

Application of the continuous indentation test method for the characterization of mechanical properties of B4C/Al composites

Kimmel, Eduard; Kommel, Lembit Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 4, p. 399-407 : ill

Boron carbide based composites manufacturing and recycling features

Kommel, Lembit; Kimmari, Eduard Materials science = Medžiagotyra 2006 / 1, p. 48-52 : ill

Dependence of the friction coefficient on roughness parameters during early stage fretting of (Al,Ti)N coated surfaces

Podgurski, Vitali; Adoberg, Eron; Surženkov, Andrei; Kimmari, Eduard; Viljus, Mart; Mikli, Valdek; Hartelt, M.; Wäsche, R.; Šima, M.; Kulu, Prit Wear 2011 / p. 853-858 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0043164811001815>

Design of superhard c-BC2N-precipitates in B4C/Al-composites through SHS and heat treatment

Kommel, Lembit; Metsvahi, Rainer; Viljus, Mart; Kimmari, Eduard; Kolju, Karl; Traksmäa, Rainer Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2012 / p. 645-650 : ill

Dry sliding friction of cubic boron nitride based composite synthesized by SHS [Electronic resource]

Kimmari, Eduard; Kommel, Lembit Proceedings of 12th Nordic Symposium in Tribology : NORDTRIB 2006 : Helsingor, Denmark, 7-9 June 2006 2006 / [CD-ROM]

Effect of attrition milling on grain size and properties of composites

Kommel, Lembit; Kimmari, Eduard; Traksmäa, Rainer Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 25

Exothermically synthesized B4C-Al composites for dry sliding = Eksotermiliselt sünteesitud B4C-Al komposiidid tööks liugehõõrdumise tingimustes

Kimmari, Eduard 2008 https://www.ester.ee/record=b2413238*est

Formation of the nanomeasures refractory compounds in the B4C based composites and their influence on wear resistance

Kommel, Lembit; Kimmari, Eduard Abstracts of the 12th Joint Nordic Conference on Powder Technology : Tampere, Finland, 2003 2003 / p. 40

Friction and wear changes of boron carbide cermet depending on the structure

Kommel, Lembit; Kimmari, Eduard Abstracts of International Conference Materials Engineering and Tribology 2002 / p. 35

Friction and wear changes of boron carbide cermets depending on the structure

Kommel, Lembit; Kimmari, Eduard Materials science = Medžiagotyra 2003 / 1, p. 51-53 : ill

Influence of binder composition and microhardness on wear properties of light weight composites

Kommel, Lembit; Traksmäa, Rainer; Kimmari, Eduard Powder metallurgy progress 2003 / 3, p. 140-145 : ill
https://www.researchgate.net/publication/269035885_Influence_of_binder_composition_and_microhardness_on_wear_properties_of_light_weight_composites

Investigations of structure and tribological properties of the lightweight c-BN-based composites

Kommel, Lembit; Kimmari, Eduard Materials science = Medžiagotyra 2005 / 4, p. 394-397 : ill

Mechanical and structural characterization of multiphase B4C/Al composites synthesized by SHS

Kimmari, Eduard; Kommel, Lembit 15th International Baltic Conference "Engineering Materials & Tribology. Baltmattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 33-34

Micromechanical properties and electrical conductivity of Cu and Cu-0.7wt% Cr alloy

Kommel, Lembit; Pardis, N.; Kimmari, Eduard Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 354-359 : ill

Microstructure and mechanical characterization of WC-based composites doped by zirconia

Hussainova, Irina; Kimmari, Eduard; Kollo, Lauri; Jasiuk, Iwona Proceedings of 16th International Conference on Mechanics of Composite Materials : MCM 2010 : May 24-28, Riga, Latvia 2010

Multiphase forming in lightweight composites during SHS reaction

Kommel, Lembit; Kimmari, Eduard 17th International Baltic Conference : Materials Engineering 2008 : November 6-7, Kaunas, Lithuania : abstracts of papers 2008 / p. 19-20 <https://www.matsc.ktu.lt/index.php/MatSc/article/view/26220>

Multiphase forming in lightweight composites during SHS reaction

Kommel, Lembit; Kimmari, Eduard Materials science 2008 / p. 242-246 : ill <https://www.matsc.ktu.lt/index.php/MatSc/article/view/26220>

Multiphase microstructure forming purpose in lightweight composites

Kommel, Lembit; Kimmari, Eduard Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 479-484 : ill
https://www.academia.edu/60674244/Multiphase_Microstructure_Forming_Purpose_in_Lightweight_Composites

Phases micromechanical properties of Ni-base superalloy measured by nanoindentation

Kommel, Lembit; Kimmari, Eduard; Viljus, Mart; Traksmas, Rainer; Volobujeva, Olga; Kommel, Igor Materials science = Medžiagotyra 2012 / p. 28-33 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/1337>

Phases properties of SC superalloy measured by nanoindentation

Kommel, Lembit; Kimmari, Eduard; Viljus, Mart Materials engineering & Baltrib 2010 : materials of the XIX-th International Baltic Conference : October 28-29, 2010, Riga, Latvia 2010 / p. 22

Preparation of multiphase lightweight c-BN-based composite

Juhani, Kristjan; Kimmari, Eduard; Kommel, Lembit International Powder Metallurgy Congress & Exhibition : EURO PM2008 : 29th September - 1st October 2008, Mannheim, Germany : proceedings. Vol.1 2008 / p. 231-236 : ill
https://www.researchgate.net/publication/286152881_Preparation_of_multiphase_lightweight_c-BN-based_composite

Processing and microstructural characterization of WC based cermets doped by ZrO₂

