Development of Large-Size Ceramic/Metal Bulk FGM Fabricated by Spark Plasma Sintering

DOI: 10.4028/www.scientific.net/msf.308-311.83
Materials Science Forum, 1999, 308-311, 83-88.

#	Paper	IF	Citations
165	Dense Layered Molybdenum Disilicide–Silicon Carbide Functionally Graded Composites Formed by Field-Activated Synthesis. *Journal of the American Ceramic Society*, **2001**, 84, 962-968	3.8	36
164	Simultaneous synthesis and densification of niobium silicide/niobium composites. **2001**, 45, 405-412		36
163	Isoparametric Graded Finite Elements for Nonhomogeneous Isotropic and Orthotropic Materials. **2002**, 69, 502-514		294
162	Effect of surface oxide films on the properties of pulse electric-current sintered metal powders. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2003**, 34, 2655-2661	2.3	34
161	Behavior of oxide film at the interface between particles in sintered Al powders by pulse electric-current sintering. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2003**, 34, 699-703	2.3	75
160	Thermal conductivity and dielectric constant of spark plasma sintered aluminum nitride. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 347, 300-305	5.3	123
159	Effect of spark plasma sintering (SPS) on the microstructure and mechanical properties of randomly packed hollow sphere (RHS) cell wall. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 356, 130-135	5.3	33
158	Frequency effect on pulse electric current sintering process of pure aluminum powder. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 359, 384-390	5.3	66
157	The PLD of BaTiO3 target produced by SPS and its electrical properties for MLCC application. **2003**, 103, 128-134		12
156	Fabrication of Non-Equilibrium Fe-Si Compact by Spark Plasma Sintering. **2003**, 249, 307-310		
155	Reduction of Surface Oxide Films in Al–Mg Alloy Powders by Pulse Electric Current Sintering. **2004**, 19, 815-819		35
154	Twin effects on TiB2 ceramic during pulse electric current sintering. **2004**, 20, 1100-1102		2
153	Restoring WC in plasma sprayed WC–Co coatings through spark plasma sintering (SPS). **2004**, 182, 308-317		30
152	THE HYBRID BOUNDARY ELEMENT METHOD APPLIED TO PROBLEMS OF POTENTIAL THEORY IN NONHOMOGENEOUS MATERIALS. **2004**, 05, 863-891		5
151	Effect of Mg on the Sintering of Al-Mg Alloy Powders by Pulse Electric-Current Sintering Process. **2004**, 45, 904-909		46
150	Fundamental investigations on the spark plasma sintering/synthesis process. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 394, 132-138	5.3	242
149	Reduction mechanism of surface oxide films and characterization of formations on pulse electric-current sintered Al–Mg alloy powders. **2005**, 241, 102-106		30

148	Meshless local Petrov-Galerkin analysis for 2D functionally graded elastic solids under mechanical and thermal loads. **2005**, 36, 223-240		57
147	Titanium–titanium diboride composites as part of a gradient armour material. **2005**, 32, 387-399		55
146	Fabrication of ultra-fine grained and dispersion-strengthened titanium materials by spark plasma sintering. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 437, 423-429	5.3	52
145	The effect of electric field and pressure on the synthesis and consolidation of materials: A review of the spark plasma sintering method. *Journal of Materials Science*, **2006**, 41, 763-777	4.3	1646
144	A bulk metal/ceramic composite material with a cellular structure. **2006**, 51, 235-239		6
143	Spark plasma sintering of a nanocrystalline Al-Cu-Mg-Fe-Ni-Sc alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2006**, 37, 1343-1352	2.3	33
142	Spark effect on the densification of SiCp/Al composites by SPS. **2006**, 21, 72-75		3
141	Fabrication of porous Zr–Cu–Al–Ni bulk metallic glass by spark plasma sintering process. **2006**, 55, 687-690		102
140	Functionally graded ceramics. **2006**, 575-596		1
139	Nearly full density Ni52.5Nb10Zr15Ti15Pt7.5 bulk metallic glass obtained by spark plasma sintering of gas atomized powders. **2007**, 90, 241902		87
138	Fabrication of Ni52.5Nb10Zr15Ti15Pt7.5 Bulk Metallic Glassy Matrix Composite Containing Dispersed ZrO2 Particulates by Spark Plasma Sintering. *Materials Science Forum*, **2007**, 561-565, 1291-1294	0.4	1
137	Fabrication of ZrCuAlNi Metallic Glassy Matrix Composite Containing ZrO2 Particles by Spark Plasma Sintering Process. **2007**, 48, 158-162		22
136	Ceramic Particulate Reinforced Zr55Cu30Al10Ni5 Metallic Glassy Matrix Composite Fabricated by Spark Plasma Sintering. **2007**, 48, 1600-1604		16
135	Microstructure and Mechanical Properties of Porous Zr55Cu30Al10Ni5 Bulk Metallic Glass Fabricated by Spark Plasma Sintering Process. **2007**, 48, 1589-1594		12
134	High-energy ball-milling synthesis and densification of Fe–Co alloy nanopowders by field-activated sintering (FAST). *Journal of Alloys and Compounds*, **2007**, 434-435, 362-366	5.7	13
133	A Truly Mixed Approach for Cohesive-Crack Propagation in Functionally Graded Materials. **2007**, 14, 643-654		6
132	Texture and structure evolution of tantalum powder samples during spark-plasma-sintering (SPS) and conventional hot-pressing. **2007**, 25, 280-285		38
131	A novel technique for developing composite substrates used in YBCO coated conductors. **2007**, 56, 129-131		11

