

### **A simple method for analysis the content of ferromagnetic particles in oils**

Soon, Ants Proceedings of the Third National DAAAM Conference in Estonia : SCIENCE '98 1998 / p. 27-29: ill

### **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](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 effect of particles on the shear stress in particulate turbulent pipe flow**

**Kartušinski, Aleksander; Mulgi, Anatoli; Tisler, Sergei; Michaelides, Efstathios** Proceedings of the Estonian Academy of Sciences. Engineering 2005 / 2, p. 161-168 : ill

### **Atomic layer deposition of titanium oxide films on As-synthesized magnetic Ni particles: magnetic and safety properties**

Uudeküll, Peep; Kozlova, Jekaterina; Mändar, Hugo; Link, Joosep; Sihtmäe, Mariliis; **Käosaar, Sandra**; Blinova, Irina; Kasemets, Kaja; Kahru, Anne; Stern, Raivo Journal of magnetism and magnetic materials 2017 / p. 299-304 : ill

<https://doi.org/10.1016/j.jmmm.2017.01.045> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Behaviour of engineering ceramics at hard-particle erosion**

**Kleis, Ilmar; Pappel, Priit; Gotzmann, Johannes** Proceedings of the 6th Nordic Symposium on Tribology : NORDTRIB '94, 12-15 June 1994 Uppsala, Sweden. Vol. 1, Monday 1994 / p. 215-223: ill

### **Characterization of powder particle morphology**

**Mikli, Valdek; Käerdi, Helmo; Kulu, Priit; Besterici, Michal** Proceedings of the Estonian Academy of Sciences. Engineering 2001 / 1, p. 22-34 : ill

### **Characterization of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograin materials grown in molten Cd<sub>2</sub> and LiI : [conference paper]**

**Ghisani, Fairouz; Timmo, Kristi; Altsaar, Mare** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / p. 29 [https://fmdtk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdtk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

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

**Hussainov, Medhat; Kartušinski, Aleksander; Michaelides, Efstathios; 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 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 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 from aerosol flow in laminar flat-plate boundary layer = Tahkete osakeste väljasadenemine aerosoolvoolustest tasapinnalise plaadi laminaarses piirkihis**

**Tisler, Sergei** 2006 [https://www.ester.ee/record=b2158055\\*est](https://www.ester.ee/record=b2158055*est)

### **Diffusion of oriented particles in porous media**

**Haber, René; Prehl, Janett; Herrmann, Heiko; Hoffmann, Karl Heinz** Physics letters A 2013 / p. 2840-2845 : ill

<https://doi.org/10.1016/j.physleta.2013.08.036> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **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

### **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>

### **Erosion by solid particles : results and trends in Estonia**

**Kleis, Ilmar; Tadolder, Jüri; Üksti, Lembit** First Baltic-Scandinavian Symposium on Mechanics : abstracts 1990 / p. 32

### **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

### **Experimental and theoretical determination of restitution coefficient**

**Kleis, Ilmar; Hussainova, Irina; Štšeglov, Igor** International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference, 25-27th September 1997, Tallinn, Estonia 1997 / p. 178-181: ill

### **Experimental and theoretical investigation of particle-wall collision**

**Kleis, Ilmar; Hussainova, Irina; Štšeglov, Igor** OST-97 Symposium on Machine Design, Tallinn, Estonia, May 22-23, 1997 : proceedings 1997 / p. 208-213 [https://www.ester.ee/record=b1083704\\*est](https://www.ester.ee/record=b1083704*est)

### **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](https://artiklid.elnet.ee/record=b1017959*est)

### **Gas-solid particle flow in horizontal channels : decomposition of the particle-phase flow and interparticle collision effects**

**Kartušinski, Aleksander; Michaelides, Efsthathios** Journal of fluids engineering 2007 / 6, p. 702-712

[https://www.researchgate.net/publication/245357137\\_Gas-Solid\\_Particle\\_Flow\\_in\\_Horizontal\\_Channels\\_Decomposition\\_of\\_the\\_Particle-Phase\\_Flow\\_and\\_Interparticle\\_Collision\\_Effects](https://www.researchgate.net/publication/245357137_Gas-Solid_Particle_Flow_in_Horizontal_Channels_Decomposition_of_the_Particle-Phase_Flow_and_Interparticle_Collision_Effects)

### **Impact between spherical glass particles and different target surfaces**

**Kleis, Ilmar; Hussainova, Irina; Štšeglov, Igor** Proceedings of the Estonian Academy of Sciences. Engineering 1998 / 1, p. 18-25: ill

