

#### **Assesment of non-metallic inclusions in sheet metals by computer analysis**

**Peetsalu, Priidu; Saarna, Mart; Mikli, Valdek** Proceedings of the Seventh International Conference on Clean Steel, Hungary, 2007  
2007 / p. 332-341

#### **Automatic evaluation of the structure parameters of WC-Co thermal spray coating by image analysis techniques**

**Peetsalu, Priidu; Mikli, Valdek; Ratas, Kaarin; Kulu, Priit** 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATTRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 49

#### **Average residual stresses in hard Physical Vapor Deposited (PVD) coatings**

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakob; **Mikli, Valdek; Adoberg, Eron; Vagiström, Heinar; Kübarsepp, Jakob; Peetsalu, Priidu** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 20-25 : ill <https://doi.org/10.4028/www.scientific.net/KEM.799.20>  
<https://www.scientific.net/KEM.799.20> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) Conference proceeding at Scopus Article at Scopus

#### **Bainitic structure effect on hydrogen embrittlement**

**Peetsalu, Priidu; Mikli, Valdek; Ratas, Kaarin; Kulper, Eha; Jaason, Karli** Journal of the Japan Society for Heat Treatment 2009 / p. 592-595

#### **Briquetting of municipal solid waste by different technologies in order to evaluate its quality and properties**

Križan, Peter; Matuš, M.; Šooš, Lubomir; **Kers, Jaan; Peetsalu, Priidu; Kask, Ülo**; Menind, Andres Agronomy research 2011 / p. 115-123 : ill

#### **Characterization of composite thermal spray powders**

**Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit** EURO PM2005 : congress & exhibition : 2-5 October 2005, Prague, Czech Republic : proceedings. Volume 2 2005 / p. 87-91

#### **Characterization of WC-Co composite thermal spray powder and coating**

**Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit** 15th International Baltic Conference "Engineering Materials & Tribology. Baltmattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 52-53

#### **Characterization of WC-Co composite thermal spray powders and coatings**

**Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit** Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 4, p. 435-444 : ill

#### **Characterization of WC-Co thermal spray coatings based on the composite powders**

**Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit** Powder metallurgy progress : journal of science and technology of particle materials 2006 / p. 34-41 : ill

#### **Computer based steel microstructure analysis describing the size and distribution of structure phases**

**Peetsalu, Priidu; Saarna, Mart; Mikli, Valdek; Juurma, Madis** Acta metallurgica Slovaca 2007 / 1, p. 91-95

#### **Cyclic loading of TiCN coating by Vickers indentation**

**Saarna, Mart; Lind, Liina; Peetsalu, Priidu; Sergejev, Fjodor** Engineering materials and tribology XXV 2017 / p. 425-429  
<http://dx.doi.org/10.4028/www.scientific.net/KEM.721.425>

#### **Decarburisation effect on hardened strip steel fastening components**

**Jaason, Karli; Peetsalu, Priidu; Saarna, Mart; Kulu, Priit**; Beilmann, Jüri Materials science = Medžiagotyra 2016 / p. 148-152 : ill  
<http://dx.doi.org/10.5755/j01.ms.22.1.7467>

#### **Decarburization effect on hardened strip steel fastening components**

**Jaason, Karli; Peetsalu, Priidu; Saarna, Mart; Kulu, Priit**; Beilmann, Jüri TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

#### **Description of punch wear mechanism during fine blanking process**

**Lind, Liina; Peetsalu, Priidu; Põdra, Priit; Adoberg, Eron; Veinthal, Renno; Kulu, Priit** Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [II] 2010 / p. 504-509 : ill

#### **Double-cemented recycled hardmetal based powders for thermal spray**

**Mikli, Valdek; Kulu, Priit; Tarbe, Riho; Peetsalu, Priidu** Proceedings of the 4th International Conference Industrial Engineering - New Challenges to SME : 29-30 April 2004, Tallinn, Estonia 2004 / p. 211-214 : ill

