Gultekin Goller

List of Publications by Year
in descending order

121 papers	2,409 citations	201575 27 h-index	233338 45 g-index
128 all docs	128 docs citations	128 times ranked	2366 citing authors

#	Article	IF	Citations
1	Comparative study of reactive and nonreactive spark plasma sintering routes for the production of TaB₂â€TaC composites. International Journal of Applied Ceramic Technology, 2022, 19, 332-343.	1.1	1
2	Comparative investigation of the properties of graphene nanoplatelet reinforced titanium diboride and niobium diboride ceramics. International Journal of Refractory Metals and Hard Materials, 2022, 103, 105761.	1.7	1
3	Production of B4C reinforced TZM alloy and boriding its surface in one step by spark plasma sintering (SPS). International Journal of Refractory Metals and Hard Materials, 2022, 106, 105860.	1.7	5
4	Application of thermal gradient and thermal cycling tests to Al2O3/CYSZ functionally graded TBC in the presence of simultaneous hot corrosion and CMAS effects. Surface and Coatings Technology, 2022, 444, 128688.	2.2	12
5	Phase analysis, mechanical properties and in vitro bioactivity of graphene nanoplatelet-reinforced silicon nitride-calcium phosphate composites. Journal of Asian Ceramic Societies, 2021, 9, 471-486.	1.0	7
6	Functional Design to Protect TZM Alloy Against Oxidation. Oxidation of Metals, 2021, 95, 389-407.	1.0	2
7	Optimization and characterization of poly(â„‡-caprolactone) nanofiber mats doped with bioactive glass and copper metal nanoparticles. Chemical Papers, 2021, 75, 5929-5943.	1.0	4
8	Investigation of the effects of varying amount of graphene nanoplateletsâ€™ (GNPs) addition on carbon nanotubes (CNTs) reinforced boron carbide produced by spark plasma sintering. Journal of the Australian Ceramic Society, 2021, 57, 1435-1444.	1.1	4
9	Investigation the effect of FeNiCoCrMo HEA addition on properties of B4C ceramic prepared by spark plasma sintering. Journal of the European Ceramic Society, 2021, 41, 6290-6301.	2.8	18
10	Optimization of the electrospinning process variables for gelatin/silver nanoparticles/bioactive glass nanocomposites for bone tissue engineering. Polymer Composites, 2020, 41, 2411-2425.	2.3	27
11	Microstructural and magnetic characteristics of ceramic dispersion strengthened sintered stainless steels after thermal ageing. Fusion Engineering and Design, 2019, 145, 46-53.	1.0	4
12	Effects ofSiCandSiC-GNP additions on the mechanical properties and oxidation behavior of NbB₂. Journal of Asian Ceramic Societies, 2019, 7, 170-182.	1.0	9
13	Synthesis and antifungal activity of soluble starch and sodium alginate capped copper nanoparticles. Materials Research Express, 2019, 6, 1250g3.	0.8	18
14	Fabrication of antibacterial polyvinylalcohol nanocomposite mats with soluble starch coated silver nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 562, 255-262.	2.3	56
15	A novel approach to boriding of TZM by spark plasma sintering method. International Journal of Refractory Metals and Hard Materials, 2019, 78, 273-281.	1.7	14
16	Production and characterization of TZM based TiC or ZrC reinforced composites prepared by spark plasma sintering (SPS). Journal of Alloys and Compounds, 2019, 781, 433-439.	2.8	19
17	The Sintering Behaviour and Mechanical Properties of Hydroxyapatite - Based Composites for Bone Tissue Regeneration. Materiale Plastice, 2019, 56, 644-648.	0.4	7
18	Microstructural and tribological characterization of molybdenumâ€“molybdenum carbide structures produced by spark plasma sintering. International Journal of Materials Research, 2019, 110, 1039-1046.	0.1	0

