

**Comparison of values of residual stresses determined by various methods in hard nickel coatings prepared by brush-plating in sulfate solution**

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakub; Reitsnik, Renno; **Veinthal, Renno; Mikli, Valdek; Sergejev, Fjodor** Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2012 / p. 680-687 : ill

**Deformation mechanism studies by varying height to diameter ratio of Al-Mg and Al-Mg-C metal matrix composites**

Sharma, Shubham; **Singh, Neera**; Kumar, Devendra; Gupta, Sumit; Chaudhary, Vijay; Gupta, Niraj; Gupta, Pallav Journal of Advanced Manufacturing Systems 2023 / p. 603-618 <https://doi.org/10.1142/S0219686723500270> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Dependence of wear of Cu-Cr-S alloy on hardness and electrical conductivity in sliding electrical contact**

**Kommel, Lembit; Baroninš, Janis** Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 229-233 : ill  
<https://doi.org/10.4028/www.scientific.net/SSP.267.229> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Design of superhard c-BC<sub>2</sub>N-precipitates in B<sub>4</sub>C/Al-composites through SHS and heat treatment**

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

**Effect of ceramic reinforcement on the microstructural, mechanical and tribological behavior of Al-Cu alloy metal matrix composite**

Aktar Zahid Sohag, Md; Gupta, Pallav; Kondal, Neha; Kumar, Devendra; **Singh, Neera**; Jamwal, Anbesh Materials today: proceedings 2020 / p. 1407-1411 <https://doi.org/10.1016/j.matpr.2019.08.179> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [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 new superhard phases formation on properties of composite processed by SHS**

**Kommel, Lembit; Tamm, Toomas; Metsvahi, Raido** Engineering materials and tribology 2013 / p. 137-142

**Effect of thermal shock treatment parameters on the efficiency of WC-Co cermet recycling**

**Kariminejad, Arash; Antonov, Maksim**; Kumar, Rahul, 1993-; **Goljandin, Dmitri; Klimczyk, Piotr; Viljus, Mart** AIP conference proceedings 2024 / art. 040013 <https://doi.org/10.1063/5.0189330> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Evolution of microstructure and hardness in aluminum processed by high pressure torsion extrusion**

**Omranpour Shahreza, Babak**; Ivanisenko, Yulia; Kulagin, Roman; **Kommel, Lembit**; Sanchez, E. Garcia; Nugmanov, Dayan; Scherer, Torsten; Heczal, Anita; Gubicza, Jenő Materials Science and Engineering : A 2019 / art. 138074, 10 p. : ill  
<https://doi.org/10.1016/j.msea.2019.138074> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Friction welding of electron beam melted Ti-6Al-4V**

Qin, P.T.; Damodaram, R.; Maity, Tapabrata; Zhang, W.W.; Yang, C.; Wang, Zhi; **Prashanth, Konda Gokuldoss** Materials Science and Engineering : A 2019 / art. 138045, 6 p. : ill <https://doi.org/10.1016/j.msea.2019.138045> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Gradient microstructure in tantalum formed under the wear track during dry sliding friction**

**Kommel, Lembit; Põdra, Priit; Mikli, Valdek; Omranpour Shahreza, Babak** Wear 2021 / art. 203573, 7 p. : ill  
<https://doi.org/10.1016/j.wear.2020.203573> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Heat treatment and laser shock peening of AlSi10Mg alloy produced by selective laser melting : microstructure, hardness and residual stress analysis**

Babalou, Reza; Azarbarmas, Morteza; **Prashanth, Konda Gokuldoss** Materials today communications 2025 / art. 112408  
<https://doi.org/10.1016/j.mtcomm.2025.112408>

**High strength Ti-6Al-4V alloy fabricated by high-energy cube milling using calcium as process control agent (PCA) and spark plasma sintering**

Babu, N. Kishore; **Kallip, Kaspar**; Leparoux, Marc; AlOgab, Khaled A.; Talari, Mahesh Kumar; Alqathani, N. M. The international journal of advanced manufacturing technology 2017 / p. 445-453 : ill <https://doi.org/10.1007/s00170-017-9994-9>

**Influence of microstructure and strengthening mechanism of AlMg5-Al<sub>2</sub>O<sub>3</sub> nanocomposites prepared via spark plasma sintering**

Babu, N. Kishore; **Kallip, Kaspar**; Leparoux, Marc Materials & design 2016 / p. 534-544 : ill  
<http://dx.doi.org/10.1016/j.matdes.2016.01.138>

