

CITATION REPORT

List of articles citing

Sintering, consolidation, reaction and crystal growth by the spark plasma system (SPS)

DOI: 10.1016/s0921-5093(00)00773-5

Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 287, 183-188.

Source: <https://exaly.com/paper-pdf/31371469/citation-report.pdf>

Version: 2024-04-10

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
892	The Consolidation Behavior of L12 Phase Al ₃ Zr & (Al+12.5at%) ₃ Zr Powders with Nanocrystalline Structure During Spark Plasma Sintering. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 704, 691		
891	A study on the microstructure of D0 23 Al 3 Zr and L1 2 (Al+12.5 at.% Cu) 3 Zr intermetallic compounds synthesized by PBM and SPS. 2002 , 10, 185-194		19
890	Consolidation of Al ₂ O ₃ /Al ₂ O ₃ eutectic powder prepared from induction-melted solid and strength at high temperatures. 2002 , 3, 239-244		7
889	Consolidation of Al ₂ O ₃ /Al ₂ O ₃ (YAG) eutectic powder prepared from induction-melted solid and strength at high temperature. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 2621-2625	6	21
888	Synthesis of dense NiZn ferrites by spark plasma sintering. <i>Ceramics International</i> , 2002 , 28, 855-858	5.1	28
887	Thermoelectric properties of crystallized boron carbide thin films prepared by ion-beam evaporation. 2002 , 407, 132-135		15
886	Effect of surface oxide films on the properties of pulse electric-current sintered metal powders. 2003 , 34, 2655-2661		34
885	Behavior of oxide film at the interface between particles in sintered Al powders by pulse electric-current sintering. 2003 , 34, 699-703		75
884	Formation of Ti ₃ SiC ₂ from Ti-Si-TiC powders by pulse discharge sintering (PDS) technique. 2003 , 7, 225-230		34
883	In situ joining of dissimilar nanocrystalline materials by spark plasma sintering. 2003 , 48, 1225-1230		42
882	Preparation of nanostructured TiO ₂ ceramics by spark plasma sintering. 2003 , 38, 925-930		74
881	Effect of phase transformation during high energy milling on field activated synthesis of dense MoSi ₂ . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 345, 270-277	5.3	29
880	Thermal conductivity and dielectric constant of spark plasma sintered aluminum nitride. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 347, 300-305	5.3	123
879	Spark plasma sintering behavior of nanocrystalline WC/Co cemented carbide powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 351, 31-38	5.3	201
878	Observation of particle behavior in copper powder compact during pulsed electric discharge. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 350, 184-189	5.3	51
877	Microstructures of binderless tungsten carbides sintered by spark plasma sintering process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 356, 381-389	5.3	143
876	Frequency effect on pulse electric current sintering process of pure aluminum powder. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 359, 384-390	5.3	66

875	Change in the compositional distribution in perovskite solid solutions during the sintering by SPS. 2003 , 99, 11-14		13
874	Microstructure and fracture toughness of a spark plasma sintered Al ₂ O ₃ -based composite with BaTiO ₃ particulates. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 1269-1276	6	23
873	Densification of plasma sprayed YSZ electrolytes by spark plasma sintering (SPS). <i>Journal of the European Ceramic Society</i> , 2003 , 23, 1855-1863	6	79
872	A Novel Processing Route to Develop a Dense Nanocrystalline Alumina Matrix (. 2003 , 86, 200-2002		84
871	Single-wall carbon nanotubes as attractive toughening agents in alumina-based nanocomposites. 2003 , 2, 38-42		803
870	Tougher ceramics with nanotubes. 2003 , 2, 15-6		145
869	Thermoelectric performance of textured Bi ₂ Te ₃ -based sintered materials prepared by spark plasma sintering. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 793, 401		2
868	Microstructural and mechanical properties of nanocrystalline (Al+12.5 at.%Cu)3Zr alloys synthesized by planetary ball milling and spark plasma sintering. 2003 , 11, 1039-1045		20
867	Consolidation of Multi-Walled Carbon Nanotube and Hydroxyapatite Coating by the Spark Plasma System (SPS). 2003 , 254-256, 395-398		12
866	Development of Texture-Controlled Bulky Actuator/Sensor Materials by Combining Rapid-Solidified Fiber/Ribbon Elements and Spark Plasma Sintering/Joining (SPSJ). <i>Materials Research Society Symposia Proceedings</i> , 2003 , 785, 1281		
865	Electrical properties of nanoceramics reinforced with ropes of single-walled carbon nanotubes. 2003 , 83, 1228-1230		182
864	Pulse electric current sintering of alumina/nickel nanocomposites. 2003 , 7, 57-61		13
863	Mechanical and Magnetic Properties of Alumina/Nickel Nanocomposites Prepared by Pulse Electric Current Sintering. 2003 , 111, 457-460		4
862	XPS Analysis of Dopant Penetration in Joined p-n Silicon-Germanium Semiconductor. 2003 , 111, 436-438		1
861	Effect of Ball-Milling on Sinterability of Si-Ge Powders Prepared by Gas Atomization of the Corresponding Melts. 2003 , 111, 749-754		3
860	FABRICATION OF DENSE HYDROXYAPATITE BY PULSE ELECTRIC CURRENT SINTERING (PECS). 2004 , 17, 235-239		1
859	Thermal Stability and Mechanical Properties of Nanocrystalline L12 Al ₃ Hf and (Al+12.5 at.%Zn)3Hf Prepared by MA and SPS. 2004 , 449-452, 809-812		1
858	Lossy AlN _{0.5} C composites fabricated by spark plasma sintering. 2004 , 19, 2759-2764		13

857	Processing of Nanoceramics and Nanoceramic Composites: New Results. 2004 , 264-268, 2293-2296	1
856	Fast Consolidation of Iron Powders by Pulse Electric Current Sintering. 2004 , 471-472, 225-229	1
855	Improved Fracture Toughness in Advanced Nanocrystalline Ceramic Composites. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 821, 228	1
854	Characterization of Carbon Nanotubes/Cu Nanocomposites Processed by Using Nano-sized Cu Powders. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 821, 134	12
853	Nanocrystalline- Matrix Ceramic Composites for Improved Fracture Toughness. 2004 , 29, 22-27	111
852	Manufacturing Nanocomposite Parts: Present Status and Future Challenges. 2004 , 29, 16-21	37
851	Reduction of Surface Oxide Films in Al/Mg Alloy Powders by Pulse Electric Current Sintering. 2004 , 19, 815-819	35
850	The Formation of Ni-Mo Alloy Phase in TiCN-Based Cermets. 2004 , 264-268, 1123-1128	
849	Consolidation of Eutectic Powder of Al ₂ O ₃ /AlO ₃ . 2004 , 83, 2878-2880	15
848	Electrically Conductive In Situ Formed Nano-Si ₃ N ₄ /SiC/TiC _x N _{1-x} Ceramic Composite Consolidated by Pulse Electric Current Sintering (PECS). 2004 , 88, 66-70	11
847	Spark Plasma Sintering (SPS) of NASICON Ceramics. 2004 , 87, 305-307	69
846	Development of WC/Co Nanocomposites by Spark Plasma Sintering. 2004 , 87, 317-319	51
845	Rapid Reactive Synthesis and Sintering of Submicron TiC/SiC Composites through Spark Plasma Sintering. 2004 , 87, 1157-1160	44
844	Spark plasma synthesis from mechanically activated powders: a versatile route for producing dense nanostructured iron aluminides. 2004 , 50, 691-696	84
843	Metal-like electrical conductivity in ceramic nano-composite. 2004 , 50, 1309-1313	19
842	Phase evolution and microstructure characteristics of ultrafine Ti(C,N)-based cermet by spark plasma sintering. 2004 , 22, 133-138	31
841	Consolidation and properties of binderless sub-micron tungsten carbide by field-activated sintering. 2004 , 22, 257-264	129
840	Spark plasma sintering properties of ultrafine Ti(C,N)-based cermet. 2004 , 19, 69-72	7

839	Microstructures and magnetic properties of spark plasma sintered Fe _{1-x} Co _x type and Sm ₂ Co ₁₇ type magnets. 2004 , 272-276, E1873-E1875		2
838	Processing and properties of carbon nanotubes-nano-WC-Co composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 381, 86-91	5.3	37
837	A study on the improvement of the fracture toughness of L12-type Cu-added zirconium trialuminide intermetallics synthesized by mechanical alloying. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 382, 209-216	5.3	5
836	Restoring WC in plasma sprayed WC ₁₀ coatings through spark plasma sintering (SPS). 2004 , 182, 308-317		30
835	Microstructure evolvments of a rare-earth filled skutterudite compound during annealing and spark plasma sintering. 2004 , 25, 97-102		14
834	Spark plasma sintering and characterization of bulk nanostructured fully stabilized zirconia: Part I. Densification studies. 2004 , 19, 3255-3262		109
833	Anisotropic thermal properties of single-wall-carbon- nanotube-reinforced nanoceramics. 2004 , 84, 419-423		24
832	The effect of phosphorus additions on densification, grain growth and properties of nanocrystalline WC ₁₀ composites. 2004 , 385, 96-103		32
831	Effects of Mn addition on microstructure and mechanical properties of (Al+x at.%Mn) ₃ Ti intermetallic compounds prepared by mechanical alloying and spark plasma sintering. 2004 , 12, 477-485		9
830	Modified interfacial reactions in Ag/Zn multilayers under the influence of high DC currents. 2004 , 12, 589-597		157
829	Synthesis of filled skutterudite compound La _{0.75} Fe ₃ CoSb ₁₂ by spark plasma sintering and effect of porosity on thermoelectric properties. 2004 , 364, 83-88		55
828	Biocompatibility of carbon nanotube disk. 2004 ,		1
827	Effect of Mg on the Sintering of Al-Mg Alloy Powders by Pulse Electric-Current Sintering Process. <i>Materials Transactions</i> , 2004 , 45, 904-909	1.3	46
826	Magnetostriction of Polycrystalline Strong-Textured Fe-17 at%Ga Laminates. <i>Materials Transactions</i> , 2005 , 46, 1933-1937	1.3	4
825	Preparation and Properties of p-Type (Bi ₂ Te ₃) _x (Sb ₂ Te ₃) _{1-x} Thermoelectric Materials. <i>Materials Transactions</i> , 2005 , 46, 959-962	1.3	10
824	Effect of Sintering Temperature on Compressive Properties of Porous Aluminum Produced by Spark Plasma Sintering. <i>Materials Transactions</i> , 2005 , 46, 186-188	1.3	25
823	Spark plasma sintering of Sm ₂ O ₃ -doped aluminum nitride. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 1057-1065	6	40
822	Fundamental investigations on the spark plasma sintering/synthesis process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 394, 139-148	5.3	402

821	Fundamental investigations on the spark plasma sintering/synthesis process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 394, 132-138	53	242
820	Mechanical properties, phases and microstructure of ultrafine hardmetals prepared by WC ₈ .29Co nanocrystalline composite powder. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 392, 335-339	53	72
819	Wear-resistant ultra-fine-grained ceramics. 2005 , 53, 271-277		74
818	Reduction mechanism of surface oxide films and characterization of formations on pulse electric-current sintered Al ₇₀ Mg alloy powders. 2005 , 241, 102-106		30
817	Mechanism of conductive powder microstructure evolution in the process of SPS. 2005 , 48, 258		10
816	Mechanical properties of BiC fabricated by spark plasma sintering. 2005 , 14, 460-466		37
815	Tribological Properties of WC ₈ /rO ₂ Nanocomposites. 2005 , 88, 691-697		42
814	Microstructural and Thermoelectric Characteristics of Zinc Oxide-Based Thermoelectric Materials Fabricated Using a Spark Plasma Sintering Process. 2005 , 88, 628-632		92
813	Spark Plasma Sintering of LiTi ₂ (PO ₄) ₃ -Based Solid Electrolytes. 2005 , 88, 1803-1807		69
812	Carbon Nanotube Reinforced Alumina-Based Ceramics with Novel Mechanical, Electrical, and Thermal Properties. 2005 , 1, 161-171		133
811	Synthesis of Al ₇₀ Mn ₃₀ alloy by the spark plasma sintering. 2005 , 54, 394-398		34
810	Spark plasma sintering on nanometer scale WC ₈ Co powder. 2005 , 59, 2566-2569		46
809	Thermoelectric properties of textured p-type (Bi,Sb) ₂ Te ₃ fabricated by spark plasma sintering. 2005 , 52, 347-351		98
808	Spark plasma sintering of TiNi nano-powder. 2005 , 52, 455-460		92
807	Strengthening and toughening of carbon nanotube reinforced alumina nanocomposite fabricated by molecular level mixing process. 2005 , 53, 793-797		200
806	Synthesis of dense nanocrystalline ZrO ₂ -MgAl ₂ O ₄ spinel composite. 2005 , 53, 1007-1012		35
805	Spark plasma sintering of functionally graded material in the Ti ₆₀ Al ₄₀ B ₂ system. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 397, 92-97	53	83
804	Fundamental investigations on the spark plasma sintering/synthesis process: III. Current effect on reactivity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 407, 24-30	53	179

803	Titanium/Titanium diboride composites as part of a gradient armour material. 2005 , 32, 387-399	55
802	The densification of Cu/Ti system by spark plasma sintering. 2005 , 20, 83-85	1
801	Preparation of Multi-Walled Carbon Nanotube Compact by the Spark Plasma System (SPS). <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2005 , 52, 115-119 ^{0.2}	0.2
800	Evaluation of Mechanical Properties of Single-Walled Carbon Nanotube Solids Prepared by Spark Plasma Sintering. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2005 , 52, 826-830	0.2 0
799	Change in compositional fluctuation in Pb(ZrxTi1-x)O3 solid solution during spark plasma sintering. 2005 , 104, 55-58	5
798	Effects of Carbon Nanotubes Incorporation on the Grain Growth and Properties of WC/Co Nanocomposites. 2005 , 475-479, 989-992	4
797	Fast densification and deformation of titanium powder. 2005 , 48, 231-236	46
796	Spark plasma sintering of ceramics: understanding temperature distribution enables more realistic comparison with conventional processing. 2005 , 104, 110-116	44
795	Thermoelectric properties of Te-doped CoSb3 by spark plasma sintering. 2005 , 98, 083702	101
794	Simultaneous spark plasma synthesis and consolidation of WC/Co composites. 2005 , 20, 734-741	19
793	Preparation of Single-Walled Carbon Nanotube Solids and Their Mechanical Properties. 2005 , 20, 2609-2612	10
792	Ultralow-temperature superplasticity in nanoceramic composites. 2005 , 5, 2593-7	36
791	Thermoelectric performance of p-type BiSbTe materials prepared by spark plasma sintering. 2005 , 390, 208-211	58
790	Synthesis, characterization and sintering of nanocrystalline titania powders produced by chemical vapour synthesis. 2006 , 39, 2248-2254	31
789	Basic Research and Industrial Production Using the Spark Plasma System (SPS). 2006 , 745-754	2
788	The effect of tungsten buffer layer on the stability of diamond with tungsten carbide/cobalt nanocomposite powder during spark plasma sintering. 2006 , 15, 1643-1649	24
787	Microstructural evolution of Al2O3/SiC nanocomposites during spark plasma sintering. 2006 , 413, 259-264	36
786	Influence of sintering temperature on microstructures of Nb/Nb5Si3 in situ composites synthesized by spark plasma sintering. 2006 , 413, 73-76	39