#### **Durability of complex shape punch in thick sheet metal fine-blanking**

**Veinthal, Renno; Peetsalu, Priidu; Saarna, Mart**; Talkop, Adolf European Conference on Heat Treatment and 21st IFHTSE Congress : May, 12th-15th, 2014, Munich, Germany : proceedings 2014 / p. 399-406 : ill

### **Effect of mean stress on fatigue strength of duplex steels in synthetic white water environment**

**Saarna, Mart; Peetsalu, Priidu** Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 531-536 : ill

### **Evaluation of punch wear resistance during industrial test**

**Peetsalu, Priidu; Saarna, Mart; Adoberg, Eron; Kulper, Eha; Lind, Liina; Kulu, Priit** Acta metallurgica Slovaca conference 2010 / 1, p. 105-110 : ill

### **Evaluation of residual stresses in PVD coatings by means of strip substrate length variation and curvature method of plate substrate**

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakub; **Adoberg, Eron; Lind, Liina; Kurisoo, Liisa; Peetsalu, Priidu** Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 212-218 <http://dx.doi.org/10.4028/www.scientific.net/SSP.267.212>

### **Evaluation of residual stresses in PVD coatings by means of the curvature method of plate**

Lille, Harri; Ryabchikov, Alexander; **Adoberg, Eron; Kurisoo, Liisa; Peetsalu, Priidu; Lind, Liina** Engineering materials and tribology XXV 2017 / p. 404-408 <http://dx.doi.org/10.4028/www.scientific.net/KEM.721.404>

### **Evaluation of residual stresses in PVD coatings by means of tubular substrate length variation**

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakub; **Adoberg, Eron; Mikli, Valdek; Kübarsepp, Jakob; Peetsalu, Priidu** Residual Stresses 2018 ECRS-10 : 10th European Conference on Residual Stresses (ECRS10) : Leuven, Belgium, 11-14th September, 2018 2018 / p. 131-136 : ill <https://doi.org/10.21741/9781945291890-21>

### **Evolution of microstructure and properties in Ti-alloys during rapid electrocontact heating with SPD**

**Kommel, Lembit; Peetsalu, Priidu; Veinthal, Renno** Materials Engineering & Balttrib 2001 : materials of the X-th International Baltic Conference : September 27-28, Jurmala, Latvia 2001 / p. 62-66 : ill

### **Experimental spray powders and coatings produced from recycled hardmetal by various mechanical methods**

**Tarbe, Riho; Zimakov, Sergei; Peetsalu, Priidu; Kulu, Priit; Mikli, Valdek** Euro PM2006 : congress & exhibition : proceedings : PM in Belgium, a crossroads in industry development : 23-25 October 2006 : Ghent, Belgium. Vol. 1, Hard materials 2006 / p. 259-264

### **High strength steel behaviour during hot dip galvanizing**

Sepper, Sirli; **Peetsalu, Priidu; Saarna, Mart; Kirs, V.; Mikli, Valdek** Proceedings 20th IFHTSE : International Federation for Heat Treatment and Surface Engineering Congress : Beijing, China, October 23-25, 2012 2012 / p. 525-529

### **Homme hakkas õppima : [miks üliõpilased ei pea tähtaegadest kinni : õppejõu Priidu Peetsalu ja tudengi Tarmo kommentaaridega]**

**Peetsalu, Priidu; Käär, Liisa-Lotte** Studioosus 2003 / lk. 6

### **Influence of steel austenitization to part quality in continuous austempering**

**Jaason, Karli; Peetsalu, Priidu; Saarna, Mart; Kulu, Priit; Mikli, Valdek; Lind, Liina; Beilmann, Jüri** Estonian journal of engineering 2012 / p. 221-231 : ill [https://artiklid.elnet.ee/record=b2527735\\*est](https://artiklid.elnet.ee/record=b2527735*est)

### **Measurement of geometry of small axisymmetric sheet metal component after forming**

**Lend, Henri; Ratas, Kaarin; Peetsalu, Priidu** Medžiagotyra = Materials science 2015 / p. 473-478 : ill  
<http://dx.doi.org/10.5755/j01.ms.21.3.7384>