Kimmari, Eduard; Hussainova, Irina; Smirnov, Anton; Traksmas, Rainer; Preis, Irina 18th International Baltic Conference : Engineering Materials & Tribology : BALTMATRIB-2009 : October 22-23, 2009, Tallinn, Estonia : abstracts 2009 / p. 24

Processing and microstructural characterization of WC-based cermets doped by ZrO₂

Kimmari, Eduard; Hussainova, Irina; Smirnov, Anton; Traksmas, Rainer; Preis, Irina Estonian journal of engineering 2009 / 4, p. 275-282 : ill

Processing and properties of bulk ultrafine-grained pure niobium

Kommel, Lembit; Kimmari, Eduard; Saarna, Mart; Viljus, Mart Journal of materials science 2013 / p. 4723-4729 : ill
<https://doi.org/10.1007/s10853-013-7210-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Recycling of light weight B₄C based composites

Kommel, Lembit; Kimmari, Eduard Proceedings of the 4th International Conference Industrial Engineering - New Challenges to SME : 29-30 April 2004, Tallinn, Estonia 2004 / p. 199-202 : ill

Residual stresses in TiC-based cermets measured by indentation

Sergejev, Fjodor; Kimmari, Eduard; Viljus, Mart Proceedia engineering 2011 / p. 2873-2881 : ill
<https://www.sciencedirect.com/science/article/pii/S1877705811006655>

Rippling on wear scar surfaces of nanocrystalline diamond films after reciprocating sliding against ceramic balls

Podgurski, Vitali; Hantschel, Thomas; Bogatov, Andrei; Kimmari, Eduard; Antonov, Maksim; Viljus, Mart; Mikli, Valdek; Raadik, Taavi; Kulu, Priit Tribology letters 2014 / p. 493-501 : ill <https://doi.org/10.1007/s11249-014-0379-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solid phase's transformations in boron carbide based composites during heat treatment

Kommel, Lembit; Kimmari, Eduard Solid state phenomena 2008 / p. 175-180

Structure and properties of boron nitride based composite produced by SHS method

Kommel, Lembit; Kübarsepp, Jakob; Hussainova, Irina; Kimmari, Eduard Fifth International Conference on Composite Science and Technology : ICCST/5 : 1-3 February 2005, Sharjah, United Arab Emirates : proceedings 2005 / p. 461-466 : ill

The formation of structure and change of properties during heat treatment of boron carbide cermets

Kommel, Lembit; Veinthal, Renno; Kimmari, Eduard Abstracts of International Conference Materials Engineering and Tribology 2002 / p. 56

The formation of structure and change of properties during heat treatment of boron carbide composites

Kommel, Lembit; Veinthal, Renno; Kimmari, Eduard Materials science = Medžiagotyra 2003 / 1, p. 99-101 : ill

The formation of wear resistant properties of boron carbide cermet

Kommel, Lembit; Kimmari, Eduard Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 165-168 : ill

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

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

The influence of refractory composition in binder phase on wear properties of boron carbide aluminium composites

Kommel, Lembit; Traksmaa, Rainer; Kimmari, Eduard Abstracts of 10th Nordic Symposium on Tribology NORDTRIB 2002 / p. 97

The influence of refractory composition in binder phase on wear properties of boron carbide aluminium composites [Electronic resource]

Kommel, Lembit; Traksmaa, Rainer; Kimmari, Eduard Proceedings of 10th Nordic Symposium on Tribology NORDTRIB 2002 / Ref. 18 [CD-ROM]

The structure and properties forming in boron carbide aluminium composites during processing

Kommel, Lembit; Hussainova, Irina; Kimmari, Eduard Proceedings of World Congress on Powder Metallurgy and Particulate Materials, USA. Vol. 6 2002 / p. 182-187

Thermally induced cracking in aluminum/boron carbide composite

Kimmari, Eduard; Kommel, Lembit Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 467-472 : ill

https://www.researchgate.net/publication/268056237_Thermally_induced_cracking_in_aluminumboron_carbide_composite

Tribological behavior of carbon nanofibers deposited on hard nanocomposite (nc-Ti1-xAlxN)/(a-Si3N4) coating

Kimmari, Eduard; Podgurski, Vitali; Simunin, M.; **Adoberg, Eron; Surženkov, Andrei; Viljus, Mart;** Hartelt, M.; Wäsche, R.; **Sildos, Ilmo; Kulu, Priit** Surface & coatings technology 2013 / p. 21-25 : ill <https://doi.org/10.1016/j.surfcoat.2013.03.011>

<https://www.sciencedirect.com/science/article/pii/S0257897213002636?via%3Dihub> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Wear and friction in boron carbide cermet-steel sliding system

Kommel, Lembit; Hussainova, Irina; Kimmari, Eduard Abstracts of papers from 2nd World Tribology Congress 2001 / p. 93

Wear and friction in boron carbide cermet-steel sliding system [Electronic resource]

Kommel, Lembit; Hussainova, Irina; Kimmari, Eduard WTC 2001 : 2nd World Tribology Congress : Vienna, Austria, 03-07 September 2001 2001 / [4] p.: ill. [CD-ROM]

Wear resistance behavior of light-weight composites

Kommel, Lembit; Kimmari, Eduard Abstracts of the XVI-th International Baltic Conference "Engineering Materials & Baltmattrib" : 2007, October 25-26, Riga, Latvia 2007 / p. 22

Verification of new 1000 [degree] C tester designed for investigation of wear-corrosion properties of advanced materials for high temperature applications

Antonov, Maksim; Hussainova, Irina; Kimmari, Eduard; Juhani, Kristjan Proceedings of the 6th International Conference of DAAAM Baltic "Industrial Engineering" : 24-26th April 2008, Tallinn, Estonia. [2] 2008 / p. 395-399 : ill

<http://innomet.ttu.ee/daaam08/online/Materials%20Engineering/Antonov.pdf>