Mxolisi Shongwe

List of Publications by Year
in descending order

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56	667	686830 13	642321 23
papers	citations	h-index	g-index

56	56	56	485
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microstructure, tribological and oxidation behaviour of spark plasma sintered Ti-Ni-xTiCN composites. Journal of Alloys and Compounds, 2022, 890, 161857.	2.8	12
2	Effect of silica concentration on degree of sintering of chromite-silica ladle well filler sand based on South African raw materials. Journal of the Southern African Institute of Mining and Metallurgy, 2022, 122, 1-13.	0.1	1
3	The effect of Cr additions and oxidation on densification, microstructure, phase constituents and mechanical properties of TiAlCr alloys produced by SPS. Materials Today: Proceedings, 2021, 38, 621-627.	0.9	2
4	Spark plasma sintering behavior of Ti-3Al-1Mo alloy. Materials Today: Proceedings, 2021, 38, 1121-1125.	0.9	2
5	Influence of ball milling parameters on the dispersion characteristics and structural integrity of MWCNTs in nickel aluminide matrix powders. Particulate Science and Technology, 2021, 39, 298-311.	1.1	5
6	Investigation of Corrosion Response of Spark Plasma Sintered Ni-9Fe-22Cr-10Co Superalloy in Sulphuric Acid Environment. Journal of Bio- and Tribo-Corrosion, 2021, 7, 1.	1.2	1
7	Preliminary Assessment of Spark Plasma Sintered Nickel-Based Quaternary Superalloy. Metallography, Microstructure, and Analysis, 2021, 10, 64-73.	0.5	1
8	Synthesis and characterization of TiN nanoceramic reinforced Tiâ€“7Alâ€“1Mo composite produced by spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 807, 140904.	2.6	13
9	Spark plasma sintering of titanium matrix compositeâ€”a review. International Journal of Advanced Manufacturing Technology, 2021, 117, 2529-2544.	1.5	14
10	Wet ball milling of niobium by using ethanol, determination of the crystallite size and microstructures. Scientific Reports, 2021, 11, 22422.	1.6	6
11	Influence of nanocrystalline nickel powder on oxidation resistance of spark plasma sintered Ni-17Cr6.5Co1.2Mo6Al4W7.6Ta alloy. Journal of King Saud University, Engineering Sciences, 2020, 32, 198-204.	1.2	11
12	Effect of nickel addition on densification, microstructure and wear behaviour of spark plasma sintered CP-titanium. Materials Chemistry and Physics, 2020, 240, 122130.	2.0	25
13	The influence of heating rate on the microstructural evolutions and mechanical properties of spark plasma sintered multi-walled carbon nanotubes reinforced NiAl intermetallic matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 773, 138869.	2.6	5
14	Improving mechanical and thermal properties of graphiteâ€“aluminium composite using Si, SiC and eggshell particles. Journal of Composite Materials, 2020, 54, 2365-2376.	1.2	10
15	Spark plasma sintering of Tiâ€“Niâ€“TiCN composites: Microstructural characterization, densification and mechanical properties. Journal of Alloys and Compounds, 2020, 848, 156559.	2.8	11
16	Effect of sintering temperatures on the properties of in-situ copper-niobium-titanium di-boride composites. SN Applied Sciences, 2020, 2, 1.	1.5	0
17	Sintering behavior and alloying elements effects on the properties of CP-Titanium sintered using pulsed electric current. Materials Chemistry and Physics, 2020, 256, 123707.	2.0	8
18	Microstructure, Hardness, and Wear Assessment of Spark-Plasma-Sintered Ti-xAl-1Mo Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4033-4044.	1.1	6

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19	Effect of Nanocrystalline Nickel Powder and Co, Mo, Ta, and Al Additions on Isothermal Oxidation Behavior of Niâ€“17Cr Alloy. Metallography, Microstructure, and Analysis, 2020, 9, 75-85.	0.5	4
20	Carbon nanotube-reinforced intermetallic matrix composites: processing challenges, consolidation, and mechanical properties. International Journal of Advanced Manufacturing Technology, 2019, 104, 3803-3820.	1.5	7
21	Interdependence of carbon nanotubes agglomerations, its structural integrity and the mechanical properties of reinforced nickel aluminide composites. Journal of Alloys and Compounds, 2019, 803, 514-526.	2.8	8
22	Spark Plasma Sintering Consolidation of Equi-Atomic TiAlMoSiW High Entropy Alloy. Procedia Manufacturing, 2019, 35, 968-973.	1.9	2
23	Synthesis, Optimization and Characterization of Silicon Carbide (SiC) from Rice Husk. Procedia Manufacturing, 2019, 35, 962-967.	1.9	19
24	Mechanical properties and phase evolutions in heat-treated cast Alâ€“Niâ€“Cu2O metal matrix composites. Materials Research Express, 2019, 6, 0865i8.	0.8	1
25	Synthesis, microstructural and phase evolution in Tiâ€“2Ni and Tiâ€“10Ni binary alloys consolidated by spark plasma sintering technique. International Journal of Advanced Manufacturing Technology, 2019, 104, 1041-1049.	1.5	18
26	Spark plasma sintering of Ti-48Al intermetallic using elemental powder. International Journal of Advanced Manufacturing Technology, 2019, 103, 3025-3032.	1.5	9
27	The effect of silicon carbide on the mechanical and thermal behavior of spark plasma sintered silicon nitride ceramics with Al2O3 and Y203 additives. Materials Research Express, 2019, 6, 055019.	0.8	0
28	A study of nanocrystalline nickel powders developed via high-energy ball milling. International Journal of Advanced Manufacturing Technology, 2019, 102, 3657-3665.	1.5	11
29	Wear and corrosion studies of graphiteâ€aluminum composite reinforced with micro/nanoâ€TiB₂ via spark plasma sintering. Materialwissenschaft Und Werkstofftechnik, 2019, 50, 126-139.	0.5	4
30	Fabrication And Effect Of Milling Time On Spark Plasma Sintered Ti6Al4V/Gr Composite. Materials Today: Proceedings, 2019, 18, 3693-3701.	0.9	0
31	Densification, microstructure and mechanical properties of spark plasma sintered Ni-17%Cr binary alloys. International Journal of Advanced Manufacturing Technology, 2019, 101, 1573-1581.	1.5	14
32	Effect of Sintering Temperature and Yttrium Composition on the Densification, Microstructure and Mechanical Properties of Spark Plasma Sintered Silicon Nitride Ceramics with Al2O3 and Y2O3 Additives. Silicon, 2019, 11, 2689-2699.	1.8	16
33	Microstructural evolution and mechanical properties of pure titanium powders processed by spark plasma sintering. Powder Technology, 2019, 345, 415-424.	2.1	13
34	Densification and structural transformation during spark plasma sintering of WC-Co-YSZ-cBN systems. International Journal of Refractory Metals and Hard Materials, 2018, 72, 341-348.	1.7	18
35	Sintering behavior and effect of ternary additions on the microstructure and mechanical properties of Niâ€“Fe-based alloy. Particulate Science and Technology, 2018, 36, 643-654.	1.1	8
36	Optimization of process parameters for spark plasma sintering of nano structured SAF 2205 composite. Journal of Materials Research and Technology, 2018, 7, 126-134.	2.6	37