### **Mechanical and pyrometallurgical recycling of electronic wastes**

Zhang, L.; Zuo, Xiangjun; **Kers, Jaan; Goljandin, Dmitri; Peetsalu, Priidu** REWAS 2008 (Global Symposium on Recycling, Waste Treatment and Clean Technology) : Cancun, Mexico, 12-15.10.2008 2008 / p. 699-708

### **Mechanical recycling of electronic wastes for materials recovery**

**Laurmaa, Viktor; Kers, Jaan; Tall, Kaspar; Mikli, Valdek; Goljandin, Dmitri; Vilsaar, Kristiina; Peetsalu, Priidu; Saarna, Mart; Tarbe, Riho; Zhang, Lifeng** Recycling of electronic waste II : proceedings of the second symposium 2011 / p. 3-10

### **Mehaanika ja metroloogia katselabor**

**Päärsoo, Riho; Peetsalu, Priidu** Mehaanikainseneride koolitus 1998-2016 2016 / lk. 160-165 : fot  
[https://www.ester.ee/record=b4640989\\*est](https://www.ester.ee/record=b4640989*est)

### **Metal powders produced by mechanical methods**

**Kulu, Priit; Goljandin, Dmitri; Peetsalu, Priidu** PM2004 : Powder Metallurgy World Congress & Exhibition : 17-21st October 2004, Vienna, Austria : Euro PM2004 : conference proceedings. Volume 1 2004 / p. 157-162 : ill

### **Metal powders produced by mechanical methods**

**Kulu, Priit; Goljandin, Dmitri; Peetsalu, Priidu** Abstracts of 6th Powder Metallurgy World Congress & Exhibition : 17-21 October, 2004, Vienna, Austria 2004 / p. 58

**Metallic powders produced by the disintegrator technology**

**Zimakov, Sergei; Goljandin, Dmitri; Peetsalu, Priidu; Kulu, Priit** International journal of materials & product technology 2007 / 3/4, p. 226-251 : ill

**Metallographic investigation of iron blooms and bars from the smithy site of Käku, Estonia**

Saage, Ragnar; Peets, Jüri; **Kulu, Priit; Peetsalu, Priidu; Viljus, Mart** Fennoscandia archaeologica 2018 / p. 46–58 : ill  
<https://www.tiedekirja.fi/default/fennoscandia-archaeologica-xxiv.html>

**Methods for evaluating the appearance of hot dip galvanized coatings**

**Sepper, Sirli; Peetsalu, Priidu; Saarna, Mart** Agronomy research 2011 / P. 229-236 : ill <https://agronomy.emu.ee/wp-content/uploads/2011/12/p09s128.pdf>

**Micropowders produced by disintegrator milling**

**Peetsalu, Priidu; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Käerdi, Helmo** Powder metallurgy progress 2003 / 2, p. 99-110 : ill

**Micropowders produced by disintegrator milling**

**Peetsalu, Priidu; Zimakov, Sergei; Goljandin, Dmitri; Kulu, Priit; Mikli, Valdek; Käerdi, Helmo** Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 32-33

**Microstructural aspects of thermal sprayed WC-Co coatings and Ni-Cr coated steels = WC-Co termopinnete ja Ni-Cr pinnatud teraste metallograafilised aspektid**

**Peetsalu, Priidu** 2007 [https://www.ester.ee/record=b2315917\\*est](https://www.ester.ee/record=b2315917*est)

**Microstructured cermet powders for HVOF spraying**

**Zimakov, Sergei; Kulu, Priit; Goljandin, Dmitri; Peetsalu, Priidu** Proceedings of Jurmala International Conference Welding and Powder Metallurgy : April 28-29, Jurmala, Latvia 2005 / ? p. [CD-ROM]

**Microstructured cermet powders for HVOF spraying**

**Zimakov, Sergei; Kulu, Priit; Goljandin, Dmitri; Peetsalu, Priidu** 4th International Conference Welding & Powder Metallurgy : MET-2005 : reports and thesis 2006 / p. 185-191 : ill