785	Synthesis of bulk FeAl nanostructured materials by HVOF spray forming and Spark Plasma Sintering. 2006 , 14, 1208-1213		46
784	Influence of Inner Current on the ZnO Ceramics Sintering Process by Pulse Current Sintering Method. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2006 , 53, 830-835	0.2	1
783	Magnetostriction of polycrystalline strong-textured Fe-17at%Ga alloy fabricated by combining rapid-solidification and sintering processes. 2006 ,		
782	Microstructure and Mechanical Properties of W-C-B Ceramics Containing VC. <i>Materials Transactions</i> , 2006 , 47, 2353-2357	1.3	5
781	Titanium Mesh/Rod Joined by Pulse Electric Current Sintering: Effect of Heating Rate. <i>Materials Transactions</i> , 2006 , 47, 2348-2352	1.3	3
780	Fabrication and characterization of polycrystalline bulk ZnO with large grain size of ~100 μm by the spark plasma sintering. 2006 , 3, 785-788		3
779	Neck Formation and Self-Adjusting Mechanism of Neck Growth of Conducting Powders in Spark Plasma Sintering. 2006 , 89, 494-500		282
778	Simultaneous Spark Plasma Synthesis and Densification of TiC/TiB ₂ Composites. 2006 , 89, 848-855		63
777	Low temperature synthesis of hydroxyapatite from CaHPO ₄ ·2H ₂ O and Ca(OH) ₂ based on effect of the spark plasma system (SPS). <i>Ceramics International</i> , 2006 , 32, 617-621	5.1	10
776	Interface microstructure of aluminum die-casting alloy joints bonded by pulse electric-current bonding process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 428, 12-17	5.3	5
775	Challenges and advances in nanocomposite processing techniques. 2006 , 54, 121-285		344
774	Thermoelectric properties of p-type pseudo-binary (Ag _{0.365} Sb _{0.558} Te) _x (Bi _{0.5} Sb _{1.5} Te ₃) _{1-x} (x=0-1.0) alloys prepared by spark plasma sintering. 2006 , 179, 3751-3755		15
773	Design of pyroelectric properties by controlling compositional distribution. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 613-617	6	8
772	Erbium-doped LAS glass ceramics prepared by spark plasma sintering (SPS). <i>Journal of the European Ceramic Society</i> , 2006 , 26, 3301-3306	6	24
771	Rapid sintering process and mechanical properties of binderless ultra fine tungsten carbide. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 435-436, 717-724	5.3	45
770	Dielectric properties of nanocrystalline TiO ₂ prepared using spark plasma sintering. 2006 , 17, 913-917		8
769	Fabrication of bulk Al-La-Ni alloy by spark plasma sintering. 2006 , 41, 463-466		3
768	Microstructure and properties of spark plasma sintered AlN ceramics. 2006 , 41, 7934-7938		16

767	The effect of electric field and pressure on the synthesis and consolidation of materials: A review of the spark plasma sintering method. 2006 , 41, 763-777	1646
766	Microstructures and thermoelectric properties of p-type pseudo-binary BiSbTe alloys with partial substitution of Ga for Sb prepared by spark plasma sintering. 2006 , 135, 44-49	15
765	Joining technologies of reduced activation ferritic/martensitic steel for blanket fabrication. 2006 , 81, 645-651	72
764	Spark plasma sintering of a nanocrystalline Al-Cu-Mg-Fe-Ni-Sc alloy. 2006 , 37, 1343-1352	33
763	Rapid sintering of nanocrystalline 8 mol.%Y ₂ O ₃ -stabilized ZrO ₂ by high-frequency induction heating method. 2006 , 12, 393-398	34
762	Bulk nanocrystalline aluminum 5083 alloy fabricated by a novel technique: Cryomilling and spark plasma sintering. 2006 , 37, 2569-2579	77
761	Tribological study of WC produced by plasma pressure compaction. 2006 , 24, 183-188	8
760	Rapid sintering of ultrafine WC/Ni cermets. 2006 , 24, 427-431	72
759	Mechanical properties of binder-free single-walled carbon nanotube solids. 2006 , 54, 299-303	14
758	Fabrication of dense bulk nano-Si ₃ N ₄ ceramics without secondary crystalline phase. 2006 , 54, 615-619	31
757	Fast low-temperature consolidation of bulk nanometric ceramic materials. 2006 , 54, 823-828	255
756	Microstructure and mechanical properties of an HfB ₂ +30vol.% SiC composite consolidated by spark plasma sintering. 2006 , 100, 513-519	81
755	Synthesis of bulk MgB ₂ superconductors by pulsed electric current. 2006 , 52, 2618-2626	11
754	Nanostructured coatings on advanced carbon materials. 2006 , 260-284	1
753	Route to the Synthesis of Binder-Free SWCNT Solids with Enhanced Mechanical Properties. 2006 ,	
752	Preparation of textured zinc oxide ceramics by extrusion and spark plasma sintering. 2006 , 105, 265-269	6
751	Spark Plasma Synthesis/Sintering of Dense Ceramic, Intermetallic and Composite Materials. 2006 , 45, 1411-1416	
750	Densification Mechanism of Fine Ni-20Cr Powder during Pulsed Electric Current Sintering. 2006 , 510-511, 818-821	3

749	Synthesis of FeAl Hetero-Nanostructured Bulk Parts via Spark Plasma Sintering of Milled Powder. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 980, 10		
748	Characterization of densified fully stabilized nanometric zirconia by positron annihilation spectroscopy. 2006 , 99, 024313		20
747	Single-walled carbon nanotube-derived novel structural material. 2006 , 21, 1537-1542		28
746	Microstructure of WC in WC-Co cemented carbides consolidated by electric discharge. 2007 , 23, 627-629		6
745	Spark plasma sintering of pure aluminium powder: mechanical properties and fracture analysis. 2007 , 50, 40-45		52
744	Densification and Thermal Conductivity of Y ₂ O ₃ -Doped AlN Ceramics by Spark Plasma Sintering. 2007 , 352, 227-231		2
743	Effect of TeI ₄ Content on Thermoelectric Properties of N-Type Bi ₂ (Te,Se) ₃ Materials Prepared by Spark Plasma Sintering. 2007 , 280-283, 393-396		1
742	Near Full Density Nano Iron-Based Materials by Pulse Current Sintering. 2007 , 353-358, 2143-2146		1
741	Spark Plasma Sintering of CBN-WC-10Co Composites. 2007 , 336-338, 1053-1055		7
740	Consolidation and Properties of Tungsten Carbide Target with Low Cobalt Content by Hot-Press Sintering. 2007 , 351, 98-102		0
739	Pulsed Electric Current Sintering of Nano-Crystalline Iron-Base Powders. 2007 , 534-536, 589-592		
738	Densification and microstructure development in spark plasma sintered WC-B wt% ZrO ₂ nanocomposites. 2007 , 22, 1491-1501		37
737	Microstructure and Mechanical Properties of Porous Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ Bulk Metallic Glass Fabricated by Spark Plasma Sintering Process. <i>Materials Transactions</i> , 2007 , 48, 1589-1594	1.3	12
736	Synthesis of WC-W ₂ C Composite Ceramics by Reactive Resistance-Heated Hot Pressing and their Mechanical Properties. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2007 , 54, 281-286	0.2	8
735	Mechanical Properties of Single-Walled Carbon Nanotube Solids Prepared by Spark Plasma Sintering. 2007 , 1, 854-863		
734	Study on bulk Sm ₂ Fe ₁₇ Nx sintered magnets prepared by spark plasma sintering. 2007 , 50, 215-218		22
733	Effect of annealing treatment on thermoelectric properties of n-type Bi-Te-Se sintered materials. 2007 ,		
732	Bulk FeAl nanostructured materials obtained by spray forming and spark plasma sintering. 2007 , 434-435, 358-361		24

731	The mechanisms of microstructure formation in a nanostructured oxide dispersion strengthened FeAl alloy obtained by spark plasma sintering. 2007 , 15, 108-118			79
730	Microstructure and magnetic properties of NdFeB magnet prepared by spark plasma sintering. 2007 , 15, 1483-1488			36
729	Microstructure and mechanical properties of mechanically alloyed and spark plasma sintered amorphous/nanocrystalline Al ₆₅ Cu ₂₀ Ti ₁₅ intermetallic matrix composite reinforced with TiO ₂ nanoparticles. 2007 , 15, 1595-1605			33
728	Consolidation of Ultrafine Binderless Cemented Carbide by Spark Plasma Sintering. 2007 , 14, 82-84			5
727	Consolidation/microstructure/property relationships in bulk nanoceramics and ceramic nanocomposites: a review. 2007 , 52, 257-288			134
726	Consolidation enhancement in spark-plasma sintering: Impact of high heating rates. 2007 , 102, 1149-13			183
725	Efficient Synthesis/Sintering Routes To Obtain Fully Dense Ultra-High-Temperature Ceramics (UHTCs). 2007 , 46, 9087-9096			28
724	SPS Effect on Solid Solution Formation between Barium and Strontium Titanates. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2007 , 54, 146-151	0.2		
723	Consolidation of Ultrafine Alumina Powders with SPS Method. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2007 , 54, 219-225	0.2	20	
722	Transparent Nanometric Cubic and Tetragonal Zirconia Obtained by High-Pressure Pulsed Electric Current Sintering. 2007 , 17, 3267-3273			190
721	Modeling of SPS apparatus: Temperature, current and strain distribution with no powders. 2007 , 53, 703-719			50
720	Influence of texture on electrical properties of ZnO ceramics prepared by extrusion and spark plasma sintering. <i>Ceramics International</i> , 2007 , 33, 107-114	5.1	17	
719	In situ synchrotron investigation of MoSi ₂ formation mechanisms during current-activated SHS sintering. 2007 , 55, 6051-6063			21
718	Hardness and wear resistance of carbon nanotube reinforced Cu matrix nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 46-50	5.3	123	
717	Densification behavior of iron powder during cold stepped compaction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 359-366	5.3	9	
716	Microstructure characterization of bulk nanocrystalline Fe _{0.8} C alloy produced by mechanical milling and spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 456, 20-27	5.3	30	
715	Physicochemical differences after densifying radio frequency plasma sprayed hydroxyapatite powders using spark plasma and conventional sintering techniques. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 457, 24-32	5.3	17	
714	Densification mechanisms in spark plasma sintering of nanocrystalline ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 443, 25-32	5.3	250	

713	Spark plasma sintering: A high strain rate low temperature forming tool for ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 463, 89-93	53	45
712	Fabrication of bulk anatase TiO ₂ by the spark plasma sintering method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 721-726	53	19
711	Spark plasma sintering of cobalt ferrite nanopowders prepared by coprecipitation and hydrothermal synthesis. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 921-926	6	72
710	Self-propagating high-temperature synthesis of barium titanate and subsequent densification by spark plasma sintering (SPS). <i>Journal of the European Ceramic Society</i> , 2007 , 27, 2245-2253	6	38
709	Rapid formation of Bialon during spark plasma sintering: Its origin and implications. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 2541-2547	6	33
708	Microwave dielectric properties of nanocrystalline TiO ₂ prepared using spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 2937-2940	6	27
707	Influence of CeO ₂ Reduction on the Microstructure and Mechanical Properties of Pulsed Electric Current Sintered Y ₂ O ₃ /CeO ₂ Co-Stabilized ZrO ₂ Ceramics. 2007 , 90, 1420-1426		14
706	Properties of NbC/TiO ₂ cermets obtained by spark plasma sintering. 2007 , 61, 574-577		29
705	Rapid fabrication of Ti ₃ SiC ₂ /BiC nanocomposite using the spark plasma sintering-reactive synthesis (SPS-RS) method. 2007 , 56, 241-244		74
704	A low-temperature high-strain-rate formable nanocrystalline superplastic ceramic. 2007 , 56, 1103-1106		28
703	Processing dense hetero-nanostructured metallic materials by spark plasma sintering. 2007 , 57, 525-528		44
702	Electron backscattering diffraction analysis of mechanically milled and spark plasma sintered pure aluminium. 2007 , 57, 719-722		44
701	. 2007 , 43, 3494-3496		12
700	Effect of liquid phase on densification in electric-discharge compaction. 2007 , 42, 7787-7793		9
699	Sintering of ultra-fine tetragonal yttria-stabilized zirconia ceramics. 2007 , 42, 9409-9414		5
698	Superconductivity of YBCO Thick Films Prepared by Spark Plasma Sintering. 2007 , 36, 1252-1257		5
697	Fabrication and property of high-performance Ag-Pb-Sb-Te system semiconducting thermoelectric materials. 2007 , 52, 990-996		10
696	Fabrication of dense ultrafine TiAl alloys by spark plasma synthesis from mechanically activated powders. 2007 , 22, 408-411		1

695	Chemical analysis of silica doped hydroxyapatite biomaterials consolidated by a spark plasma sintering method. 2007 , 101, 187-95		85
694	Structural characterization and frictional properties of carbon nanotube/alumina composites prepared by precursor method. 2008 , 148, 265-269		61
693	Microstructure and properties of Ti ₃ SiC ₂ /SiC nanocomposites fabricated by spark plasma sintering. 2008 , 68, 499-505		52
692	Properties of mechanically milled and spark plasma sintered Al ₁₅ at.% MgB ₂ composite materials. 2008 , 68, 888-895		23
691	Sintering of nanosized tungsten carbide produced by gas phase synthesis. <i>Powder Metallurgy and Metal Ceramics</i> , 2008 , 47, 669-673	0.8	5
690	Grain-size effects on the hardness of nanograin BaTiO ₃ ceramics. 2008 , 21, 238-241		15
689	Spark Plasma synthesis and diffusion of Cu and Ag in vanadium mixed valence oxides. 2008 , 43, 6391-6399		3
688	Thermal and mechanical properties of uranium nitride prepared by SPS technique. 2008 , 43, 6429-6434		42
687	Effect of pulsed DC current on atomic diffusion of Nb diffusion couple. 2008 , 43, 6400-6405		39
686	Effects of microstructure modification on properties of AlN/BN composites. 2008 , 23, 121-124		4
685	Effects of scale combination and contact condition of raw powders on SPS sintered near-nanocrystalline WC-Co alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 473, 323-329	5.3	65
684	Continuous functionally graded boron carbide-aluminum nanocomposites by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 493, 251-255	5.3	30
683	Processing-structure-property aspects of particulate- and whisker-reinforced titanium matrix composites. 2008 , 68, 583-601		348
682	Spark plasma sintering technique for reaction sintering of Al ₂ O ₃ /Ni nanocomposite and its mechanical properties. <i>Ceramics International</i> , 2008 , 34, 213-217	5.1	41
681	Sintering of binderless WC-Mo ₂ C hard materials by rapid sintering process. <i>Ceramics International</i> , 2008 , 34, 1419-1423	5.1	49
680	Experiments and modeling of spark plasma sintered, functionally graded boron carbide-aluminum composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 488, 333-338	5.3	31
679	A microstructure study of nanostructured Fe-Mo+1.5wt.%SiO ₂ and +1.5wt.%TiO ₂ powders compacted by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 496, 121-132	5.3	11
678	A novel functionally graded material in the ZrB ₂ -SiC and ZrO ₂ system by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 498, 437-441	5.3	37

677	Load dependent fretting wear properties of 3Y-TZP nanoceramics. 2008 , 61, 145-149	
676	Pressureless Rapid Sintering of UO ₂ Assisted by High-frequency Induction Heating Process. 2008 , 91, 3202-3206	11
675	Consolidation of binderless WC ₁₂ /TiC by high frequency induction heating sintering. 2008 , 26, 48-54	89
674	Microstructure evolution and phase transformation during spark plasma sintering of Ti(C,N)-based cermets. 2008 , 26, 306-311	17
673	Influence of spark plasma sintering temperature on electrochemical performance of La _{0.80} Mg _{0.20} Ni _{3.75} alloy. 2008 , 112, 596-602	20
672	Dense nanostructured solid electrolyte with high Li-ion conductivity by spark plasma sintering technique. 2008 , 43, 2334-2341	71
671	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
670	Combination of SHS and SPS Techniques for fabrication of fully dense ZrB ₂ -ZrC-SiC composites. 2008 , 62, 432-435	101
669	A new way to make solid state chemistry: Spark plasma synthesis of copper or silver vanadium oxide bronzes. 2008 , 10, 976-981	29
668	Dimethylformamide: an effective dispersant for making ceramic-carbon nanotube composites. 2008 , 19, 1957-10	103
667	The absence of plasma in Spark plasma sintering 2008 , 104, 033305	123
666	Mechanical properties and structural characterization of carbon nanotube/alumina composites prepared by precursor method. 2008 , 17, 1554-1557	26
665	A novel structure for carbon nanotube reinforced alumina composites with improved mechanical properties. 2008 , 19, 315708	195
664	Synthesis of Al ₃ BC from mechanically milled and spark plasma sintered Al/MgB ₂ composite materials. 2008 , 457, 209-215	22
663	Effect of VC addition on sinterability and microstructure of ultrafine Ti(C, N)-based cermets in spark plasma sintering. 2008 , 460, 453-459	32
662	Effect of sintering on microstructure and mechanical properties of nano-TiO ₂ dispersed Al ₆₅ Cu ₂₀ Ti ₁₅ amorphous/nanocrystalline matrix composite. 2008 , 460, 320-325	25
661	Mechanism of Sintering YAG/ZrB ₂ Multiphase Ceramics with Spark Plasma Sintering. 2008 , 23, 475-478	7
660	Large-size ultrahigh strength Ni-based bulk metallic glassy matrix composites with enhanced ductility fabricated by spark plasma sintering. 2008 , 92, 121907	40

