

**Chemical pre-treatment of mechanically milled recycled hardmetal powders**  
Zikin, Arkadi; Yung, Der-Liang; **Hussainova, Irina**; Ilo, S. Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 777-782 : ill

**Chemical pre-treatment of recycled hardmetal powders for plasma transferred arc hardfacing**  
Yung, Der-Liang TTÜ üliõpilaste teadustööde konkursi kokkuvõtted : Tipika teaduskonverents, 24. november 2011, Tallinn 2011 / p. 15

**Combined sol-gel and carbothermal synthesis of ZrC-TiC powders for composites**  
Umalas, Madis; **Hussainova, Irina**; Reed, Valter; Yung, Der-Liang Materials chemistry and physics 2015 / p. 301-306 : ill  
<https://doi.org/10.1016/j.matchemphys.2015.01.017> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Comparing tungsten carbide based composites reinforced by alumina nanofibers or zirconia**  
Yung, Der-Liang; Dong, Minjie; **Hussainova, Irina** Proceedings of the PM13 International Conference on Powder Metallurgy and Particulate Materials 2013 / p. 24-35 : ill

**Composition and structure of bimodal WC-Co materials related to mechanical properties and abrasive wear**  
Yung, Der-Liang; Antonov, Maksim; **Hussainova, Irina**; Veinthal, Renno; Hogmark, Sture M2D2015 : proceedings of the 6th International Conference on Mechanics and Materials in Design, 2015 2015 / p. 655-664

**Deposition and characterization of refractory cermet particle reinforced Ni-based PTA hardfacings**  
Zikin, Arkadi; Yung, Der-Liang; **Hussainova, Irina**; Danninger, Herbert; Pirso, Jüri; Gavrilović-Wohlmuther, A. Proceedings of the 18th PLANSEE Seminar, 2013 2013

**Effect of erodent particle impact energy on wear of cemented carbides**  
Antonov, Maksim; Yung, Der-Liang; Goljandin, Dmitri; Mikli, Valdek; **Hussainova, Irina** Wear 2017 / p. 507-515 : ill  
<https://doi.org/10.1016/j.wear.2016.11.032> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of grain growth inhibitors VC/Cr<sub>3</sub>C<sub>2</sub> on WC-ZrO<sub>2</sub>-Ni composite mechanics**  
Yung, Der-Liang; Dong, Minjie; **Hussainova, Irina** Engineering materials & tribology XXII 2014 / p. 106-109  
<https://doi.org/10.4028/www.scientific.net/KEM.604.106> Conference proceedings at Scopus Article at Scopus Conference proceedings at WOS Article at WOS

**Effect of temperature on sliding and erosive wear of fiber reinforced polyimide hybrids**  
Zhao, Gai; **Hussainova, Irina**; Antonov, Maksim; Wang, Qihua; Wang, Tingmei; Yung, Der-Liang Tribology international 2015 / p. 525-533 : ill <https://doi.org/10.1016/j.triboint.2014.01.019> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Influence of different reinforcing particles on the scratch resistance and microstructure of different WC–Ni composites**  
Marou Alzouma, O.; Azman, M.-A.; Yung, Der-Liang; Fridrici, V.; Kapsa, Ph. Wear 2016 / p. 130-135 : ill  
<https://doi.org/10.1016/j.wear.2016.02.011> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Laboratory testing of materials for tunnel boring machine drag bits**  
Katušin, Dmitri; Antonov, Maksim; Vu, Trieu Minh; Yung, Der-Liang 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 300-303 : ill

**Mapping of impact-abrasive wear performance of WC-Co cemented carbides**  
Antonov, Maksim; Veinthal, Renno; Yung, Der-Liang; Katušin, Dmitri; **Hussainova, Irina** Wear 2015 / p. 971-978 : ill  
<https://doi.org/10.1016/j.wear.2015.02.031> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Mechanically activated synthesis of ZrC nanopowders to produce composites with TiC and Mo additives**  
Yung, Der-Liang; Kollo, Lauri; **Hussainova, Irina**; Zikin, Arkadi ECOTRIB 2011 : 3rd European Conference on Tribology and 4th Vienna International Conference on Nano-Technology : June 7-9, 2011, Vienna, Austria. 2 2011 / p. 793-796

**Mechanically activated synthesized zirconium carbide substrate to make ZrC-Mo cermets**  
Yung, Der-Liang; Kollo, Lauri; **Hussainova, Irina**; Zikin, Arkadi Proceedings of EURO PM 2011 Congress & Exhibition : October 9-12, 2011, Barcelona, Spain 2011 / [6] p. : ill  
[https://www.researchgate.net/publication/250242216\\_Mechanically\\_activated\\_synthetized\\_zirconium\\_carbide\\_substrate\\_to\\_make\\_ZrC-Mo\\_cermets](https://www.researchgate.net/publication/250242216_Mechanically_activated_synthetized_zirconium_carbide_substrate_to_make_ZrC-Mo_cermets)

