

# Francis Cambier

## List of Publications by Year in descending order

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63  
papers

1,330  
citations

331259

21  
h-index

395343

33  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1429  
citing authors

#	ARTICLE	IF	CITATIONS
1	Densification of complex shape ceramics parts by SPS. Journal of the European Ceramic Society, 2020, 40, 2586-2596.	2.8	14
2	Microstructural design of ceramics for bone regeneration. Journal of the European Ceramic Society, 2020, 40, 2555-2565.	2.8	5
3	Reinforcement effect of textured GnPs on advanced ceramics densified by SPS. Journal of the European Ceramic Society, 2020, 40, 2613-2622.	2.8	2
4	Micropatterning of beta tricalcium phosphate bioceramic surfaces, by femtosecond laser, for bone marrow stem cells behavior assessment. Materials Science and Engineering C, 2019, 95, 371-380.	3.8	12
5	Femtosecond laser impact on calcium phosphate bioceramics assessed by micro-Raman spectroscopy and osteoblastic behaviour. Journal of the European Ceramic Society, 2018, 38, 5545-5553.	2.8	8
6	Alumina Porous Ceramics Obtained by Freeze Casting: Structure and Mechanical Behaviour under Compression. Ceramics, 2018, 1, 83-97.	1.0	6
7	Bio-inspired hydroxyapatite dual core-shell structure for bone substitutes. Journal of the European Ceramic Society, 2017, 37, 5321-5327.	2.8	14
8	Influence of large particle size “ up to 1.2 mm ” and morphology on wear resistance in NiCrBSi/WC laser clad composite coatings. Surface and Coatings Technology, 2017, 311, 365-373.	2.2	43
9	Influence of conductive secondary phase on thermal gradients development during Spark Plasma Sintering (SPS) of ceramic composites. Ceramics International, 2016, 42, 17990-17996.	2.3	9
10	Thermal conductivity of ceramic/metal composites from preforms produced by freeze casting. Ceramics International, 2016, 42, 14077-14085.	2.3	32
11	Osteoblastic cells colonization inside beta-TCP macroporous structures obtained by ice-templating. Journal of the European Ceramic Society, 2016, 36, 2895-2901.	2.8	29
12	Processing of a glass ceramic surface by selective focused beam laser treatment. Ceramics International, 2016, 42, 1720-1727.	2.3	8
13	Processing and characterization of laser clad NiCrBSi/WC composite coatings “ Influence of microstructure on hardness and wear. Surface and Coatings Technology, 2015, 283, 162-171.	2.2	67
14	Spark Plasma Sintering: Homogenization of the Compact Temperature Field for Non Conductive Materials. International Journal of Applied Ceramic Technology, 2015, 12, E1.	1.1	19
15	Contribution to the understanding of the high temperature behavior and of the compressive creep behavior of silica refractory materials. Journal of the European Ceramic Society, 2015, 35, 813-822.	2.8	22
16	Shaping of ceramic parts by selective laser melting of powder bed. Journal of Materials Research, 2014, 29, 2086-2094.	1.2	73
17	Improved coloration contrast and electrochromic efficiency of tungsten oxide films thanks to a surfactant-assisted ultrasonic spray pyrolysis process. Solar Energy Materials and Solar Cells, 2014, 130, 623-628.	3.0	23
18	Lighter tableware ceramic by controlling porosity: Effect of porosity on mechanical properties. Ceramics International, 2014, 40, 763-770.	2.3	8

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19	Surfactant-assisted ultrasonic spray pyrolysis of nickel oxide and lithium-doped nickel oxide thin films, toward electrochromic applications. Applied Surface Science, 2014, 321, 61-69.	3.1	43
20	Macroporous ceramics: Novel route using partial sintering of alumina-powder agglomerates obtained by spray-drying. Ceramics International, 2014, 40, 10197-10203.	2.3	38
21	Elastic behaviour of zirconium titanate-zirconia bulk composite materials at room and high temperature. Journal of the European Ceramic Society, 2013, 33, 3195-3200.	2.8	8
22	Processing and properties of biphasic calcium phosphates bioceramics obtained by pressureless sintering and hot isostatic pressing. Journal of the European Ceramic Society, 2013, 33, 1263-1270.	2.8	72
23	Processing and properties of transparent hydroxyapatite and $\beta$ -tricalcium phosphate obtained by HIP process. Ceramics International, 2013, 39, 283-288.	2.3	46
24	Processing and properties of calcium phosphates bioceramics by hot isostatic pressing. MATEC Web of Conferences, 2013, 7, 04020.	0.1	3
25	Elastic behaviour of zirconium titanate bulk material at room and high temperature. Journal of the European Ceramic Society, 2012, 32, 4083-4089.	2.8	12
26	Densification of alumina by SPS and HP: A comparative study. Journal of the European Ceramic Society, 2012, 32, 1957-1964.	2.8	65
27	Functionalisation of porous hydroxyapatite for bone substitutes. Journal of the European Ceramic Society, 2012, 32, 2673-2678.	2.8	21
28	Interaction between laser beam and BaTiO <sub>3</sub> powders in selective laser sintering treatments. Journal of the European Ceramic Society, 2012, 32, 3303-3311.	2.8	12
29	Bulk crystallisation of (001) oriented fresnoite Sr <sub>2</sub> TiSi <sub>2</sub> O <sub>8</sub> in glass-ceramics of the Sr-Ti-Si-Ba-O system. Journal of Non-Crystalline Solids, 2011, 357, 1079-1084.	1.5	15
30	Study of damage of high zirconia fused-cast refractories by measurement of Young's modulus. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 521-522, 221-223.	2.6	16
31	Colloidal processing, hot pressing and characterisation of electroconductive MWCNT-alumina composites with compositions near the percolation threshold. Journal of the European Ceramic Society, 2009, 29, 669-675.	2.8	33
32	Multiple scratch tests and surface-related fatigue properties of monolithic ceramics and soda lime glass. Journal of the European Ceramic Society, 2009, 29, 1299-1307.	2.8	37
33	Ceramic toughness assessment through edge chipping measurements—Influence of interfacial friction. Journal of the European Ceramic Society, 2009, 29, 2135-2141.	2.8	30
34	Fracture toughness and residual stress measurements in tempered glass by Hertzian indentation. Acta Materialia, 2007, 55, 2765-2774.	3.8	28
35	Relevance of instrumented micro-indentation for the assessment of hardness and Young's modulus of brittle materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 456, 252-260.	2.6	27
36	Reduction of VOC released by pore-forming precursors during firing of clay ceramic. Journal of Cleaner Production, 2005, 13, 1131-1138.	4.6	3