659	Enhancement of thermoelectric properties of sputtered BiSbTe thin films by electric current stressing. 2008 , 93, 042103		29
658	Effect of YAG Content on the Properties of YAG:ZrB ₂ Ceramics. 2008 , 23, 834-837		3
657	Synthesis of W ₂ C by Reactive Hot Pressing and Its Mechanical Properties. <i>Materials Transactions</i> , 2008 , 49, 1256-1261	1.3	46
656	Influence of pulsed DC current and electric field on growth of carbide ceramics during spark plasma sintering. 2008 , 116, 1187-1192		23
655	Enhanced Growth of Mo ₂ C formed in Mo-C Diffusion Couple by Pulsed DC Current. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2008 , 55, 643-650	0.2	11
654	Effect of Internal Current for the Structure Formation of Specimen in Spark Plasma Sintering Process. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2009 , 56, 744-751	0.2	2
653	Synthesis and characterization of precipitation hardened amorphous matrix composite by mechanical alloying and pulse plasma sintering of Al ₆₅ Cu ₂₀ Ti ₁₅ . 2009 , 89, 1051-1061		8
652	Current-induced thermal stresses in a metal cylinder. 2009 , 106, 113536		5
651	EFFECT OF SURFACE MODIFICATION ON THE PROPERTIES OF YAG:ZrB ₂ CERAMICS. 2009 , 16, 281-286		
650	Microstructure Characterization of the Cu-Ti-C Composites Prepared by Mechanical Alloying and Spark Plasma Sintering. 2009 , 610-613, 629-634		3
649	The synthesis and consolidation of hard materials by spark plasma sintering. 2009 , 27, 367-375		93
648	Spark Plasma Sintering as a Useful Technique to the Nanostructuration of Piezo-Ferroelectric Materials. 2009 , 11, 615-631		140
647	The dynamic properties of SiCp/Al composites fabricated by spark plasma sintering with powders prepared by mechanical alloying process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 527, 218-224	5.3	40
646	Observation of internal pulsed current flow through the ZnO specimen in the spark plasma sintering method. 2009 , 44, 1641-1651		34
645	Low-temperature sintering of ZrW ₂ O ₈ :SiO ₂ by spark plasma sintering. 2009 , 44, 855-860		16
644	Effect of green density and electric field direction on densification of YAG nano-powders by spark plasma sintering. 2009 , 44, 2063-2068		13
643	The Effect of High-Pressure Sintering Process on the Microstructure and Thermoelectric Properties of CoSb ₃ . 2009 , 38, 1194-1199		4
642	Spark Plasma Sintering of Sol-Gel Derived Amorphous ZrW ₂ O ₈ Nanopowder. 2009 , 92, 32-35		16

641	A Screening Design Approach for the Understanding of Spark Plasma Sintering Parameters: A Case of Translucent Polycrystalline Undoped Alumina. 2009 , 7, 574-586		14
640	Studies on laser sintering of mechanically alloyed Al ₅₀ Ti ₄₀ Si ₁₀ composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 501, 242-247	5.3	23
639	Microstructure and mechanical properties of nanocrystalline high strength Al/Mg/Si (AA6061) alloy by high energy ball milling and spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 527, 292-296	5.3	37
638	Simulation of thermal and electric field evolution during spark plasma sintering. <i>Ceramics International</i> , 2009 , 35, 699-708	5.1	95
637	Hydrogen storage properties of Mg ₈₀ vol.%V _{7.4} Zr _{7.4} Ti _{7.4} Ni composite prepared by spark plasma sintering. 2009 , 34, 4365-4370		4
636	Improving hydrogen storage properties of Laves phase related BCC solid solution alloy by SPS preparation method. 2009 , 34, 8597-8602		21
635	Pt-modified Ni aluminides, MCrAlY-base multilayer coatings and TBC systems fabricated by Spark Plasma Sintering for the protection of Ni-base superalloys. 2009 , 204, 771-778		35
634	Spark plasma sintering of lead phosphovanadate Pb ₃ (VO ₄) _{1.6} (PO ₄) _{0.4} . <i>Journal of the European Ceramic Society</i> , 2009 , 29, 1477-1484	6	23
633	Influence of green state processes on the sintering behaviour and the subsequent optical properties of spark plasma sintered alumina. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 3363-3370		41
632	Consolidation of hydrogenation-disproportionation-desorption-recombination processed Nd-Fe-B magnets by spark plasma sintering. 2009 , 321, 3681-3686		17
631	Fabrication and properties of TiC-based cermet with intra/intergranular microstructure. 2009 , 30, 1205-1208		20
630	Combination of hot extrusion and spark plasma sintering for producing carbon nanotube reinforced aluminum matrix composites. 2009 , 47, 570-577		470
629	Processing Dense Hetero-Nanostructured Metallic Materials for Improved Strength/Ductility Balance through High Strain Deformation and Electrical Current Assisted Sintering (ECAS). 2009 , 633-634, 559-567		1
628	Dual phase metallic glassy composites with large-size and ultra-high strength fabricated by spark plasma sintering. 2009 , 17, 512-516		25
627	Effects of element proportions on microstructures of Nb/Nb ₅ Si ₃ in situ composites by spark plasma sintering. 2009 , 471, 404-407		21
626	Hydrogen storage performance of Mg-based composites prepared by spark plasma sintering. 2009 , 486, 338-342		16
625	Mechanical Properties of Nanocomposite Materials. 2009 , 127-172		4
624	Magnetic properties and structure of bulk nanocrystalline Sm(CoCuFeZr) _{7.6} sintered magnet. 2009 , 105, 07A707		2

623	Nanostructured Al-Zn-Mg-Cu alloy synthesized by cryomilling and spark plasma sintering. 2009 , 19, 1110-1115	24
622	Preparation and crystal growth of Na ₂₄ Si ₁₃₆ . 2009 , 131, 9642-3	82
621	Densification of Gas Atomized Ni-Based Metallic Glassy Powders by Spark Plasma Sintering. <i>Materials Transactions</i> , 2009 , 50, 1273-1278	1.3 12
620	Microstructures and mechanical properties of TiN-TiB ₂ -Ti ₅ Si ₃ composites in-situ fabricated by spark plasma sintering. 2009 , 117, 1085-1088	1
619	Fabrication and Surface Modification of Porous Nano-Structured NiTi Orthopedic Scaffolds for Bone Implants. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1181, 7	1
618	Mechanical properties and machinability of AlN-hBN ceramics prepared by spark plasma sintering. 2009 , 117, 1028-1031	5
617	From Conventional to Fast Sintering of Zirconia Toughened Alumina Nanocomposites. 2009 , 91-102	1
616	Effects of Microstructure on Mechanical Properties of Hyper Eutectic Al-Si Alloy Produced by Spark Plasma Sintering. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2009 , 56, 758-762	0.2 3
615	Spark plasma sintering of gas atomized Al ₈₇ Ni ₈ La ₅ amorphous powder. 2009 , 144, 012079	5
614	Production of high-strength Al ₈₅ Y ₈ Ni ₅ Co ₂ bulk alloy by spark plasma sintering. 2010 , 240, 012155	2
613	Densification of TiO ₂ Nanopowders by Magnetic Pulsed Compaction. <i>Materials Transactions</i> , 2010 , 51, 578-581	1.3 7
612	Aluminum Nitride Multi-Walled Nanotube (MWNTs) Nanocomposite by Direct In-situ Growth of CNTs on Aluminum Nitride Particles. 2010 , 189-204	2
611	Spark plasma sintering of self-doped alumina powders. 2010 , 101, 106-111	
610	Comparison of space- and ground-grown Bi ₂ Se _{0.21} Te _{2.79} thermoelectric crystals. 2010 , 312, 775-780	23
609	Spark plasma sintering behavior of pure aluminum depending on various sintering temperatures. 2010 , 16, 71-75	47
608	Effects of silver powder particle size on the microstructure and properties of Ag-Yb ₂ O ₃ electrical contact materials prepared by spark plasma sintering. 2010 , 29, 366-370	3
607	Spark plasma sintering for multi-scale surface engineering of materials. 2010 , 62, 65-71	12
606	Low temperature synthesis of Bi ₂ Te ₃ nanosheets and thermal conductivity of nanosheet-contained composites. 2010 , 121, 138-141	8

605	Intergranular aluminaSiC micro-nanocomposites sintered by spark plasma sintering. 2010 , 124, 377-379		14
604	Effect of sintering temperature on thermoelectric properties of La-doped SrTiO ₃ ceramics prepared by sol-gel process and spark plasma sintering. 2010 , 12, 1341-1346		53
603	Densification behaviour of pure molybdenum powder by spark plasma sintering. 2010 , 28, 550-557		51
602	Bulk Nanostructured Materials: Non-Mechanical Synthesis. 2010 , 12, 666-676		3
601	Electrically conductive aluminaCarbon nanocomposites prepared by Spark Plasma Sintering. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 153-157	6	90
600	Fast bonding SiAlON ceramics by spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 2683-2689	6	34
599	Constitutive modelling and mechanical characterization of aluminium-based metal matrix composites produced by spark plasma sintering. 2010 , 42, 548-558		18
598	Densification of nanocrystalline NiO ceramics by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 462-468	5.3	17
597	Densification and microstructures of PbTiO ₃ ceramics prepared by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5157-5160	5.3	24
596	Study on microstructure and thermal conductivity of Spark Plasma Sintering AlN ceramics. 2010 , 31, 4110-4115		22
595	Structure and mechanical properties of AlNiTi amorphous powder consolidated by pressure-less, pressure-assisted and spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 3757-3763	5.3	53
594	Study of rare-earth oxide sintering additive systems for Spark Plasma Sintering AlN ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5268-5272	5.3	14
593	Investigation of carbon nanotube reinforced aluminum matrix composite materials. 2010 , 70, 546-550		186
592	Synthesis of the MAX Phases by Pulse Discharge Sintering. 2010 , 7, 704-718		36
591	Blue-emitting AlN:Eu ²⁺ Powder Phosphor Prepared by Spark Plasma Sintering. 2010 , 93, 356-358		20
590	Enhancing the Densification of Nanocrystalline TiO ₂ by Reduction in Spark Plasma Sintering. 2010 , 93, 993-997		11
589	Microstructure and Mechanical Properties of Spark Plasma Sintered TaC _{0.7} Ceramics. 2010 , 93, 2945-2947		46
588	Development of Translucent Oxyapatite Ceramics by Spark Plasma Sintering. 2010 , 93, 3060-3063		5

587	Mechanically Alloyed and Spark Plasma Sintered Aluminium/Precious Metal Oxide Composite Materials. 2010 , 638-642, 1824-1829	
586	Influence of Internal Pulsed Current on the Sintering Behavior of Pulsed Current Sintering Process. 2010 , 638-642, 2109-2114	7
585	Luminescence Properties of Eu[sup 2+]-Doped Ca-BiAlON Synthesized by Spark Plasma Sintering. 2010 , 157, J297	14
584	Thermal Barrier Systems and Multi-Layered Coatings Fabricated by Spark Plasma Sintering for the Protection of Ni-Base Superalloys. 2010 , 654-656, 1826-1831	10
583	Fundamentals and applications of field/current assisted sintering. 2010 , 249-275e	3
582	Reactive Spark Plasma Sintering of Si3N4 Based Composites. 2010 , 62, 185-190	2
581	Ti3SiC2/(Ti3SiC2SiC) functionally graded materials by spark plasma sintering reactive synthesis method Part 2 I fabrication and characterization. 2010 , 25, 283-288	1
580	Nanostructured materials for thermoelectric applications. 2010 , 46, 8311-24	171
579	Zintl Clathrates. 2010 , 97-142	85
578	Electric current enhanced defect elimination in thermally annealed BiSbTe and BiSeTe thermoelectric thin films. 2010 , 108, 053711	20
577	Microstructure and mechanical properties of crystalline particulates dispersed Ni-based metallic glassy composites fabricated by spark plasma sintering. 2010 , 18, 851-858	24
576	Cu particulate dispersed Cu50Zr45Al5 bulk metallic glassy composite with enhanced electrical conductivity. 2010 , 18, 1973-1977	18
575	On the processing of hetero-nanostructured metals for improved strength/ductility balance by ECAE and SPS techniques. 2010 , 504, S456-S459	17
574	Spark plasma sintering of in situ and ex situ iron-based amorphous matrix composites. 2010 , 497, 121-126	31
573	Evolution of texture and microstructure in pulsed electro-deposited Cu treated by Surface Mechanical Attrition Treatment (SMAT). 2010 , 504, S410-S413	27
572	Effect of ethanol on the formation and properties of a CuNbC composite. 2010 , 503, 228-232	19
571	Microstructure and properties of ultra-fine tungsten heavy alloys prepared by mechanical alloying and electric current activated sintering. 2010 , 20, 443-449	21
570	Electrical properties of multiferroic BiFeO3ceramics synthesized by spark plasma sintering. 2010 , 43, 445403	133

- 569 On the Superconductivity and Mg Outdiffusion in Vacuum-Synthesized MgB_2 Samples. **2010**, 20, 2390-2396 7
- 568 Yttria Dispersion Strengthened Nickel-based Superalloy by Mechanical Alloying. **2011**, 70, 125-130 2
- 567 Microstructure Development and Properties of Non-Oxide Ceramic Nanocomposites. **2011**, 366-390
- 566 Investigation on the Bonding Mechanism of M42 Powder High-Speed Steel and 45 Steel. **2011**, 217-218, 243-248
- 565 Microstructure and Mechanical Properties of Nanocrystalline FeCr Alloy Prepared by Spark Plasma Sintering. **2011**, 52-54, 2197-2202 3
- 564 Microstructure and thermal conductivity of spark plasma sintering AlN ceramics. **2011**, 27, 513-517 5
- 563 Fundamental Investigations of Reactivity and Densification in the SPS. *Ceramic Transactions*, **2011**, 37-49.1
- 562 Microstructure and property evolution of isotropic and anisotropic NdFeB magnets fabricated from nanocrystalline ribbons by spark plasma sintering and hot deformation. **2011**, 44, 025003 39
- 561 Production of Cu/diamond composites for first-wall heat sinks. **2011**, 86, 2589-2592 23
- 560 Investigation of the sintering pressure and thermal conductivity anisotropy of melt-spun spark-plasma-sintered $(\text{Bi,Sb})_2\text{Te}_3$ thermoelectric materials. **2011**, 26, 1791-1799 48
- 559 Thermoelectric and transport properties of nanostructured Bi_2Te_3 by spark plasma sintering. **2011**, 26, 475-484 34
- 558 Formation and properties of two-phase bulk metallic glasses by spark plasma sintering. **2011**, 509, S214-S218 14
- 557 Synthesis and consolidation of TiN/TiB₂ ceramic composites via reactive spark plasma sintering. **2011**, 509, 1601-1606 27
- 556 Microstructural and mechanical evaluation of Al/TiB₂ nanostructured composite fabricated by mechanical alloying. **2011**, 509, 7758-7763 71
- 555 Microstructure and mechanical properties of SiC-nanowire-augmented tungsten composites. **2011**, 509, 9060-9064 18
- 554 Dielectric investigation of $\text{MIIMIV}(\text{PO}_4)_2$ double orthophosphates (MI = Ca, Sr, Ba, Pb; MIV = Ti, Zr, Hf, Ge, Sn). **2011**, 509, 9127-9132 14
- 553 Effect of Spark Plasma Sintering in Fabricating Carbon Nanotube Reinforced Aluminum Matrix Composite Materials. **2011**, 2
- 552 Overview: Nanoceramic Composites. **2011**, 305-324