130	Electron backscattering diffraction analysis of mechanically milled and spark plasma sintered pure aluminium. **2007**, 57, 719-722		44
129	Microstructure and properties of ultrafine-grained and dispersion-strengthened titanium materials for implants. *Journal of Materials Science*, **2008**, 43, 671-679	4.3	23
128	Microstructure and properties of ceramic particulate reinforced metallic glassy matrix composites fabricated by spark plasma sintering. **2008**, 148, 77-81		34
127	Residual stress in spark-plasma-sintered and hot-pressed tantalum samples determined by X-ray diffraction methods. **2008**, 26, 312-317		13
126	Effect of fabrication process on the microstructure and dynamic compressive properties of SiCp/Al composites fabricated by spark plasma sintering. **2008**, 62, 443-446		17
125	Synthesis of Al3BC from mechanically milled and spark plasma sintered Al–MgB2 composite materials. *Journal of Alloys and Compounds*, **2008**, 457, 209-215	5.7	22
124	Characterization of Zirconia(3Y)/SUS410L Functionally-Graded Material Fabricated by SPS Processing. **2009**, 56, 383-388		6
123	Residual stress of ruthenium powder samples compacted by spark-plasma-sintering (SPS) determined by X-ray diffraction. **2009**, 27, 105-110		13
122	Spark Plasma Sintering as a Useful Technique to the Nanostructuration of Piezo-Ferroelectric Materials. **2009**, 11, 615-631		140
121	Dual phase metallic glassy composites with large-size and ultra-high strength fabricated by spark plasma sintering. *Intermetallics*, **2009**, 17, 512-516	3.5	25
120	Characterization of interface between the particles in NiNbZrTiPt metallic glassy matrix composite containing SiC fabricated by spark plasma sintering. *Journal of Alloys and Compounds*, **2009**, 483, 239-242	5.7	6
119	Densification of Gas Atomized Ni-Based Metallic Glassy Powders by Spark Plasma Sintering. **2009**, 50, 1273-1278		12
118	Preparation of Bulk Glassy Fe76Si9B10P5 as a Soft Magnetic Material by Spark Plasma Sintering. **2009**, 50, 487-489		16
117	From Conventional to Fast Sintering of Zirconia Toughened Alumina Nanocomposites. **2009**, 91-102		1
116	Spark plasma sintering of gas atomized Al87Ni8La5amorphous powder. **2009**, 144, 012079		5
115	Production of high-strength Al85Y8Ni5Co2bulk alloy by spark plasma sintering. **2010**, 240, 012155		2
114	A study of the densification mechanisms during spark plasma sintering of zirconium (oxy-)carbide powders. *Acta Materialia*, **2010**, 58, 2598-2609	8.4	95
113	The effect of temperature on the pulsed current processing behaviour and structural characteristics of porous ZSM-5 and zeolite Y monoliths. *Journal of the European Ceramic Society*, **2010**, 30, 2977-2983	6	9