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19	Spark plasma sintered ZrC-TiC-GNP composites: Solid solution formation and mechanical properties. Ceramics International, 2018, 44, 2336-2344.	2.3	24
20	Surface deterioration of monolithic CAD/CAM restorative materials after artificial abrasive toothbrushing. Journal of Advanced Prosthodontics, 2018, 10, 271.	1.1	22
21	The Sintering Behaviour and Mechanical Properties of Hydroxyapatite - Based Composites for Bone Tissue Regeneration. Revista De Chimie (discontinued), 2018, 69, 1272-1275.	0.2	5
22	Microstructural characterization of GZ/CYSZ thermal barrier coatings after thermal shock and CMAS+hot corrosion test. Journal of the European Ceramic Society, 2017, 37, 2501-2508.	2.8	63
23	Spark plasma sintering and characterization of ZrC-TiB 2 composites. Ceramics International, 2017, 43, 8475-8481.	2.3	11
24	Microstructural, mechanical and thermal properties of Al 2 O 3 /CYSZ functionally graded thermal barrier coatings. Surface and Coatings Technology, 2017, 329, 193-201.	2.2	25
25	Microstructural Investigation of TZM Alloys processed by Spark Plasma Sintering. MRS Advances, 2016, 1, 1183-1190.	0.5	3
26	Processing and characterization of spark plasma sintered TZM alloy. Journal of Alloys and Compounds, 2016, 685, 860-868.	2.8	51
27	Processing Technologies for Bioceramic Based Composites. , 2016, , 639-666.		2
28	Investigation the effect of B 4 C addition on properties of TZM alloy prepared by spark plasma sintering. International Journal of Refractory Metals and Hard Materials, 2016, 58, 182-188.	1.7	10
29	Production and characterisation of GZ/CYSZ alternative thermal barrier coatings with multilayered and functionally graded designs. Journal of the European Ceramic Society, 2016, 36, 1755-1764.	2.8	61
30	Gamma and Neutron Shielding Behavior of Spark Plasma Sintered Boron Carbide-Tungsten Based Composites. , 2016, , 449-456.		0
31	Protein-mediated hydroxyapatite composite layer formation on nanotubular titania. Bioinspired, Biomimetic and Nanobiomaterials, 2015, 4, 155-165.	0.7	6
32	Processing Technologies for Bioceramic Based Composites. , 2015, , 1-22.		0
33	Microstructural evaluation of laser remelted gadolinium zirconate thermal barrier coatings. Surface and Coatings Technology, 2015, 276, 202-209.	2.2	39
34	Electrochemically designed interfaces: Hydroxyapatite coated macro-mesoporous titania surfaces. Applied Surface Science, 2015, 350, 62-68.	3.1	17
35	Effect of particle size, heating rate and CNT addition on densification, microstructure and mechanical properties of B4C ceramics. Ceramics International, 2015, 41, 8936-8944.	2.3	63
36	Processing Technologies for Bioceramic Based Composites. , 2015, , 1-27.		0

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37	The Spark Plasma Sintering of Silicon Carbide Ceramics Using Alumina. Acta Physica Polonica A, 2014, 125, 257-259.	0.2	16
38	Adherence Properties of Acrylic Bone Cement to Alumina Ceramics Designed for Clinical Applications. Acta Physica Polonica A, 2014, 125, 603-605.	0.2	0
39	Spark Plasma Sintering of Boron Carbide Ceramics Using Different Sample Geometries and Dimensions. Acta Physica Polonica A, 2014, 125, 260-262.	0.2	15
40	Processing and characterization of CYSZ/Al 2 O 3 and CYSZ/Al 2 O 3 + YSZ multilayered thermal barrier coatings. Surface and Coatings Technology, 2014, 258, 804-813.	2.2	32
41	Carbonated hydroxyapatite deposition at physiological temperature on ordered titanium oxide nanotubes using pulsed electrochemistry. Ceramics International, 2014, 40, 15479-15487.	2.3	27
42	Spark plasma sintered Al2O3â€“YSZâ€“TiO2 composites: Processing, characterization and in vivo evaluation. Materials Science and Engineering C, 2014, 40, 16-23.	3.8	30
43	Surface Modification of Alumina/ Zirconia Ceramics Upon Different Fluorideâ€Based Treatments. International Journal of Applied Ceramic Technology, 2014, 11, 402-411.	1.1	18
44	Consolidation of TiB2 Ceramics by using Spark Plasma Sintering. , 2014, , 1101-1107.		0
45	Surface Modification of Thermal Barrier Coatings by Single-Shot Defocused Laser Treatments. Journal of Materials Engineering and Performance, 2013, 22, 2500-2509.	1.2	5
46	Microstructural and mechanical investigation of hydroxyapatiteâ€“zirconia nanocomposites prepared by spark plasma sintering. Journal of the European Ceramic Society, 2013, 33, 2313-2319.	2.8	13
47	Densification behavior and mechanical properties of spark plasma-sintered ZrCâ€“TiC and ZrCâ€“TiCâ€“CNT composites. Journal of Materials Science, 2013, 48, 2388-2393.	1.7	44
48	Microscopic and spectroscopic investigation of bioactive glasses for antibiotic controlled release. Journal of Molecular Structure, 2013, 1040, 47-52.	1.8	29
49	Assessment of the effects of heat input on microstructure and mechanical properties in laser beam welded Haynes 188 undermatched joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 731-741.	2.6	10
50	Processing and mechanical characterisation of monolithic silicon carbide ceramic consolidated by spark plasma sintering (SPS). International Journal of Materials Research, 2013, 104, 1240-1246.	0.1	3
51	Evaluation of airâ€particle abrasion of Yâ€<scp>TZP</scp> with different particles using microstructural analysis. Australian Dental Journal, 2013, 58, 183-191.	0.6	31
52	Evaluation of hardness and fracture toughness, coupled with microstructural analysis, of zirconia ceramics stored in environments with different pH values. Dental Materials Journal, 2012, 31, 891-902.	0.8	41
53	Mechanical and oxidation behavior of spark plasma sintered ZrB₂â€“ZrCâ€“SiC composites. Journal of the Ceramic Society of Japan, 2012, 120, 143-149.	0.5	20
54	Spark plasma sintering of B4Câ€“SiC composites. Solid State Sciences, 2012, 14, 1660-1663.	1.5	49