551	Fabrication of Composite Materials Using Coal Ash and Aluminum Sludge by Spark Plasma Sintering. 2011 , 5, 967-977		3
550	Fabrication and Densification Behavior Analysis of Metalizing Targets Using ZrO ₂ Nanopowders by Magnetic Pulsed Compaction. <i>Materials Transactions</i> , 2011 , 52, 1156-1162	1.3	18
549	Case Study: Nanostructured Tungsten Carbide/Zirconia Nanocomposites. 2011 , 338-350		
548	Electric Current Activation of Sintering: A Review of the Pulsed Electric Current Sintering Process. 2011 , 94, 1-19		472
547	Spark Plasma Sintering Kinetics of Pure α -Alumina. 2011 , 94, 2825-2833		48
546	Transparent Barium Strontium Titanate Ceramics Prepared by Spark Plasma Sintering. 2011 , 94, 1343-1345		20
545	High Temperature Mechanical Properties of Dense AlN/SiC Ceramics Fabricated by Spark Plasma Sintering Without Sintering Additives. 2011 , 94, 4150-4153		11
544	Nanostructured Spark Plasma Sintered Ce-TZP Ceramics. 2011 , 95, n/a-n/a		2
543	Enhanced magnetic properties in Nd-Fe-B magnets prepared by spark plasma sintering via die-upsetting process. 2011 , 29, 660-663		15
542	Fabrication of Ultra-fine Grain Tungsten by Combining Spark Plasma Sintering with Resistance Sintering under Ultra High Pressure. 2011 , 40, 4-8		18
541	Spark plasma sintering of Al ₂ O ₃ /BN composites facilitated by Ni nanoparticle precipitation on cBN powder by rotary chemical vapor deposition. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 2083-2087 ^{6,37}		
540	Influence of pulse current during Spark Plasma Sintering evidenced on reactive alumina/hematite powders. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 2247-2254	6	16
539	Microstructure evolution during field-assisted sintering of zirconia spheres. 2011 , 65, 683-686		25
538	Spark Plasma co-Sintering of hot work and high speed steel powders for fabrication of a novel tool steel with composite microstructure. 2011 , 214, 292-299		22
537	Magnetic Characterization of MgB ₂ Bulk Superconductor for Magnetic Field Mitigation Solutions. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011 , 24, 307-312	1.5	10
536	Field assisted sintering of nanocrystalline titanium nitride powder. <i>Powder Metallurgy and Metal Ceramics</i> , 2011 , 50, 157-166	0.8	7
535	Microstructure and mechanical properties of Al ₃ Si ₂ Ni ₂ Te alloys prepared by gas-atomization spark plasma sintering and hot-extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5764-5771	5.3	13
534	Thermal stability of carbon nanotubes, fullerene and graphite under spark plasma sintering. 2011 , 510, 109-114		33

533	Initial stage sintering of binderless tungsten carbide powder under microwave radiation. <i>Ceramics International</i> , 2011 , 37, 505-512	5.1	51
532	Effect of Fe ₂ O ₃ on properties and densification of 8YSZ by pulsed current activated sintering. 2011 , 7, 133-137		15
531	Fabrication of single crystalline diamond reinforced aluminum matrix composite by powder metallurgy route. 2011 , 17, 755-763		15
530	Nanostructured Ti Consolidated via Spark Plasma Sintering. 2011 , 42, 964-973		33
529	Production of Nitinol Wire from Elemental Nickel and Titanium Powders Through Spark Plasma Sintering and Extrusion. 2011 , 20, 757-761		8
528	Structure characterization of spark plasma sintered alumina by positron annihilation lifetime spectroscopy. 2011 , 208, 795-802		8
527	Mechanism of Chromium Oxide Formation in Cobalt-Chromium-Molybdenum (F75) Alloys Prepared Using Spark Plasma Sintering. 2011 , 13, 411-417		7
526	Preparation of Eu ²⁺ -doped AlN phosphors by plasma activated sintering. <i>Ceramics International</i> , 2011 , 37, 2051-2054	5.1	18
525	Spark plasma sintering of alumina: Study of parameters, formal sintering analysis and hypotheses on the mechanism(s) involved in densification and grain growth. 2011 , 59, 1400-1408		134
524	Synthesis and magnetic properties of hard magnetic (CoFe ₂ O ₄)-soft magnetic (Fe ₃ O ₄) nano-composite ceramics by SPS technology. 2011 , 323, 1811-1816		62
523	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
522	Local Magnetic Investigations of MgB_2 Bulk Samples for Magnetic Shielding Applications. 2011 , 21, 3146-3149		12
521	Bulk Metallic Glassy Composites with Excellent Electrical Conductivity and Enhanced Plasticity Fabricated by Spark Plasma Sintering. 2011 , 675-677, 197-200		2
520	Ti ₅₀ Fe ₂₅ Ni ₂₅ Amorphous Alloy Prepared by Mechanical Alloying. 2011 , 327, 76-80		
519	Synthesizing TiAl Alloy by Spark Plasma Sintering from Mechanically Activated Powders. 2011 , 233-235, 2769-2772		
518	Preparation of Dense Ultrafine TiAl Alloys by Spark Plasma Synthesis from Mechanically Activated Powders. 2011 , 217-218, 1747-1752		
517	TiAl Alloy Spark Plasma Sintered from Mechanically Activated Powders. 2011 , 284-286, 2336-2339		
516	Spark Plasma Sintering TiAl Alloy from Mechanically Activated Powders. 2011 , 250-253, 3309-3312		1

515	Ti50Fe22Ni22Sn6 Amorphous Alloy Synthesized by Mechanical Alloying and Spark Plasma Sintering. 2011 , 393-395, 485-488	
514	Crystallization Kinetics of Ti50Fe22Ni22Sn6 Amorphous Powders. 2011 , 108, 12-17	
513	Synthesis of single-phase polycrystalline Ca2Si powder and sintered compacts. 2011 , 102, 401-405	3
512	Thermal stability of nanostructured iron-chromium alloys for interconnect application of solid oxide fuel cells. 2012 , 47, 536-552	3
511	Mechanical Property and Microstructure of Ti-Ta-Ag Alloy for Biomedical Applications. 2012 , 520, 254-259	2
510	The Crystal Growth of Ti50Cu23Ni20Sn7 during the SPS Process. 2012 , 428, 190-195	1
509	Densification and Microstructure of Monolithic TiN and TiB2 Fabricated by Spark Plasma Sintering. 2012 , 508, 38-41	2
508	A New Ti-Based Amorphous Powder Synthesized by Mechanical Alloying. 2012 , 433-440, 642-645	
507	Study of effect of particle size on densification of copper during spark plasma sintering. 2012 , 55, 228-234	25
506	Properties of Si3N4/SiC composites produced via spark plasma sintering. 2012 , 103, 1337-1339	5
505	The Role of the Electric Current and Field during Pulsed Electric Current Sintering. 2012 , 43-73	5
504	Effects of enthalpy-enhancing gas on ionic conductivity of atmospheric plasma-sprayed 3.9 mol % yttria-stabilized zirconia electrolyte for 75-106 micron particles. 2012 , 120, 400-407	
503	Study on the discharge breakdown for carbonyl iron powder sintered by pulse electric current. 2012 , 27, 1434-1440	2
502	Ni-free Ti-based bulk metallic glass with potential for biomedical applications produced by spark plasma sintering. 2012 , 29, 99-103	50
501	Fabrication and spectroscopic characterization of Ce3+ doped Sr2Y8(SiO4)6O2 translucent ceramics. 2012 , 34, 1155-1160	18
500	Consolidation and synthesis of MAX phases by Spark Plasma Sintering (SPS): a review. 2012 , 47-80	16
499	Microstructure and Mechanical Properties of Ti-ZrO2 Composites Fabricated by Spark Plasma Sintering. 2012 , 520, 269-275	8
498	Hot Pressing and Spark Plasma Sintering. 2012 , 189-214	1

497	Alternative route for the preparation of CoSb ₃ and Mg ₂ Si derivatives. 2012 , 193, 109-113		17
496	SiC dispersed Fe-based glassy composite cores produced by spark plasma sintering and their high frequency magnetic properties. 2012 , 20, 76-81		20
495	Fabrication and properties of Bi ₂ Ag ₃ S ₃ thermoelectric polycrystals. 2012 , 514, 205-209		19
494	Consolidation of mechanically alloyed nanocrystalline Cu ₆₀ Nb ₄₀ Si ₂ O ₂ powder by spark plasma sintering. 2012 , 535, 62-69		8
493	Consolidation and mechanical properties of Cu ₄₆ Zr ₄₂ Al ₇ Y ₅ metallic glass by spark plasma sintering. 2012 , 358, 1263-1267		22
492	Field Assisted Sintering Mechanisms. 2012 , 159-193		4
491	Microstructure and room-temperature mechanical properties of Nb/Nb ₅ Si ₃ alloys fabricated by spark plasma sintering. 2012 , 27, 1156-1161		
490	Microstructure and mechanical properties of in-situ Al ₁₃ Fe ₄ /Al composites prepared by mechanical alloying and spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 558, 684-691	5.3	37
489	High frequency properties of Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ /Zn _{0.5} Ni _{0.5} Fe ₂ O ₄ soft magnetic composite with micro-cellular structure. 2012 , 55, 2392-2396		3
488	Zn migration during spark plasma sintering of thermoelectric Zn ₄ Sb ₃ . 2012 , 101, 043901		32
487	Advanced Sintering of Nano-Ceramic Materials. 2012 ,		2
486	Pressure-less spark plasma sintering effect on non-conventional necking process during the initial stage of sintering of copper and alumina. 2012 , 47, 5766-5773		29
485	Microstructure and mechanical properties of submicron-grained NiAl-Al ₂ O ₃ composite prepared by pulse current auxiliary sintering. 2012 , 27, 715-720		3
484	Spark Plasma Sintering and Hot Pressing of Hetero-Doped LaNbO ₄ . 2012 , 95, 1563-1571		9
483	Nano-Hafnium Diboride Powders Synthesized Using a Spark Plasma Sintering Apparatus. 2012 , 95, 1493-1496		34
482	Dense zircon (ZrSiO ₄) ceramics by high energy ball milling and spark plasma sintering. <i>Ceramics International</i> , 2012 , 38, 1793-1799	5.1	38
481	Fabrication of transparent SiO ₂ glass by pressureless sintering and spark plasma sintering. <i>Ceramics International</i> , 2012 , 38, 2673-2678	5.1	31
480	Synthesis and characterization of dense and fine nickel ferrite ceramics through two-step sintering. <i>Ceramics International</i> , 2012 , 38, 3343-3350	5.1	20

479	Structural and chemical analyses of the new ternary La ₅ MgNi ₂₄ phase synthesized by Spark Plasma Sintering and used as negative electrode material for Ni-MH batteries. 2012 , 37, 5225-5233		43
478	Effects of Enthalpy-Enhancing Gas on Ionic Conductivity of Atmospheric Plasma-Sprayed 3.9YSZ Electrolyte for SOFC Particles. 2012 , 95, 2516-2524		
477	Effect of high-frequency induction heat sintering conditions on the microstructure and mechanical properties of nanostructured magnesium/hydroxyapatite nanocomposites. 2012 , 36, 58-68		47
476	Microstructural design for mechanical and electrical properties of spark plasma sintered Al ₂ O ₃ /BiC nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 534, 693-698	5.3	17
475	Spark plasma sintering of sol-gel derived 45S5 Bioglass® -ceramics: Mechanical properties and biocompatibility evaluation. 2012 , 32, 494-502		32
474	Cobalt-based orthopaedic alloys: Relationship between forming route, microstructure and tribological performance. 2012 , 32, 1222-1229		45
473	Zirconia-zirconia (ZrSiO ₄ /ZrO ₂) dense ceramic composites by spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 787-793	6	29
472	Spark Plasma Sintering of Cryomilled Nanocrystalline Al Alloy - Part I: Microstructure Evolution. 2012 , 43, 327-339		27
471	Effect of pulsed DC current on neck growth between tungsten wires and tungsten plates during the initial stage of sintering by the spark plasma sintering method. 2012 , 47, 2201-2205		38
470	Oxidation Resistance and Magnetic Properties of SmCo _{7-x} Si _x Permanent Magnetic Alloys. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012 , 25, 131-135	1.5	9
469	Thermoelectric Nanomaterials. 2013 ,		95
468	A review of cemented carbides for rock drilling: An old but still tough challenge in geo-engineering. 2013 , 39, 61-77		97
467	Synthesis and Characterization of Spark Plasma Sintered FeAl and In situ FeAl/Al ₂ O ₃ Composite. 2013 , 66, 419-424		2
466	Solid-state bonding of alloy-designed Cu-Zn brass and steel associated with phase transformation by spark plasma sintering. 2013 , 48, 5801-5809		4
465	Production and bio-corrosion resistance of porous magnesium with hydroxyapatite coating for biomedical applications. 2013 , 108, 122-124		39
464	Effect of Heating Rate on Densification and Grain Growth During Spark Plasma Sintering of 93W-5.6Ni-1.4Fe Heavy Alloys. 2013 , 44, 4323-4336		18
463	Fracture Properties of SPS Tungsten Copper Powder Composites. 2013 , 44, 544-551		15
462	Preparation of dense 13C pellets using spark plasma sintering technique. 2013 , 17, 289-292		

461	Ultrafine binderless WC-based cemented carbides with varied amounts of AlN nano-powder fabricated by spark plasma sintering. 2013 , 41, 308-314		12
460	Effect of titanium nitride nanoparticles on grain size stabilization and consolidation of cryomilled titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 584, 88-96	53	4
459	Phase Evolution and Densification Behavior of Nanocrystalline Multicomponent High Entropy Alloys During Spark Plasma Sintering. 2013 , 65, 1797-1804		77
458	Densification of uranium dioxide fuel pellets prepared by spark plasma sintering (SPS). <i>Journal of Nuclear Materials</i> , 2013 , 435, 1-9	33	59
457	Structure and strength of aluminum with sub-micrometer/micrometer grain size prepared by spark plasma sintering. 2013 , 49, 360-367		80
456	Effects of Enthalpy-Enhancing Gas on Ionic Conductivity of Atmospheric Plasma-Sprayed 3.9YSZ Electrolyte for 45-75 μ m Particles. 2013 , 22, 1014-1023		
455	Investigation of binderless WC/TiC/CoCr3C2 hard materials prepared by spark plasma sintering (SPS). 2013 , 38, 7-14		33
454	Densification behaviour analysis of ZrO2 nanopowders for dental applications compacted by magnetic pulsed compaction. 2013 , 141, 208-215		8
453	Identification of the atomic scale structure of the La0.65Nd0.15Mg0.20Ni3.5 alloy synthesized by spark plasma sintering. 2013 , 32, 103-108		19
452	Sintering. 2013 ,		38
451	Rapid preparation and thermoelectric properties of Ba and In double-filled p-type skutterudite bulk materials. 2013 , 68, 643-646		16
450	Mechanical properties and erosion resistance of ceria nano-particle-doped ultrafine WC/Co composite prepared by spark plasma sintering. <i>Wear</i> , 2013 , 301, 406-414	35	24
449	Influence of the microstructure evolution of ZrO2 fiber on the fracture toughness of ZrB2/SiC nanocomposite ceramics. 2013 , 49, 808-813		20
448	Spark plasma sintering of antimony-doped tin oxide (ATO) nanoceramics with high density and enhanced electrical conductivityPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. 2013 , 1, 114-119		6
447	Investigation of the interfacial phases formed between carbon nanotubes and aluminum in a bulk material. 2013 , 138, 787-793		41
446	Recent development in reactive synthesis of nanostructured bulk materials by spark plasma sintering. 2013 , 39, 103-112		70
445	Enhanced thermal conductivity of uranium dioxide/silicon carbide composite fuel pellets prepared by Spark Plasma Sintering (SPS). <i>Journal of Nuclear Materials</i> , 2013 , 433, 66-73	33	79
444	Experimental and numerical investigation into the effect of carbon nanotube buckling on the reinforcement of CNT/Cu composites. 2013 , 79, 28-34		46

443	Spark plasma sintering may lead to phase instability and inferior mechanical properties: A case study with TiB ₂ . 2013 , 69, 159-164		41
442	Decoupling the effects of pressure and current in spark plasma sintering: Synthesis of Cu _{0.9} V ₂ O ₅ . 2013 , 236, 5-10		7
441	Preface and historical perspective on spark plasma sintering. 2013 , 69, 105-106		59
440	Influence of porosity on the transport properties of Bi ₂ Te ₃ -based alloys by field-assisted sintering. 2013 , 28, 1853-1861		9
439	Magnetic properties of nanocrystalline Ni ₃ Fe compacts prepared by spark plasma sintering. 2013 , 35, 98-103		17
438	Rapid processing & characterization of micro-scale functionally graded porous materials. 2013 , 213, 1251-1257		6
437	Effect of spark plasma sintering parameters on microstructure and room-temperature hardness and toughness of fine-grained boron carbide (B ₄ C). <i>Journal of the European Ceramic Society</i> , 2013 , 33, 361-369	6	86
436	A new heating route of spark plasma sintering and its effect on alumina ceramic densification. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 462-466	5-3	13
435	Processing conditions, microstructure and mechanical properties of hetero-nanostructured ODS FeAl alloys produced by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 566-573	5-3	32
434	Spark Plasma Sintering and Densification Mechanisms of Antimony-Doped Tin Oxide Nanoceramics. 2013 , 2013, 1-7		8
433	Pressure Effects on the Size of Type-I and Type-II Si-Clathrates Synthesized by Spark Plasma Sintering. 2013 , 13, 195-197		21
432	Red-Emitting (Sr,Ca)AlSiN ₃ :Eu ²⁺ +Phosphors Synthesized by Spark Plasma Sintering. 2013 , 2, R3021-R3025		30
431	Oxidation behaviour of Al enhanced stainless steel coatings produced by cryomilling and spark plasma sintering. 2013 , 52, 199-207		
430	Processing and mechanical characterisation of monolithic silicon carbide ceramic consolidated by spark plasma sintering (SPS). 2013 , 104, 1240-1246		2
429	Dielectric and ferroelectric properties of Ba _{1-x} Sr _x TiO ₃ ceramics: effects of grain size and ferroelectric domain. 2013 , 112, 270-276		14
428	Oxidation of Nb/Nb ₅ Si ₃ In Situ Composites Fabricated via Spark Plasma Sintering with Al Addition. 2013 , 376, 49-53		1
427	Fabrication of Titanium Carbonitride Based Cermets by Microwave and Spark Plasma Sintering. 2013 , 589-590, 567-571		
426	Spark Plasma Sintering of MAX Phases and Their Related Composites. 2013 , 1-33		2