112	Synthesis of the MAX Phases by Pulse Discharge Sintering. **2010**, 7, 704-718		36
111	Mechanically Alloyed and Spark Plasma Sintered Aluminium/Precious Metal Oxide Composite Materials. *Materials Science Forum*, **2010**, 638-642, 1824-1829	0.4	
110	Mechanical Properties and Microstructures of Severely Plastic Deformed Pure Titanium by Mechanical Milling and Spark Plasma Sintering. *Materials Science Forum*, **2010**, 667-669, 559-564	0.4	1
109	Synthesis of New Structural and Functional Materials by SPS Processing. *Materials Science Forum*, **2010**, 638-642, 2091-2096	0.4	7
108	Consolidation Behavior of Cu-Zr-Al Metallic Glass Powder by Spark Plasma Sintering. *Materials Science Forum*, **2010**, 654-656, 1086-1089	0.4	4
107	Microstructure and mechanical properties of crystalline particulates dispersed Ni-based metallic glassy composites fabricated by spark plasma sintering. *Intermetallics*, **2010**, 18, 851-858	3.5	24
106	Cu particulate dispersed Cu50Zr45Al5 bulk metallic glassy composite with enhanced electrical conductivity. *Intermetallics*, **2010**, 18, 1973-1977	3.5	18
105	The Spark-Plasma-Sintering (SPS) Process in Comparison with Various Conventional Compaction Methods. *Ceramic Transactions*, **2011**, 23-35	0.1	1
104	Fundamental Investigations of Reactivity and Densification in the SPS. *Ceramic Transactions*, **2011**, 37-49	0.1	
103	Formation and properties of two-phase bulk metallic glasses by spark plasma sintering. *Journal of Alloys and Compounds*, **2011**, 509, S214-S218	5.7	14
102	Influence of pulse current during Spark Plasma Sintering evidenced on reactive alumina–hematite powders. *Journal of the European Ceramic Society*, **2011**, 31, 2247-2254	6	16
101	Spark Plasma co-Sintering of hot work and high speed steel powders for fabrication of a novel tool steel with composite microstructure. *Powder Technology*, **2011**, 214, 292-299	5.2	22
100	Construction of 3D micro-cellular structure of the metal / ceramic system. **2011**, 30, 604-609		2
99	Nanostructured Ti Consolidated via Spark Plasma Sintering. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2011**, 42, 964-973	2.3	33
98	Strength and Failure Behaviour of Spark Plasma Sintered Steel-Zirconia Composites Under Compressive Loading. **2011**, 82, 1017-1021		22
97	Influence of processing parameters and particle size on the properties of hot work and high speed tool steels by Spark Plasma Sintering. **2011**, 32, 1796-1805		36
96	Bulk Metallic Glassy Composites with Excellent Electrical Conductivity and Enhanced Plasticity Fabricated by Spark Plasma Sintering. *Materials Science Forum*, **2011**, 675-677, 197-200	0.4	2
95	Surface Modification of Al Components Using Spark Plasma Sintering. **2011**, 409, 514-519		

94	Study of effect of particle size on densification of copper during spark plasma sintering. **2012**, 55, 228-234		25
93	Ni-free Ti-based bulk metallic glass with potential for biomedical applications produced by spark plasma sintering. *Intermetallics*, **2012**, 29, 99-103	3.5	50
92	SiC dispersed Fe-based glassy composite cores produced by spark plasma sintering and their high frequency magnetic properties. *Intermetallics*, **2012**, 20, 76-81	3.5	20
91	Consolidation and mechanical properties of Cu46Zr42Al7Y5 metallic glass by spark plasma sintering. **2012**, 358, 1263-1267		22
90	Strain-Rate-Dependent Flow Stress and Failure of an Mg-PSZ Reinforced TRIP Matrix Composite Produced by Spark Plasma Sintering. **2012**, 83, 521-528		28
89	Microstructure and mechanical properties of submicron-grained NiAl-Al2O3 composite prepared by pulse current auxiliary sintering. **2012**, 27, 715-720		3
88	Densification mechanisms in spark plasma sintering: Effect of particle size and pressure. *Powder Technology*, **2012**, 221, 220-227	5.2	182
87	Fracture Properties of SPS Tungsten Copper Powder Composites. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 544-551	2.3	15
86	A fractographic and microstructural analysis of the neck regions of coarse copper particles consolidated by spark plasma sintering. **2013**, 111, 17-19		15
85	Spark Plasma Sintering (SPS) Method, Systems, and Applications. **2013**, 1149-1177		57
84	Thermal shock resistant and flame retardant ceramic nanocomposites. **2013**, 3-50		
83	Effects of SPS Pulse Current on Interface of Al90Mn9Ce1/ZrO2 Micro-Cellular Structure Composites. *Materials Science Forum*, **2013**, 749, 61-66	0.4	1
82	Recent Progress in Ti-Based Metallic Glasses for Application as Biomaterials. **2013**, 54, 1314-1323		30
81	Improvement of Mechanical and Physical Properties in Powder Metallurgy. **2014**, 281-294		12
80	Development in processing of MgB2 cryo-magnet superconductors. **2014**, 116, 163916		42
79	Field-Assisted Sintering Technology/Spark Plasma Sintering: Mechanisms, Materials, and Technology Developments. **2014**, 16, 830-849		675
78	Cu Particulates Dispersed Bulk Metallic Glass Composites with High Strength and High Electrical Conductivity Fabricated by Spark Plasma Sintering. *Materials Science Forum*, **2014**, 783-786, 1961-1966	0.4	2
77	Direct Characterizing of Densification Mechanisms during Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2014**, 97, 765-771	3.8	29

