

#### **Additive manufacturing of CMCs with bimodal microstructure**

**Maurya, Himanshu Singh;** Vikram, R. J.; Kosiba, Konrad; **Juhani, Kristjan; Sergejev, Fjodor;** Suwas, Satyam; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 168416, 5 p. : ill <https://doi.org/10.1016/j.jallcom.2022.168416>

#### **Additive manufacturing of TiC-based cermets : a detailed comparison with spark plasma sintered samples**

**Maurya, Himanshu Singh;** Jayaraj, Jayamani; Vikram, Raja Jothi; **Juhani, Kristjan; Sergejev, Fjodor; Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 170436 <https://doi.org/10.1016/j.jallcom.2023.170436>

#### **AlCo-rich AlCoNiFe and AlCoNiFeCr high entropy alloys: Synthesis and interaction pathway at high heating rates**

Nazaretyan, K.; **Aydingyan, Sofiya;** Kirakosyan, H.; Moskovskikh, D.; Nepapushev, A.; Kuskov, K.; Tumanyan, M.; Zargaryan, A.; **Traksmas, Rainer; Kharatyan, S.** Journal of alloys and compounds 2023 / art. 167589, 13 p <https://doi.org/10.1016/j.jallcom.2022.167589>

#### **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](#)

#### **Control of texture and microstructure in additive manufacturing of stainless steel 316L**

Kumar, Deepak; Shankar, Gyan; **Prashanth, Konda Gokuldoss;** Suwas, Satyam Journal of alloys and compounds / art. 173040 <https://doi.org/10.1016/j.jallcom.2023.173040>

#### **Corrigendum to “The influence of high energy milling and sintering parameters on reactive sintered (Ti, Mo)C–Ni cermets” [J. Alloys Compd. 636 (2015) 381–386] (S0925838815005009) (10.1016/j.jallcom.2015.02.071))**

**Jöeleht, Marek; Pirso, Jüri; Juhani, Kristjan; Viljus, Mart; Traksmas, Rainer** Journal of alloys and compounds 2018 / p. 128 <https://doi.org/10.1016/j.jallcom.2018.05.128> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Densification of the eggshell powder by spark plasma sintering**

Shukla, Riddhi; Sokkalingam, Rathinavelu; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 171079 <https://doi.org/10.1016/j.jallcom.2023.171079>

#### **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>

#### **Effect of heat treatment on the phase transformation and magnetic properties of BPSCCO/LPMO composites**

Staneva, Anna; Blagoev, Blagoy; **Mikli, Valdek** Journal of alloys and compounds 2014 / p. 223-228 : ill

#### **Effect of NiCoFeAlTi high entropy intermetallic reinforcement particle size on the microstructure and mechanical properties of CoCrFeMnNi high-entropy alloy composites fabricated by selective laser melting**

Zhang, Zhiyu; Ma, Pan; Fang, Yacheng; Yang, Zhilu; Zhang, Nan; **Prashanth, Konda Gokuldoss;** Jia, Yandong Journal of alloys and compounds 2023 / art. 169417 <https://doi.org/10.1016/j.jallcom.2023.169417>

#### **Effect of scanning strategy on microstructure and texture evolution in a selective laser melted Al-33Cu eutectic alloy**

Vikram, R. J.; Gokulnath, S. A.; **Prashanth, Konda Gokuldoss;** Suwas, Satyam Journal of alloys and compounds 2023 / art. 168098, 10 p. : ill <https://doi.org/10.1016/j.jallcom.2022.168098>

#### **Effect of TiB<sub>2</sub> addition on the mechanical and biological response of spark plasma sintered Ti6Al7Nb matrix composites**

**Singh, Neera;** Ummethala, Raghunandan; Surreddi, Kumar Babu; Jayaraj, Jayamani; **Sokkalingam, Rathinavelu;** Rajput, Monika; Chatterjee, Kaushik; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2022 / art. 166502 <https://doi.org/10.1016/j.jallcom.2022.166502> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of TiB<sub>2</sub> particles on microstructure and crystallographic texture of Al-12Si fabricated by selective laser melting**

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#### **Electron beam melting of (FeCoNi)<sub>86</sub>Al<sub>7</sub>Ti<sub>7</sub> high-entropy alloy**

Peng, Cong; Jia, Yandong; Liang, Jian; Xu, Long; Wang, Gang; Mu, Yongkun; Sun, Kang; Ma, Pan; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 170752 <https://doi.org/10.1016/j.jallcom.2023.170752>

#### **Face centered cubic titanium in high pressure torsion processed carbon nanotubes reinforced titanium composites**

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### **Formation of fine Mg<sub>2</sub>Si phase in Mg–Si alloy via solid-state sintering using high energy ball milling**

Seth, Prem Prakash; **Singh, Neera**; Singh, Manoj; Prakash, Om; Kumar, Devendra Journal of alloys and compounds 2020 / art. 153205, 10 p. : ill <https://doi.org/10.1016/j.jallcom.2019.153205> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Hardness of multi wall carbon nanotubes reinforced aluminium matrix**

