

### **Bioactive ceramic scaffolds for bone tissue engineering by powder bed selective laser processing : a review**

Kamboj, Nikhil Kumar; Ressler, Antonia; Hussainova, Irina Materials 2021 / art. 5338 <https://doi.org/10.3390/ma14185338> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Combined sol-gel and carbothermal synthesis of ZrC-TiC powders for composites**

Umalas, Madis; Hussainova, Irina; Reedo, 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](#)

### **Critical radius of zirconia inclusions in transformation toughening of ceramics**

Filippov, Roman; Freidin, Alexander; Hussainova, Irina; Vilchevskaya, Elena Physical mesomechanics 2015 / p. 33-42 : ill <https://doi.org/10.1134/S1029959915010051> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effect of fly-ash cenospheres on properties of clay-ceramic syntactic foams**

Rugele, Kristine; Lehmus, Dirk; Hussainova, Irina; Peculevica, Julite; Lisnanskis, Marks; Shishkin, Andrei Materials 2017 / art. 828, p. 1-17 : ill <https://doi.org/10.3390/ma10070828> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The effect of niobium on the microstructure evolution of ferritic stainless steel matrix cermets**

Kolnes, Märt; Juhani, Kristjan; Kübarsepp, Jakob; Viljus, Mart Modern materials and manufacturing 2023 2024 / art. 040011 <https://doi.org/10.1063/5.0190158> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Effect of solid lubricants on wear of PVD-coated spark plasma-sintered TiB<sub>2</sub>/Ti composites**

Luszcz, Maciej; Michalczewski, Remigiusz; Kalbarczyk, Marek; Osuch-Slomka, Edyta; Liu, Le; Antonov, Maksim; Hussainova, Irina Modern materials and manufacturing 2023 2024 / art. 040010 <https://doi.org/10.1063/5.0190460> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Fracture toughness of ceramics fired at different temperatures**

Sin, Peter; Veinthal, Renno; Sergejev, Fjodor; Antonov, Maksim; Stubna, Igor Materials science = Medžiagotyra 2012 / p. 90-92 : ill [https://www.researchgate.net/publication/268257498\\_Fracture\\_Toughness\\_of\\_Ceramics\\_Fired\\_at\\_Different\\_Temperatures](https://www.researchgate.net/publication/268257498_Fracture_Toughness_of_Ceramics_Fired_at_Different_Temperatures)

### **From scrap to product : the effect of recycled tungsten carbide and alumina content on the mechanical properties of oxide-carbide duplex ceramic composite**

Kariminejad, Arash; Klimczyk, Piotr; Antonov, Maksim; Hussainova, Irina Proceedings of the Estonian Academy of Sciences 2025 / p. 192-197 <https://doi.org/10.3176/proc.2025.2.20>

### **Hybrid graphene-ceramic nanofibre network for spontaneous neural differentiation of stem cells**

Kazantseva, Jekaterina; Hussainova, Irina; Ivanov, Roman; Neumann, Toomas; Gasik, Michael Interface focus 2018 / 6 p. : ill <https://doi.org/10.1098/rsfs.2017.0037> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigation of elastic and inelastic properties of Estonian clay from a locality in Kunda during thermal treatment**

Hulan, Tomaš; Kaljuvee, Tiit; Štubna, Igor; Trnik, Anton Journal of thermal analysis and calorimetry 2016 / p. 1153-1159 : ill <https://doi.org/10.1007/s10973-016-5280-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Layered structure of alumina/graphene-augmented-inorganic-nanofibers with directional electrical conductivity**

Saffarshamshirgar, Ali; Rojas Hernandez, Rocio Estefania; Mikli, Valdek; Karppinen, Maarit; Hussainova, Irina Carbon 2020 / p. 634-645 <https://doi.org/10.1016/j.carbon.2020.06.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A review on development of bio-inspired implants using 3D printing**

Raheem, Ansheed A.; Hameed, Pearl; Prashanth, Konda Gokuldoss; Manivasagam, Geetha Biomimetics 2021 / art. 65 <https://doi.org/10.3390/biomimetics6040065> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Solid particle erosion of refractories : A critical discussion of two test standards**

Varga, Markus; Antonov, Maksim; Tumma, Mike Wear 2019 / p. 552-561 : ill <https://doi.org/10.1016/j.wear.2018.12.062> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Study of thermooxidation of oil shale samples and basics of processes for utilization of oil shale ashes**

Kaljuvee, Tiit; Uibu, Mai; Yörük, Can Rüstü; Einard, Marve; Trikket, Andres; Kuusik, Rein, keemik; Trass, Olev; Štubna, Igor; Hulan, Tomaš; Loide, Valli; Jefimova, Jekaterina Minerals 2021 / at. 193 <https://doi.org/10.3390/min11020193> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The Formation of microcracks in water-saturated porous ceramics during freeze-thaw cycles followed by acoustic emission**

Hulan, Tomaš; Knappek, Michal; Kaljuvee, Tiit; Uibu, Mai Journal of nondestructive evaluation 2021 / art. 13 <https://doi.org/10.1007/s10921-020-00748-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Thermal behavior of ceramic bodies based on Estonian clay from the Arumetsa deposit with oil shale ash and clinker dust additives**

**Kaljuvee, Tiit; Uibu, Mai; Einard, Marve; Traksmäa, Rainer; Viljus, Mart; Jefimova, Jekaterina; Triikkel, Andres** Processes 2022 / art. 46 <https://doi.org/10.3390/pr10010046> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Критический радиус включений диоксида циркония в эффекте трансформационного упрочнения керамик**

**Filippov, Roman; Freidin, Alexander; Hussainova, Irina; Vilchevskaya, Elena** Физическая мезомеханика 2014 / с. 55-64 : ил