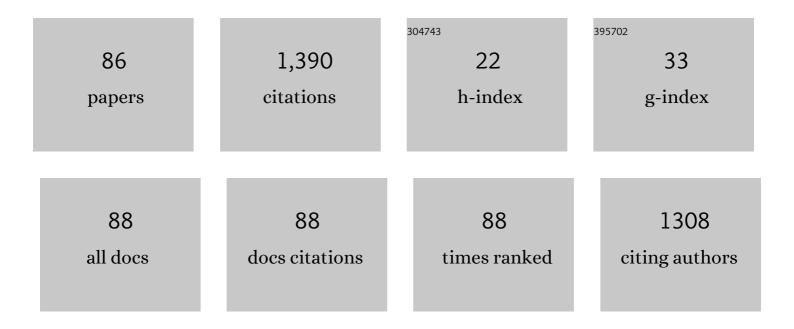
Amparo Borrell

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microwave sintering study of strontium-doped lanthanum manganite in a single-mode microwave with electric and magnetic field at 2.45ÂGHz. Journal of the European Ceramic Society, 2022, 42, 5624-5630.	5.7	10
2	Effect of Microwave-Assisted Synthesis and Sintering of Lead-Free KNL-NTS Ceramics. Materials, 2022, 15, 3773.	2.9	2
3	Microstructure and mechanical properties of 4YTZP-SiC composites obtained through colloidal processing and Spark Plasma Sintering. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2021, 60, 175-182.	1.9	5
4	Influence of SiC Addition on Mechanical Behavior of Thermal Barriers with the Aid of Acoustic Emission. Journal of Composites Science, 2021, 5, 16.	3.0	0
5	Modification of the Properties of Al2O3/TZ-3YS Thermal Barrier Coating by the Addition of Silicon Carbide Particles and Fructose. Coatings, 2021, 11, 387.	2.6	3
6	Effect of synthesis and sintering temperatures on K0.5Na0.5NbO3 lead-free piezoelectric ceramics by microwave heating. Journal of Materials Science: Materials in Electronics, 2021, 32, 15279-15290.	2.2	2
7	Fabrication and characterization of Nb 2 O 5 â€doped 3Yâ€TZP materials sintered by microwave technology. International Journal of Applied Ceramic Technology, 2021, 18, 2033.	2.1	1
8	A novel study of the effect of temperature on the crystal structure of lithium aluminosilicate materials. Open Ceramics, 2021, 7, 100169.	2.0	0
9	Dielectric, mechanical and thermal properties of ZrO2–TiO2 materials obtained by microwave sintering at low temperature. Ceramics International, 2021, 47, 27334-27341.	4.8	12
10	Tribological behavior of TZ4YS-MoSi2 composites obtained by Spark Plasma Sintering. Journal of the European Ceramic Society, 2021, 41, 7155-7163.	5.7	2
11	Synthesis and processing of improved graphite-molybdenum-titanium composites by colloidal route and spark plasma sintering. Ceramics International, 2021, 47, 30993-30998.	4.8	8
12	Study of colored on the microwave sintering behavior of dental zirconia ceramics. Journal of Asian Ceramic Societies, 2021, 9, 188-196.	2.3	1
13	Tribological and wear behaviour of alumina toughened zirconia nanocomposites obtained by pressureless rapid microwave sintering. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 101, 103415.	3.1	28
14	Effect of frequency on MW assisted sintering: 2.45 GHz versus 5.8 GHz. International Journal of Applied Electromagnetics and Mechanics, 2020, 63, S149-S154.	0.6	0
15	Study of Microwave Heating Effect in the Behaviour of Graphene as Second Phase in Ceramic Composites. Materials, 2020, 13, 1119.	2.9	7
16	Synthesis and sintering at low temperature of a new nanostructured beta-Eucryptite dense compact by spark plasma sintering. Ceramics International, 2020, 46, 18469-18477.	4.8	6
17	Microstructure and mechanical properties of 5.8â€ [−] GHz microwave-sintered ZrO2/Al2O3 ceramics. Ceramics International, 2019, 45, 18059-18064.	4.8	16
18	Influence of relative humidity and low temperature hydrothermal degradation on fretting wear of Y-TZP dental ceramics. Wear, 2019, 428-429, 1-9.	3.1	4

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19	Dryâ€sliding wear behavior of 3Y―TZP /Al 2 O 3 â€NbC nanocomposites produced by conventional sintering and spark plasma sintering. International Journal of Applied Ceramic Technology, 2019, 16, 1265-1273.	2.1	2
20	From freeze-dried precursors to microwave sintered Al2O3-ZrO2 composites. Processing and Application of Ceramics, 2019, 13, 157-163.	0.8	0
21	Molten salt attack on multilayer and functionally-graded YSZ coatings. Ceramics International, 2018, 44, 12634-12641.	4.8	10