**Nanopowders and nanostructured coatings**

**Kulu, Priit; Zimakov, Sergei; Podgurski, Vitali; Peetsalu, Priidu; Tarbe, Riho** Nanopowders, Nanostructured Materials and Coatings : Network for Nanostructured Materials of ACC : March 17, 2005, Tallinn, Estonia : book of abstracts 2005 / p. 8

**Novel thermal spray powders for corrosion and wear resistant coatings**

**Kulu, Priit; Zimakov, Sergei; Goljandin, Dmitri; Peetsalu, Priidu** Abstracts of International Conference Materials Engineering and Tribology 2002 / p. 40

**Novel thermal spray powders for corrosion and wear resistant coatings**

**Kulu, Priit; Zimakov, Sergei; Goljandin, Dmitri; Peetsalu, Priidu** Medžiagotyra = Materials science 2002 / 4, p. 413-416 : ill

**Novel thermally sprayed corrosion and wear resistant coatings**

**Kulu, Priit; Zimakov, Sergei; Goljandin, Dmitri; Peetsalu, Priidu** Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 169-172 : ill

**On determination of residual stresses in some PVD coatings by the curvature method**

Lille, Harri; Ryabchikov, Alexander; **Lind, Liina; Sergejev, Fjodor; Adoberg, Eron; Peetsalu, Priidu** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 378-382 : ill

**Particle size and proportion influence to impact properties of particulate polymer composite**

**Aruniit, Aare; Kers, Jaan; Krumme, Andres; Peetsalu, Priidu** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 325-330 : ill

**Pre- and posttreatment effect to the surface properties of thin hard coatings**

**Adoberg, Eron; Surženkov, Andrei; Podgurski, Vitali; Peetsalu, Priidu; Kulu, Priit** Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 44

**Predictive tools for the isothermal hardening of strip steel parts in molten salt**

**Jaason, Karli; Peetsalu, Priidu; Saarna, Mart; Beilmann, Jüri** Proceedings of the Estonian Academy of Sciences 2016 / p. 152-158 : ill [https://artiklid.elnet.ee/record=b2768223\\*est](https://artiklid.elnet.ee/record=b2768223*est)

**Preliminary investigation into mechanical properties of clay reinforced with natural fibres**

**Peetsalu, Priidu**; Resev, Jüri; Ruus, Aime; Menind, Andres; **Kers, Jaan; Sepper, Sirli**; Olt, Jüri Agronomy research 2010 / S1, p. 201-207 : ill

**Preliminary investigation into tensile characteristics of long flax fibre reinforced composite material**

**Kers, Jaan; Peetsalu, Priidu; Saarna, Mart; Viikna, Anti; Krumme, Andres**; Menind, Andres Agronomy research 2010 / S1, p. 107-114 : ill

**Punch lifetime in fine-blanking with optimum combination of mechanical properties**

**Veinthal, Renno; Peetsalu, Priidu; Saarna, Mart; Sergejev, Fjodor** European Conference on Heat Treatment and 22nd IFHTSE Congress : Heat Treatment and Surface Engineering from tradition to innovation : Venice (Italy), 20-22 May 2015 2015 / [7] p

**Quality assurance in mechanical testing laboratory by participating in proficiency test**

**Päärsoo, Riho; Veinthal, Renno; Peetsalu, Priidu; Saarna, Mart** Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 242-244 : ill

**Recycled hardmetal-based powders for thermal spray**

**Mikli, Valdek; Kulu, Priit; Tarbe, Riho; Peetsalu, Priidu; Zimakov, Sergei** Proceedings of Estonian Academy of Sciences. Engineering 2004 / 4, p. 315-325 : ill

**Residual stresses on various PVD hard coatings on tube and plate substrates**

Lille, Harri; Ryabchikov, Alexander; **Peetsalu, Priidu; Lind, Liina; Sergejev, Fjodor; Mikli, Valdek; Kübarsepp, Jakob** Coatings 2020 / art. 1054, 11 p <https://doi.org/10.3390/coatings10111054> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Selection of parameters in adhesive bonding of composite structures**