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37	Effects of ternary metal additions on corrosion of spark plasma sintered Ni-Fe alloys in H2SO4 and NaCl. Bulletin of the Chemical Society of Ethiopia, 2018, 32, 337.	0.5	3
38	Dependence of Fracture Patterns in Spark Plasma Sintered Irregular Shaped Ti6Al4V Powders on Densification. Procedia Manufacturing, 2017, 7, 567-572.	1.9	4
39	Particle Variations and Effect on the Microstructure and Microhardness of Ti6al4V Hybrid Metal Matrix System. Procedia Manufacturing, 2017, 7, 616-621.	1.9	2
40	Influence of Temperature on Microstructure and Mechanical Properties of Ni-40Fe-10Co Alloy Consolidated by Spark Plasma Sintering. Procedia Manufacturing, 2017, 7, 708-713.	1.9	12
41	Erosionâ€“corrosion behaviour of spark plasma sintered WC - 12Co in aggressive media. International Journal of Refractory Metals and Hard Materials, 2017, 66, 36-43.	1.7	9
42	Effect of scanning speed on laser deposited 17-4PH stainless steel. , 2017, , .		7
43	Effect of sintering parameters on densification, corrosion and wear behaviour of Ni-50Fe alloy prepared by spark plasma sintering. Journal of Alloys and Compounds, 2017, 699, 1166-1179.	2.8	38
44	Interfacial Reaction During High Energy Ball Milling Dispersion of Carbon Nanotubes into Ti6Al4V. Journal of Materials Engineering and Performance, 2017, 26, 6047-6056.	1.2	11
45	Densification and micro-structural characteristics of spark plasma sintered Ti-Zr-Ta powders. Powder Technology, 2017, 321, 471-478.	2.1	15
46	Effect of starting powder particle size and heating rate on spark plasma sintering of Fe Ni alloys. Journal of Alloys and Compounds, 2016, 678, 241-248.	2.8	59
47	Anisotropic behavior studies of aluminum alloy 5083-H0 using a micro-tensile test stage in a FEG-SEM. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 656, 266-274.	2.6	5
48	Tribocorrosion behaviours of AISI 310 and AISI 316 austenitic stainless steels in 3.5% NaCl solution. Materials Chemistry and Physics, 2016, 171, 239-246.	2.0	28
49	Effect of micron and nano-sized ZrB2 addition on the microstructure and properties of spark plasma sintered graphiteâ€“aluminum hybrid composite. Journal of Materials Science: Materials in Electronics, 2016, 27, 4672-4688.	1.1	5
50	A comparative study of spark plasma sintering and hybrid spark plasma sintering of 93Wâ€“4.9Niâ€“2.1Fe heavy alloy. International Journal of Refractory Metals and Hard Materials, 2016, 55, 16-23.	1.7	31
51	Spark plasma sintering of graphiteâ€“aluminum powder reinforced with SiC/Si particles. Powder Technology, 2015, 284, 504-513.	2.1	31
52	Effect of sintering temperature on the microstructure and mechanical properties of Feâ€“30%Ni alloys produced by spark plasma sintering. Journal of Alloys and Compounds, 2015, 649, 824-832.	2.8	81
53	Evaluation of Wear and Corrosion Behaviour of Hybrid Sintered Ti₆Al₄V Alloy. Key Engineering Materials, 0, 821, 321-326.	0.4	1
54	Spark Plasma Synthesis and Tribological Behaviour of Ti-Ni-TiCN Nanocomposite. International Journal of Engineering Research in Africa, 0, 55, 141-149.	0.7	0

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55	Effect of Co and Fe contents on the microstructure and corrosion behaviour of heat-treated Ni-Fe-Co superalloys in 3.5 wt% NaCl aqueous solution. International Journal of Advanced Manufacturing Technology, 0, , 1.	1.5	3
56	Dry Sliding Wear and High-Velocity Impact Behaviour of Spark Plasma Sintered Ti-Ni Binary Alloys. International Journal of Engineering Research in Africa, 0, 57, 1-18.	0.7	0