### **Impact damage and impact transitions in glass**

**Hussainova, Irina; Pappel, Toivo** OST-99 Symposium on Machine Design : Stockholm, 30th Sept. - 1st Oct., 1999 : proceedings 1999 / p. 59-64: ill

### **Impact deformations and stresses in target surface**

**Pappel, Toivo; Järvpõld, Neeme** OST-97 Symposium on Machine Design, Tallinn, Estonia, May 22-23, 1997 : proceedings 1997 / p. 9-15: ill [https://www.ester.ee/record=b1083704\\*est](https://www.ester.ee/record=b1083704*est)

### **Impact of solid particles against cermet targets**

**Hussainova, Irina; Kübarsepp, Jakob; Štšeglov, Igor** Proc. of BELTRIB-99 Intern. Conference : Gomel, Belarus, 1999 1999 / p. 53-60

### **Influence of particles properties on the collision of solid particles with hardmetal and cermet**

**Hussainova, Irina; Kübarsepp, Jakob; Štšeglov, Igor; Tisler, Sergei** International Conference Baltrib'99 : 21-22 September 1999, Kaunas, Lithuania : proceedings 1999 / p. 281-287: ill

### **Investigation of impact of solid particles against hardmetal and cermet targets**

**Hussainova, Irina; Kübarsepp, Jakob; Štšeglov, Igor** Abstracts of 12th International Conference on Wear of Materials, April 25-29, 1999, Atlanta (Georgia), USA 1999 / p. 15

### **Investigation of impact of solid particles against hardmetal and cermet targets**

**Hussainova, Irina; Kübarsepp, Jakob; Štšeglov, Igor** Tribology international 1999 / p. 337-344 : ill

### **Investigation of particle - wall impact process**

**Kleis, Ilmar; Hussainova, Irina** Wear 1999 / p. 168-173 : ill

### **Investigation of particle impact process**

**Kleis, Ilmar; Pappel, Toivo; Hussainova, Irina; Štšeglov, Igor** Journal of friction and wear 1997 / p. 730-735

### **Investigation of particle-wall collision**

**Frishman, Feliks; Haljasmaa, Igor; Pappel, Toivo; Rudi, Ülo; Štšeglov, Igor** Eesti Teaduste Akadeemia Toimetised. Füüsika. Matemaatika 1994 / 4, lk. 263-270

### **Investigation of particle-wall collision**

**Hussainova, Irina** Proceedings of the Second National DAAAM Conference in Estonia : Science'96 1997 / p. 13-19: ill

### **Investigation of particle-wall collision**

**Kleis, Ilmar;** Frishman, Feliks; **Hussainova, Irina** OST-96 Symposium on Machine Design, [Stockholm], May 13-14, 1996 : program, abstracts 1996 / [1] p

**Investigation of particle-wall collision**

**Kleis, Ilmar;** Frishman, Feliks; **Hussainova, Irina;** Štšeglov, Igor OST-96 Symposium on Machine Design, [Stockholm], May 13-14, 1996 : proceedings 1996 / p. 16-22: ill

**Investigation of particle-wall collision and erosion prediction**

**Hussainova, Irina** 1999 [http://www.ester.ee/record=b1055069\\*est](http://www.ester.ee/record=b1055069*est)

**Investigation of particle-wall collision and erosion prediction**

**Hussainova, Irina** 1999 [http://www.ester.ee/record=b1371968\\*est](http://www.ester.ee/record=b1371968*est)

**Investigation of the oblique impact of a hard particles against a solid targets**

**Kleis, Ilmar; Hussainova, Irina** OST-98 Symposium on Machine Design, Oulanka, Finland, October 1-3, 1998 : proceedings 1998 / p. 57-65: ill

**Kinetics of fine material particles in a disintegrator**

**Tamm, Jaan; Tadolder, Jüri** OST-97 Symposium on Machine Design, Tallinn, Estonia, May 22-23, 1997 : proceedings 1997 / p. 16-24: ill [https://www.ester.ee/record=b1083704\\*est](https://www.ester.ee/record=b1083704*est)

**Method and installation for studying hard-particle kinematics at impact**

**Kleis, Ilmar;** Frishman, Feliks; **Pappel, Toivo** OST-95 Symposium on Machine Design : proceedings, Oulu, Finland, May 18-19, 1995 1995 / p. 15-22: ill [https://www.ester.ee/record=b1033949\\*est](https://www.ester.ee/record=b1033949*est)

