

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, Tõnis; Reivelt, Kaido; Natali, Marco; Gorauskis, 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**; Gorauskis, 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

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. as04. [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

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, Efsthios; **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 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.ester.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

Effects of the variation of mass loading and particle density in gas-solid particle flow in pipes
Kartušinski, Aleksander; Michaelides, Efsthathios; 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; Štšeglov, 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, Efsthathios E.; Hussainov, Medhat; Štšeglov, 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; Štšeglov, Igor; Tisler, Sergei *Proceedings of the Estonian Academy of Sciences. Engineering* 2005 / 2, p. 169-180 : ill https://artiklid.elnet.ee/record=b1017959*est

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; Štšeglov, 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; Štšeglov, 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, Efsthathios; Rudi, Ülo; Štšeglov, 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; Štšeglov, 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; Štšeglov, Igor; Tisler, Sergei; Krupenski, Igor; Stock, David *Computational and numerical simulations* 2014 / p. 41-63 : ill

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; Löhmus, 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

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; Štšeglov, 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; Štšeglov, 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; Štšeglov, Igor; Tisler, Sergei; Kosinski, Pawel; 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; Štšeglov, 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; Štšeglov, 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; Štšeglov, 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; Štšeglov, 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; Štšeglov, Igor Теплофизика высоких температур 2009 / 2, с. 292-298