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37	Silicon nitride/silicon carbide nanocomposite obtained by nitridation of SiC: fabrication and high temperature mechanical properties. Journal of the European Ceramic Society, 2003, 23, 2361-2366.	2.8	35
38	Toughness ( $K_{IC}$ ) Measurement by a Sliding Indentation Method. Key Engineering Materials, 2001, 206-213, 629-632.	0.4	6
39	Determination and refinement of the crystal structure of $M_2SiAlO_5N$ $\beta$ -phase ( $M=Y, Er, Yb$ ). Ceramics International, 2000, 26, 105-111.	2.3	21
40	Silicon nitride-silicon carbide nanocomposites prepared by water processing of commercially available powders. Journal of the European Ceramic Society, 1997, 17, 1917-1923.	2.8	16
41	Constitution of mullite glasses produced by ultra-rapid quenching of plasma-sprayed melts. Journal of the European Ceramic Society, 1995, 15, 1201-1205.	2.8	20
42	Factors affecting the sintering and the electrical properties of Sr-doped $LaCrO_3$ . Journal of the European Ceramic Society, 1994, 14, 359-367.	2.8	15
43	Hot isostatic pressing of platelet reinforced zirconia composites. , 1994, , 397-403.		0
44	A novel method to determine the R-curve behaviour of ceramic materials: Application to a ceria-partially stabilized zirconia. Journal of the European Ceramic Society, 1993, 12, 71-77.	2.8	2
45	Hot isostatic pressing of SiC-platelets/Y-TZP composites. Journal of the European Ceramic Society, 1993, 12, 103-109.	2.8	20
46	Preparation and characterization of a dispersion toughened ceramic for thermomechanical uses (ZTA). Part I: Material preparation. Characterization of microstructure. Journal of the European Ceramic Society, 1992, 9, 169-176.	2.8	9
47	Preparation and characterization of a dispersion toughened ceramic for thermomechanical uses (ZTA). Part II: Thermomechanical characterization. Effect of microstructure and temperature on toughening mechanisms. Journal of the European Ceramic Society, 1992, 9, 177-185.	2.8	8
48	Mechanical properties of silicon nitride-SiC platelet composites. Journal of the European Ceramic Society, 1991, 8, 305-309.	2.8	11
49	High-Temperature Characterization of Reaction-Sintered Mullite-Zirconia Composites. Journal of the American Ceramic Society, 1991, 74, 2476-2481.	1.9	49
50	Ceramic Matrix Composites: Properties and Applications. , 1991, , 109-125.		4
51	High Temperature Mechanical Behaviour of Mullite-Zirconia Composites Obtained by Reaction Sintering. , 1989, , 137-151.		2
52	Fractographic and acoustic emission of mullite-alumina-zirconia composites prepared by reaction sintering. Journal of Materials Science, 1987, 22, 4398-4402.	1.7	8
53	Fractographic study of the alumina and zirconia particles embedded in mullite prepared by reaction sintering. Journal of Materials Science, 1986, 21, 4024-4028.	1.7	10
54	High temperature mechanical properties of reaction-sintered mullite/zirconia and mullite/alumina/zirconia composites. Journal of Materials Science, 1985, 20, 2533-2540.	1.7	76

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55	K IC calculations for some mullite-zirconia composites prepared by reaction sintering. Journal of Materials Science Letters, 1985, 4, 1099-1101.	0.5	9
56	Ceramic powders containing tetragonal zirconia prepared by a sol-gel route. Journal of Materials Science Letters, 1984, 3, 124-126.	0.5	7
57	Effect of magnesia additions on the reaction sintering of zircon/alumina mixtures to produce zirconia toughened mullite. Journal of Materials Science Letters, 1983, 2, 772-774.	0.5	23
58	Reaction sintering (RS) of mixed zircon-based powders as a route for producing ceramics containing zirconia with enhanced mechanical properties. Journal of Materials Science Letters, 1983, 2, 366-370.	0.5	21
59	Correspondence analysis for describing the morphology of powders. Application to a commercial alumina powder. Acta Metallurgica, 1983, 31, 893-902.	2.1	2
60	Reaction sintering of MgO-TiO <sub>2</sub> mixtures. Ceramics International, 1982, 8, 77-78.	2.3	9
61	Thermal expansion of zircon-alumina materials prepared by reaction sintering. Journal of Materials Science, 1981, 16, 825-828.	1.7	7
62	Reaction sintering of ZnO-Al <sub>2</sub> O <sub>3</sub> mixtures. Journal of Materials Science, 1981, 16, 539-544.	1.7	25
63	Some comments on ceramic solid-state reaction kinetics using results obtained on the ZnO-Al <sub>2</sub> O <sub>3</sub> system. Journal of Materials Science, 1981, 16, 1121-1126.	1.7	12