**Method for small particle detection by laser**

**Meigas, Kalju** Optical engineering 1998 / 9, p. 2587-2591: ill

**Modeling of high-concentration gas-particle flow in a horizontal channel**

**Kartušinski, Aleksander;** Michaelides, Efstathios; **Rudi, Ülo** Fluid dynamics 2006 / 2, p. 237-248 <https://link.springer.com/content/pdf/10.1007/s10697-006-0037-8.pdf>

**Modified simulation of the oblique impact of a hard particle against a ductile solid**

**Hussainova, Irina** OST-99 Symposium on Machine Design : Stockholm, 30th Sept. - 1st Oct., 1999 : proceedings 1999 / p. 49-58: ill

**Možnosti hodnotenia morfologie castic praškov obrazovou analyzou**

Kohutek, Ivan; Besterci, Michal; **Kulu, Priit** Pokroky praškove metalurgie 1998 / 1, p. 12-18

**A non-linear deformation model for particle impact process**

**Pappel, Toivo; Põdra, Priit; Järvpõld, Neeme** Materials science = Medžiagotyra 2009 / p. 32-34 <https://matsc.ktu.lt/index.php/MatSc/article/view/26116>

**Numerical modeling of a two-dimensional vertical turbulent two-phase jet**

**Kartušinski, Aleksander;** Michaelides, Efstathios; **Rudi, Ülo; Tisler, Sergei; Štšeglov, Igor** Fluid dynamics 2012 / p. 769-777 : ill <https://link.springer.com/article/10.1134/S0015462812060099>

**Numerical simulation of the distribution characteristics of fine solid particles in a horizontal pipe**

**Kartušinski, Aleksander** Proceedings of the Estonian Academy of Sciences. Engineering 1998 / 2, p. 144-160

**Numerical simulation of uprising gas-solid particle (oil-shale ash) turbulent flow in CFB by different mathematical models**

**Krupenski, Igor; Kartušinski, Aleksander; Siirde, Andres** Proceedings of CYSENI 2010 : the 7th Annual Conference of Young Scientists on Energy Issues : May 27-28, 2010, Kaunas, Lithuania 2010

**Particle-laden gas flow in horizontal channels with collision effects**

**Kartušinski, Aleksander;** Michaelides, Efstathios Powder technology 2006 / 2, p. 89-103 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0032591006002282>

**Pathways of suspended particles released in the bottom boundary layer of the Bornholm Deep, Baltic Sea (numerical simulations)**

**Zhubas, Victor; Elken, Jüri; Väli, Germa** US/EU-Baltic International Symposium : Ocean observations, ecosystem-based management & forecasting : May 27-29, 2008, Tallinn, Estonia : book of abstracts 2008 / p. 171

**Pathways of suspended particles transport in the bottom layer of the southern Baltic Sea depending on the wind forcing (numerical simulations)**

**Zhubas, Victor; Elken, Jüri; Väli, Germa;** Kuzmina, Natalia; Paka, Vadim Oceanology 2010 / p. 841-854

**Postglacial flooding and vegetation history on the Ob River terrace, central Western Siberia based on the palaeoecological record from Lake Svetlenkoye**

**Amon, Leeli; Blaus, Ansis; Aliksaar, Tiiu; Heinsalu, Atko;** Lapshina, Elena; **Liiv, Merlin; Reitalu, Triin; Vassiljev, Jüri; Veski, Siim** The Holocene 2020 / p. 618–631 <https://doi.org/10.1177/0959683619895582> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Principle of magnetic filtration of wear particles in oils by predicting failures in machines**

Soon, Ants International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference 25-27th September 1997, Tallinn, Estonia 1997 / p. 32-33: ill

**Random walks of oriented particles on fractals**

Haber, René; Prehl, Janett; Hoffmann, Karl Heinz; **Herrmann, Heiko** Journal of physics A : mathematical and theoretical 2014 / p. 1-14 : ill <https://doi.org/10.1088/1751-8113/47/15/155001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**RANS modeling of a particulate turbulent round jet**

**Kartušinski, Aleksander;** Michaelides, Efsthios; **Rudi, Ülo;** Nathan, Graham Chemical engineering science 2010 / 11, p. 3384-3393 : ill <https://www.sciencedirect.com/science/article/pii/S0009250910001107>

**Simulation of RF noise propagation to relativistic electron beam properties in a linear accelerator**

**Maalberg, Andrei;** Kuntzsch, Michael; **Petlenkov, Eduard** IFAC-PapersOnLine 2020 / p. 348-354 <https://doi.org/10.1016/j.ifacol.2020.12.184> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Solid particle erosion : occurrence, prediction and control**