**Kers, Jaan; Saarna, Mart; Peetsalu, Priidu; Aruniit, Aare; Majak, Jüri; Pohlak, Meelis; Herranen, Henrik** 20th International Baltic Conference Materials Engineering 2011, October 27-28, Kaunas, Lithuania : book of abstracts 2011 / p. 53

**Steel selection considerations for hot-dip galvanizing = Teras valiku mõjurid kuumtsinkimiseks**

**Sepper, Sirli** 2017 <https://digi.lib.ttu.ee/i/?9227>

**Steels, hardmetals and hardfacings for abrasive wear applications**

**Kulu, Priit; Tarbe, Riho; Saarna, Mart; Surženkov, Andrei; Peetsalu, Priidu; Viljus, Mart** European Conference on Heat Treatment and 21st IFHTSE Congress : May, 12th-15th, 2014, Munich, Germany : proceedings 2014 / p. 449-456 : ill

**Surface fatigue and wear of PVD coated punches during fine blanking operation**

**Sergejev, Fjodor; Peetsalu, Priidu; Sivitski, Alina; Saarna, Mart; Adoberg, Eron** Engineering failure analysis 2011 / p. 1689-1697 : ill

**Technology and characterization of composite thermal spray powders**

**Peetsalu, Priidu; Zimakov, Sergei; Pirso, Jüri; Mikli, Valdek; Tarbe, Riho; Kulu, Priit** Materials science = Medžiagotyra 2005 / 4, p. 385-389 : ill

**The effect of substrate microstructure on morphology of zinc coatings**

**Sepper, Sirli; Peetsalu, Priidu; Mikli, Valdek; Saarna, Mart** Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 717-722 : ill

**The effect of surface pre-treatment and coating post-treatment to the properties of TiN coatings**

**Adoberg, Eron; Podgurski, Vitali; Peetsalu, Priidu; Lind, Liina; Mikli, Valdek; Hvizdoš, Pavol; Kulu, Priit** Estonian journal of engineering 2012 / p. 185-192 : ill [https://kirj.ee/public/Engineering/2012/issue\\_3/Eng-2012-3-185-192.pdf](https://kirj.ee/public/Engineering/2012/issue_3/Eng-2012-3-185-192.pdf)

**The influence of binder phase status on the wear resistance of boron carbide cermet by friction**

**Kommel, Lembit**; Kimmari, Eduard; **Peetsalu, Priidu** Materials Engineering & Balttrib 2001 : materials of the X-th International Baltic Conference : September 27-28, Jurmala, Latvia 2001 / p. 202-206 : ill

**The role of silicon in the hot dip galvanizing process**

**Sepper, Sirli; Peetsalu, Priidu; Kulu, Priit; Saarna, Mart; Mikli, Valdek** Proceedings of the Estonian Academy of Sciences 2016 / p. 159-165 : ill

**Thermal spray coatings from WC-Co powders produced by mechanically activated synthesis [Electronic resource]**

**Zimakov, Sergei; Peetsalu, Priidu; Pirso, Jüri; Kulu, Priit; Mikli, Valdek** Thermal spray 2006 : building on 100 years of success : proceedings of the 2006 International Thermal Spray Conference : May 15-18, 2006, Seattle, Washington, USA 2006 / p. 1387-1392 [CD-ROM]

**Wear of different PVD coatings at industrial fine-blanking field tests**

**Lind, Liina; Peetsalu, Priidu; Sergejev, Fjodor** Medžiagotyra = Materials science 2015 / p. 343-348 : ill  
<http://dx.doi.org/10.5755/j01.ms.21.3.7249>

**Wear of PVD coatings on fineblanking punches = PVD pinnete kulumine siselõikestantsi templitel**

**Lind, Liina** 2014 [https://www.ester.ee/record=b4422007\\*est](https://www.ester.ee/record=b4422007*est)

**Wear resistance and selection of steels, hardmetals and hardfacings for abrasive wear conditions**

**Kulu, Priit; Tarbe, Riho; Saarna, Mart; Surženkov, Andrei; Peetsalu, Priidu; Talviste, Kristofer** International journal of microstructure and materials properties 2015 / p. 101-113 <http://dx.doi.org/10.1504/IJMMP.2015.068718>