

### **AC magnetic loss reduction of SLM processed Fe-Si for additive manufacturing of electrical machines**

**Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Tarraste, Marek; Vaimann, Toomas; Rassõlkin, Anton; Asad, Bilal; Ghahfarokhi, Payam Shams** *Energies* 2021 / 13 p. : ill <https://doi.org/10.3390/en14051241> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Axial synchronous magnetic coupling modeling and printing with selective laser melting**

**Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton;** Belahcen, Anouar 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982344>

### **Challenges of additive manufacturing of electrical machines**

**Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Rassõlkin, Anton; Vaimann, Toomas** 2019 IEEE 12th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED), 27-30 Aug. 2019, Toulouse, France : proceedings 2019 / p. 44-48 : ill <https://doi.org/10.1109/DEMPED.2019.8864850>

### **Comparison of additively manufacturing samples fabricated from pre-alloyed and mechanically mixed powders**

Zhao, Chao; Wang, Zhi; Li, Daoxi; Xie, Meishen; **Kollo, Lauri;** Luo, Zongqiang; Zhang, Weiwen; **Prashanth, Konda Gokuldoss** *Journal of alloys and compounds* 2020 / art. 154603, 5 p. : ill <https://doi.org/10.1016/j.jallcom.2020.154603> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Competition between densification and microstructure of functional materials by Selective Laser Melting**

**Singh, Neera; Ummethala, Raghunandan;** Hameed, Pearlin; Sokkalingam, Rathinavelu; **Prashanth, Konda Gokuldoss** *Material design & processing communications* 2020 / art. e146, 7 p. : ill <https://doi.org/10.1002/mdp2.146> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at Scopus](#)

### **Cu-Ni-Sn alloy fabricated by melt spinning and selective laser melting: a comparative study on the microstructure and formation kinetics**

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### **Deformation behavior of metallic lattice structures with symmetrical gradients of porosity manufactured by metal additive manufacturing**

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### **Development of Cu-based shape memory alloy through selective laser melting from elemental powder mixture: Processing and characterization**

Singh, Shalini; Palani, I. A.; Dehghi, Shirin; Qureshi, A. J.; Jinoop, A. N.; Paul, C. P.; **Prashanth, Konda Gokuldoss** *Journal of alloys and compounds* 2023 / art. 171029 <https://doi.org/10.1016/j.jallcom.2023.171029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effect of nanoparticles on morphology and size of primary silicon and property of selective laser melted Al-high Si content alloys**

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### **Effect of process parameters on the properties of $\beta$ -Ti-Nb-based alloys fabricated by selective laser melting: A review**

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### **Effect of selective laser melting process parameters on microstructural and mechanical properties of TiC–NiCr cermet**

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### **Effect of unit cell rotation on mechanical performance of selective laser melted Gyroid structures for bone tissue engineering**

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### **Electrochemical analysis of friction welded 17-4 PH stainless steel components manufactured by selective laser melting**

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### **Grain refinement in laser manufactured Al-based composites with TiB<sub>2</sub> ceramic**

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### **Hysteresis measurements and numerical losses segregation of additively manufactured silicon steel for 3D printing electrical machines**

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### **Influence of powder characteristics on processability of AlSi12 alloy fabricated by selective laser melting**

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### **Interfacial structure and wear properties of selective laser melted Ti/(TiC+TiN) composites with high content of reinforcements**

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### **Investigation of the tribological behavior of the additively manufactured TiC-based cermets by scratch testing**

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### **Lightweight 3D printed Ti6Al4V-AlSi10Mg hybrid composite for impact resistance and armor piercing shielding**

**Rahmani Ahranjani, Ramin; Antonov, Maksim;** Brojan, Miha Journal of materials research and technology 2020 / p. 13842-13854 : ill <https://doi.org/10.1016/j.jmrt.2020.09.108> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Linear patterning of high entropy alloy by additive manufacturing**

**Karimi, Javad;** Ma, P.; Ji, Y.D.; **Prashanth, Konda Gokuldoss** Manufacturing letters 2020 / p. 9-13 : ill <https://doi.org/10.1016/j.mfglet.2020.03.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Manufacturing of silicon – Bioactive glass scaffolds by selective laser melting for bone tissue engineering**

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### **Microstructure and mechanical properties of Al–(12-20)Si bi-material fabricated by selective laser melting**

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### **Microstructure and texture evolution during the manufacturing of in situ TiC-NiCr cermet through selective laser melting process**

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### **Microstructure, mechanical properties, and corrosion behavior of 06Cr15Ni4CuMo processed by using selective laser melting**

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### **Parametric optimization of selective laser melted 13Ni400 maraging steel by Taguchi method**

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### **Perspectives of metal-diamond composites additive manufacturing using SLM-SPS and other techniques for increased wear-impact resistance**

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**Revealing the impact of Hot Isostatic Pressing temperature on the microstructure and mechanical characteristics of Selective Laser Melted CuAlNiMn shape memory alloy**

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**Selective laser melting of high-strength, low-modulus Ti–35Nb–7Zr–5Ta alloy**

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

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**Selective laser melting of TiB<sub>2</sub>-Ti composite with high content of ceramic phase**

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**Spark plasma sintering of 13Ni-400 maraging steel: Enhancement of mechanical properties through surface modification**

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**The impact resistance of highly densified metal alloys manufactured from gas-atomized pre-alloyed powders**

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**Thermal expansion behavior of Al–xSi alloys fabricated using selective laser melting**

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**Wear behavior of selective laser melted 06Cr15Ni4CuMo steel**

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