425	Nanostructured Thermoelectric Materials. 2013 , 255-285		13
424	Microstructure of interface of SPS co-sintered and sinter bonded cp2-Ti and Co ₂ 8Cr ₈ Mo. 2013 , 56, 143-148		8
423	Recent Progress in Ti-Based Metallic Glasses for Application as Biomaterials. <i>Materials Transactions</i> , 2013 , 54, 1314-1323	1.3	30
422	Electric field in SPS: geometry and pulsed current effects. 2013 , 121, 524-526		14
421	Spark Plasma Sintering: A Useful Technique to Develop Large-Sized Bulk Metallic Glasses. 2013 , 02,		12
420	Cubic boron nitride-containing ceramic matrix composites for cutting tools. 2014 , 655-671		2
419	. 2014 ,		
418	Silicon Carbide- and Boron Carbide-Based Hard Materials. 2014 , 131-227		
417	Hot Pressing and Spark Plasma Sintering. 2014 , 189-214		
416	Effect of Alumina on the Structure and Mechanical Properties of Spark Plasma Sintered Boron Carbide. 2014 , 97, 3710-3718		30
415	Functional properties of a spark plasma sintered ultrafine-grained 316L steel. 2014 , 63, 633-640		43
414	Development of W-Cu-Ni Electrical Contact Materials with Enhanced Mechanical Properties by Spark Plasma Sintering Process. <i>Acta Physica Polonica A</i> , 2014 , 125, 327-330	0.6	17
413	Spark Plasma Sintering of Boron Carbide Ceramics Using Different Sample Geometries and Dimensions. <i>Acta Physica Polonica A</i> , 2014 , 125, 260-262	0.6	12
412	Automatic optimal control of Field Assisted Sintering Technology. 2014 ,		
411	Strength versus ductility in carbon nanotube reinforced nickel matrix nanocomposites. 2014 , 29, 761-769		26
410	Fe-Cr-Mo based ODS alloys via spark plasma sintering: A combinational characterization study by TEM and APT. 2014 , 49, 645-652		6
409	Cubic boron nitride-containing ceramic matrix composites for cutting tools. 2014 , 570-586		3
408	Effect of Graphene Nanoplate and Silicon Carbide Nanoparticle Reinforcement on Mechanical and Tribological Properties of Spark Plasma Sintered Magnesium Matrix Composites. 2014 , 30, 1059-1070		69

407	Core loss reduction in Fe ₈ .5 wt.%Si/SiO ₂ core-shell composites by ball milling coating and spark plasma sintering. 2014 , 617, 21-28		43
406	Consolidation by spark plasma sintering of polyimide and polyetheretherketone. 2014 , 131, n/a-n/a		15
405	Synthesis of dense yttrium-stabilised hafnia pellets for nuclear applications by spark plasma sintering. <i>Journal of Nuclear Materials</i> , 2014 , 454, 398-404	3.3	13
404	Reactive spark plasma sintering (SPS) of nitride reinforced titanium alloy composites. 2014 , 617, 933-945		37
403	Densification as an exothermic process revealed by rapid high temperature consolidation of BaTiO ₃ nanopowder. 2014 , 113, 251-256		4
402	Electric current assisted sintering of AlN ceramics: thermal conductivity and transparency. 2014 , 113, 89-93		2
401	Phase Composition and Microstructure of Binderless WC-ZrC Cemented Carbides Fabricated by Spark Plasma Sintering. 2014 , 602-603, 556-560		
400	Oxidation and erosion behaviour of SiC-HfC multilayered composite. 2014 , 8, 31-38		4
399	Cu Particulates Dispersed Bulk Metallic Glass Composites with High Strength and High Electrical Conductivity Fabricated by Spark Plasma Sintering. 2014 , 783-786, 1961-1966		2
398	Enhanced ductility in a bimodal ultrafine-grained Ti ₆ Al ₄ V alloy fabricated by high energy ball milling and spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 608, 82-89	5.3	31
397	Microstructures of Nb/Nb ₅ Si ₃ composites and it alloyed with W, Mo and W/Mo fabricated by spark plasma sintering. 2014 , 583, 574-577		14
396	Characterization of submicrometer-sized NiZn ferrite prepared by spark plasma sintering. <i>Ceramics International</i> , 2014 , 40, 6473-6479	5.1	30
395	Densification behavior of Spark Plasma Sintered La ₂ O ₃ /SZ ceramic composites. <i>Ceramics International</i> , 2014 , 40, 715-722	5.1	6
394	Thermal expansion coefficient and thermal fatigue of discontinuous carbon fiber-reinforced copper and aluminum matrix composites without interfacial chemical bond. 2014 , 49, 397-402		37
393	Microstructure of a carbon fiber-reinforced aluminum matrix composite fabricated by spark plasma sintering in various pulse conditions. 2014 , 49, 3268-3275		30
392	Enhanced Thermoelectric Performance of Nonstoichiometric Compounds Cu ₃ SbSe ₄ by Cu Deficiencies. 2014 , 43, 2229-2238		37
391	Dense mullite zirconia composites obtained from the reaction sintering of milled stoichiometric alumina zircon mixtures by SPS. <i>Ceramics International</i> , 2014 , 40, 4461-4470	5.1	23
390	Synthesis of Ultrafine Hafnium Diboride Powders Using Solution-Based Processing and Spark Plasma Sintering. 2014 , 11, 359-363		7

389	An extended hardness limit in bulk nanoceramics. 2014 , 69, 9-16		121
388	Resistance pressing sintering: A simple, economical and practical technique and its application to p-type (Bi,Sb) ₂ Te ₃ thermoelectric materials. 2014 , 607, 91-98		29
387	Advanced Usage of SPS Technology for Producing Innovative Materials. <i>Ceramic Transactions</i> , 2014 , 157-161		11
386	Spark plasma sintered/synthesized dense and nanostructured materials for solid-state Li-ion batteries: Overview and perspective. 2014 , 247, 920-931		77
385	Spark Plasma Sintering of Nanoceramic Composites. 2014 , 177-205		5
384	On Joule heating during spark plasma sintering of metal powders. 2014 , 93, 52-55		51
383	Hardness and flexural strength of single-walled carbon nanotube/alumina composites. 2014 , 49, 7116-7123		22
382	Processing and mechanical behavior of lamellar structured degradable magnesium-hydroxyapatite implants. 2014 , 40, 178-189		70
381	Influence of spark plasma sintering (SPS) processing parameters on microstructure and mechanical properties of nickel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 618, 176-181	5:3	62
380	Phase assembly and electrical conductivity of spark plasma sintered CeO ₂ /ZrO ₂ ceramics. 2014 , 49, 6353-6362		3
379	RETRACTED: Microstructures and mechanical properties of Nb/Nb ₅ Si ₃ composites alloyed with W, Mo and W/Mo fabricated by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 606, 68-73	5:3	1
378	Energy-Saving Sintering of Electrically Conductive Powders by Modified Pulsed Electric Current Heating Using an Electrically Nonconductive Die. 2014 , 45, 1680-1683		2
377	C-axis oriented γ -alumina ceramics with anisotropic ionic conductivity prepared by spark plasma sintering. 2014 , 267, 22-26		22
376	Fabrication of Ti/NbAg alloy via powder metallurgy for biomedical applications. 2014 , 56, 629-634		43
375	Sinterability of the oxynitride LaTiO ₂ N with perovskite-type structure. 2014 , 586, 567-573		14
374	Thermoelectric properties of n-type 95%Bi ₂ Te ₃ /5%Bi ₂ Se ₃ compounds fabricated by gas-atomization and spark plasma sintering. 2014 , 586, S428-S431		36
373	Structural and electrical transport properties of Se-substituted p-type Bi ₂ Se ₃ xTe ₃ (1-x) (x=0.00-1.0) alloys prepared by solid-state microwave synthesis. 2014 , 26, 379-387		7
372	Fabrication, spark plasma consolidation, and thermoelectric evaluation of nanostructured CoSb ₃ . 2014 , 612, 293-300		20

371	Effect of alumina addition on the densification of boron carbide ceramics prepared by spark plasma sintering technique. <i>Ceramics International</i> , 2014 , 40, 12723-12728	5.1	33
370	Microstructures and room temperature fracture toughness of Nb/Nb5Si3 composites alloyed with W, Mo and W/Mo fabricated by spark plasma sintering. 2014 , 604, 211-216		25
369	Fabrication of Transparent Ceramic Polycrystals by means of Spark-Plasma-Sintering (SPS) Technique. <i>Materia Japan</i> , 2014 , 53, 3-10	0.1	1
368	Carbon-Dispersed WC–FeAl Hard Material Fabricated by Mechanical Milling and Subsequent Pulsed Current Sintering. <i>Materials Transactions</i> , 2014 , 55, 947-951	1.3	4
367	Microscopic Mechanisms of Spark Plasma Sintering in a TiAl Alloy. 2014 , 327-336		
366	Influence of Loading Condition on Fabrication of Transparent MgAl2O4 Spinel Ceramics by Spark-Plasma-Sintering (SPS) Technique. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2014 , 61, 565-574	0.2	
365	A combined metal-halide/metal flux synthetic route towards type-I clathrates: crystal structures and thermoelectric properties of A8Al8Si38 (A = K, Rb, and Cs). 2014 , 20, 15077-88		23
364	Optimization of the spark plasma sintering processing parameters affecting the properties of polyimide. 2014 , 132, n/a-n/a		4
363	Microstructure and Tribological Properties of Aluminum Matrix Composite. 2015 , 641, 30-38		3
362	lemental Ratio Controlled Semiconductor Type of Bismuth Telluride Alloy Thin Films. 2015 , 44, 3041-3044		0
361	Study and Suppression of the Microstructural Anisotropy Generated During the Consolidation of a Carbonyl Iron Powder by Field-Assisted Hot Pressing. 2015 , 46, 3192-3198		11
360	Recycling. 2015 , 658-717		
359	Densification of Commercial and Rapid Carbothermal Synthesized Boron Carbide. 2015 , 129-135		
358	Assessment of carbon contamination in MgAl2O4 spinel during spark-plasma-sintering (SPS) processing. 2015 , 123, 983-988		26
357	Spark Plasma Sintering (SPS) of Carbon Nanotube (CNT)/Graphene Nanoplatelet (GNP)-Nickel Nanocomposites: Structure Property Analysis. 2015 , 53-79		
356	Titanium Powders via Gas-Solid Direct Reaction Process and Mechanical Properties of Their Extruded Materials. <i>Materials Transactions</i> , 2015 , 56, 1153-1158	1.3	23
355	Diamond synthesis from carbon nanofibers at low temperature and low pressure. 2015 , 5, 13879		20
354	High Energy X-ray and Neutron Scattering on Bi2Te3 Nanowires, Nanocomposites, and Bulk Materials. 2015 , 119-139		

- 353 Microstructure and Mechanical Properties of TiB-Ti/Ti-6Al-4V Composites Fabricated by Spark Plasma Sintering. **2015**, 782, 107-112
- 352 Cube Texture Formation in Ni-8at.%W Alloy Substrates Effected by the Initial Grain Size of Ingot. **2015**, 1105, 195-199
- 351 . **2015**, 3
- 350 Hot Pressed Pr₂(Fe,Co)₁₄B/PrCo₅ Hybrid Magnet Prepared by Spark Plasma Sintering. **2015**, 6, 1-4 4
- 349 Preparation and Characterization of Amorphous Al-Based Metal Foams. **2015**, 816, 682-687
- 348 Intensive particle rearrangement in the early stage of spark plasma sintering processPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. **2015**, 3, 183-187 13
- 347 The role of nanoscale defect features in enhancing the thermoelectric performance of p-type nanostructured SiGe alloys. **2015**, 7, 12474-83 66
- 346 Obtaining highly dense YSZ nanoceramics by pressureless, unassisted sintering. **2015**, 60, 353-375 27
- 345 Preparation of phase pure, dense fine grained ceramics by conventional and spark plasma sintering of La-substituted BiFeO₃ nanoparticles. *Journal of the European Ceramic Society*, **2015**, 35, 2283-2293 6 20
- 344 Contamination during the high-energy milling of atomized copper powder and its effects on spark plasma sintering. **2015**, 275, 51-59 25
- 343 Giant enhancement in thermoelectric performance of copper selenide by incorporation of different nanoscale dimensional defect features. **2015**, 13, 36-46 131
- 342 Influence of Spark Plasma Sintering (SPS) Conditions on Transmission of MgAl₂O₄ Spinel. **2015**, 98, 378-385 35
- 341 Microstructure and properties of carbon nanosheet/copper composites processed by particle-assisted shear exfoliation. **2015**, 5, 19321-19328 20
- 340 Rapid crystal growth of type-II clathrates A₈Na₁₆Si₁₃₆ (A = K, Rb, Cs) by spark plasma sintering. **2015**, 17, 2242-2244 9
- 339 Synthesis and rapid sintering of dense SrA(O,N)₃ (A = Mo, W) oxynitride ceramics. *Journal of the European Ceramic Society*, **2015**, 35, 3273-3281 6 3
- 338 Spark plasma sintering and hot pressing of titanium and titanium alloys. **2015**, 219-235 11
- 337 Effect of SPS parameters on densification and properties of steel matrix composites. **2015**, 26, 1152-1161 37
- 336 High-performance thermoelectric Cu₂Se nanoplates through nanostructure engineering. **2015**, 16, 367-374 169

335	Microstructure and indentation properties of ZrO ₂ /Ti functionally graded materials fabricated by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 640, 338-349	5.3	24
334	Electromigration experiments by spark plasma sintering in the silver-zinc system. 2015 , 635, 142-149		20
333	Hertzian contact damage in silicon nitride ceramics with different porosity contents. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2269-2276	6	6
332	Structure and mechanical properties of Al ₅₀ Si ₅₀ Be alloys prepared by short-term mechanical alloying and spark plasma sintering. 2015 , 75, 65-75		28
331	Thermal runaway, flash sintering and asymmetrical microstructural development of ZnO and ZnO _{0.5} Bi _{0.5} O ₃ under direct currents. 2015 , 94, 87-100		174
330	Preparation of nasal cavity-like SiC _{0.5} Bi _{0.5} N ₄ foams with a hierarchical pore architecture. 2015 , 5, 27891-27900		19
329	Fabrication of nano-grained Ti ₆₀ Nb ₄₀ Zr biomaterials using spark plasma sintering. <i>Materials and Design</i> , 2015 , 87, 693-700	8.1	86
328	Excellent strength-ductility combination in nickel-graphite nanoplatelet (GNP/Ni) nanocomposites. 2015 , 646, 135-144		52
327	Effects of passing a direct current on densification of SiC ceramics with 10 wt.% Al ₂ O ₃ - Y ₂ O ₃ as an additive. 2015 , 165, 8-13		2
326	An exploratory investigation on the in-situ synthesis of SiC/AlN/Al composites by spark plasma sintering. 2015 , 622, 458-462		19
325	Spark Plasma Sintering and Densification Mechanisms of Conductive Ceramics under Coupled Thermal/Electric Fields. 2015 , 98, 732-740		19
324	Fundamentals of sintering nanoscaled binderless hardmetals. 2015 , 49, 124-132		20
323	Effect of Spark Plasma Sintering Pressure on the Microstructure of Carbon Nanofibers. 2015 , 23, 513-517		0
322	Effect of ZrC nano-powder addition on the microstructure and mechanical properties of binderless tungsten carbide fabricated by spark plasma sintering. 2015 , 48, 398-407		20
321	Spectroscopic study of the discoloration of transparent MgAl ₂ O ₄ spinel fabricated by spark-plasma-sintering (SPS) processing. 2015 , 84, 9-19		64
320	Sintering behavior, microstructure, and thermal conductivity of dense AlN ceramics processed by spark plasma sintering with Y ₂ O ₃ -La ₂ O ₃ additives. <i>Ceramics International</i> , 2015 , 41, 1897-1901	5.1	11
319	Load-bearing contribution of multi-walled carbon nanotubes on tensile response of aluminum. 2015 , 68, 133-139		72
318	Sol-Gel Derived Fe-Rich Matrix Composites Having Precipitated WC. 2015 , 17, 148-156		6