Bradbury, Christopher R.; **Gomon, Jaana-Kateriina**; Kollo, Lauri; Kwon, Hansang; Leparoux, Marc Journal of alloys and compounds 2014 / p. 362-367 : ill

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

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### **Investigation of different carbon nanotube reinforcements for fabricating bulk AlMg5 matrix nanocomposites**

**Kallip, Kaspar**; Leparoux, Marc; AlOgab, Khaled A. Journal of alloys and compounds 2015 / p. 710-718 : ill <http://dx.doi.org/10.1016/j.jallcom.2015.06.169>

### **Investigation of planetary milling for nano-silicon carbide reinforced aluminium metal matrix composites**

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

**Maurya, Himanshu Singh**; Jayaraj, Jayamani; Wang, Z.; **Juhani, Kristjan**; **Sergejev, Fjodor**; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2023 / art. 170496, 9 p. : ill <https://doi.org/10.1016/j.jallcom.2023.170496>

### **Laser powder-bed fusion of Mo(Si,Al)<sub>2</sub> – based composite for elevated temperature applications**

**Minasyan, Tatevik**; **Ivanov, Roman**; Toyserkani, Ehsan; **Hussainova, Irina** Journal of alloys and compounds 2021 / art. 161034 <https://doi.org/10.1016/j.jallcom.2021.161034> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Microstructure and mechanical properties of near net shaped aluminium/alumina nanocomposites fabricated by powder metallurgy**

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### **Microstructure and mechanical property of bimodal-size metallic glass particle-reinforced Al alloy matrix composites**

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### **Microstructure evolution and tensile property of high entropy alloy particle reinforced 316 L stainless steel matrix composites fabricated by laser powder bed fusion**

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### **Microstructure formation and mechanical performance of micro-nanoscale ceramic reinforced aluminum matrix composites manufactured by laser powder bed fusion**

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### **Modification of the optoelectronic properties of Cu<sub>2</sub>CdSnS<sub>4</sub> through low-temperature annealing**

**Pilvet, Maris**; **Kauk-Kuusik, Marit**; **Grossberg, Maarja**; **Raadik, Taavi**; **Mikli, Valdek**; **Traksmäa, Rainer**; **Raudoja, Jaan**; **Timmo, Kristi**; **Krustok, Jüri** Journal of alloys and compounds 2017 / p. 820-825 : ill <https://doi.org/10.1016/j.jallcom.2017.06.307>

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### **Novel welding of Al<sub>0.5</sub>CoCrFeNi high-entropy alloy: corrosion behavior**

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Leontie, Liviu; Evtodiev, Igor; **Spalatu, Nicolae** Journal of alloys and compounds 2014 / p. 542-545 : ill

#### **Origin of photoluminescence from antimony selenide**

**Grossberg, Maarja; Volobujeva, Olga; Penežko, Aleksei; Kaupmees, Reelika; Raadik, Taavi; Krustok, Jüri** Journal of alloys and compounds 2020 / art. 152716, 5 p. : ill <https://doi.org/10.1016/j.jallcom.2019.152716> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Role of laser remelting and heat treatment in mechanical and tribological properties of selective laser melted Ti6Al4V alloy**

**Karimi, Javad; Antonov, Maksim; Kollo, Lauri; Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2022 / art. 163207 <https://doi.org/10.1016/j.jallcom.2021.163207> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Routes to develop a $S/([S]+[Se])$ gradient in wide band-gap $Cu_2ZnGe(S,Se)_4$ thin-film solar cells**

Ruiz-Perona, Andrea; Gurieva, Galina; Sun, Michael; Kodalle, Tim; Sanchez, Yudania; **Grossberg, Maarja**; Merino, Jose Manuel; Schorr, Susan; Leon, Maximo; Caballero, Raquel Journal of alloys and compounds 2021 / art. 159253, 9 p. : ill <https://doi.org/10.1016/j.jallcom.2021.159253> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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#### **Spark plasma sintering of Ti6Al4V metal matrix composites: Microstructure, mechanical and corrosion properties**

**Singh, Neera**; Ummethala, Raghunandan; Karamched, Phani S.; Sokkalingam, Rathinavelu; Gopal, Vasanth; Manivasagam, G.; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2021 / art. 158875, 10 p. : ill <https://doi.org/10.1016/j.jallcom.2021.158875> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Spinel to disorder rock-salt structural transition on (111) nickel ferrite thin films tailored by Ni content**

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#### **The influence of high energy milling and sintering parameters on reactive sintered (Ti, Mo)C-Ni cermets**

**Jõelet, Marek; Pirso, Jüri; Juhani, Kristjan; Viljus, Mart; Traksmäa, Rainer** Journal of alloys and compounds 2015 / p. 381-386 : ill <http://dx.doi.org/10.1016/j.jallcom.2015.02.071>

#### **Wetting and interfacial behaviour in the TiB<sub>2</sub>-NiCrBSiC system**

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