22	Microwave-assisted solution synthesis, microwave sintering and magnetic properties of cobalt ferrite. Journal of the European Ceramic Society, 2018, 38, 2360-2368.	5.7	63
23	Effect of Al2O3-NbC nanopowder incorporation on the mechanical properties of 3Y-TZP/Al2O3-NbC nanocomposites obtained by conventional and spark plasma sintering. Ceramics International, 2018, 44, 2504-2509.	4.8	3
24	Wear behavior of conventional and spark plasma sintered Al ₂ O ₃ â€NbC nanocomposites. International Journal of Applied Ceramic Technology, 2018, 15, 418-425.	2.1	4
25	Advanced Ceramic Materials Sintered by Microwave Technology. , 2018, , .		14
26	Effects of microwave sintering in aging resistance of zirconia-based ceramics. Chemical Engineering and Processing: Process Intensification, 2017, 122, 404-412.	3.6	24
27	Thermal behaviour of multilayer and functionally-graded YSZ/Gd2Zr2O7 coatings. Ceramics International, 2017, 43, 4048-4054.	4.8	56
28	Investigation of deformation behavior and fracture of ceramic coatings by the acoustic emission method. Journal of Machinery Manufacture and Reliability, 2017, 46, 174-180.	0.5	0
29	Properties of LZS/nanoAl2O3 glass-ceramic composites. Journal of Alloys and Compounds, 2017, 710, 567-574.	5.5	28
30	LZS/Al2O3 nanostructured composites obtained by colloidal processing and spark plasma sintering. Journal of the European Ceramic Society, 2017, 37, 5139-5148.	5.7	5
31	Fretting fatigue wear behavior of Yâ€ <scp>TZP</scp> dental ceramics processed by nonâ€conventional microwave sintering. Journal of the American Ceramic Society, 2017, 100, 1842-1852.	3.8	9
32	Sliding wear behavior of Al2O3-NbC composites obtained by conventional and nonconventional techniques. Tribology International, 2017, 110, 216-221.	5.9	13
33	Impact of microwave processing on porcelain microstructure. Ceramics International, 2017, 43, 13765-13771.	4.8	15
34	Effect of reinforcement NbC phase on the mechanical properties of Al2O3-NbC nanocomposites obtained by spark plasma sintering. International Journal of Refractory Metals and Hard Materials, 2017, 64, 255-260.	3.8	14
35	LZS/Al2O3 Glass-Ceramic Composites Sintered by Fast Firing. Materials Research, 2017, 20, 84-91.	1.3	3
36	Alumina-zirconia coatings obtained by suspension plasma spraying from highly concentrated aqueous suspensions. Surface and Coatings Technology, 2016, 307, 713-719.	4.8	19

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37	Colloidal processing of fully stabilized zirconia laminates comprising graphene oxide-enriched layers. Journal of the European Ceramic Society, 2016, 36, 1797-1804.	5.7	26
38	Effect of sintering technology in β-eucryptite ceramics: Influence on fatigue life and effect of microcracks. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 651, 668-674.	5.6	27
39	Effect of graphene and CNFs addition on the mechanical and electrical properties of dense alumina-toughened zirconia composites. Ceramics International, 2016, 42, 1105-1113.	4.8	15
40	Hydrothermal Degradation Behavior of Yâ€₹ZP Ceramics Sintered by Nonconventional Microwave Technology. Journal of the American Ceramic Society, 2015, 98, 3680-3689.	3.8	13
41	Functionalization of Carbon Nanofibres Obtained by Floating Catalyst Method. Journal of Nanomaterials, 2015, 2015, 1-7.	2.7	5
42	Effect of microwave sintering on microstructure and mechanical properties in Y-TZP materials used for dental applications. Ceramics International, 2015, 41, 7125-7132.	4.8	51
43	High thermal stability of microwave sintered low-εr β-eucryptite materials. Ceramics International, 2015, 41, 13817-13822.	4.8	9
44	Fast route to obtain Al2O3-based nanocomposites employing graphene oxide: Synthesis and sintering. Materials Research Bulletin, 2015, 64, 245-251.	5.2	19