317	Fabrication of diamond/BiC/TiC composite by a spark plasma sintering-reactive synthesis method. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 69-76	6	17
316	SEM and TEM characterization of microstructure of stainless steel composites reinforced with TiB ₂ . 2016 , 118, 560-569		22
315	Kinetics of densification and grain growth in ultrafine WC-Co composites. 2016 , 59, 121-131		30
314	Relationship Between Microstructure and Tensile Properties of A Ti-6Al-4V Produced by Spark Plasma Sintering. 2016 , 651-656		
313	Effect on Structural and Magnetic Properties of CaMn _{0.9} Mo _{0.1} O ₃ Employing Glow Discharge in the Synthesis Route. 2016 , 44, 3032-3036		2
312	Mechanochemical synthesis of high thermoelectric performance bulk Cu ₂ X (X = S, Se) materials. 2016 , 4, 116110		24
311	Effect of spark plasma sintering conditions on the thermoelectric properties of (Bi _{0.25} Sb _{0.75}) ₂ Te ₃ alloys. 2016 , 678, 396-402		23
310	Effect of Internal Current Flow During the Sintering of Zirconium Diboride by Field Assisted Sintering Technology. 2016 , 99, 35-42		12
309	Limited grain growth in multilayered Bi/Te thin films and the influence on the thermal and electrical conductivity. 2016 , 127, 88-95		1
308	Single-Step Process toward Achieving Superhydrophobic Reduced Graphene Oxide. 2016 , 8, 10985-94		27
307	Bimodal-grained Ti fabricated by high-energy ball milling and spark plasma sintering. 2016 , 26, 1170-1175		8
306	Enhanced mechanical properties of NbCr ₂ Laves phase by spark plasma sintering. 2016 , 131, 28-33		14
305	Effect of sintering temperature on phase transformation during consolidation of mechanically alloyed Al ₈₆ Ni ₆ Y ₆ Co ₂ amorphous powders by spark plasma sintering. 2016 , 453, 1-7		12
304	Effective Thermal and Electrical Conductivities of AgSnO ₂ During Sintering. Part I: Experimental Characterization and Mechanisms. 2016 , 47, 6304-6318		9
303	Clathrate thermoelectrics. 2016 , 108, 1-46		114
302	Influence of Various Concentrations (TiC and TiN) on the Microstructure and Properties of Ti(CN)-Based Cermets Prepared by Spark Plasma Sintering. 2016 , 75, 166-169		
301	Evaluation of the Particle Bonding for Aluminum Sample Produced by Spark Plasma Sintering. 2016 , 25, 4521-4528		5
300	Fast welding of chromium carbide and nickel alloy by spark plasma sintering. 2016 , 31, 835-837		

299	Development of high performance MgFe alloy as potential biodegradable materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 671, 48-53	5.3	15
298	Densification of 8Y-Tetragonal-Stabilized Zirconia Optoceramics with Improved Optical Properties by Y Segregation. 2016 , 13, 904-911		5
297	The Effect of Wire -EDM Processing on the Flexural Strength of Large Scale ZrO ₂ -TiN. 2016 , 45, 179-182		5
296	Spark plasma sintering mechanisms at the necks between TiAl powder particles. 2016 , 118, 100-108		63
295	Discharge Enhancement Effect of Inorganic Nanometer Spark Plasma Sintering Aid. 2016 , 850, 829-834		
294	Microstructure of a granular amorphous silica ceramic synthesized by spark plasma sintering. 2016 , 264, 298-303		2
293	Structural evolution of spark plasma sintered AlFeCuCrMgx (x = 0, 0.5, 1, 1.7) high entropy alloys. 2016 , 77, 46-56		45
292	Influence of SPS parameters on the density and hardness of zinc selenide. 2016 , 107, 948-953		4
291	Evolution of the microstructure and mechanical properties of Mg-matrix in situ composites during spark plasma sintering. 2016 , 59, 302-307		11
290	Pure & crystallized 2D Boron Nitride sheets synthesized via a novel process coupling both PDCs and SPS methods. 2016 , 6, 20388		17
289	Thermoelectric Properties of Ni _{0.05} Mo ₃ Sb _{5.4} Te _{1.6} with Embedded SiC and Al ₂ O ₃ Nanoparticles. 2016 , 2016, 853-860		7
288	Review on the properties of hexagonal boron nitride matrix composite ceramics. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 3725-3737	6	72
287	Optimization of process parameters for spark plasma sintering of nano-structured ferritic Fe-18Cr-2Si alloy. 2016 , 299, 62-70		14
286	Rapidly sintering of interconnected porous Ti-HA biocomposite with high strength and enhanced bioactivity. 2016 , 67, 104-114		40
285	Electrochemical properties of the passive film on bulk Zr ₄₀ Fe ₆₀ intermetallic fabricated by spark plasma sintering. 2016 , 388, 212-222		3
284	Plasma assisted absorption and reversible desorption of hydrogen gas in zirconium powder using electric discharge assisted mechanical milling method. 2016 , 681, 434-443		2
283	Mechanical Performance and Microstructure of Extruded Pure Ti Based Materials Reinforced with Nitrogen and Hydrogen Via Powder Metallurgy Route. 2016 , 585-589		
282	Novel Fabrication of Bulk Fine-Grained Al _{0.5} Cu _{0.5} Mg Alloy with Superior Mechanical Properties . 2016 , 18, 1027-1035		4

281	Fabrication of Dense Nanostructured Bulk Ceramics by Means of Spark-Plasma-Sintering (SPS) Processing. 2016 , 838-839, 225-230		1
280	Spark Plasma Sintering of MgO-Strengthened Aluminum. 2016 , 25, 648-655		2
279	SPS driven lithium differential diffusion in NASICON-like structures. 2016 , 55, 38-44		4
278	Fabrication, characterization and electrical conductivity of Ru-doped LaCrO ₃ dense perovskites. 2016 , 231-232, 53-56		11
277	Influence of microstructure and strengthening mechanism of AlMg ₅ /Al ₂ O ₃ nanocomposites prepared via spark plasma sintering. <i>Materials and Design</i> , 2016 , 95, 534-544	8.1	43
276	Systematic investigation of the strontium zirconium phosphate ceramic form for nuclear waste immobilization. <i>Journal of Nuclear Materials</i> , 2016 , 471, 122-128	3.3	29
275	Crystallographic orientation-dependent magnetic properties of a PrCo ₅ permanent magnet prepared by hot deformation. 2016 , 18, 2632-2641		13
274	Densification of AlN ceramics by spark plasma sintering under 1550 °C. 2016 , 27, 860-863		9
273	Spark plasma sintering and age hardening of an Al ₇₅ Ni ₂₅ Mg alloy powder blend. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 650, 129-138	5.3	13
272	Magnetic and microstructural investigation of high-coercivity net-shape NdFeB-type magnets produced from spark-plasma-sintered melt-spun ribbons blended with DyF ₃ . 2016 , 403, 90-96		6
271	Preparation of superfine-grained high entropy alloy by spark plasma sintering gas atomized powder. 2016 , 68, 16-22		84
270	Thermal Cycling Behavior of Thin WC-Co Sintered Pellets . 2017 , 19, 1600544		1
269	Large-scale production of (GeTe) (AgSbTe ₂) _{100-x} (x=75, 80, 85, 90) with enhanced thermoelectric properties via gas-atomization and spark plasma sintering. 2017 , 128, 43-53		35
268	Rapid synthesis of SiC powders by spark plasma-assisted carbothermal reduction reaction. <i>Ceramics International</i> , 2017 , 43, 4970-4975	5.1	7
267	Synthesis of AA7075-AA7075/B4C bilayer composite with enhanced mechanical strength via plasma activated sintering. 2017 , 701, 416-424		7
266	Spark plasma coating of tungsten-coated SiC particles. 2017 , 310, 282-286		6
265	Production of Al ₂ O ₃ /SiC nano-composites by spark plasma sintering. 2017 , 56, 186-194		16
264	Effect of particle size on densification of pure magnesium during spark plasma sintering. 2017 , 28, 1129-1135	37	

263	Consolidation by spark plasma sintering (SPS) of polyetheretherketone. 2017 , 134,		8
262	Lithium garnets: Synthesis, structure, Li + conductivity, Li + dynamics and applications. 2017 , 88, 325-411		216
261	Preparation of dense SiHf(B)CN-based ceramic nanocomposites via rapid spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 5157-5165	6	20
260	Facile synthesis of high-purity Ti ₂ SC powders by spark plasma sintering technique. <i>Ceramics International</i> , 2017 , 43, 9363-9368	5.1	10
259	Microstructure and mechanical properties of W-Cr-TiN composite by spark plasma sintering. 2017 , 125, 503-509		3
258	Bimodal eutectic titanium alloys: Microstructure evolution, mechanical behavior and strengthening mechanism. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 700, 10-18	5.3	13
257	Comparison of densification kinetics of a TiAl powder by spark plasma sintering and hot pressing. 2017 , 135, 1-13		36
256	Microstructures and mechanical properties of 9Cr oxide dispersion strengthened steel produced by spark plasma sintering. 2017 , 115, 67-73		25
255	Thermodynamics analysis of diffusion in spark plasma sintering welding Cr ₃ C ₂ and Ni. 2017 , 121, 115101		2
254	Microstructure and mechanical strength of near- and sub-micrometre grain size copper prepared by spark plasma sintering. <i>Materials and Design</i> , 2017 , 117, 95-103	8.1	34
253	Microstructure and mechanical characterization of Al ₆₀₆₁ -CNT nanocomposites fabricated by spark plasma sintering. 2017 , 133, 44-53		17
252	Consolidation of Cr ₃ C ₂ doping WC/TiN/MgO micro/nano composites by two-step sintering. 2017 , 32, 1403-1408		1
251	Comparison of SPS Processing Behavior between As Atomized and Cryomilled Aluminum Alloy 5083 Powder. 2017 , 48, 5492-5499		8
250	Theoretical and experimental investigations of local overheating at particle contacts in spark plasma sintering. 2017 , 321, 458-470		29
249	Microstructure, mechanical and tribological properties of nickel-aluminium bronze alloys developed via gas-atomization and spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 707, 325-336	5.3	37
248	Spark Plasma Sintering and Upsetting of a Gas-Atomized/Air-Atomized Al Alloy Powder Mixture. 2017 , 26, 5097-5106		1
247	The deformation and fracture behaviors of 316L stainless steels fabricated by spark plasma sintering technique under uniaxial tension. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 707, 362-372	5.3	12
246	Densification and microstructure of spark plasma sintered 7YSZ/α-Fe ₂ O ₃ ceramic nano-composites. 2017 , 5, 266-275		10

245	Processing of advanced thermoelectric materials. 2017 , 60, 1347-1364		55
244	Formation of bulk titanium boride (TiB) nano-ceramic with FeMo addition by electric-field-activated-sintering. 2017 , 100, 5450-5459		3
243	Spark plasma sintering and spark plasma upsetting of an Al-Zn-Mg-Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 704, 154-163	5.3	10
242	Synthesis process and microstructure of carbon fibres/graphite/copper composites by spark plasma sintering. 2017 , 33, 2064-2070		2
241	Diffraction, microstructure and thermal stability analysis in a double phase nanocrystalline Al ₂₀ Mg ₂₀ Ni ₂₀ Cr ₂₀ Ti ₂₀ high entropy alloy. 2017 , 26, 127-132		26
240	Critical assessment 28: electrical field/current application in revolution in materials processing/sintering?. 2017 , 33, 1855-1862		25
239	Powder Metallurgy. 2017 , 83-110		1
238	Radiative Properties of Ceramic (Al_2O_3), AlN and (Si_3N_4): Modeling. 2017 , 38, 1		15
237	MAX Phases: New Class of Carbides and Nitrides for Aerospace Structural Applications. <i>Indian Institute of Metals Series</i> , 2017 , 455-465	0.3	3
236	Thin-film preparation by back-surface irradiation pulsed laser deposition using metal powder targets. 2017 , 56, 01AB06		4
235	Tribological Property of Pure Titanium Strengthened by Nitrogen Solid-Solution. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2017 , 64, 275-280	0.2	5
234	Spark plasma sintering of ceramic matrix composite based on alumina, reinforced by carbon nanotubes. 2017 , 286, 012034		23
233	In Vitro Corrosion Properties of Mg Matrix In Situ Composites Fabricated by Spark Plasma Sintering. 2017 , 7, 358		17
232	3.21 Powder Metallurgical Processing of NiTi Using Spark Plasma Sintering. 2017 , 336-346		4
231	Synthesis and Characterization of Aluminium Base in situ Metal Matrix Composites by Spark Plasma Sintering. 2017 , 7, 14		1
230	Modification of microstructure and mechanical properties of Al ₇₀ Mg/3 wt.% Al ₂ O ₃ composite through semi-solid thermomechanical processing using variable loads. 2017 , 108, 840-847		8
229	Effect of Al-Mo codoping on the structure and ionic conductivity of sol-gel derived Li ₇ La ₃ Zr ₂ O ₁₂ ceramics. 2018 , 24, 3305-3315		15
228	Microstructural investigation of spark plasma sintered TiB ₂ ceramics with Si ₃ N ₄ addition. <i>Ceramics International</i> , 2018 , 44, 13367-13372	5.1	74

227	Ultra-low temperature fabrication of vanadium carbide reinforced aluminum nano composite through spark plasma sintering. 2018 , 753, 433-445		28
226	Preparation of 3Y-TZP Nanoceramics by a Modified Two-Step Sintering with Ultrahigh Heating and Cooling Rates. 2018 , 651-659		
225	Structure and properties of lightweight high entropy alloys: a brief review. 2018 , 5, 052001		37
224	Interface design of graphene/copper composites by matrix alloying with titanium. <i>Materials and Design</i> , 2018 , 144, 290-303	8.1	127
223	Influence of Cr and Y Addition on Microstructure, Mechanical Properties, and Corrosion Resistance of SPSeD Fe-Based Alloys. 2018 , 49, 990-1005		5
222	Improved thermoelectric properties of PEDOT:PSS polymer bulk prepared using spark plasma sintering. 2018 , 54, 2429-2431		19
221	On the Effect of Electric Field During Spark Plasma Sintering <i>IA Faraday Cagel</i> Approach. <i>Ceramic Transactions</i> , 2018 , 127-136	0.1	1
220	Distribution of carbon contamination in oxide ceramics occurring during spark-plasma-sintering (SPS) processing: II - Effect of SPS and loading temperatures. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2596-2604	6	35
219	Effect of physio-chemically functionalized graphene nanoplatelet reinforcement on tensile properties of aluminum nanocomposite synthesized via spark plasma sintering. 2018 , 748, 783-793		42
218	Viscous flow activation energy adaptation by isothermal spark plasma sintering applied with different current mode. 2018 , 149, 125-128		11
217	Microstructural characterization of field assisted sintered bulk nanostructured V-4Cr-4Ti alloys. 2018 , 36, 891-898		4
216	Grain growth during spark plasma and flash sintering of ceramic nanoparticles: a review. 2018 , 53, 3087-3105		57
215	Distribution of carbon contamination in MgAl ₂ O ₄ spinel occurring during spark-plasma-sintering (SPS) processing: I Effect of heating rate and post-annealing. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2588-2595	6	28
214	Contrasting energy efficiency in various ceramic sintering processes. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1018-1029	6	32
213	Cracks and nanodroplets produced on tungsten surface samples by dense plasma jets. 2018 , 434, 1122-1128		5
212	Nanostructured Pure and Doped Zirconia: Synthesis and Sintering for SOFC and Optical Applications. 2018 ,		2
211	Role of Fabrication Route on the Mechanical and Tribological Behavior of Aluminum Metal Matrix Composites <i>IA Review</i> . 2018 , 5, 20054-20069		14
210	High permittivity processed SrTiO ₃ for metamaterials applications at terahertz frequencies. 2018 , 8, 15275		4