76	Temperature profile optimization for microwave sintering of bulk Ni/Al2O3 functionally graded materials. *Journal of Materials Processing Technology*, **2014**, 214, 210-216	5.3	16
75	Microscopic Mechanisms of Spark Plasma Sintering in a TiAl Alloy. **2014**, 327-336		
74	Properties enhancement and recoil loop characteristics for hot deformed nanocrystalline NdFeB permanent magnets. **2014**, 60, 012013		2
73	Effect of Chromium Addition on the Thermal Conductivity of Cu/Diamond Composites Fabricated by SPS. **2015**, 62, 357-364		5
72	Coercivity and Thermal Stability Enhancement for Spark-Plasma-Sintered Nanocrystalline NdFeB Magnets With Dy2O3 and Zn Additions. **2015**, 51, 1-4		
71	Effect of SPS parameters on densification and properties of steel matrix composites. **2015**, 26, 1152-1161		37
70	Densification and microstructural evolution of a high niobium containing TiAl alloy consolidated by spark plasma sintering. *Intermetallics*, **2015**, 64, 70-77	3.5	21
69	Electromigration experiments by spark plasma sintering in the silver–zinc system. *Journal of Alloys and Compounds*, **2015**, 635, 142-149	5.7	20
68	Tuning of Microstructure and Magnetic Properties of Nanocrystalline NdFeB Permanent Magnets Prepared by Spark Plasma Sintering. **2015**, 6, 1-4		9
67	Present status for the development of aluminum-based heat dissipative materials. **2016**, 66, 543-551		
66	Spark Plasma Co-Sintering of Mechanically Milled Tool Steel and High Speed Steel Powders. *Materials*, **2016**, 9,	3.5	8
65	Spark Plasma Sintering of Titanium Spherical Particles. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2016**, 47, 2725-2731	2.5	25
64	Development of high performance MgFe alloy as potential biodegradable materials. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 671, 48-53	5.3	15
63	Spark plasma sintering mechanisms at the necks between TiAl powder particles. *Acta Materialia*, **2016**, 118, 100-108	8.4	63
62	Synthesis and Ceramic Nanostructuring of Ferroic and Multiferroic Low-Tolerance-Factor Perovskite Oxides. **2016**, 44-71		
61	Conventional and Spark Plasma Sintered Ba0.8Pb0.2TiO3 Nano Ceramics: Structural, Dielectric, and Ferroelectric Properties. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 2579-2586	2.3	3
60	Diffusion bonding of Ti-45Al-7Nb-0.3W alloy by spark plasma sintering. *Journal of Materials Processing Technology*, **2016**, 230, 272-279	5.3	31
59	A comprehensive microstructural analysis of Al/WC micro- and nano-composites prepared by spark plasma sintering. *Materials and Design*, **2017**, 119, 225-234	8.1	42