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55	Bioactivity and protein attachment onto bioactive glasses containing silver nanoparticles. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1179-1186.	2.1	34
56	Effects of firing temperature on the physical properties of a bauxite-based refractory castable. Refractories and Industrial Ceramics, 2012, 53, 19-25.	0.2	6
57	Comparative processing-structureâ€“property studies of Alâ€“Cu matrix composites reinforced with TiC particulates. Composites Part A: Applied Science and Manufacturing, 2011, 42, 812-824.	3.8	92
58	Microstructure and ferroelectric properties of spark plasma sintered Li substituted K0.5Na0.5NbO3 ceramics. Journal of the Ceramic Society of Japan, 2011, 119, 355-361.	0.5	12
59	Influence of Zirconia Base and Shade Difference on Polymerization Efficiency of Dual-Cure Resin Cement. Journal of Prosthodontics, 2011, 20, 361-365.	1.7	27
60	Effect of CeO2 addition on densification and microstructure of Al2O3â€“YSZ composites. Ceramics International, 2011, 37, 3273-3280.	2.3	42
61	Characterization of Plasma Sprayed Yittria Stabilized Zirconia (8 wt %) Hydroxyapatite Coatings. Key Engineering Materials, 2011, 493-494, 535-538.	0.4	0
62	A Study on Laser Beam Welding (LBW) Technique: Effect of Heat Input on the Microstructural Evolution of Superalloy Inconel 718. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2357-2365.	1.1	78
63	Preparation and characterisation of self-flowing refractory material containing 971U type microsilica. Advances in Applied Ceramics, 2010, 109, 6-11.	0.6	5
64	Effect of titanium surface properties on electrochemically induced biomineralization. , 2010, , .		2
65	Spark Plasma Sintering of Si3N4/C Composites. Materialpruefung/Materials Testing, 2010, 52, 374-378.	0.8	0
66	Effect of TiO2 Addition on Crystallization Behaviour of Potassium Mica-Cordierite Based Glass Ceramics. High Temperature Materials and Processes, 2009, 28, 211-216.	0.6	2
67	Microstructure and densification of ZrB2â€“SiC composites prepared by spark plasma sintering. Journal of the European Ceramic Society, 2009, 29, 2379-2385.	2.8	100
68	Effect of CeO2 addition on crystallization behavior, bioactivity and biocompatibility of potassium mica and fluorapatite based glass ceramics. Journal of the Ceramic Society of Japan, 2009, 117, 787-792.	0.5	14
69	Effect of CeO₂ Addition on In Vitro Bioactivity Properties of K-Mica-Fluorapatite Based Glass Ceramics. Key Engineering Materials, 2008, 361-363, 261-264.	0.4	8
70	Effect of Different Stabilizer Addition on Preparation and Hydrothermal Stability of ZrO₂-TiN Composites with Varying TiN Content. Key Engineering Materials, 2008, 361-363, 795-798.	0.4	0
71	Production and characterization of ZrO2 ceramics and composites to be used for hip prosthesis. Journal of Materials Science, 2008, 43, 1599-1611.	1.7	11
72	Biocompatibility Properties of ZrO₂ Ceramics and ZrO₂-TiN Composites. Key Engineering Materials, 2008, 396-398, 51-54.	0.4	2