209	Preparation and Characterization of Pressureless Sintered Alumina/5 vol % SiC Micro-Nanocomposites. 2018 , 1, 13-25		3
208	Microstructural characterization and strengthening mechanisms of a 15Cr-ODS steel produced by mechanical alloying and Spark Plasma Sintering. 2018 , 137, 71-78		8
207	Corrosion of MCrAlY: Pt composites prepared by spark plasma sintering. 2018 , 53, 539-548		1
206	Spark plasma sintering microscopic mechanisms of metallic systems: Experiments and simulations. 2018 , 102, 654		3
205	Tribological Property of β Pure Titanium Strengthened by Nitrogen Solid-Solution. <i>Materials Transactions</i> , 2018 , 59, 61-65	1.3	13
204	Rapid synthesis of highly pure Nb ₂ AlC using the spark plasma sintering technique. 2018 , 120, 218-222		4
203	Densification of Ni and TiAl by SPS: Kinetics and Microscopic Mechanisms. 2018 , 49, 4849-4859		7
202	Dense Mulliteceramic Sintered by SPS and Its Behavior Under Thermal Shock. 2018 , 59, 37-41		1
201	Design and characterization of nano and bimodal structured biodegradable Fe-Mn-Ag alloy with accelerated corrosion rate. 2018 , 767, 955-965		21
200	Pressure-induced preferential grain growth, texture development, and anisotropic properties of Fe/augite matrix composites prepared by spark plasma sintering. 2018 , 5, 095202		1
199	Nacre-Inspired Graphene/Metal Hybrid by In Situ Cementation Reaction and Joule Heating. 2018 , 20, 1800518		8
198	Microstructure and Mechanical Properties of Particulate Reinforced NbMoCrTiAl High Entropy Based Composite. 2018 , 20,		14
197	Introduction. 2018 , 1-24		3
196	Sintering by Low-Voltage Electric Pulses (Including Spark Plasma Sintering (SPS)). 2018 , 89-191		0
195	Field-Assisted Sintering. 2018 ,		45
194	Diffusion bonding between TZM alloy and WRe alloy by spark plasma sintering. 2018 , 764, 582-590		17
193	Effects of pulse conditions on microstructure and mechanical properties of Si ₃ N ₄ /6061Al composites prepared by spark plasma sintering (SPS). 2018 , 763, 822-834		17
192	Suppressing β phase development in steel-cemented tungsten carbide: A spark plasma sintering study. 2019 , 102, 595-601		4

191	Phase evolution and stability of nanocrystalline CoCrFeNi and CoCrFeMnNi high entropy alloys. 2019 , 770, 1004-1015		47
190	Evolution of microstructure, mechanical properties, electrochemical behaviour and thermal stability of Ti _{0.25} -Al _{0.2} -Mo _{0.2} -Si _{0.25} W _{0.1} high entropy alloy fabricated by spark plasma sintering technique. 2019 , 104, 3163-3171		3
189	Decarbonising ceramic manufacturing: A techno-economic analysis of energy efficient sintering technologies in the functional materials sector. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 5213-5235	6	42
188	Sintering mechanisms and dielectric properties of cold sintered (1-x) SiO ₂ - x PTFE composites. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 4743-4751	6	18
187	Cold Sintering: Progress, Challenges, and Future Opportunities. 2019 , 49, 275-295		76
186	Fabrication of Transparent Polycrystalline Ceramics by Utilizing External Field Effects. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2019 , 66, 158-167	0.2	
185	Effect of Al ₂ O ₃ addition on texturing in a rotating strong magnetic field and densification of B ₄ C. <i>Ceramics International</i> , 2019 , 45, 18222-18228	5.1	4
184	Increasing energy efficiency by tailoring the electric pulse pattern during Spark Plasma Sintering. <i>Ceramics International</i> , 2019 , 45, 24392-24397	5.1	
183	Effect of graphene dispersion and interfacial bonding on the mechanical properties of metal matrix composites: An overview. 2019 , 16, 100113		31
182	Fabrication of ODS Austenitic Steels and CoCrFeNi High-Entropy Alloys by Spark Plasma Sintering for Nuclear Energy Applications. 2019 , 71, 2856-2867		8
181	Synthesis and Properties of NaSiCON-type LATP and LAGP Solid Electrolytes. 2019 , 12, 3713-3725		72
180	Spark Plasma Sintering of Ti-48Al-2Cr-2Nb Alloy Powder and Characterization of an Unexpected Phase. 2019 , 71, 2556-2563		1
179	How to overcome the main challenges of SPS technology: Reproducibility, multi-samples and elaboration of complex shapes. 2019 , 77-108		2
178	A Review on High-Strength Titanium Alloys: Microstructure, Strengthening, and Properties. 2019 , 21, 1801359		56
177	Electrochemical properties of nanostructure NASICON synthesized by chemical routes: A comparison between coprecipitation and sol-gel. 2019 , 798, 311-319		7
176	Preparation of luminescent Eu-doped yttria-silicate coupons by spark plasma sintering: Reduction from Eu ³⁺ to Eu ²⁺ . 2019 , 212, 106-115		2
175	Porosity and Microstructure Iron-Based Graded Materials Sintered by Spark Plasma Sintering and the Conventional Method. 2019 , 9, 264		1
174	Densification and microstructural evolution of bulk Al ₂ O ₃ -3Al ₂ O ₃ 12(YAG) eutectic ceramic fabricated by spark plasma sintering. <i>Ceramics International</i> , 2019 , 45, 12337-12343	5.1	2

173	Manufacturing of tungsten and tungsten composites for fusion application via different routes. 2019 , 1, 80-90			17
172	Optimization of SPS processing parameters on the density and hardness properties of graphene reinforced polylactic acid nanocomposite. 2019 , 102, 4047-4058			14
171	Structure and mechanical properties of nanocrystalline silver prepared by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 754, 258-264	5.3		6
170	Grain growth kinetics in CoCrFeNi and CoCrFeMnNi high entropy alloys processed by spark plasma sintering. 2019 , 791, 1114-1121			34
169	High-entropy alloys by mechanical alloying: A review. 2019 , 34, 664-686			131
168	Influence of spark plasma sintering temperature on the microstructure and strengthening mechanisms of discontinuous three-dimensional graphene-like network reinforced Cu matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 754, 22-31	5.3		22
167	Electromigration-Enhanced Densification Kinetics During Spark Plasma Sintering of Tungsten Powder. 2019 , 50, 2886-2897			16
166	The Effect of Current Pathways on Spark Plasma Sintering. 2019 , 61-92			
165	Solvothermal assisted synthesis of CoSb ₃ phase evolution: Morphology and electrical study for thermoelectric applications. 2019 , 163, 142-147			4
164	Fundamentals of Spark Plasma Sintering (SPS): An Ideal Processing Technique for Fabrication of Metal Matrix Nanocomposites. 2019 , 21-59			10
163	Sintering Mechanisms of Metals Under Electric Currents. 2019 , 93-115			2
162	Sintering and hot corrosion of yttria silicate tablets in molten salts prepared by spark plasma sintering. 2019 , 66, 782-790			
161	Densification behaviour and microstructure of spark plasma sintered alumina-thullite nanocomposite. 2019 , 14, 957-961			0
160	Characteristics of Titanium Powder with Nitrogen and Mechanical Properties of Its Additive Manufactured Materials. 2019 , 8, 95-101			
159	Calculation of Volume Fractions of In Situ TiB and Residual Stress Distributions in Functionally Graded Composite of Ti-TiB-TiB. <i>Materials</i> , 2019 , 12,	3.5		0
158	Microstructure and mechanical properties of Al-TiCN composites prepared by spark plasma sintering. 2019 , 6, 126514			1
157	Gas-atomized copper-based particles encapsulated in graphene oxide for high wear-resistant composites. 2019 , 157, 131-139			23
156	Alumina/MWCNT composites: microstructural characterization and mechanical properties. 2019 , 7, 1-19			14

155	Plastic yielding and tensile strength of near-micrometer grain size pure iron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 764-772	5.3	6
154	Effect of spark plasma sintering and Sb doping on the thermoelectric properties of Co ₄ Ge ₆ Te ₆ skutterudite. 2019 , 269, 434-441		3
153	Evolution of microstructures and mechanical properties of spark plasma sintered Fe-Cr-Nb alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 739, 367-376	5.3	6
152	Densification and microstructure evolution of W-TiC-Y ₂ O ₃ during spark plasma sintering. 2019 , 79, 95-101		11
151	Preparation mullite/Si ₃ N ₄ composites by reaction spark plasma sintering and their characterization. <i>Ceramics International</i> , 2019 , 45, 5367-5383	5.1	6
150	Coercivity enhancement and uncoordinated deformation in PrCu-doped PrFeB/PrCo ₅ hybrid magnets. 2020 , 495, 165898		
149	A Review on Binderless Tungsten Carbide: Development and Application. 2019 , 12, 13		39
148	Sintering and Joining of Ni-Based Superalloys via FAST for Turbine Disc Applications. 2020 , 51, 1353-1366		4
147	Phase evolution and characterization of mechanically alloyed hexanary Al _{16.6} Mg _{16.6} Ni _{16.6} Cr _{16.6} Ti _{16.6} Mn _{16.6} high entropy alloy. 2020 , 75, 209-214		1
146	Electro-discharge sintering of nanocrystalline NdFeB magnets: process parameters, microstructure, and the resulting magnetic properties. 2020 , 31, 20431-20443		3
145	Suppression of ϵ phase in nanocrystalline CoCrFeMnNiV high entropy alloy by unsolicited contamination during mechanical alloying and spark plasma sintering. 2020 , 255, 123558		5
144	Spark plasma sintered Bi _{0.90} Sb _{0.10} and Bi _{0.86} Sb _{0.14} alloys and their electrical and thermal transport properties. 2020 , 120, 105280		
143	Use of Field Assisted Sintering for Innovation in Nuclear Ceramics Manufacturing. 2020 , 811-839		2
142	A Study on the Effect of Ultrafine SiC Additions on Corrosion and Wear Performance of Alumina-Silicon Carbide Composite Material Produced by SPS Sintering. 2020 , 10, 1337		2
141	Application of SPS in the fabrication of UN and (U,Th)N pellets from microspheres. <i>Journal of Nuclear Materials</i> , 2020 , 536, 152181	3.3	8
140	Mechanical Properties, Characterization and Wear Behavior of Powder Metallurgy Composites - A Review. 2020 , 22, 2582-2596		20
139	Microstructures and mechanical properties of oxide dispersion strengthened CoCrFeNi high-entropy alloy produced by mechanical alloying and spark plasma sintering. 2020 , 123, 106819		23
138	The effect of temperature on the physical and mechanical properties of nanostructured boron nitride by spark plasma sintering. 2020 , 835, 155317		1

137	A powder metallurgy route to fabricate CNT-reinforced molybdenum-hafnium-carbon composites. <i>Materials and Design</i> , 2020 , 191, 108635	8.1	7
136	Dislocation density in fine grain-size spark-plasma sintered aluminum measured using high brightness synchrotron radiation. 2020 , 269, 127653		3
135	Influence of ZrB on Microstructure and Properties of Steel Matrix Composites Prepared by Spark Plasma Sintering. <i>Materials</i> , 2020 , 13,	3.5	4
134	Oscillatory pressure sintering of binderless tungsten carbide. <i>Ceramics International</i> , 2020 , 46, 25603-25607		5
133	An investigation of the corrosion behavior of 316L stainless steel fabricated by SLM and SPS techniques. 2020 , 163, 110204		34
132	Microstructures and mechanical properties of FeCoCrNi-Mo High entropy alloys prepared by spark plasma sintering and vacuum hot-pressed sintering. 2020 , 24, 101009		10
131	Synthesis and characterization of non-equiatomic Ti _{0.3} AlMoSi _{0.3} W _{0.1} high-entropy alloy fabricated via spark plasma sintering. 2020 , 107, 679-688		1
130	Optimization of Spark Plasma Sintering Parameters Using the Taguchi Method for Developing Mg-Based Composites. 2020 , 72, 1186-1194		3
129	A review of multi-physical fields induced phenomena and effects in spark plasma sintering: Fundamentals and applications. <i>Materials and Design</i> , 2020 , 191, 108662	8.1	127
128	Fundamentals of Spark Plasma Sintering for Metallic, Ceramic, and Polymer Matrix Composites Production. 2021 , 822-836		2
127	Effect of crystal structure and grain size on corrosion properties of AlCoCrFeNi high entropy alloy. 2021 , 863, 158056		20
126	Effect of tungsten micro-scale dispersed particles on the microstructure and mechanical properties of TiBAl _{0.5} V alloy. 2021 , 851, 156847		4
125	Microstructural transformation of stainless steel slag-based CAMS glass ceramics prepared by SPS. <i>Ceramics International</i> , 2021 , 47, 1284-1293	5.1	4
124	Processing. 2021 , 97-137		
123	Spark Plasma Sintering of Aluminum-Based Powders Reinforced with Carbon Nanotubes: Investigation of Electrical Conductivity and Hardness Properties. <i>Materials</i> , 2021 , 14,	3.5	2
122	Static and Dynamic Mechanical Characterization of a Spark Plasma Sintered B ₆ O-B ₄ C Composite. 2021 , 79-88		
121	Yttria-Reinforced Fe-Cr Ferritic Alloy-Based Nanocomposites for Fusion Reactor Structural Applications. 2021 , 52, 627-643		4
120	Spark Plasma Sintering/Field Assisted Sintering Technique as a Universal Method for the Synthesis, Densification and Bonding Processes for Metal, Ceramic and Composite Materials. 2020 , 60, 53-69		2

119	Effect of Heating Modes on Reactive Sintering of CaCoO Ceramics. <i>Materials</i> , 2021 , 14,	3.5	1
118	Elaboration of Metallic Materials by SPS: Processing, Microstructures, Properties, and Shaping. 2021 , 11, 322		2
117	Effects of spark plasma sintering on enhancing the thermoelectric performance of HfTi doped VFeSb half-Heusler alloys. 2021 , 150, 109848		4
116	Progress of Spark Plasma Sintering (SPS) Method, Systems, Ceramics Applications and Industrialization. 2021 , 4, 160-198		15
115	Oxidation and Corrosion properties of a Novel Al ₁₅ Ti ₃₀ Si ₃₀ Mo ₁₅ Ni ₁₀ High Entropy Alloy fabricated by Spark Plasma Sintering Technology. 2021 , 1107, 012233		2
114	Spark Plasma Sintering (SPS) for ISRU-Oriented Lunar Soil Simulant Densification: Microstructural Evolution and Mechanical Characteristics. 2021 ,		0
113	Spark plasma sintering of polymer and polymer-based composites: a review. 2021 , 116, 759-775		3
112	The role of applied stress in the anodic dissolution of sulfide inclusions and pit initiation of stainless steels. 2021 , 183, 109312		5
111	Silicon carbide nanocomposites reinforced with disordered graphitic carbon formed in situ through oxidation of Ti ₃ C ₂ MXene during sintering. <i>Archives of Civil and Mechanical Engineering</i> , 2021 , 21, 1	3.4	5
110	Simultaneously enhancing strength and ductility of Ti-6Al-4V alloy with the hierarchical structure via a novel thermal annealing treatment. 2021 , 176, 111112		3
109	Two-dimensional nucleation growth of stepped ZrC skeleton with controllable morphology. <i>Ceramics International</i> , 2021 , 47, 19090-19097	5.1	5
108	Fast fabrication of SiC particulate-reinforced SiC composites by modified PIP process using spark plasma sintering [effects of green density and heating rate. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 4037-4047	6	4
107	High plasticity achieved by spark plasma sintering method in aluminum matrix composites reinforced with Ti ₂ AlC particles. 2021 , 177, 111204		1
106	Interfacial Properties of Bonded Dissimilar Materials Fabricated via Spark Plasma Sintering. <i>Materials Transactions</i> , 2021 , 62, 1102-1108	1.3	0
105	Recent progress on improving the mechanical, thermal and electrical conductivity properties of polyimide matrix composites from nanofillers perspective for technological applications. 2021 ,		1
104	Spark Plasma Sintering of AlN/Al Functionally Graded Materials. <i>Materials</i> , 2021 , 14,	3.5	0
103	Improving the electrical conductivity of copper/graphene composites by reducing the interfacial impurities using spark plasma sintering diffusion bonding. 2021 , 15, 3005-3005		4
102	Effect of sintering densification on micro-scale mechanical and tribological behaviour of niobium carbide. <i>Wear</i> , 2021 , 482-483, 203958	3.5	2