**Microstructural, mechanical and corrosion behaviour of Al–Si alloy reinforced with SiC metal matrix composite**

Bandil, Kapil; Vashisth, Himanshu; Kumar, Sourav; **Singh, Neera** Journal of composite materials 2019 / p. 4215-4223 : ill <https://doi.org/10.1177/0021998319856679> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Mo(Si1-x,Alx)2-based composite by reactive laser powder-bed fusion**

**Minasyan, Tatevik; Aydinyan, Sofiya; Liu, Le; Volobujeva, Olga;** Toyserkani, Ehsan; **Hussainova, Irina** Materials letters 2020 / art. 128776, 5 p. : ill <https://doi.org/10.1016/j.matlet.2020.128776> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Multi-scale characterization and modeling of chromium carbide based cermets**

Jasiuk, Iwona; **Hussainova, Irina;** Hamed, Elham Characterization of Metal Matrix Composites : Materials Science and Technology 2009 : conference and exhibition : October 25-29, 2009, Pittsburgh, Pennsylvania, USA. Vol. 3 2009 / p. 1775-1784

**Nanostructure development in refractory metals : ECAP processing of Niobium and Tantalum using indirect-extrusion technique**

**Omranpour Shahreza, Babak; Kommel, Lembit; Mikli, Valdek;** Garcia, Edgar; Huot, Jacques International journal of refractory metals and hard materials 2019 / p. 1-9 : ill <https://doi.org/10.1016/j.jrmhm.2018.10.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Parametric study on in situ Laser powder bed fusion of Mo(Si1-x,Alx)2**

**Minasyan, Tatevik; Aydinyan, Sofiya;** Toyserkani, Ehsan; **Hussainova, Irina** Materials 2020 / art. 4849, 17 p. : ill <https://doi.org/10.3390/ma13214849> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Production technology elaboration and characterization of Al-MWCNT, Al-fullerenes and Al-B4C composites**

**Kommel, Lembit; Metsvahi, Rainer;** Mihhalsenkov, M. Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 651-656 : ill

**Selective laser melting of Inconel 718 : effect of thermal treatment on mechanical properties**

**Mohanty, Shalini; Maurya, Himanshu Singh; Prashanth, Konda Gokuldoss** Materials today: proceedings 2023 / 5 p. : ill <https://doi.org/10.1016/j.matpr.2023.03.164> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Selective laser melting of TiB2-Ti composite with high content of ceramic phase**

**Liu, Le; Minasyan, Tatevik; Ivanov, Roman; Aydinyan, Sofiya; Hussainova, Irina** Ceramics international 2020 / p. 21128-21135 <https://doi.org/10.1016/j.ceramint.2020.05.189> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Sintering of silicon carbide obtained by combustion synthesis**

Amirkhanyan, Narine; Kirakosyan, Hasmik; Zakaryan, Marieta; Zurnachyan, Alina; Rodriguez, Miguel Angel; Abovyan, L.; **Aydinyan, Sofiya** Ceramics international 2023 / p. 26129-26134 <https://doi.org/10.1016/j.ceramint.2023.04.233> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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

**Superhard B4C-ReB2 composite by SPS of microwave synthesized nanopowders**

Mnatsakanyan, R.; Davtyan, D.; **Minasyan, Tatevik; Aydinyan, Sofiya; Hussainova, Irina** Materials letters 2021 / art. 129163, 5 p. : ill <https://doi.org/10.1016/j.matlet.2020.129163> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Synthesis of superhard lightweight composites and improvement of their properties via chemical processing**

**Kommel, Lembit; Tamm, Toomas; Metsvahi, Raido;** Nokkur, Kadri Frontiers in materials processing, applications, research and technology : select proceedings of FiMPART 2015 2018 / p. 53-61 : ill [https://doi.org/10.1007/978-981-10-4819-7\\_6](https://doi.org/10.1007/978-981-10-4819-7_6) [http://www.estee.ee/record=b4762647\\*est](http://www.estee.ee/record=b4762647*est)

**The effect of microstructure evolution on the wear behavior of tantalum processed by Indirect Extrusion Angular Pressing**

**Omranpour Shahreza, Babak;** Huot, Jacques; **Antonov, Maksim; Kommel, Lembit; Sergejev, Fjodor;** Perez Trujillo, Francisco Javier; Heczal, Anita; Gubicza, Jeno International journal of refractory metals and hard materials 2023 / art. 106079, 11 p. : ill <https://doi.org/10.1016/j.jrmhm.2022.106079> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Vacuum hot pressing of oxide dispersion strengthened ferritic stainless steels : effect of Al addition on the microstructure and properties**

Ganesan, Dharmalingam; Sellamuthu, Prabhukumar; **Prashanth, Konda Gokuldoss** Journal of Manufacturing and Materials Processing 2020 / art. 93 <https://doi.org/10.3390/jmmp4030093> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

