

### **Effect of sintering method on surface fatigue of carbide composites**

**Petrov, Mihhail; Kübarsepp, Jakob; Sergejev, Fjodor; Viljus, Mart; Tarraste, Marek** Engineering materials and tribology XXV 2017 / p. 368-372 : ill <https://doi.org/10.4028/www.scientific.net/KEM.721.368> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Erosion wear of reactive sintered WC-TiC-Co cermets**

**Tarraste, Marek; Juhani, Kristjan; Pirso, Jüri; Viljus, Mart** Engineering materials & tribology XXII 2014 / p. 63-66  
<https://doi.org/10.4028/www.scientific.net/KEM.604.63> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

### **Microstructure formation and performance of reactive sintered titanium oxycarbide base ceramic-ceramic composites**

**Juhani, Kristjan; Kübarsepp, Jakob; Tarraste, Marek; Pirso, Jüri; Viljus, Mart** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 131-135 : ill <https://www.scientific.net/KEM.799.131> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est)  
<https://doi.org/10.4028/www.scientific.net/KEM.799.131> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **Phase evolution, microstructure characteristics and properties of Cr<sub>3</sub>C<sub>2</sub>-Ni cermets prepared by reactive sintering**

**Juhani, Kristjan; Pirso, Jüri; Letunoviš, Sergei; Viljus, Mart** International journal of materials & product technology 2011 / p. 75-91 : ill

### **Reactive sintering of bimodal WC-Co hardmetals**

**Tarraste, Marek; Juhani, Kristjan; Pirso, Jüri; Viljus, Mart** Medžiagotyra = Materials science 2015 / p. 382-385 : ill  
<https://doi.org/10.5755/j01.ms.21.3.7511> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Recycling of WC-Co hardmetals by oxidation and carbothermal reduction in combination with reactive sintering**

**Joost, Renee; Pirso, Jüri; Viljus, Mart; Letunoviš, Sergei; Juhani, Kristjan** Estonian journal of engineering 2012 / p. 127-139 : ill

### **Sintering of zirconium carbide-based composites**

**Yung, Der-Liang; Voltšihhin, Nikolai; Hussainova, Irina; Kollo, Lauri; Traksmaa, Rainer** Proceedings of EuroPM2012 – Hardmetals : Cermets and Ceramics 2012 / p. 83-88 : ill  
[https://www.researchgate.net/publication/250254543\\_Sintering\\_of\\_zirconium\\_carbide-based\\_composites](https://www.researchgate.net/publication/250254543_Sintering_of_zirconium_carbide-based_composites)

### **Structure formation in Ti-C-Ni-Mo composites during reactive sintering**

**Viljus, Mart; Pirso, Jüri; Juhani, Kristjan; Letunoviš, Sergei** Materials science = Medžiagotyra 2012 / p. 62-65 : ill

### **The effect of VC, TiC and Cr<sub>3</sub>C<sub>2</sub> on the microstructure and properties of WC-15Co hardmetals fabricated by the reactive sintering**

**Pirso, Jüri; Juhani, Kristjan; Tarraste, Marek; Viljus, Mart; Letunoviš, Sergei** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 383-388 : ill

### **The effect of VC, TiC and Cr<sub>3</sub>C<sub>2</sub> on the microstructure and properties of WC-15CO hardmetals fabricated by the reactive sintering**

**Pirso, Jüri; Juhani, Kristjan; Tarraste, Marek; Viljus, Mart; Letunoviš, Sergei** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 383-388 : ill

### **The formation of reactive sintered (Ti, Mo)C-Ni cermet from nanocrystalline powders**

**Jõelet, Marek; Pirso, Jüri; Juhani, Kristjan; Viljus, Mart; Traksmaa, Rainer** International journal of refractory metals and hard materials 2014 / p. 284-290 : ill <https://doi.org/10.1016/j.ijrmhm.2013.12.016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The influence of Cr<sub>3</sub>C<sub>2</sub> and VC as alloying additives on the microstructure and properties of reactive sintered WC-Co cermets**

**Juhani, Kristjan; Pirso, Jüri; Viljus, Mart; Letunoviš, Sergei; Tarraste, Marek** Materials science = Medžiagotyra 2012 / p. 79-83 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/1347>

### **The influence of high energy milling and sintering parameters on reactive sintered (Ti, Mo)C-Ni cermets**

**Jõelet, Marek; Pirso, Jüri; Juhani, Kristjan; Viljus, Mart; Traksmaa, Rainer** Journal of alloys and compounds 2015 / p. 381-386 : ill <https://doi.org/10.1016/j.jallcom.2015.02.071> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The influence of sintering temperature of reactive sintered (Ti, Mo)C-Ni cermets**

**Jõelet, Marek; Pirso, Jüri; Juhani, Kristjan; Viljus, Mart** Medžiagotyra = Materials science 2015 / p. 435-438 : ill  
<https://doi.org/10.5755/j01.ms.21.3.7179> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Three-body abrasive wear of reactive sintered WC-Co hardmetals with grain growth inhibitors**

**Juhani, Kristjan; Pirso, Jüri; Tarraste, Marek; Viljus, Mart; Suurkivi, Taavi** Engineering materials & tribology XXII 2014 / p. 277-282 <https://doi.org/10.4028/www.scientific.net/KEM.604.277> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference](#)

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**Three-body abrasive wear of WC-Co composites manufactured by reactive sintering of nanocrystalline powders**  
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**Juhani, Kristjan; Joost, Renee; Pirso, Jüri; Letunovič, Sergei; Viljus, Mart; Tarraste, Marek** 5th World Tribology Congress, WTC 2013 : [proceedings]. Vol. 3 2014 / p. 2084-2087. [CD-ROM]

**Toward high temperature tough ceramics**

**Hussainova, Irina; Yung, Der-Liang; Voltšihhin, Nikolai; Traksmaa, Rainer; Hannula, Simo-Pekka** ECCM15 - 15th European Conference on Composite Materials : Venice, Italy, 24-28 June 2012 2012 / [8] p <http://www.escm.eu/eccm15/data/assets/178.pdf>

**Ultrafine cemented carbides with cobalt and iron binders prepared via reactive in situ sintering**

**Tarraste, Marek; Kübarsepp, Jakob; Mere, Arvo; Juhani, Kristjan; Kolnes, Märt; Viljus, Mart** Solid state phenomena ; 320 2021 / p. 176-180 <https://doi.org/10.4028/www.scientific.net/SSP.320.176> [Conference Proceedings at Scopus](#) [Article at Scopus](#)