45	Effect of particle size distribution of suspension feedstock on the microstructure and mechanical properties of suspension plasma spraying YSZ coatings. Surface and Coatings Technology, 2015, 268, 293-297.	4.8	38
46	Microwave, Spark Plasma and Conventional Sintering to Obtain Controlled Thermal Expansion βâ€Eucryptite Materials. International Journal of Applied Ceramic Technology, 2015, 12, E187.	2.1	23
47	Microstructure and mechanical properties of plasma spraying coatings from YSZ feedstocks comprising nano- and submicron-sized particles. Ceramics International, 2015, 41, 4108-4117.	4.8	30
48	Mechanical Characterization of Conventional and Non-Conventional Sintering Methods of Commercial and Lab-Synthesized Y-TZP Zirconia for Dental Applications. Advances in Science and Technology, 2014, 87, 151-156.	0.2	0
49	Microwave Technique: An Innovated Method for Sintering β-Eucryptite Ceramic Materials. Advances in Science and Technology, 2014, 88, 43-48.	0.2	2
50	Fabrication of near-zero thermal expansion of fully dense Î ² -eucryptite ceramics by microwave sintering. Ceramics International, 2014, 40, 935-941.	4.8	32
51	Mechanical properties and microstructural evolution of alumina–zirconia nanocomposites by microwave sintering. Ceramics International, 2014, 40, 11291-11297.	4.8	64
52	Al2O3-3YTZP-Graphene multilayers produced by tape casting and spark plasma sintering. Journal of the European Ceramic Society, 2014, 34, 2427-2434.	5.7	27
53	ZrTiO4 materials obtained by spark plasma reaction-sintering. Composites Part B: Engineering, 2014, 56, 330-335.	12.0	8
54	Control System Design by Multicriteria Selection in Microwave Sintering Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8528-8533.	0.4	0

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55	Microwave Technique: A Powerful Tool for Sintering Ceramic Materials. Current Nanoscience, 2014, 10, 32-35.	1.2	15
56	Propiedades mecánicas y coeficiente de dilatación térmica de la β-eucriptita sinterizada por la técnica de microondas. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2014, 53, 133-138.	1.9	1
57	Influencia de los parámetros de proyección por plasma atmosférico en recubrimientos de YSZ obtenidos a partir de polvos micro y nanoestructurados. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2014, 53, 162-170.	1.9	4
58	Microwave Sintering of Zirconia Materials: Mechanical and Microstructural Properties. International Journal of Applied Ceramic Technology, 2013, 10, 313-320.	2.1	52
59	Correlation of thermal conductivity of suspension plasma sprayed yttria stabilized zirconia coatings with some microstructural effects. Materials Letters, 2013, 107, 370-373.	2.6	33
60	Microstructure and mechanical effects of spark plasma sintering in alumina monolithic ceramics. Scripta Materialia, 2013, 68, 603-606.	5.2	18
61	Adaptive microwave system for optimum new material sintering. , 2013, , .		2
62	EPD and spark plasma sintering of bimodal alumina/titania concentrated suspensions. Journal of Alloys and Compounds, 2013, 577, 195-202.	5.5	4
63	Microstructure and photocatalytic activity of APS coatings obtained from different TIO2 nanopowders. Surface and Coatings Technology, 2013, 220, 179-186.	4.8	17
64	Sliding wear behavior of WC–Co–Cr3C2–VC composites fabricated by conventional and non-conventional techniques. Wear, 2013, 307, 60-67.	3.1	28
65	Enhanced properties of alumina–aluminium titanate composites obtained by spark plasma reaction-sintering of slip cast green bodies. Composites Part B: Engineering, 2013, 47, 255-259.	12.0	29