58	Comparison of densification kinetics of a TiAl powder by spark plasma sintering and hot pressing. *Acta Materialia*, **2017**, 135, 1-13	8.4	36
57	Trend of the development of metal-based heat dissipative materials. *Microelectronics Reliability*, **2017**, 79, 5-19	1.2	12
56	Theoretical and experimental investigations of local overheating at particle contacts in spark plasma sintering. *Powder Technology*, **2017**, 321, 458-470	5.2	29
55	Formation of Fine B2/□ + O Structure and Enhancement of Hardness in the Aged Ti2AlNb-Based Alloys Prepared by Spark Plasma Sintering. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 4365-4371	2.3	17
54	Structure and transport properties of the spark plasma sintered barium cerate based proton conductor. *Ceramics International*, **2017**, 43, 14905-14914	5.1	6
53	Mechanical properties of a CrMnNi steel/Mg-PSZ-FGM processed by asymmetric Spark Plasma Sintering. *Materials and Design*, **2017**, 115, 8-16	8.1	7
52	Rapid heating of zirconia nanoparticle-powder compacts by infrared radiation heat transfer. *Journal of the European Ceramic Society*, **2017**, 37, 1067-1072	6	6
51	Graphene nanosheets toughened TiB2-based ceramic tool material by spark plasma sintering. *Ceramics International*, **2018**, 44, 8977-8982	5.1	23
50	Strength and fracture mechanism of iron reinforced tricalcium phosphate cermet fabricated by spark plasma sintering. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 81, 16-25	4.1	10
49	Electron spin resonance of transparent alumina ceramics fabricated by spark plasma sintering. *Journal of the American Ceramic Society*, **2018**, 101, 4591-4597	3.8	3
48	Reactive spark plasma synthesis of CaZrTi2O7 zirconolite ceramics for plutonium disposition. *Journal of Nuclear Materials*, **2018**, 500, 11-14	3.3	18
47	Spark plasma sintering microscopic mechanisms of metallic systems: Experiments and simulations. *Journal of the American Ceramic Society*, **2018**, 102, 654	3.8	3
46	Densification of Ni and TiAl by SPS: Kinetics and Microscopic Mechanisms. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2018**, 49, 4849-4859	2.3	7
45	Effects of pulse conditions on microstructure and mechanical properties of Si3N4/6061Al composites prepared by spark plasma sintering (SPS). *Journal of Alloys and Compounds*, **2018**, 763, 822-834	5.7	17
44	Direct temperature measurement via thermocouples within an SPS/FAST graphite tool. *Measurement: Journal of the International Measurement Confederation*, **2019**, 147, 106863	4.6	7
43	Review of preparation and application of copper□steel bimetal composites. *Emerging Materials Research*, **2019**, 8, 538-551	1.4	8
42	Influence of high-energy ball milling on Mg-PSZ-reinforced TRIP steel-matrix composites synthesized by FAST / SPS. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 761, 137974	5.3	9
41	One step densification of printed multilayers by SPS: Towards new piezoelectric energy harvester MEMS. **2019**, 219-255		

40	Spark Plasma Sintering of Graded Dissimilar Metals. *Transactions of the Indian Institute of Metals*, **2019**, 72, 1837-1852	1.2	0
39	Sintering Mechanisms of Metals Under Electric Currents. **2019**, 93-115		2
38	Porous Ti-based bulk metallic glass with excellent mechanical properties and good biocompatibility. *Intermetallics*, **2019**, 105, 153-162	3.5	20
37	A Review of Spark Plasma Sintering of Carbon Nanotubes Reinforced Titanium-Based Nanocomposites: Fabrication, Densification, and Mechanical Properties. *Jom*, **2019**, 71, 567-584	2.1	14
36	Spark Plasma Extrusion and the Thermal Barrier Concept. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2019**, 50, 656-665	2.5	5
35	Physicomechanical Properties of Porous Materials by Spark Plasma Sintering. *Critical Reviews in Solid State and Materials Sciences*, **2020**, 45, 22-65	10.1	19
34	Sintering and Joining of Ni-Based Superalloys via FAST for Turbine Disc Applications. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 1353-1366	2.3	4
33	Carbon fiber reinforced hydroxyapatite composites with excellent mechanical properties and biological activities prepared by spark plasma sintering. *Ceramics International*, **2020**, 46, 27446-27456	5.1	4
32	Development and mechanical characterisation of Al-4.5%Cu alloy prepared using spark plasma sintered method. *Advances in Materials and Processing Technologies*, **2020**, 1-9	0.8	
31	Structure and Phase Composition of a W-Ta-Mo-Nb-V-Cr-Zr-Ti Alloy Obtained by Ball Milling and Spark Plasma Sintering. *Entropy*, **2020**, 22,	2.8	6
30	Electromigration effect in Fe-Al diffusion couples with field-assisted sintering. *Acta Materialia*, **2020**, 186, 631-643	8.4	12
29	Microstructure and Microhardness of a Multicomponent System After Mechanical Activation and Spark Plasma Sintering. *Russian Physics Journal*, **2020**, 62, 1746-1748	0.7	1
28	A review of multi-physical fields induced phenomena and effects in spark plasma sintering: Fundamentals and applications. *Materials and Design*, **2020**, 191, 108662	8.1	127
27	Spark Plasma Sintering. **2021**, 294-310		3
26	Perspectives on the spark plasma sintering process. *Journal of Materials Science*, **2021**, 56, 1-15	4.3	21
25	Functionally Graded Ceramics. **2021**, 374-398		0
24	Elaboration of Metallic Materials by SPS: Processing, Microstructures, Properties, and Shaping. *Metals*, **2021**, 11, 322	2.3	2
23	Comparative study on carbon nanotube and graphene reinforced Cu matrix nanocomposites for thermal management applications. *Diamond and Related Materials*, **2021**, 113, 108273	3.5	3

