

### **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; Shams Ghahfarokhi, Payam** 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](#)

### **Additive manufacturing of cryogenic chemically complex alloys with sponge bone-like reticular nanoscale superstructure**

**Xie, Kaiqiang; Ma, Pan; Fang, Yacheng; Yang, Hong; Wan, Shiguang; Wu, Zhibin; Shi, Jinqiang; Prashanth, Konda Gokuldoss; Gargarella, Piter; Zhang, Lunyong** Composites Part B : Engineering 2025 / art. 112786 <https://doi.org/10.1016/j.compositesb.2025.112786>

### **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**

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

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

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### **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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**Evaluation of fatigue crack growth rates and fracture toughness in a selective laser-melted Ti-5.6Al-3.8V alloy with optimized microstructure after heat treatment**  
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**Hysteresis measurements and numerical losses segregation of additively manufactured silicon steel for 3D printing electrical machines**  
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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-AlSi<sub>10</sub>Mg hybrid composite for impact resistance and armor piercing shielding**  
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**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, mechanical properties, and corrosion behavior of 06Cr15Ni4CuMo processed by using selective laser melting**  
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### **Obtaining strength-ductility combination in a laser additive manufactured (FeCoNi)<sub>86</sub>Al<sub>7</sub>Ti<sub>7</sub> high-entropy alloy at cryogenic temperature**

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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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