66	Lithium aluminosilicate reinforced with carbon nanofiber and alumina for controlled-thermal-expansion materials. Science and Technology of Advanced Materials, 2012, 13, 015007.	6.1	12
67	Effect of carbon nanofibers content on thermal properties of ceramic nanocomposites. Journal of Composite Materials, 2012, 46, 1229-1234.	2.4	9
68	Bulk TiCxN1â^'x–15%Co cermets obtained by direct spark plasma sintering of mechanochemical synthesized powders. Materials Research Bulletin, 2012, 47, 4487-4490.	5.2	12
69	Improvement of CNFs/SiC nanocomposite properties obtained from different routes and consolidated by pulsed electric-current pressure sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 414-419.	5.6	3
70	Alumina–Carbon Nanofibers Nanocomposites Obtained by Spark Plasma Sintering for Proton Exchange Membrane Fuel Cell Bipolar Plates. Fuel Cells, 2012, 12, 599-605.	2.4	9
71	Improvement of microstructural properties of 3Y-TZP materials by conventional and non-conventional sintering techniques. Ceramics International, 2012, 38, 39-43.	4.8	38
72	Fabrication of C/SiC composites by combining liquid infiltration process and spark plasma sintering technique. Ceramics International, 2012, 38, 2171-2175.	4.8	23

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73	Microstructural design for mechanical and electrical properties of spark plasma sintered Al2O3–SiC nanocomposites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 693-698.	5.6	21
74	Spark plasma sintering of TiyNb1â^'yCxN1â^'x monolithic ceramics obtained by mechanically induced self-sustaining reaction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 543, 173-179.	5.6	20
75	Effect of CNFs content on the tribological behaviour of spark plasma sintering ceramic–CNFs composites. Wear, 2012, 274-275, 94-99.	3.1	33
76	Improvement of Carbon Nanofibers/ZrO ₂ Composites Properties with a Zirconia Nanocoating on Carbon Nanofibers by Sol–Gel Method. Journal of the American Ceramic Society, 2011, 94, 2048-2052.	3.8	14
77	Fabrication of full density near-nanostructured cemented carbides by combination of VC/Cr3C2 addition and consolidation by SPS and HIP technologies. International Journal of Refractory Metals and Hard Materials, 2011, 29, 202-208.	3.8	64
78	Microstructural control of ultrafine and nanocrystalline WC–12Co–VC/Cr3C2 mixture by spark plasma sintering. Ceramics International, 2011, 37, 1139-1142.	4.8	59
79	Surface coating on carbon nanofibers with alumina precursor by different synthesis routes. Composites Science and Technology, 2011, 71, 18-22.	7.8	21
80	Alumina reinforced eucryptite ceramics: Very low thermal expansion material with improved mechanical properties. Journal of the European Ceramic Society, 2011, 31, 1641-1648.	5.7	42
81	Propiedades mecÃ;nicas y tribológicas de materiales nanoestructurados de carburo de silicio/nanofibras de carbono. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2011, 50, 109-116.	1.9	1
82	Spark Plasma Sintering of Ultrafine TiC _{<i>x</i>} N _{1â^`<i>x</i>} Powders Synthesized by a Mechanically Induced Selfâ€Sustaining Reaction. Journal of the American Ceramic Society, 2010, 93, 2252-2256.	3.8	13
83	High density carbon materials obtained at relatively low temperature by spark plasma sintering of carbon nanofibers. International Journal of Materials Research, 2010, 101, 112-116.	0.3	14
84	LOW TEMPERATURE DEGRADATION BEHAVIOUR OF 10Ce-TZP/Al2O3 BIOCERAMICS OBTAINED BY MICROWAVE SINTERING TECHNOLOGY. , 0, , .		1
85	Comparison in mechanical properties of zirconium titanate (ZrTiO4) synthetized by alternative routes and sintered by microwave (MW). , 0, , .		0
86	Design and Development of Zirconia-Alumina Bioceramics Obtained at Low Temperature through Eco-Friendly Technology. , 0, , .		0