22	Progress of Spark Plasma Sintering (SPS) Method, Systems, Ceramics Applications and Industrialization. *Ceramics*, **2021**, 4, 160-198	1.7	15
21	Towards high performance GNFs/Ti composite through simultaneously manipulating laminated microstructure and interface reaction. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 814, 141230	5.3	3
20	Microstructure and Mechanical Properties of AA7075 Aluminum Alloy Fabricated by Spark Plasma Sintering (SPS). *Materials*, **2021**, 14,	3.5	4
19	Spark Plasma Sintering : A Promising New Technique and its Mechanism. *Springer Series in Materials Science*, **2004**, 65-75	0.9	3
18	Processing and System. **2001**, 53-102		
17	Applications. **2001**, 207-235		
16	Fabrication and Characterization of Metallic Glassy Matrix Composite Reinforced with ZrO2 Particulate by Spark Plasma Sintering Process. *Advances in Materials Research*, **2008**, 245-255		
15	Production of Dense Nanostructured Materials using Fapas and SPS Techniques. *Ceramic Transactions*, 235-249	0.1	
14	Effects of Ultrasonic Synthesis Variable on Basic Properties of CoFe2O4 Nanoparticles. *Springer Proceedings in Physics*, **2017**, 19-28	0.2	
13	Synthesis of TRIP Matrix Composites by Field Assisted Sintering Technology□Challenges and Results. *Springer Series in Materials Science*, **2020**, 257-282	0.9	
12	Crystalline phosphates for HLW immobilization - composition, structure, properties and production of ceramics. Spark Plasma Sintering as a promising sintering technology. *Journal of Nuclear Materials*, **2021**, 559, 153407	3.3	3
11	Effect of Preliminary Treatment on Microstructure, Mechanical Properties and Fracture of Ni3Al Samples Synthesized by Spark Plasma Sintering. *Russian Physics Journal*, 1	0.7	0
10	The Development and Application of Spark Plasma Sintering Technique in Advanced Metal Structure Materials: A Review. *Powder Metallurgy and Metal Ceramics*, 1	0.8	0
9	Spark Plasma Sintering of Electric Discharge Machinable 1.5Yb-1.5Sm-TZP-WC Composites. *Journal of Manufacturing and Materials Processing*, **2022**, 6, 28	2.2	1
8	An analytical review on Spark Plasma Sintering of metals and alloys: from processing window, phase transformation, and property perspective. *Critical Reviews in Solid State and Materials Sciences*, 1-46	10.1	2
7	Optimizing mechanical and electrical properties of Cu-coated Cu□rAl bulk metallic glass composites by adjusting glassy powder size. *Intermetallics*, **2022**, 146, 107570	3.5	0
6	Mechanical properties and corrosion resistance of large-size biodegradable Ca□Mg□n bulk metallic glasses fabricated via powder metallurgy. *Intermetallics*, **2022**, 148, 107633	3.5	1
5	High Critical Current Density of Nanostructured MgB2 Bulk Superconductor Densified by Spark Plasma Sintering. **2022**, 12, 2583		

4	Investigating the properties of recycled NdFeB magnets.	0
3	Nanoparticles embedded into glass matrices: glass nanocomposites. **2022**, 16,	1
2	Enhancing Metal-Matrix Composites Performance via Spark Plasma Sintering (SPS) Process. **2022**, 69, 441-454	0
1	Microstructure and Mechanical Properties of Y4Zr3O12-Added Fe13.5Cr2W Oxide-Dispersion-Strengthened Steels, Containing High Contents of C and N, Prepared by Mechanical Alloying and Two-Step Spark Plasma Sintering. **2023**, 16, 2433	0