**Kleis, Ilmar; Kulu, Priit** 2008 [http://www.ester.ee/record=b2368841\\*est](http://www.ester.ee/record=b2368841*est)

**Solid particle erosion : occurrence, prognostification and control**

**Kleis, Ilmar; Kulu, Priit** 2005 [https://www.ester.ee/record=b2080005\\*est](https://www.ester.ee/record=b2080005*est)

**Solid particle erosion behavior of ceramics at high and room temperature**

**Jevgrafova, Natalja; Pappel, Toivo** Materials Engineering & Baltrib 2001 : materials of the X-th International Baltic Conference : September 27-28, Jurmala, Latvia 2001 / p. 111-114 : ill

**Solid particle erosion of thermal sprayed coatings**

**Kulu, Priit; Hussainova, Irina; Veinthal, Renno** Wear 2005 / 1/4, p. 488-496 : ill

**Some aspects of solid particle erosion of cermets**

**Hussainova, Irina** Tribology international 2001 / p. 89-93

**A study of the impact behaviour of spherical and irregular-shape particles**

**Järvpõld, Neeme; Pappel, Toivo;** Štšeglov, Igor OST-96 Symposium on Machine Design, [Stockholm], May 13-14, 1996 : proceedings 1996 / p. 23-27: ill [https://www.ester.ee/record=b1033950\\*est](https://www.ester.ee/record=b1033950*est)

**Synthesis and synergistic antibacterial efficiency of chitosan-copper oxide nanocomposites**

**Laanoja, Jüri;** Sihtmäe, Mariliis; Vihodceva, Svetlana; Iesalnieks, Mairis; Otsus, Maarja; Kurvet, Imbi; Kahru, Anne; Kasemets, Kaja Heliyon 2024 / art. e35588 <https://doi.org/10.1016/j.heliyon.2024.e35588>

**The RANS, PDF & TBL simulations of turbulent gas-solid particle flow in vertical pipe [Electronic resource]**

**Kartušinski, Aleksander;** Michaelides, Stathios E.; Zaichik, Leonid 2006 ASME Joint U.S. - European Fluids Engineering Meeting (FEDSM2006) 2006 / [15] p. [CD-ROM] [https://www.researchgate.net/publication/267496080\\_The\\_RANS\\_PDF\\_TBL\\_simulations\\_of\\_turbulent\\_gas-solid\\_particle\\_flow\\_in\\_vertical\\_pipe](https://www.researchgate.net/publication/267496080_The_RANS_PDF_TBL_simulations_of_turbulent_gas-solid_particle_flow_in_vertical_pipe)

**The resistance of ceramic materials to hard-particle erosion**

**Pappel, Toivo; Jevgrafova, Natalja** OST-99 Symposium on Machine Design : Stockholm, 30th Sept. - 1st Oct., 1999 : proceedings 1999 / p. 65-70: ill

**The solid particle erosion of ceramic materials**

**Pappel, Toivo; Pappel, Priit** OST-98 Symposium on Machine Design, Oulanka, Finland, October 1-3, 1998 : proceedings 1998 / p. 67-72: ill

**Засорение суживающихся каналов при протекании жидкости с твердыми включениями**

**Kangur, H.; Tümanok, Aleksei** XX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР : тезисы докладов. Часть 1 1974 / с. 106 [https://www.ester.ee/record=b1306141\\*est](https://www.ester.ee/record=b1306141*est)

**Исследование процесса ударных взаимодействий частиц**

**Kleis, Ilmar; Pappel, Toivo; Hussainova, Irina; Štšeglov, Igor** Трение и износ 1997 / 6, с. 730-735

**Кинематика абразивных частиц в испытательной установке ЦУК-Д**

**Pappel, Toivo** Tallinna Tehnikaülikooli Toimetised 1991 / lk. 25-29: ill

**О влиянии геометрической формы абразивного зерна при ударном изнашивании**

**Tadolder, Jüri** Износ, усталость и коррозия металлов : сборник статей. 3 1969 / с. 23-29 : илл

[https://www.ester.ee/record=b2183085\\*est](https://www.ester.ee/record=b2183085*est) <https://digikogu.taltech.ee/et/Item/28ca169d-6b4f-44b6-92fd-45d8fc81e458/>

**О движении материальной частицы в многоступенчатом роторном помольном агрегате**

**Tümanok, Aleksei** Математика и теоретическая механика : сборник статей. 8 1975 / с. 37-46 : илл

[https://www.ester.ee/record=b2190679\\*est](https://www.ester.ee/record=b2190679*est) <https://digikogu.taltech.ee/et/Item/b3290b73-29b8-411f-8db3-1bda78623e40>

**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

**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