101	Thermoelectric Properties of P-Type Bi _{0.5} Sb _{1.5} Te ₃ Compounds Prepared by Spark Plasma Sintering Method. <i>Ceramic Transactions</i> , 279-287	0.1	1
100	High Thermal Conductivity AlN Materials. <i>Ceramic Transactions</i> , 115-124	0.1	4
99	Silicon Carbide- and Boron Carbide-Based Hard Materials. 131-227		9
98	Spark plasma sintering preparation of reference targets for field spectroscopy on Mars. 2018 , 49, 1419-1425		6
97	Spark Plasma Sintering (SPS) of Carbon Nanotube (CNT) / Graphene Nanoplatelet (GNP)-Nickel Nanocomposites: Structure Property Analysis. 2015 , 53-79		1
96	Synthetic Approaches to Intermetallic Clathrates. 2014 , 65-90		0
95	Synthesis, microstructure, and properties of high purity Mo ₂ TiAlC ₂ ceramics fabricated by spark plasma sintering. <i>Journal of Advanced Ceramics</i> , 2020 , 9, 759-768	10.7	19
94	HOMOGENEITY OF POROUS METALS PREPARED BY PULSED ELECTRIC CURRENT PRESSURE-SINTERING. 2005 , 281-284		1
93	Applications. 2004 , 253-275		2
92	Spark Plasma Sintering of Boron Carbide Ceramics Using Metallic Silicon in Square Cross Section. <i>Acta Physica Polonica A</i> , 2015 , 127, 1370-1372	0.6	2
91	Processing, Mechanical and Nuclear Characterization of Boron Carbide Ceramics Consolidated by Spark Plasma Sintering. <i>Acta Physica Polonica A</i> , 2015 , 128, B-187-B-190	0.6	4
90	STRUCTURAL AND LUMINESCENT PROPERTIES OF EUROPIUM-DOPED AND UNDOPED HYDROXYAPATITE POWDERS SINTERED BY SPARK PLASMA. <i>Ceramics - Silikaty</i> , 2019 , 100-109	0.6	2
89	Model of Compaction Process of a Porous Powder Elastic-Viscous Material at Electric Sintering. <i>Metallrofizika i Noveishie Tekhnologii</i> , 2016 , 38, 635-645	0.5	1
88	Mechanical Alloying: A Way How to Improve Properties of Aluminium Alloys. <i>Manufacturing Technology</i> , 2015 , 15, 1036-1043	0.7	10
87	Fabrication and Property Evaluation of Mo Compacts for Sputtering Target Application by Spark Plasma Sintering Process. <i>Materials Transactions</i> , 2012 , 53, 1056-1061	1.3	4
86	A Corrosion Resistant Sintered Stainless Steel: Type 304L Containing Mo-Rich Phases. <i>Materials Transactions</i> , 2020 , 61, 2248-2251	1.3	3
85	Dense Nano-structured and Preferentially-oriented Anatase Synthesized by Pulsed High Current Heating. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2005 , 52, 805-811	0.2	8
84	Spark Plasma Sintering Behaviors of M-type Barium Hexaferrite Nano Powders. <i>Journal of Korean Powder Metallurgy Institute</i> , 2014 , 21, 256-259	0.1	4

83	Effects of Y ₂ O ₃ Addition on Densification and Thermal Conductivity of AlN Ceramics During Spark Plasma Sintering. <i>Journal of the Korean Ceramic Society</i> , 2008 , 45, 827-831	2.2	3
82	Effect of High-Energy Ball Milling on the Magnetic Properties of NiZn Ferrite Ceramics Synthesized by Spark Plasma Sintering. <i>Journal of Materials Science and Chemical Engineering</i> , 2015 , 03, 50-55	0.3	4
81	Joining and properties of electrode for CoSb ₃ thermoelectric materials prepared by a spark plasma sintering method. <i>Journal of the Korean Crystal Growth and Crystal Technology</i> , 2010 , 20, 30-34		4
80	Lattice Deformation-Induced Enhancement in Thermoelectric Properties of p-Type Bismuth Telluride-Based Alloys. <i>Science of Advanced Materials</i> , 2021 , 13, 1358-1363	2.3	1
79	Comparisons of the Microstructure and Magnetic Properties of Anisotropic NdFeB Magnets Prepared by Hot Pressing and Spark Plasma Sintering. <i>Journal of Superconductivity and Novel Magnetism</i> , 2022 , 35, 251	1.5	0
78	Fracture Toughness of Nanocrystalline L1 ₂ (Al+X at.%Mn) ₃ Ti Prepared by Mechanical Alloying and Consolidated by SPS. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 778, 171		1
77	Preparation of Single- and Multi-Walled Carbon Nanotube Solids and Their Mechanical Properties. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2005 , 52, 831-835	0.2	
76	Densification Behavior of Iron Powder During Cold Stepped Plastic Deformation. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2005 , 29, 1344-1352	1	
75	Characteristics of Pure Mg Powder Compacts Prepared by Spark Plasma Sintering Process. <i>Korean Journal of Materials Research</i> , 2007 , 17, 331-336	0.2	
74	Characteristics of Mg ₉₇ Y ₂ Zn ₁ Alloy Compacts Prepared by Spark Plasma Sintering Process. <i>Korean Journal of Materials Research</i> , 2007 , 17, 337-341	0.2	
73	Fabrication and Characterization of Metallic Glassy Matrix Composite Reinforced with ZrO ₂ Particulate by Spark Plasma Sintering Process. <i>Advances in Materials Research</i> , 2008 , 245-255		
72	The Effect of Al ₂ O ₃ addition on the Characteristics of Sintering Behavior, Phase Transformation and Mechanical Properties of Spark Plasma Sintered Si ₃ N ₄ Ceramics. <i>Journal of the Korean Ceramic Society</i> , 2008 , 45, 94-98	2.2	
71	Effect of n-type Dopants on CoSb ₃ Skutterudite Thermoelectrics Sintered by Spark Plasma Sintering. <i>Korean Journal of Materials Research</i> , 2010 , 20, 326-330	0.2	1
70	Simulation of Contact Resistances Influence on Temperature Distribution During SPS Experiments. <i>Ceramic Transactions</i> , 1-17	0.1	
69	Preparation of Amorphous Sintered Body. <i>Ceramic Transactions</i> , 125-132	0.1	
68	Production of Dense Nanostructured Materials using Fapas and SPS Techniques. <i>Ceramic Transactions</i> , 235-249	0.1	
67	Synthesis/Sintering of Dense Carbides-, Borides- and Perovskites-Based Materials by SPS. <i>Ceramic Transactions</i> , 173-188	0.1	
66	Electrical Property of the Li ₂ O-2SiO ₂ Glass Sintered by Spark Plasma Sintering. <i>Korean Journal of Materials Research</i> , 2012 , 22, 61-65	0.2	2

- 65 Superplasticity of the Nanostructured Binary Systems of Zirconiaalumina-Spinel Ceramics by Spark Plasma Sintering Process. *Ceramic Transactions*, 155-164 0.1
- 64 Fabrication, Microstructure, and Corrosion Resistance of Bialon Nano-Ceramics. *Ceramic Transactions*, 193-198 0.1
- 63 Super-Fast Densification of Bioactive and Structural Ceramics and Composites. *Ceramic Transactions*, 15-24 0.1
- 62 Investigation on the Interfaces of M42/45 Steel Bimetal Composites Sintered by Spark Plasma Sintering. 331-336
- 61 Field Assisted Sintering of Nanometric Ceramic Materials. *Ceramic Transactions*, 131-149 0.1
- 60 Effect of Spark Plasma Sintering on the Dielectric Behavior of Barium Titanate Nanoparticles. *Ceramic Transactions*, 161-166 0.1 1
- 59 Diffusion Welding SiC Ceramic/Tungsten by SPS. *Material Sciences*, **2013**, 03, 7-10 0.1
- 58 Consolidation of TiB₂ Ceramics by Using Spark Plasma Sintering. 1099-1107
- 57 Consolidation of TiB₂ Ceramics by using Spark Plasma Sintering. **2014**, 1101-1107
- 56 Preparation of Magnesium-zinc Alloy by Mechanical Alloying. *Manufacturing Technology*, **2014**, 14, 304-309 2
- 55 Encyclopedia of Nanotechnology. **2015**, 1-16
- 54 Encyclopedia of Nanotechnology. **2016**, 715-730
- 53 Chapter 4 Transparent High-Density Oxide Ceramics Prepared by Spark Plasma Sintering. **2017**, 107-154
- 52 Processing of Implant Biomaterials. *Indian Institute of Metals Series*, **2017**, 87-126 0.3
- 51 Research and Application on Sintering Technology of Ceramic Materials. *Material Sciences*, **2017**, 07, 628-632
- 50 Applying Spark Plasma Sintering Technology to Enhance the Resistance to Contact Fatigue of Sintered Steel Based on Astaloy CRL. *Powder Metallurgy Progress*, **2017**, 17, 21-28 0.2
- 49 Microstructure, Properties and Damage Mechanisms by Water Jet Cutting of TiB₂-Ti Cermets Prepared by SPS. *Lecture Notes in Mechanical Engineering*, **2019**, 97-104 0.4 1
- 48 Precipitation hardening response in light metals produced by ingot- or powder- metallurgy processes. *Keikinzoku/Journal of Japan Institute of Light Metals*, **2019**, 69, 157-165 0.3

47	Review of Recent Progress in the Development and Properties of Aluminum Metal Matrix Composites Reinforced with Multiwalled Carbon Nanotube by Powder Metallurgy Route. <i>Materials Performance and Characterization</i> , 2019 , 8, 20180140	0.5	1
46	Powder Metallurgy. 2020 , 33-48		
45	Interfacial Properties of Bonded Dissimilar Materials Fabricated via Spark Plasma Sintering. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2020 , 69, 855-862	0.1	
44	Review, Role of L12 Modified (Al _{1-x} Mex) ₃ Ti Intermetallic Compounds on Heterogeneous Nucleation of Alpha Aluminum Grains. <i>MATEC Web of Conferences</i> , 2020 , 326, 06008	0.3	0
43	Enhanced ductility of Ti ₃ AlC ₂ particles reinforced pure aluminum composites by interface control. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 832, 142393	5.3	0
42	The Analysis of Erosive Wear Resistance of WC-Co Carbides Obtained by Spark Plasma Sintering Method. <i>Materials</i> , 2021 , 14,	3.5	0
41	Tribological Performance of Random Sinter Pores vs. Deterministic Laser Surface Textures: An Experimental and Machine Learning Approach.		1
40	Crystalline phosphates for HLW immobilization - composition, structure, properties and production of ceramics. Spark Plasma Sintering as a promising sintering technology. <i>Journal of Nuclear Materials</i> , 2021 , 559, 153407	3.3	3
39	Zirconium-diboride silicon-carbide composites: A review. <i>Ceramics International</i> , 2021 , 48, 7344-7344	5.1	2
38	Effect of Preliminary Treatment on Microstructure, Mechanical Properties and Fracture of Ni ₃ Al Samples Synthesized by Spark Plasma Sintering. <i>Russian Physics Journal</i> , 1	0.7	0
37	Excellent performance of W ₂ O ₃ composite via powder process improvement and Y ₂ O ₃ refinement. <i>Materials and Design</i> , 2021 , 212, 110249	8.1	2
36	The Development and Application of Spark Plasma Sintering Technique in Advanced Metal Structure Materials: A Review. <i>Powder Metallurgy and Metal Ceramics</i> , 1	0.8	0
35	Dry sliding behavior of copper based composite materials prepared using conventional compaction and sintering technique and spark plasma sintering. <i>Wear</i> , 2022 , 490-491, 204209	3.5	1
34	Effect of graphite nanoplatelets on spark plasma sintered and conventionally sintered aluminum-based nanocomposites developed by powder metallurgy. <i>Materials Science-Poland</i> , 2021 , 39, 346-370	0.6	
33	Enhancement mechanical properties of in-situ prepared B ₄ C-based composites with small amount of (Ti ₃ SiC ₂ +Si). <i>Ceramics International</i> , 2022 ,	5.1	1
32	Nanostructured Bulk Thermoelectric Materials for Energy Harvesting. <i>NIMS Monographs</i> , 2022 , 199-231	0.3	1
31	Properties of spark plasma sintered pseudocubic BiFeO ₃ BaTiO ₃ ceramics. <i>Ceramics International</i> , 2022 ,	5.1	1
30	Rapidly synthesizing Hf ₂ SB ceramics by thermal explosion. <i>Journal of the European Ceramic Society</i> , 2022 ,	6	0

29	Synthesis, X-ray phase analysis and differential thermal analysis of nanocrystalline superionic KxCu _{1.85} S (x<0.05) copper sulfides. <i>Eurasian Journal of Physics and Functional Materials</i> , 2022 , 6, 71-84	1.8	1
28	Microstructure and magnetic properties of nickel-zinc ferrite ceramics fabricated by spark plasma sintering. <i>Ceramics International</i> , 2022 , 48, 10412-10419	5.1	0
27	Synthesis and property characterization of ternary laminar Zr ₂ SB ceramic. <i>Journal of Advanced Ceramics</i> , 1	10.7	0
26	Improving the high temperature mechanical performance of Cu-Ti alloy induced by residual nano-sized Cr precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 845, 143250	5.3	3
25	Evaluation of the corrosion resistance of spark plasma sintered stainless steel 316L matrix composites with zirconium diboride in sulfuric acid. <i>Archives of Civil and Mechanical Engineering</i> , 2022 , 22, 1	3.4	2
24	A new MgB ₂ bulk ring fabrication technique for use in magnetic shielding or bench-top NMR systems. <i>Superconductor Science and Technology</i> ,	3.1	1
23	Detailed microstructural and mechanical evaluation of yttria-stabilized zirconia-Ti composite compacts developed using spark plasma and electric discharge sintering processes. <i>Ceramics International</i> , 2022 ,	5.1	
22	A titanium-nitrogen alloy with ultrahigh strength by ball milling and spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 848, 143465	5.3	0
21	Pitting Corrosion of Stainless Steels under Applied Stress. <i>Materia Japan</i> , 2022 , 61, 399-405	0.1	
20	Local deformation mechanisms in metal systems with a tailored grain size distribution. 2022 , 1249, 012006		
19	Exploring Possibilities for Fabricating Cu-TiB ₂ Composite Through Different Powder Metallurgy Routes.		
18	Microstructure characterization and mechanical properties of in situ synthesized Ti ₂ (Al,Si)C reinforced Al composites. 2022 , 191, 112176		0
17	Spark plasma sintering using calcareous waste concrete powder. 2022 , 349, 128726		2
16	Corrosion-resistant sintered stainless steels with non-equilibrium Mo-rich phases. 2022 , 33, 104211		1
15	Assessing the effect of compaction pressure on the mechanical properties of polytetrafluoroethylene elaborated by field assisted sintering technique. 2022 , 258, 125325		0
14	Tungsten Carbides. 2022 , 11-829		0
13	Densification in transparent SiO ₂ glasses prepared by spark plasma sintering. 2022 , 12,		0
12	Effect of Pressure on Densification and Microstructure of W-Cr-Y-Zr Alloy during SPS Consolidated at 1000 °C. 2022 , 12, 1437		0

- 11 Diffusion Bonding of Al7075 to Ti-6Al-4V by Spark Plasma Sintering and Using a Copper Interlayer. **2022**, 12, 1293 ○
- 10 Performance gradient distribution of (Ti,W)C cermet by skin effects of high-frequency spark plasma sintering. ○
- 9 Superalloy/Al₂O₃ type composite compacts obtained by spark plasma sintering from mechanically alloyed powders. **2022**, 54, 335-347 ○
- 8 Micromechanical properties and microstructure evolution of magnesia partially stabilized zirconia prepared by spark plasma sintering. **2022**, ○
- 7 Influence of the high-pressure β Zr phase on selected properties of sintered zirconium powder materials. **2022**, 106036 ○
- 6 Hexagonal boron nitride-based composites: an overview of processing approaches and mechanical properties. ○
- 5 Evaluation of the corrosion resistance of AlCoCrFeMnNi high entropy alloy hard coating applied by electro spark deposition. **2023**, 454, 129156 ○
- 4 Improvement of electrical properties in Bi compensated 0.33BaTiO₃-0.67BiFeO₃ ceramics prepared via spark plasma sintering. **2023**, 34, 105097 ○
- 3 Synthesis of new rare earth containing ternary laminar Sc₂PbC ceramic. **2023**, 43, 1735-1739 ○
- 2 Spark Plasma Sintering Using Shuri Castle Breakage Roof Tile Powder. **2023**, 70, 145-152 ○
- 1 Impact of AC and DC Electric Fields on the Microstructure Evolution in Strontium Titanate. ○