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73	Highly Bioactive Porous Composite Scaffolds of Bovine Hydroxyapatite (BHA-Ti, BHA-TiO₂,) Tj ETQq1 1 0.784314 rgBT /O	0.4	1
74	Improvement of Microstructure of Bovine Hydroxyapatite (BHA) with Machineable Fluorapatite Glass (MFG). Key Engineering Materials, 2007, 361-363, 495-498.	0.4	1
75	In-Vitro Bioactivity Characterization of Sodium-Potassium Mica and Fluorapatite Containing Glass Ceramics. Key Engineering Materials, 2007, 330-332, 185-188.	0.4	0
76	Effect of TiO2 addition on crystallization and machinability of potassium mica and fluorapatite glass ceramics. Journal of Materials Science, 2007, 42, 883-888.	1.7	4
77	Influence of Sintering Temperature on Mechanical Properties of Biologically Derived Hydroxyapatite Bodies. Key Engineering Materials, 2006, 309-311, 45-48.	0.4	4
78	Bond-coating in plasma-sprayed calcium-phosphate coatings. Journal of Materials Science: Materials in Medicine, 2006, 17, 1161-1171.	1.7	26
79	Effect of sintering temperature on mechanical and microstructural properties of bovine hydroxyapatite (BHA). Journal of Sol-Gel Science and Technology, 2006, 37, 111-115.	1.1	79
80	Biocompatibility of the Outer Prismatic and the Inner Nacreous Layers of Four Different Molluscs. Key Engineering Materials, 2006, 309-311, 449-452.	0.4	4
81	In Vitro Bioactivity Characterization of K-Mica-Fluorapatite Based Glass Ceramics Containing Varying Amount of TiO₂ Addition. Key Engineering Materials, 2006, 309-311, 321-324.	0.4	1
82	Biocompatibility Evaluation of Lithium-Hydroxyapatite Composites. Key Engineering Materials, 2006, 309-311, 1121-1124.	0.4	3
83	Sintering Effects on Mechanical Properties of Hydroxyapatite-Titanium Dioxide (HA-TiO₂) Composites. Key Engineering Materials, 2006, 309-311, 355-358.	0.4	2
84	Evaluation of Osteoblast Viability, Alkaline Phosphatase Production and Collagen Secretion in the Presence of Hydroxyapatite Reinforced with Oxide Glasses. Key Engineering Materials, 2005, 284-286, 635-638.	0.4	1
85	Biocompatibility Evaluation of Three Different Titanium-Hydroxyapatite Composites. Key Engineering Materials, 2005, 284-286, 639-642.	0.4	15
86	The Influence of Sintering Temperature on Mechanical and Microstructural Properties of Bovine Hydroxyapatite. Key Engineering Materials, 2005, 284-286, 325-328.	0.4	13
87	The Influence of Sintering Temperature on the Properties of Composites of Biologic Hydroxyapatite and Zirconia. Key Engineering Materials, 2005, 284-286, 709-712.	0.4	5
88	Biocompatibility Evaluation of Dentine, Enamel and Bone Derived Hydroxyapatite. Key Engineering Materials, 2004, 254-256, 837-840.	0.4	9
89	Analysis of In-Vitro Reaction Layers Formed on Plasma Sprayed Bioglass-Titanium Coatings. Key Engineering Materials, 2004, 264-268, 1973-1976.	0.4	2
90	Sintering of Synthetic Hydroxyapatite Compacts. Key Engineering Materials, 2004, 264-268, 2087-2090.	0.4	16

