhat; Štseglov, Igor; Tisler, Sergei; Kosinski, Paweł; Balakin, Boris V.; Lauk, Peep; Seegel, Karl-Erik** 9th International Conference on Multiphase Flow : ICMF 2016 : May 22-27 2016, Firenze, Italy : proceedings 2016 / [CD-ROM]

**Two-fluid RANS-RSTM-PDF model for turbulent particulate flows**

**Lauk, Peep; Kartušinski, Aleksander; Hussainov, Medhat; Polonsky, Andrei; Rudi, Ülo; Štseglov, Igor; Tisler, Sergei; Seegel, Karl-Erik** Numerical simulation : from brain imaging to turbulent flows 2016 / p. 339-363 : ill <http://dx.doi.org/10.5772/63338>

**Осаждение твердых частиц в ламинарном пограничном слое на плоской пластине**

**Hussainov, Medhat; Kartušinski, Aleksander; Krupenski, Igor; Tisler, Sergei; Štseglov, Igor** Теплофизика высоких температур 2009 / 6, с. 927-936

**Осаждение твердых частиц на обтекаемую поверхность в турбулентном потоке**

**Kartušinski, Aleksander; Rudi, Ülo; Tisler, Sergei; Hussainov, Medhat; Štseglov, Igor** Всероссийская конференция «XXIX Сибирский теплофизический семинар» : Новосибирск, 15 – 17 ноября 2010 г. : тезисы докладов 2010

**Применение цифровой трассерной визуализации для исследования дисперсии частиц в турбулентном газовом потоке**

**Kartušinski, Aleksander; Rudi, Ülo; Tisler, Sergei; Hussainov, Medhat; Štseglov, Igor** Теплофизика высоких температур 2012 / с. 408-417: ил

**Сеточная турбулентность в двухфазном потоке : влияние параметров несущей среды и частиц**

**Kartušinski, Aleksander; Rudi, Ülo; Tisler, Sergei; Hussainov, Medhat; Štseglov, Igor** Теплофизика высоких температур 2009 / 2, с. 292-298