**NeTTUN project : how to increase the lifetime of TBM drag bits?**  
Fridrici, V.; Antonov, Maksim; Katušin, Dmitri; Yung, Der-Liang; Veinthal, Renno; **Hussainova, Irina** 2nd Eastern European Tunnelling Conference "Tunneling in a Challenging Environment", Making tunneling business in difficult times : EETC 2014, Athens, Greece, 28 September - 1 October 2014 2014

## **Oxidation of spark plasma sintered ZrC-Mo and ZrC-TiC composites**

Yung, Der-Liang; **Maaten, Birgit; Antonov, Maksim; Hussainova, Irina** International journal of refractory metals and hard materials 2017 / p. 244-251 : ill <https://doi.org/10.1016/j.ijrmhm.2017.03.019> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

## **Processing of ZrC-TiC composites by SPS**

Yung, Der-Liang; **Hussainova, Irina**; Rodriguez, Miguel Angel; **Traksmaa, Rainer** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATTRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 94-99 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.94> Conference Proceedings at Scopus Article at Scopus

## **Reactive sintering of zirconium carbide based systems**

Yung, Der-Liang; **Kollo, Lauri; Hussainova, Irina**; Zikin, Arkadi Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 783-788 : ill

## **Reactive sintering of ZrC-TiC composites**

Yung, Der-Liang; **Kollo, Lauri; Hussainova, Irina; Zikin, Arkadi** Engineering materials and tribology 2013 / p. 20-25 [https://www.researchgate.net/publication/234110368\\_Reactive\\_Sintering\\_of\\_ZrC-TiC\\_Composites](https://www.researchgate.net/publication/234110368_Reactive_Sintering_of_ZrC-TiC_Composites)

## **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)

## **Spark plasma sintered ZrC-Mo cermets : influence of temperature and compaction pressure**

Yung, Der-Liang; **Antonov, Maksim; Hussainova, Irina** Ceramics international 2016 / p. 12907-12913 : ill

<https://doi.org/10.1016/j.ceramint.2016.05.059> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

## **ZrC-based and ZrC-doped composites for high-temperature and wear applications = ZrC baasil ja ZrC-ga legeeritud komposiitmaterjalid rakendusteks kõrgtemperatuursetes ja kulumistingimustes**

Yung, Der-Liang 2016 [http://www.estet.ee/record=b4621174\\*est](http://www.estet.ee/record=b4621174*est)

## **The science of sinter-HIP : when to turn on the gas**

Yung, Der-Liang; Tarraste, Marek; **Hussainova, Irina** TÜ ja TTÜ doktorikool "Funktionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

## **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.org/eccm15/data/assets/178.pdf>

## **Tribological performances of ZrC-Ni and TiC-Ni cermet reinforced PTA hardfacings at elevated temperatures**

Yung, Der-Liang; **Zikin, Arkadi; Hussainova, Irina**; Danninger, Herbert; Badisch, Ewald; Gavrilovic, A. Surface and coatings technology 2017 / p. 497-505 : ill <https://doi.org/10.1016/j.surfcoat.2016.11.099> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

## **Ultra high-pressure spark plasma sintered ZrC-Mo and ZrC-TiC composites**

Yung, Der-Liang; Cygan, Slawomir; **Antonov, Maksim**; Jaworska, Lucyna; **Hussainova, Irina** International journal of refractory metals and hard materials 2016 / p. 201-206 : ill <https://doi.org/10.1016/j.ijrmhm.2016.09.014> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

## **Wear behaviour of doped WC–Ni based hardmetals tested by four methods**

Yung, Der-Liang; **Antonov, Maksim; Veinthal, Renno; Hussainova, Irina** Wear 2016 / p. 171-179 : ill

<https://doi.org/10.1016/j.wear.2016.02.015> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

## **Vilistlane Der-Liang Yung : TTÜs olemine töi välja parima osa minut**

Yung, Der-Liang Mente et Manu 2019 / lk. 62-63 : fot [http://www.estet.ee/record=b1242496\\*est](http://www.estet.ee/record=b1242496*est) [https://www.ttu.ee/public/m/mente-et-manu/MM\\_01\\_2019/mobile/index.html](https://www.ttu.ee/public/m/mente-et-manu/MM_01_2019/mobile/index.html)