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91	Sintering Effect on Mechanical Properties of Enamel Derived and Synthetic Hydroxyapatite-Zirconia Composites. Key Engineering Materials, 2004, 264-268, 1961-1964.	0.4	5
92	A Promising Load Carrier Grafting Material; Sintered Enamel Hydroxyapatite Bodies. Key Engineering Materials, 2004, 264-268, 1957-1960.	0.4	3
93	The effect of bond coat on mechanical properties of plasma sprayed bioglass-titanium coatings. Ceramics International, 2004, 30, 351-355.	2.3	80
94	Plasma-sprayed human bone-derived hydroxyapatite coatings: effective and reliable. Materials Letters, 2004, 58, 2599-2604.	1.3	59
95	Plasma-sprayed bovine hydroxyapatite coatings. Materials Letters, 2004, 58, 2605-2609.	1.3	80
96	Effect of Al2O3 additions on the acid durability of a Li2Oâ€“ZnOâ€“SiO2 glass and its glass-ceramic. Ceramics International, 2003, 29, 463-469.	2.3	31
97	Processing and characterization of bioglass reinforced hydroxyapatite composites. Ceramics International, 2003, 29, 721-724.	2.3	146
98	Evaluation of Osteoblasts Viability, Alkaline Phosphatase Production and Collagen Secretion in the Presence of TiHA. Key Engineering Materials, 2003, 254-256, 777-780.	0.4	7
99	The Improvement of Titanium Reinforced Hydroxyapatite for Biomedical Applications. Key Engineering Materials, 2003, 240-242, 619-622.	0.4	18
100	Sintering Effects on Mechanical Properties of Bioglass Reinforced Hydroxyapatite Composites. Key Engineering Materials, 2003, 240-242, 939-942.	0.4	7
101	Characterization of Plasma Sprayed Bioglass Coatings on Titanium. Key Engineering Materials, 2003, 240-242, 283-286.	0.4	8
102	Effects of Bond-Coatings on Plasma Sprayed Calcium Phosphate Coatings. Key Engineering Materials, 2003, 240-242, 315-318.	0.4	7
103	Sintering effects on mechanical properties of biologically derived dentine hydroxyapatite. Materials Letters, 2002, 56, 142-147.	1.3	67
104	The effect of two polishing pastes on the surface roughness of bis-acryl composite and methacrylate-based resins. Journal of Prosthetic Dentistry, 2002, 88, 527-532.	1.1	66
105	Sintering effects on mechanical properties of glass-reinforced hydroxyapatite composites. Ceramics International, 2002, 28, 617-621.	2.3	101
106	Wear and friction behavior of pressure infiltration cast copper-carbon composites. Scandinavian Journal of Metallurgy, 2001, 30, 77-83.	0.3	2
107	Effects of Sintering on Mechanical Properties of Biologically Derived Hydroxyapatite. Key Engineering Materials, 2001, 206-213, 1615-1620.	0.4	2
108	Shear bond strength of resin luting cement to glass-infiltrated porous aluminum oxide cores. Journal of Prosthetic Dentistry, 2000, 83, 210-215.	1.1	48

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109	Wear and friction behavior of metal impregnated microporous carbon composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 3727-3738.	1.1	13
110	Bovine Hydroxyapatite (BHA) Strontium Oxide Composites. Key Engineering Materials, 0, 396-398, 407-410.	0.4	2
111	Spark Plasma Sintering of Boron Carbide and Effects of Various Additives on Sintering and Material Properties. Advances in Science and Technology, 0, , .	0.2	8
112	The Effects of Codoping Y₂O₃ on MgO Doped Spark Plasma Sintered Al₂O₃. Advances in Science and Technology, 0, , .	0.2	0
113	Reactive Spark Plasma Sintering of Si₃N₄ Based Composites. Advances in Science and Technology, 0, , .	0.2	2
114	Production and Characterization of Boron Carbide â€“ Titanium Diboride Ceramics by Spark Plasma Sintering Method. Advances in Science and Technology, 0, , .	0.2	12
115	Correlation between Structural Properties and <i><i>In Vivo</i></i> Biocompatibility of Alumina/Zirconia Bioceramics. Key Engineering Materials, 0, 493-494, 1-6.	0.4	2
116	Improving the Bioactivity and Biocompatibility of Acrylic Cements by Collagen Coating. Key Engineering Materials, 0, 493-494, 391-396.	0.4	1
117	Correlation between Milling Parameters, Structural and Mechanical Properties of Nanostructured Austenitic Y₂O₃ Strengthened Steels. Materials Science Forum, 0, 729, 409-414.	0.3	4
118	Titania <i>versus</i> Ceria Alumina/Zirconia Composites: Structural Aspects and Biological Tolerance. Key Engineering Materials, 0, 529-530, 595-600.	0.4	0
119	Gamma and Neutron Shielding Behavior of Spark Plasma Sintered Boron Carbide-Tungsten Based Composites. , 0, , 449-456.		0
120	State of the Art of Gadolinium Zirconate Based Thermal Barrier Coatings: Design, Processing and Characterization. , 0, , .		8
121	The Influence of Sintering Temperature on Mechanical and Microstructural Properties of Bovine Hydroxyapatite. Key Engineering Materials, 0, , 325-328.	0.4	1